

**APPENDIX G**  
**Photo Log and Selected Photographs**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY - REGION IX  
75 HAWTHORNE STREET SAN FRANCISCO, CALIFORNIA 94105  
CONTRACT NO. 68 - W 98 - 225

MUSCOY OPERABLE UNIT REMEDAL DESIGN  
WA NO. 014 - RDRD. 09JS

19TH STREET PLANT and ENCANTO PARK PUMPING STATION  
SAN BERNARDINO, CALIFORNIA

URS CORP. PROJECT NO. 18600069.01000

PHOTO LOG - JOBSITE

19TH Street Plant 1-Mar-04 Station No. Looking North Photo No. 1 (CD) No.1	19TH Street entrance to the treatment plant site, before construction activities start.
19TH Street Plant 1-Mar-04 Station No. Looking Northwest Photo No. 2 (CD) No.1	Service yard area at the south end of the treatment plant, before construction activities start.
19TH Street Plant 1-Mar-04 Station No. Looking North Photo No. 3 (CD) No.1	Existing driveway on the east side in the treatment plant, before construction activities start.
19TH Street Plant 1-Mar-04 Station No. Looking South Photo No. 4 (CD) No.1	Existing driveway on the east side in the treatment plant, before construction activities start.
19TH Street Plant 1-Mar-04 Station No. Looking North Photo No. 5 (CD) No.1	The front side of the existing eight carbon vessels on the west side in the treatment plant, before construction activities start.
19TH Street Plant 1-Mar-04 Station No. Looking North Photo No. 6 (CD) No.1	The back side of the existing eight carbon vessels on the west side in the treatment plant, before construction activities start.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 1-Mar-04 Station No. Looking South Photo No. 7 (CD) No.1	North side of the existing booster pump building, south of the existing eight carbon vessels, before construction activities start.
19TH Street Plant 1-Mar-04 Station No. Looking North Photo No. 8 (CD) No.1	Existing service yard in the treatment plant for the carbon vessels, before construction activities start.
19TH Street Plant 1-Mar-04 Station No. Looking West Photo No. 9 (CD) No.1	Existing Southern California Edison transformer located at the north end and west side in the treatment plant, before construction activities start.
19TH Street Plant 1-Mar-04 Station No. Looking South Photo No. 10 (CD) No.1	Started to clear the jobsite by removing the trees and large brush from the treatment plant expansion area on the north side.
19TH Street Plant 1-Mar-04 Station No. Looking Southwest Photo No. 11 (CD) No.1	Started removing the tree stumps from the west side on the new expansion area north of the existing treatment plant.
19TH Street Plant 1-Mar-04 Station No. Looking South Photo No. 12 (CD) No.1	Clearing the heavy brush away from the existing chainlink fence along the west property line in the expansion area.
19TH Street Plant 1-Mar-04 Station No. Looking South Photo No. 13 (CD) No.1	Grinding tree stumps in place with pulverizer in the treatment plant expansion area.
19TH Street Plant 3-Mar-04 Station No. Looking Northeast Photo No. 14 (CD) No.1	Removing the large tree roots and wood debris from the onsite soils in the treatment plant expansion area.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 3-Mar-04 Station No. Looking South Photo No. 15 (CD) No.1	Removed part of the existing block wall to have access from the existing treatment plant to the expansion area.
19TH Street Plant 3-Mar-04 Station No. Looking North Photo No. 16 (CD) No.1	Started to pot hole to locate the existing utilities in the existing treatment plant site.
19TH Street Plant 3-Mar-04 Station No. Looking South Photo No. 17 (CD) No.1	Continued to pot hole to locate the existing steel pipelines to the existing carbon vessels in the existing treatment plant service yard.
19TH Street Plant 3-Mar-04 Station No. Looking Southwest Photo No. 18 (CD) No.1	Started to place sand bags along the west side of the construction fence in the treatment plant expansion area.
Encanto Park Pump Station 4-Mar-04 Station No. Looking South Photo No. 19 (CD) No.1	Booster pump station location, before construction activities start.
19TH Street Plant 8-Mar-04 Station No. Looking North Photo No. 20 (CD) No.1	Unloading 30 inch DIP from flatbed trailer truck that was delivered to the jobsite.
19TH Street Plant 9-Mar-04 Station No. 5+00 Looking South Photo No. 21 (CD) No.1	Cutting the existing 30 inch steel water pipe line for the installation of the 30 inch DI tee tie-in to the existing effluent pipeline in the driveway area.
19TH Street Plant 9-Mar-04 Station No. 5+00 Looking North Photo No. 22 (CD) No.1	Continued to cut the existing 30 inch steel effluent pipeline for the installation of the 30 inch DI tee tie-in.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant  
9-Mar-04  
Station No. 5+00  
Looking South  
Photo No. 23 (CD) No.1

