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## STANDARDS BULLETIN No : S12-071

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**SUBJECT:** Release of the Mark 3 Substation Drawing Set (General Arrangement, Civil Installation, Concrete Slab Foundation, Conduit Location Jig).

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### Purpose:

The purpose of this bulletin is to advise the release of the Mk3 substation drawing set including:

- General Arrangement : **S02-1-7-18** Substation Mk3 Package Substation
- Civil Installation : **S02-2-6-37** Civil, Mk3 Package Substation  
**S02-2-6-42** Mark 3 Conduit Locations using Mk2 Concrete Slab
- Conduit Location Jig : **S02-2-6-43** Mark 3 Package Substation Conduit Location Jig using Mark 2 Concrete Slab

Other existing drawings required for the installation requirements for the Mark 3 substation are updated as follows:

- Earth Apron : **S02-2-5-10** Earthing Package Substation Mk2 & Mk3 Construction Details (Greenfields)  
**S02-2-5-14** Earthing Package Substation Mk2 & Mk3 Construction Details (Brownfields)
- Easement Details : **S02-2-6-17** Civil Substation Easement Details HV & LV Equipment
- Ground Level Details : **S02-2-6-33** Ground Level Details Package Substations and Ring Main Units

### Reason:

The release of the Mk3 Package Substation advised 21 March 2017 (Standard Bulletin S12-070) was not complimented with a release of a standard drawing set.

A full drawing set is now available for the Mk3 substation, which will provide asset information and instructions for installation.

The drawing set now includes detailed information for the Mark 3 Substation and installation details including;

- Construction sequence for ground preparation and civil works
- Layout dimensions for the foundation, conduits and earth apron within the easement
- Details for fabricating a conduit installation jig
- Labels and signage on the enclosure of the package substation identifying lift and tie down points

Please note that the Mk2 substation concrete slab shall be used with the Mk3 substation installation until a new Mark 3 substation concrete slab is made available. Refer to drawings S02-2-6-42 and S02-2-6-43 for specific installation details using the Mark 2 package substation slab.

## **Requirements:**

- The design and installation of the Mark 3 substation shall be as per the specification, information and instructions stated on the drawings.

## **Implementation:**

The drawing package is effective immediately for the design and installation of the Mark 3 Package Substation.

Prior to any deviation from the design and installation instructions, written approval from PWC's Manager Distribution Development for the design approval submission and the Works Management Manager for changes during the construction phase.