TYPICAL STRUCTURAL SECTIONS

1

600 MM IMPORTED TOP SOIL

FINISHED GRADE

1.2

1.2

1.2

1.5

600 mm

300 mm

300 mm

BIOFILTRATION SWALE
N/605/CARSON & DEL AMO INTERCHANGE

FINISHED GRADE

760 mm

1.2

1.5

1.2

760 mm

300 mm

300 mm

BIOFILTRATION SWALE
W 91 BEHIND CERRITOS MAINTENANCE STATION

FINISHED GRADE

760 mm

1.2

1.5

1.2

760 mm

300 mm

300 mm

BIOFILTRATION SWALE
N 605/91 INTERCHANGE

FINISHED GRADE

760 mm

1.2

1.5

1.2

760 mm

300 mm

300 mm

BIOFILTRATION SWALE
S 5/605 (N) SEPARATION

FINISHED GRADE

2.5 T/C

BID ADD. 1

0.50

0.50

0.50

0.50

600 mm

300 mm

300 mm

AS - BUILT

TYPICAL CROSS SECTIONS

NO SCALE

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

X-1
TYPICAL STRUCTURAL SECTIONS

1. 600 mm IMPORTED TOP SOIL
2. 60 mm AC TYPE B
   210 mm CLASS 2 AB

TYPICAL CROSS SECTION
PULLOFF AREA

EXISTING
300 mm

3.36

EXISTING
60 mm AC
3+3x

210 mm CLASS 2 BASE

AC DIKE TYPE C

PULLOUT AREA CROSS SECTION
N 605/91 INTERCHANGE

EXISTING
300 mm

3.36

EXISTING
60 mm AC
5+2%

210 mm CLASS 2 BASE

AC DIKE TYPE C

BIOFILTRATION STRIP
N 605/91 INTERCHANGE

WP2 CCO 2

8.00

5+2%

200 mm TOP SOIL

-600 mm TOP SOIL

WP1 CCO 2

8.00

5+2%

600 mm TOP SOIL

INfiltration Trench

BIOFILTRATION STRIP & INFILTRATION TRENCH
ALTADENA MAINTENANCE STATION

WPI CCO 2

DEPRESSED CURB

STORM WALL

AS - BUILT

TYPICAL CROSS SECTIONS

NO SCALE

X-2
POST CONSTRUCTION

CONNECT W/ WOODEN RAILING (TYPE XI)
BELOW W/ WOOD POST

END TEMPORARY RAILING (TYPE XI)
AT SOUTH END OF W/ WOOD POST

CRUSH CUSHION ARRAY

3 WIDE CHAIN LINK GATE

REMOVE CHAIN LINK FENCE

(E) SR-91/(N)-606 SEPARATION

AS - BUILT
LAYOUT

SCALE 1:400

L-6
(E) SR-91/(N) I-605 SEPARATION

CONTOUR GRADING PLAN

This plan accurate for grading only

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SCALE 1"=200

G-1
(E) 8R-01/(N) I-905 SEPARATION

This plan depicts for drainage only

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DRAINAGE PLAN

SCALE 1:200

MATCH LINE SEE LOWER LEFT

450 mm x 38
RCP 22-02.15
25 RCP PIPE

AS - BUILT
DRAINAGE SYSTEM 3

DRAINAGE SYSTEM 4

DRAINAGE SYSTEM 5

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SCALE 1:200

D-10
TYPICAL VALLEY GUTTER

WPI CCO 2
CONCRETE COLLECTOR DITCH

TYPICAL EARTH SWALE

CONCRETE SPREADER DITCH

CURB DETAIL FOR BIOFILTRATION STRIP 605/91

RSP BACKING NO. 3 METHOD B

AS - BUILT
DRAINAGE DETAILS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
PLAN VIEW