Pumping out the standing water from the bottom of the trench excavation for the 30 inch DI tee tie-in, in the driveway area.

19TH Street Plant  
9-Mar-04  
Station No. 5+02  
Looking West  
Photo No. 24 (CD) No.1

Started to set the 30 inch DI tee with valves into the excavation for tie-in to the existing effluent pipeline in the driveway area.

19TH Street Plant  
9-Mar-04  
Station No. 5+02  
Looking North  
Photo No. 25 (CD) No.1

Setting the 30 inch DI tee with valves in place for the tie-in to the existing 30 inch steel effluent pipeline in the driveway area.

19TH Street Plant  
9-Mar-04  
Station No. 5+00  
Looking South  
Photo No. 26 (CD) No.1

Bolting up the 30 inch steel weldable flanges to the existing 30 inch effluent steel pipeline in the driveway area.

19TH Street Plant  
9-Mar-04  
Station No. 5+01  
Looking South  
Photo No. 27 (CD) No.1

Welding the 30 inch steel flanges to the existing 30 inch steel effluent pipeline in the driveway area in the existing treatment plant.

19TH Street Plant  
9-Mar-04  
Station No.  
Looking North  
Photo No. 28 (CD) No.1

Started rough grading operation on the treatment plant expansion area cutting the subgrade for the new carbon vessel pads.

19TH Street Plant  
10-Mar-04  
Station No. 4+25  
Looking North  
Photo No. 29 (CD) No.1

Pulverizing the existing asphalt pavement for the new 30 inch DIP effluent pipeline in the existing treatment plant service yard.

Encanto Park Pump Station  
11-Mar-04  
Station No.  
Looking West  
Photo No. 30 (CD) No.1

Excavated trench for the four steel pump barrel installation for the booster pumps.

**PHOTO LOG - JOBSITE CONTINUED**

Encanto Park Pump Station  
11-Mar-04  
Station No.  
Looking Southeast  
Photo No. 31 (CD) No.1

The four steel concrete lined pump barrels onsite for installation into the excavation for the booster pumps.

19TH Street Plant  
11-Mar-04  
Station No. 4+64  
Looking Southeast  
Photo No. 32 (CD) No.1

Installed a 30 inch DI MJ 45 deg. Bend on the effluent pipeline in the existing treatment plant service yard.

19TH Street Plant  
11-Mar-04  
Station No. 4+25  
Looking Northwest  
Photo No. 33 (CD) No.1

Installed a 30 inch DI MJ 45 deg. Bend on the effluent pipeline in the existing treatment plant service yard.

19TH Street Plant  
11-Mar-04  
Station No. 3+75  
Looking North  
Photo No. 34 (CD) No.1

Continued using the pulverizer to grind the existing asphalt pavement for the 30 inch DIP effluent pipe trench in the treatment plant service yard.

19TH Street Plant  
12-Mar-04  
Station No. 3+90  
Looking South  
Photo No. 35 (CD) No.1

Excavating and installing the 30 inch DIP effluent pipeline in the trench bottom. Using box shoring due to the caving trench walls in the treatment plant service yard.

Encanto Park Pump Station  
12-Mar-04  
Station No.  
Looking East  
Photo No. 36 (CD) No.1

Set the steel concrete lined pump barrels in the excavation with crane truck.

