CONSTRUCTION AREA SIGNS

<table>
<thead>
<tr>
<th>SIGN NO</th>
<th>CODE</th>
<th>PANEL SIZE (MM)</th>
<th>SIGN MESSAGE</th>
<th>NO. OF POSTS</th>
<th>NO. OF SIGNS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>C1B</td>
<td>1200 X 1200</td>
<td>ROAD CONSTRUCTION AHEAD</td>
<td>2 - 100mm x 150mm (1S)</td>
<td>1</td>
</tr>
<tr>
<td>B</td>
<td>C13</td>
<td>1200 X 450</td>
<td>END CONSTRUCTION</td>
<td>2 - 100mm x 150mm (1S)</td>
<td>1</td>
</tr>
</tbody>
</table>

(1S) denotes stationary mounted sign. Exact location to be determined by the engineer.

AS BUILT

CONSTRUCTION AREA SIGNS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
EXTENDED DETENTION BASIN

1-5/1-605

EXISTING
HEADWALL

EXISTING
600 MM RCP

LIMITS OF
GRADING

TOE OF
SLOPE

80 m MBGR

44
41
40.2
40.5

BURIED CABLE
GENERAL TEL. CO.
MUST BE CONFIRMED LOCATION AND PROJECT IN PLACE.

ROAD EXTENDED
SEE AUXILIARY
DRAWING L-1A

549507

1. FOR HORIZONTAL CONTROL TABLE
AND CURVE DATA, SEE SHEET L-2.

2. FOR COMPLETE R/W AND ACCURATE
ACCESS DATA, SEE R/W RECORD
MAPS AT DISTRICT OFFICE.

NOTE:

PAVED ACCESS ROAD

DIRECTION OF FLOW

LEGEND

SCALE 1:200

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

LAYOUT

SHEET L-1

FOR REVISED PLANS

DRAWN IN SCALE 1:200 METERS

CHECKED: 2022/06/20

CL 07279

LA 19101

VERIFIED BY:

DESIGN: DERRICK MILES

PREPARED BY:

MOHAMMED AL TAMEEM

IN CHARGE:

SAM T. ELHAGE

SOMA 

OCTOBER 20, 2021

CIVIL ENGINEER

REGISTERED CIVIL ENGINEER

BROWN AND CALDWELL

15170 VON KARMAN

IRVING, CA 90740
INLET STRUCTURE

DRAINAGE SYSTEM NO

900 mm x 900 mm REINFORCED CONCRETE SAMPLE BOX

600 mm RCP

FLOW DIRECTION

5.5 mm EXPANSION JOINT W/ FILLER AND SEALANT

SAMPLING EQUIPMENT BOX (10% OTHERS)

1.52 X 1.52 X 0.250 REINF CONCRETE SLAB ON GRADE

EXISTING HEADWALL

EXISTING 1.5 X 0.6 RCP

DRILL HOLE FOR #10 DOWEL AT 300 mm & FILL WITH EPOXY TYP

600 mm INLET (RCP)

EXISTING 1.5 X 0.6 RCP

EXISTING HEADWALL

ELEV 36.340

ELEV 37.610

9.5 mm EXP JOINT SEALANT AROUND HEADWALL TYP

VERIFY IN FIELD

SECTION

ELEV 37.500 (1-605/91)
ELEV 37.800 (1-605/91)
ELEV 21.800 (1-605/91)
ELEV 21.650 (1-605/91)

ELEV 36.500 (1-605/91)
ELEV 36.600 (1-605/91)
ELEV 36.700 (1-605/91)
ELEV 36.800 (1-605/90)

600 mm RCP

FLOW

SECTION

ELEV 36.340 (1-605/91)
ELEV 37.610 (1-605/91)
ELEV 37.810 (1-605/91)
ELEV 21.850 (1-605/91)

600 mm RCP

FLOW

AS BUILT

DRAINAGE DETAILS

SCALE: 1:25

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SCALE: 1:25

DRAINAGE SYSTEM NO

INLET SAMPLE BOX

SCALE: 1:25

DRAINAGE SYSTEM NO

SCALE: 1:25
CONCRETE (BASIN LINING)

NOT TO SCALE

DRAINAGE SYSTEM NO 5 0

ACCESS ROAD

300 mm

114

100 mm

WILLOW WOVN FABRIC

WID x H10

150 mm x 150 mm

11.4

CONCRETE (BASIN LINING)

