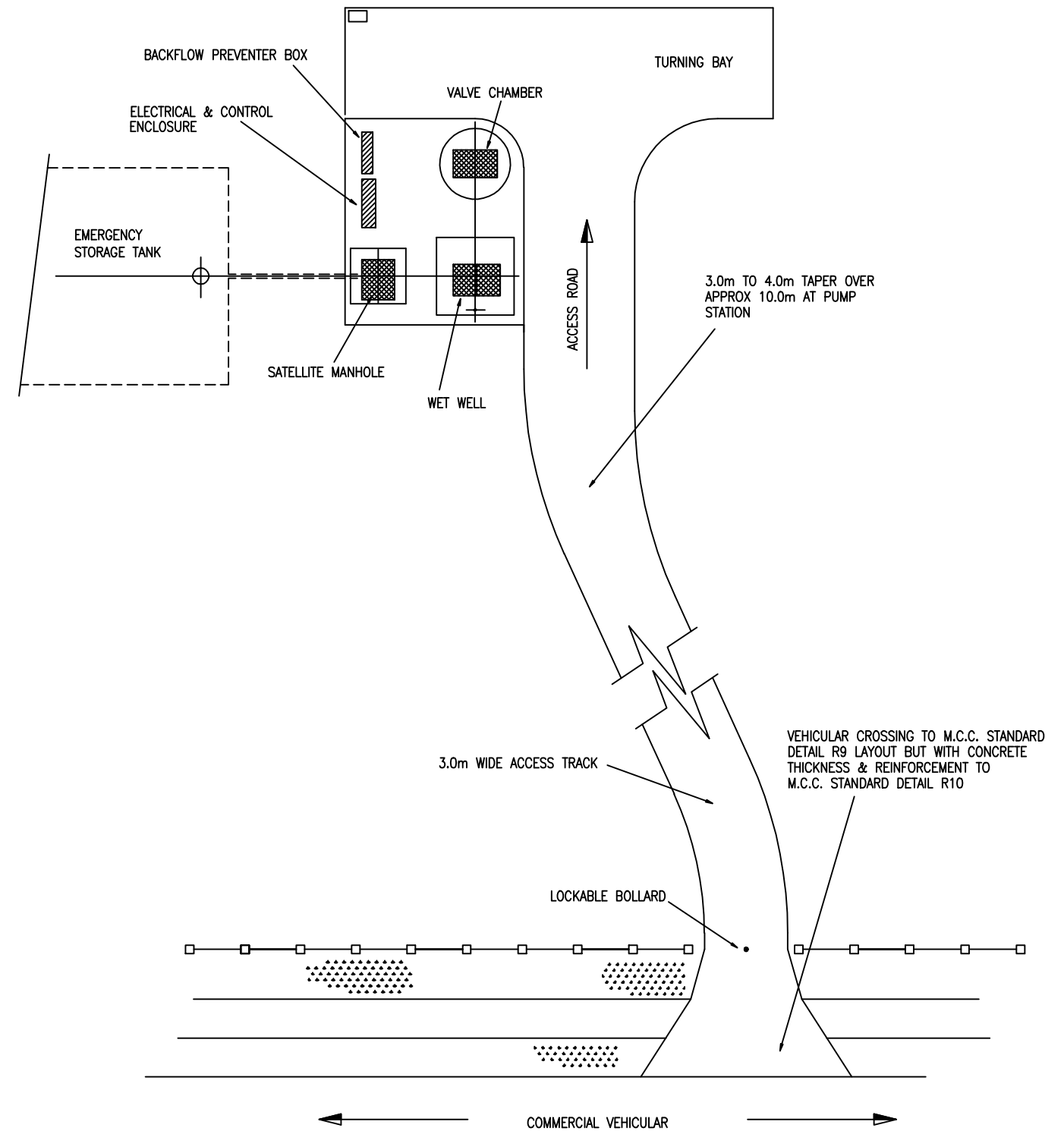


TYPICAL ROAD SIDE LOCATION



TYPICAL RESERVE LOCATION

LANDSCAPING FACTORS TO BE CONSIDERED

- SITING
 - Avoid obvious site lines (for instance opposite ends of streets or entrances to reserves) and prominent site (such as corner sites).
 - Within reserves, locate pump stations away from entrances towards boundaries.
- PLANTING
 - Consider using trees such as Pohutukawa, Totara, Titoki or Puriri to cast shadows that reduce visual presence of the pump station.
 - Avoid planting shrubberies that increase the prominence of the pump station.
- SCREENING
 - Use only as a last resort when other measures have failed.
- VEHICLE ACCESS
 - Where appropriate provide all or partial vehicle access from existing road (for instance where parked service vehicles will not pose a safety hazard to other vehicles & pedestrian traffic).
 - All vehicle access areas shall be capable of handling a 15 tonne truck
 - Where the risk of vandalism is considered high (for instance due to remoteness or concealed from public view) or public vehicle access is to be restricted, lockable bollards in accordance with Manukau City Council standards shall be provided.
 - Areas of concrete to be minimal. Consideration to be given to suitable material for access track. For instance in proximity to foreshore or estuary environments, a metal or shell track may be appropriate. Within open park areas reinforced grass such as 'Gobi Blocks' may be preferable.
 - Where the proposed vehicle access enters a primary road, advise & approval with respect to its location shall be obtained from M.C.C. transportation engineer at an early stage.



WASTEWATER PUMPING STATION STANDARDS

SITE LAYOUT

Design and Material Standards - Manukau Water Limited

DETAIL NO:

PS-01

SCALE:

1:200 @ A3

UPDATED:

JULY 2006