Encanto Park Pump Station  
12-Mar-04  
Station No.  
Looking North  
Photo No. 37 (CD) No.1

Working on the alignment of the pump barrel flanges and the electric pump motor bolt holes.

19TH Street Plant  
15-Mar-04  
Station No. 3+28  
Looking East  
Photo No. 38 (CD) No.1

Installed two 30 inch DI MJ 45 deg. Bends on the effluent pipeline in the treatment plant service yard.

## PHOTO LOG - JOBSITE CONTINUED

Encanto Park Pump Station 15-Mar-04 Station No. Looking Northeast Photo No. 39 (CD) No.1	Pouring the concrete support pads under the 24 inch steel pump barrels in the excavation.
Encanto Park Pump Station 15-Mar-04 Station No. Looking East Photo No. 40 (CD) No.1	Continued to place concrete around each of the 24 inch steel pump barrels in the trench excavation.
Encanto Park Pump Station 15-Mar-04 Station No. Looking Northeast Photo No. 41 (CD) No.1	Had placed plywood covers on the top of the pump barrels and other construction materials to cover the top of the excavation.
19TH Street Plant 15-Mar-04 Station No. 3+15 Looking North Photo No. 42 (CD) No.1	Installed a 30 X 16 inch DI MJ tee with a 30 inch MJ butterfly valve and a 16 inch MJ butterfly valve on the effluent pipeline.
19TH Street Plant 16-Mar-04 Station No. 2+00 Looking South Photo No. 43 (CD) No.1	Contined to survey and stake the alignment of the effluent pipeline in the treatment plant expansion area.
19TH Street Plant 16-Mar-04 Station No. 3+07 Looking South Photo No. 44 (CD) No.1	Installed a 30 X 16 inch DI MJ tee with a 30 inch MJ butterfly valve and a 16 inch MJ butterfly valve on the effluent pipeline.
19TH Street Plant 17-Mar-04 Station No. 2+50 Looking North Photo No. 45 (CD) No.1	Installed a 30 X 24 inch DI MJ tee with a 24 inch butterfly valve on the effluent pipeline.
19TH Street Plant 17-Mar-04 Station No. 1+80 Looking Northeast Photo No. 46 (CD) No.1	Starting to install the 30 and 24 inch DIP and DI MJ fittings for the pressure sustaining valve assembly south half of vault area.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant  
17-Mar-04  
Station No. 1+81  
Looking East  
Photo No. 47 (CD) No.1

Installed the south half of the pressure sustaining valve assembly for the effluent pipeline.

19TH Street Plant  
17-Mar-04  
Station No. 1+57  
Looking North  
Photo No. 48 (CD) No.1

Installed the north half of the pressure sustaining valve assembly for the effluent pipeline.

19TH Street Plant  
18-Mar-04  
Station No. 1+36  
Looking South  
Photo No. 49 (CD) No.1

Installed a 30 inch DI MJ tee for the by-pass pipeline and the below grade pipeline assembly for the south half of the anti-siphon loop on the effluent pipeline.

19TH Street Plant  
18-Mar-04  
Station No. 1+04  
Looking South  
Photo No. 50 (CD) No.1

Installed two 30 inch DI MJ 45 deg. Bends for the effluent pipeline in the treatment plant expansion area.

19TH Street Plant  
18-Mar-04  
Station No. 0+93  
Looking North  
Photo No. 51 (CD) No.1

Installed a 30 X 24 inch DI MJ reducer and a 24 inch DI MJ tee for the effluent pipeline in the treatment plant expansion area.

19TH Street Plant  
22-Mar-04  
Station No. 1+24  
Looking Southwest  
Photo No. 52 (CD) No.1

Installing the 20 inch DI flanged riser spools for the anti-siphon loop for the effluent pipe line in the treatment plant expansion area.

19TH Street Plant  
22-Mar-04  
Station No. 0+16  
Looking North  
Photo No. 53 (CD) No.1

Installing a 24 inch DI MJ 90 deg. Bend for the effluent pipeline in the treatment plant expansion area.

