



CASE STUDY

MaxWell® Stormwater Drainage Install

DESCRIPTION

As part of a structural demo and site re-purposing project, this jobsite is ultimately going to be redeveloped as a parking lot of the LA Metro train station that was situated directly opposite.

The engineering design identified the need for providing storm-water drainage via a drywell installation for the resultant concrete surface at the site in the event of inclement weather events. E&E was contracted to perform the installation of a MaxWell® Drainage System on the site.

This system is widely accepted by State and Municipalities as a standard methodology to handle stormwater runoff and is best described as a treatment BMP which utilizes infiltration to help replenish groundwater.

Prior to E&E installing the drainage system, five buildings were demolished and removed. On completion, E&E then had to excavate the entire site to investigate subsurface obstructions, such as orphan pipelines, footings, general debris, and other items. E&E discovered several pipelines traversing the site, as well as two small concrete tanks and other concrete structures, and subsequently had to remove and dispose of them.

Next, E&E was required to over excavate the entire site, moisture condition the soil, place in 1' thick loose lifts and compact to 95% of maximum dry density using a California modified proctor. Once the soil excavation and replacement activities were completed, two deep holes were drilled and excavated for the drain installations and two MaxWell® Drains were installed to 45ft BGS.

MAIN TASKS

- Excavate site soils to a depth of -5' BGS and remove any debris.

- Moisture condition, reinstall and compact soils in 1' lifts.
- Install two MaxWell® Drains down to 45' bgs

CHALLENGES

E&E had to excavate the entire site and there was hardly any 'spare' space, therefore staging the equipment on the same area that was being excavated and recompacted required careful planning.

The area was particularly prone to criminal activity. Security measures were deployed to protect equipment and materials.

INTERESTING POINTS

Over 65,000 MaxWell® Drain systems have been installed and they are now seen as a standard detail in numerous drainage manuals throughout state and local government.

Here is a cross-section diagram of the drain that was installed:



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