DETAIL OF DOWEL

FILLED WITH SLURRY AND ROCK
WP2 CCO 4

SECION A-A

RSP ENERGY DISSIPATER AT HEAD WALL

RSP ENERGY DISSIPATER

SECTION B-B

250 mm
150 mm

150 mm

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

AS - BUILT
DRAINAGE DETAILS

NO SCALE
457 H-FLUME (MOD) STRUCTURE

305 H-FLUME (MOD) STRUCTURE

LYSIMETER DETAIL

AS - BUILT

DRAINAGEDETAILS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

NO SCALE

D-19
### Place Asphalt Concrete Dike

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>TYPE E</th>
<th>TYPE C</th>
</tr>
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<tbody>
<tr>
<td>S 5/605 INTERCHANGE</td>
<td>10</td>
<td>0</td>
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<tr>
<td>N 605/CARSON &amp; DEL AMO INTERCHANGE</td>
<td>58.5</td>
<td>57.5</td>
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<td>N 605/91 INTERCHANGE</td>
<td>48.0</td>
<td>39.0</td>
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<td><strong>TOTAL</strong></td>
<td>208.5</td>
<td>96.5</td>
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### Chain Link Fence

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>CL-1.6</th>
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<tbody>
<tr>
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### Minor Concrete (Minor Structure)

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<tr>
<th>LOCATION</th>
<th>m³</th>
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<tbody>
<tr>
<td>ALTADENA MAINTENANCE STATION</td>
<td>5.19</td>
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<tr>
<td>N 605/91 INTERCHANGE</td>
<td>1.3</td>
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<tr>
<td>N 91/CERRITOS MAINTENANCE STATION</td>
<td>0.6</td>
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<tr>
<td>S 5/605 INTERCHANGE</td>
<td>0.6</td>
</tr>
<tr>
<td>N 605/CARSON &amp; DEL AMO INTERCHANGE</td>
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</tr>
<tr>
<td>FOOTHILL MAINTENANCE STATION</td>
<td>5.7</td>
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<tr>
<td>LAS FLORES MAINTENANCE STATION</td>
<td>5.4</td>
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<tr>
<td>ROSEMAD MAINTENANCE STATION</td>
<td>3.5</td>
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<td><strong>TOTAL</strong></td>
<td>19.2</td>
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</table>

### 1.5 M Chain Link Gate

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>TYPE CL-1.6</th>
<th>EA m</th>
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<tbody>
<tr>
<td>ALTADENA MAINTENANCE STATION</td>
<td>1.2</td>
<td>5</td>
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<td>5</td>
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### Remove AC Dike

<table>
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<tr>
<th>LOCATION</th>
<th>EA m</th>
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<tr>
<td>S 5/605 INTERCHANGE</td>
<td>0.0</td>
</tr>
<tr>
<td>N 605/CARSON &amp; DEL AMO INTERCHANGE</td>
<td>1.1</td>
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<tr>
<td>N 605/91 INTERCHANGE</td>
<td>0.0</td>
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<td><strong>TOTAL</strong></td>
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### 3 M Chain Link Gate

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<tbody>
<tr>
<td>N 91/CERRITOS MAINTENANCE STATION</td>
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<td><strong>TOTAL</strong></td>
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### Summary of Quantities

**AS-BUILT**

**Summary of Quantities**

No Scale
### Roadway Items

<table>
<thead>
<tr>
<th>Location &amp; Description</th>
<th>Asphalt Conc (Type B)</th>
<th>Aggregate Base (Class 2)</th>
<th>Remove Asphalt Concrete</th>
<th>Roadway Excavation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>m^3</td>
<td>m^3</td>
<td>m^3</td>
<td>m^3</td>
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<tr>
<td>Altadena Maintenance Station</td>
<td>33</td>
<td>300</td>
<td>780</td>
<td>-</td>
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<tr>
<td>N 605/91 Interchange</td>
<td>15</td>
<td>66</td>
<td>-</td>
<td>85</td>
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<tr>
<td>S 5/605 Interchange</td>
<td>0</td>
<td>0</td>
<td>-</td>
<td>0</td>
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<td>N 605/Carson &amp; Del Amo Interchange</td>
<td>16</td>
<td>66</td>
<td>-</td>
<td>19</td>
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<tr>
<td>Foothill Maintenance Station</td>
<td>5</td>
<td>9</td>
<td></td>
<td></td>
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<td>Las Flores Maintenance Station</td>
<td>7</td>
<td>170</td>
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<tr>
<td>Rosemead Maintenance Station</td>
<td>5</td>
<td>106</td>
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<td><strong>Total</strong></td>
<td><strong>67</strong></td>
<td><strong>205</strong></td>
<td><strong>570</strong></td>
<td><strong>196</strong></td>
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### Traffic Handling