19TH Street Plant  
22-Mar-04  
Station No. 0+16  
Looking North  
Photo No. 54 (CD) No.1

Leveling and working on the alignment on the 24 inch DI MJ 90 deg. Bend for the effluent pipeline.

**PHOTO LOG - JOBSITE CONTINUED**

19TH Street Plant  
23-Mar-04  
Station No. 4+82  
Looking South  
Photo No. 55 (CD) No.1

Excavated the end of the existing steel 27 inch storm drain line and the existing SCE transformer vault for the spent backwash line.

19TH Street Plant  
23-Mar-04  
Station No. 1+24  
Looking South  
Photo No. 56 (CD) No.1

Started to pour concrete for the support pad under the 20 inch below grade anti-siphon DI pipeline assembly.

19TH Street Plant  
23-Mar-04  
Station No. 1+24  
Looking West  
Photo No. 57 (CD) No.1

Continued to pour concrete for the support pad under the 20 inch DI below grade anti-siphon loop pipeline assembly.

19TH Street Plant  
23-Mar-04  
Station No. 0+10  
Looking Southeast  
Photo No. 58 (CD) No.1

Installed two 24 inch DI MJ 45 deg. Bends for the effluent lateral pipeline to cross under the 36 inch RCP spent backwash system.

19TH Street Plant  
23-Mar-04  
Station No. 0+15  
Looking Southwest  
Photo No. 59 (CD) No.1

Installing 24 inch DIP for the effluent pipeline to continue cross under the 36 inch RCP spent backwash system.

19TH Street Plant  
25-Mar-04  
Station No. 2+52  
Looking Northeast  
Photo No. 60 (CD) No.1

Installing the 36 inch RCP at manhole structure No.3 for the spent backwash system in the plant expansion area.

19TH Street Plant  
29-Mar-04  
Station No. 1+00  
Looking South  
Photo No. 61 (CD) No.1

Excavating and installing the 36 inch RCP spent backwash system pipeline along the front of the west carbon vessel pad.

19TH Street Plant  
29-Mar-04  
Station No. 0+75  
looking South  
Photo No. 62 (CD) No.1

Continued to excavate and install the 36 inch RCP spent backwash system pipeline along the front side of the west carbon vessel pad.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant  
31-Mar-04  
Station No. 2+41  
Looking East  
Photo No. 63 (CD) No.1

Building forms for the manhole structures located at the intersections on the 36 inch RCP spent backwash system pipeline in the treatment plant expansion area.

19TH Street Plant  
31-Mar-04  
Station No. 2+41  
Looking South  
photo No. 64 (CD) No.1

Constructing the wood forms for manhole structure No.2 on the 36 inch RCP spent backwash system pipeline.

Encanto Park Pump Station  
31-Mar-04  
Station No.  
Looking South  
Photo No. 65 (CD) No.1

Installing the 16 inch DIP and insulating kit between the steel pump barrels and the DIP suction header piping.

Encanto Park Pump Station  
31-Mar-04  
Station No.  
Looking South  
Photo No. 66 (CD) No.1

The insulating kit material used at the connection on the steel pump barrels flanges and the DIP suction header pipeline.

19TH Street Plant  
31-Mar-04  
Station No. 2+41  
Looking East  
Photo No. 67 (CD) No.1

Concrete ready mix placement in forms for the manhole structures for the 36 inch spent backwash pipeline system.

Encanto Park Pump Station  
1-Apr-04  
Station No.  
Looking West  
Photo No. 68 (CD) No.1

Installing 24 X 16 inch DI MJ tees and 16 inch butterfly valves as part of the DIP suction header pipeline assembly.

19TH Street Plant  
1-Apr-04  
Station No. 4+75  
Looking South  
Photo No. 69 (CD) No.1

Extending the existing 27 inch storm drain steel concrete covered, mortar lined pipeline past the Edison transformer vault.

