



Project Study Boundary

Drainage Management Areas (DMAs)

DMA Sub-Basins

Existing

Bioswale

Culvert

Proposed Project

Bioswale (Minor Grading and Debris/Vegetation Removal)

New Culvert/ Stormdrain Pipe (Within Existing Roadway/Driveway)

Replace Existing Culvert

Remove Culvert

Proposed Rain Gardens

Replace Existing Flap Gate

0100150200250

Feet

Map Projection: Lambert Conformal Conic

Horizontal Datum: North American 1983

Grid: NAD 1983 StatePlane California I FIPS 0401 Feet

GHD

Manila Community Services District

Manila Flood Reduction & Drainage Enhancement Project

Project No. 12572691

Revision No. -

Date Feb 2023

Project Components

FIGURE 3 - 1

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Project Study Boundary

Drainage

Management Areas (DMAs)

DMA Sub-Basins

Existing

Bioswale

Culvert

Proposed Project

Bioswale (Minor Grading and Debris/Vegetation Removal)

New Culvert/Stormdrain Pipe (Within Existing Roadway/Driveway)

Replace Existing Culvert

Remove Culvert

Valley Gutters with New Driveway Aprons, Replacement

Proposed Rain Gardens

050100150200250300

Feet

Map Projection: Lambert Conformal Conic

Horizontal Datum: North American 1983

Grid: NAD 1983 StatePlane California I FIPS 0401 Feet

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FIGURE 3 - 2

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Legend

Project Study Boundary

Drainage Management Areas (DMAs)

DMA Sub-Basins

Existing

Bioswale

Culvert

Bioswale (Minor Grading and Debris/Vegetation Removal)

Replace Existing Culvert

Valley Gutters with New Driveway Aprons, Replacement

Proposed Rain Gardens

Paper Size ANSI B

0

50

100

150

200

250

Feet

Map Projection: Lambert Conformal Conic

Horizontal Datum: North American 1983

Grid: NAD 1983 StatePlane California I FIPS 0401 Feet

Manila Community Services District

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FIGURE 3 - 3

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