<table>
<thead>
<tr>
<th>Location &amp; Description</th>
<th>TEAR-OUT</th>
<th>CONSTRUCTION MOUNTED</th>
<th>TEMPORARY CONSTRUCTION MATERIALS</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>M</td>
<td>EA</td>
<td>TG TC TJ TCA</td>
</tr>
<tr>
<td>With Shoppers</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>140</td>
<td>16</td>
<td>1 2 -</td>
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<tr>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>161</td>
<td>16</td>
<td>- 0 -</td>
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<tr>
<td>S 5/605 Interchange</td>
<td>110</td>
<td>16</td>
<td>1 -</td>
</tr>
<tr>
<td>N 605/Carson &amp; Del Amo Interchange</td>
<td>411</td>
<td>48</td>
<td>.9 2 -</td>
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<tr>
<td><strong>Total</strong></td>
<td>411</td>
<td>48</td>
<td>.9 2 -</td>
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### Earthwork Quantities

<table>
<thead>
<tr>
<th>Location &amp; Description</th>
<th>Excavation</th>
<th>Unsuitable Material</th>
<th>Import Borrow</th>
<th>Remove Existing V-Ditch</th>
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<tbody>
<tr>
<td></td>
<td>m^3</td>
<td>m^3</td>
<td>m^3</td>
<td>m</td>
</tr>
<tr>
<td>Altadena Maintenance Station</td>
<td>650</td>
<td>656</td>
<td></td>
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<tr>
<td>N 605/91 Interchange</td>
<td>137</td>
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<td>349</td>
<td>67</td>
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<tr>
<td>W 91/Cerritos Maintenance Station</td>
<td>40</td>
<td>28</td>
<td></td>
<td>28</td>
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<tr>
<td>S 5/605 Interchange</td>
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<td>0</td>
<td>537</td>
<td>0</td>
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<tr>
<td>N 605/Carson &amp; Del Amo Interchange</td>
<td>65</td>
<td>0</td>
<td>32</td>
<td>46</td>
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<tr>
<td><strong>Total</strong></td>
<td>927</td>
<td>656</td>
<td>868</td>
<td>153</td>
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</table>

### As-Built

**Summary of Quantities**

All dimensions are in meters unless otherwise shown.
EQUIPMENT HOUSING LOCATION

SECTION A-A

SECTION B-B

FLOW MEASURING & SAMPLE BOX

CONCRETE SLAB

CONCRETE PAD

BOTTOM EDGE OF ENCLOSURE

PCD 9" 100 mm Ø LOAD CONDUIT

25 610 mm SWEEP

120 VOLT 1P 15 AMP

50 mm PVC, 2 "10 + 1 "10 CRO

WEATHER PROOF DUPLEX RECEPTACLES W/ GFCI

WEATHER PROOF RECEPTACLE W/ GFCI

SECTION C-C

PLAN VIEW

PLAN

ELEVATION

INSTRUMENTATION CONDUIT STUB-UP

TYPICAL SINGLE LINE

1. CONTRACTOR TO IDENTIFY/INSTALL PANEL WITH BREAKER TO SERVICE INSTRUMENT.
2. GENERAL AREA IDENTIFIED ON ELECTRICAL SITE PLAN FOR POWER TAKE-OFF.
3. SEE SECTION C-C FOR RECEPTACLE DETAILS.

AS - BUILT

ELECTRICAL DETAILS

NO SCALE

E-9

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

FOR REVISED DRAWING SHEET, SEE SHEET INDEX ON REAR OF DRAWING.