19TH Street Plant  
1-Apr-04  
Station No. 4+68  
Looking West  
Photo No. 70 (CD) No.1

Welding flange on the 27 inch steel storm drain pipeline for the canal gate valve installation on the spent backwash system.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 1-Apr-04 Station No. 0+00 Looking South Photo No. 71 (CD) No.1	Set the wood forms on the 48 inch clean out manhole structures for concrete ready mix placement on the 36 inch RCP pipeline.
19TH Street Plant 2-Apr-04 Station No. 0+31 Looking South Photo No. 72 (CD) No.1	Installing a 24 inch DI MJ 45 deg. Bend on the rolled 24 inch DI MJ 90 deg. Bend for the west effluent pipeline lateral.
19TH Street Plant 2-Apr-04 Station No. 0+31 Looking East Photo No. 73 (CD) No.1	Continue to install the 24 inch effluent lateral pipeline for tie-in to the existing carbon filter vessel effluent pipeline in the existing plant.
Encanto Park Pump Station 2-Apr-04 Station No. Looking Northeast Photo No. 74 (CD) No.1	Excavated and installing the 24 inch DIP transmission pipeline tie-in to the 24 inch DIP suction header pipeline from the east side of the pump station.
Encanto Park Pump Station 2-Apr-04 Station No. Looking East Photo No. 75 (CD) No.1	Installing the 24 inch DIP suction header to route under the future pump station block wall using two 24 inch DI MJ 45 deg. Bends.
Encanto Park Pump Station 5-Apr-04 Station No. Looking South Photo No. 76 (CD) No.1	Installing 24 inch DIP with 24 X 24 X 6 inch DI MJ tee and 6 inch flange gate valve for fire hydrant and a 24 inch butterfly line valve.
Encanto Park Pump Station 5-Apr-04 Station No. Looking South Photo No. 77 (CD) No.1	Installed the 24 X 24 inch DI MJ tee for the transmission pipeline to tie-in to the booster pump discharge header.
Encanto Park Pump Station 5-Apr-04 Station No. Looking West Photo No. 78 (CD) No.1	Installing the 24 inch DIP tie-in pipeline from the transmission pipeline to the booster pump discharge header above ground.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant  
12-Apr-04  
Station No.  
Looking Northwest  
Photo No. 79 (CD) No.1

Fine grading the granular fill section on the east carbon filter vessel pad in the treatment plant expansion area.

Encanto Park Pump Station  
12-Apr-04  
Station No.  
Looking North  
Photo No. 80 (CD) No.1

Completing the 24 inch DIP tie-in to the existing 24 inch transmission feeder pipeline on the west side of the pump station.

19TH Street Plant  
13-Apr-04  
Station No. 5+65  
Looking North  
Photo No. 81 (CD) No.1

Started the pulverization on the asphalt pavement for the influent pipeline trench.

19TH Street Plant  
15-Apr-04  
Station No.  
Looking North  
Photo No. 82 (CD) No.1

Constructing the wood forms for the east carbon filter vessel concrete foundation slab and started the placement of the steel rebar.

Encanto Park Pump Station  
15-Apr-04  
Station No.  
Looking South  
Photo No. 83 (CD) No.1

Excavated and installed the steel rebar in the foundation area on the east masonry pump station wall.

Encanto Park Pump Station  
15-Apr-04  
Station No.  
Looking West  
Photo No. 84 (CD) No.1

Completed the installation of the steel reinforcement bars for the south masonry wall foundation area.

Encanto Park Pump Station  
16-Apr-04  
Station No.  
Looking North  
Photo No. 85 (CD) No.1

Completed the installation of the steel reinforcement bars for the west masonry wall foundation area.

Encanto Park Pump Station  
16-Apr-04  
Station No.  
Looking East  
Photo No. 86 (CD) No.1