NOT TO SCALE

DRAINAGE SYSTEM NO 6 0

BASIN INLET/OUTLET

DRAINAGE SYSTEM NO

SCALE: 1:20

AS BUILT

DRAINAGE DETAILS

SCALE AS NOTED

D-11

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
# Drainage Quantities

<table>
<thead>
<tr>
<th>Description</th>
<th>Station</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inlet Structure W/RSP</td>
<td>D-2 1 0</td>
</tr>
<tr>
<td>Single Headwall (STD 0891)</td>
<td>E-1 0</td>
</tr>
<tr>
<td>Rock Slope Protection</td>
<td>E-0 0</td>
</tr>
<tr>
<td>Outlet Structure</td>
<td>D-0 1 0</td>
</tr>
<tr>
<td>Single Headwall (STD 0891)</td>
<td>E-0 0</td>
</tr>
<tr>
<td>G00mm Automatic Drainage Gate</td>
<td>E-0 0</td>
</tr>
<tr>
<td>Plastic Pipe &amp; Support</td>
<td>E-0 0</td>
</tr>
<tr>
<td>Single Headwall (STD 0891)</td>
<td>E-0 0</td>
</tr>
<tr>
<td>Pipe Inlet Type OAP</td>
<td>E-0 0</td>
</tr>
<tr>
<td>Pipe Inlet Type OAP</td>
<td>E-0 0</td>
</tr>
<tr>
<td>Plastic Pipe &amp; Support</td>
<td>E-0 0</td>
</tr>
</tbody>
</table>

**Sheet Total:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>24.0</td>
<td>521</td>
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<tr>
<td>16.5</td>
<td>3</td>
</tr>
<tr>
<td>6.7</td>
<td>4.5</td>
</tr>
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<td>6.9</td>
<td>3.5</td>
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<tr>
<td>2.0</td>
<td>3.5</td>
</tr>
<tr>
<td>1.0</td>
<td>3.5</td>
</tr>
</tbody>
</table>

*Not a separate pay item for information only.

**Note:**
- 400 mm RCP
- 600 mm RCP
- 1200 mm RCP

**As Built**

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**Drainage Quantities**
## ROADWAY ITEMS

| LOCATION OF CONSTRUCTION | DESCRIPTION | ASPHALT CONCRETE | TYPE | Aggregate Base | Temporary Railing | ROADWAY EXCAVATION | IMPORTED EARTH
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Tonn</td>
<td>m³</td>
<td>m³</td>
<td>m³</td>
<td>m³</td>
<td>m³</td>
</tr>
<tr>
<td>(1)</td>
<td>15/1605</td>
<td>57</td>
<td>11</td>
<td>65</td>
<td>100</td>
<td>1500</td>
<td>200</td>
</tr>
<tr>
<td>(2)</td>
<td>1605/1691</td>
<td>58</td>
<td>12</td>
<td>50</td>
<td>750</td>
<td>370</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>115</td>
<td>143</td>
<td>115</td>
<td>850</td>
<td>2020</td>
<td></td>
</tr>
</tbody>
</table>

---

**AS BUILT**

**SUMMARY OF QUANTITIES**

Q-1
NOTES:
1. CUT AND CAP EXISTING LINE MIN 1 m FROM UPSTREAM JOINT.
2. REMOVE OR ABANDON IRRIGATION SYSTEM
3. PROTECT EXISTING IRRIGATION SYSTEM
NOTES
1. For details of steel pipe inlets, see New Standard Plan NSP 074A.
2. For details of laterals and steps and when ladder or steps are required, see New Standard Plan NSP 074C.
3. Inlet pipe shall not protrude into basin.
4. Except for tanks used for junction boxes, basin floors shall have minimum slope of 1/4 to allow water flow toward outlet pipe and a manhole finish.
6. Designation of Type OCP pipe inlets on plans indicates that risers are to be furnished and installed on all side openings. See Standard Plan NSP 074C for Trash rack details.
7. More than one side opening may be required. Location and number as ordered by Engineer. Opening may be cast in pipe.
8. Only to be provided when specified.
9. Place pipe so bars of grate will be parallel with main surface flow.
10. Redwood covers not to be used where there is possibility of wheel boats. Use Type OCP where there is possibility of wheel boats.
NOTES

1. Ladders and Steps - None required where "H" dimension of pipe inlet is less than 0.75 m. Where "H" is 0.75 m or more, install steps or ladder with lowest rung not more than 0.3 m above the floor and highest rung not more than 2.0 m above the floor. The distance between step or rung shall not exceed 0.3 m and shall be uniform throughout the length of the wall. Place steps or ladder in the wall without an opening unless an opening is specifically provided.

2. Ladder may be constructed to one length or contractor's option on NPK inlet.

3. On CSP Inlet, connect ladder splice plate so joint can compress 15 mm.

4. Ladder splice plates to be connected with 15 mm bolts with double nuts.

5. Trash racks used on Type CP1 and DMP Inlets. Trash racks required for pumping stations.

6. All hardware to be galvanized after fabrication. See Standard Specifications or Special Provisions.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PIPE INLETS
LADDER, STEP AND TRASH RACK DETAILS

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NSP D75A, NSP D75B AND NSP D75C DATED DECEMBER 4, 1997
SUPERSEDES STANDARD PLANS D75 DATED JULY 1, 1997 PAGE 61

NEW STANDARD PLAN NSP D75C