Placement of concrete mix in the masonry wall foundation areas for the booster pump station.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 20-Apr-04 Station No. Looking South Photo No. 87 (CD) No.1	Started the placement of concrete mix in the foundation wood forms for the carbon filter vessel slab on the east side.
Encanto Park Pump Station 21-Apr-04 Station No. Looking South Photo No. 88 (CD) No.1	Started the set the first course of masonry slump block on the concrete footings for the pump station walls.
Encanto Park Pump Station 21-Apr-04 Station No. Looking Southeast Photo No. 89 (CD) No.1	Started constructing the corners of the first lift of masonry slump block for the pump station walls.
19TH Street Plant 21-Apr-04 Station No. 2+25 Looking North Photo No. 90 (CD) No.1	Installed a 30 X 24 inch DI MJ tee for the influent DIP lateral pipeline in the existing service plant area.
19TH Street Plant 21-Apr-04 Station No. 0+38 Looking East Photo No. 91 (CD) No.1	Excavating under the 30 inch DIP effluent pipeline to install the 24 inch DIP influent lateral pipeline in the existing service plant.
19TH Street Plant 21-Apr-04 Station No. 0+03 Looking West Photo No. 92 (CD) No.1	Installed the 24 inch DIP influent lateral from the rolled 30 X 24 inch DI MJ tee in the service yard plant area.
Encanto Park Pump Station 22-Apr-04 Station No. Looknig South Photo No. 93 (CD) No.1	Continuing to stack masonry slump block walls around the pump station.
Encanto Park Pump Station 22-Apr-04 Station No. Looking Northeast Photo No. 94 (CD) No.1	Grouting the first 4 foot lift on the masonry slump block walls filling in all the cells with concrete grout mix at the pump station.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant  
23-Apr-04  
Station No.  
Looking North  
Photo No. 95 (CD) No.1

Continuing to place concrete mix in the foundation wood forms for the carbon filter vessel slab on the east side.

19TH Street Plant  
23-Apr-04  
Station No. 0+53  
Looking Southeast  
Photo No. 96 (CD) No.1

Installed a 24 inch DI MJ 11.25 deg.bend on the influent lateral pipeline to place the lateral to design grade in the existing plant.

19TH Street Plant  
23-Apr-04  
Station No. 0+77  
Looking North  
Photo No. 97 (CD) No.1

Installed a 30 X 24 inch DI MJ tee on the influent DIP main pipeline in the treatment plant expansion area.

19TH Street Plant  
23-Apr-04  
Station No. 0+23  
Looking East  
Photo No. 98 (CD) No.1

Installing 24 inch DIP and a 24 inch DI MJ 90 deg. Bend for the influent pipeline to the east carbon filter vessel foundation slab.

19TH Street Plant  
28-Apr-04  
Station No. 0+03  
Looking North  
Photo No. 99 (CD) No.1

Installed 12 inch DIP with two 12 inch DI MJ 45 deg. Bends and one 12 inch MJ butterfly valve for the 12 inch by-pass pipeline system.

19TH Street Plant  
29-Apr-04  
Station No. 0+66  
Looking East  
Photo No. 100 (CD) No.1

Installing a 12 X 12 DI MJ tee on the back wash supply pipeline in the treatment plant expansion area.

19TH Street Plant  
30-Apr-04  
Station No.  
Looking South  
Photo No. 101 (CD) No.1

Concrete mix placement for the west carbon filter vessel foundation slab in the treatment plant expansion area.

19TH Street Plant  
3-May-04  
Station No. 2+90  
Looking North  
Photo No. 102 (CD) No.1

Installing the 24 inch DIP for the backwash supply pipeline in the existing plant service yard area.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant  
7-May-04  
Station No. 1+17  
Looking East  
Photo No. 103 (CD) No.1

Bolting in place the 30 inch by-pass spools between the 30 inch butterfly valves on the influent and effluent DIP.

19TH Street Plant  
11-May-04  
Station No. 1+50  
Looking East  
Photo No. 104 (CD) No.1

Excavated the 24 X 12 inch DI MJ tee on the 10 inch backflow preventer to place a concrete thrust block for support.

19TH Street Plant  
11-May-04  
Station No. 1+60  
Looking North  
Photo No. 105 (CD) No.1

Pouring the concrete mix in the thrust block excavation on the aboveground 10 inch backflow preventer assembly.

19TH Street Plant  
11-May-04  
Station No. 3+59  
Looking South  
Photo No. 106 (CD) No.1

Installing a 24 X 24 inch DI flange tee with 24 inch butterfly valve and 24 inch DI flange X MJ adapter and a 24 inch DI MJ coupling for the backwash supply pipeline tie-in.

19TH Street Plant  
11-May-04  
Station No.  
Looking North  
Photo No. 107 (CD) No.1

Boring operation for the woodcrete sound wall fence post foundations along the property line on the west side at the treatment plant expansion area.

19TH Street Plant  
12-May-04  
Station No. 3+17  
Looking East  
Photo No. 108 (CD) No.1

Installed two 24 inch DI MJ 45 deg. Bends and 24 inch DI MJ cap with a 2 inch blow off riser located on the backwash supply pipe line tie-in location.

19TH Street Plant  
14-May-04  
Station No. 0+00  
Looking Northeast  
Photo No. 109 (CD) No.1

Installing the aboveground 12 and 24 inch DIP for the carbon filter vessel header piping connection on the east foundation slab.

19TH Street Plant  
25-May-04  
Station No. 0+84  
Looking East  
Photo No. 110 (CD) No.2

Installed two 24 X 16 inch flange tees to connect to the existing 24 inch steel treated water pipelines in the plant service yard.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 25-May-04 Station No. 0+67 Looking South Photo No. 111 (CD) No.2	Installing the 16 inch DIP for the 16 inch flow control valve assemblies for the effluent pipeline system in the plant service yard.
19TH Street Plant 27-May-04 Station No. 6+43 Looking South Photo No. 112 (CD) No.2	Starting to assemble the 30 inch DI MJ 45 deg. Bend to the 30 inch DIP tie-in to the existing transmission pipeline.
19TH Street Plant 27-May-04 Station No. 6+40 Looking South Photo No. 113 (CD) No.2	Installing two 30 inch DI MJ 45 deg. Bends at driveway entrance on 19TH Street for the tie-in to the influent transmission pipeline.
19TH Street Plant 27-May-04 Station No. 6+42 Looking West Photo No. 114 (CD) No.2	Installed the two 30 inch DI MJ 45 deg. bends on the 30 inch influent pipeline at driveway entrance.
19TH Street Plant 28-May-04 Station No. 6+17 Looking North Photo No. 115 (CD) No.2	Installing two 30 inch DI MJ couplings to complete the tie-in on the influent pipeline to the existing transmission pipeline.
19TH Street Plant 1-Jun-04 Station No. 1+49 Looking East Photo No. 116 (CD) No.2	Installing 12 inch DIP and a 12 inch DI MJ 90 deg. Bend on the by-pass pipeline in the existing treatment plant.
19TH Street Plant 2-Jun-04 Station No. 3+10 Looking East Photo No. 117 (CD) No.2	Installing a 24 inch DI MJ coupling to the existing treated water pipeline to complete the tie-in on the backwash supply pipeline.
19TH Street Plant 3-Jun-04 Station No. 2+10 Looking North Photo No. 118 (CD) No.2	Welding on a 12 inch fabricated full wrap steel nozzle to the existing 12 inch steel raw water pipeline for the 12 inch by-pass pipeline.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 8-Jun-04 Station No. 0+50 Looking North Photo No. 119 (CD) No.2	Installing the east 16 inch DIP underground pipeline to the aboveground 16 inch flow control valve assembly for the effluent system
19TH Street Plant 8-Jun-04 Station No. 0+55 Looking North Photo No. 120 (CD) No.2	Continuing to install the west 16 inch DIP underground pipeline to the aboveground 16 inch flow control valve assembly for the effluent pipeline system in the service yard.
19TH Street Plant 9-Jun-04 Station No. 2+10 Looking West Photo No. 121 (CD) No.2	Installed a 24 inch flange butterfly valve and completed the tie-in with 24 inch DIP influent lateral to the existing steel influent pipeline.
19TH Street Plant 14-Jun-04 Station No. 6+00 Looking South Photo No. 122 (CD) No.2	Placing asphalt pavement base course in the influent DIP trench line at the entrance at 19TH Street.
19TH Street Plant 22-Jun-04 Station No. 4+60 Looking Southwest Photo No. 123 (CD) No.2	Pouring the concrete floor slab for manhole structure No.4 on the spent backwash system in the existing plant service yard.
Encanto Park Pump Station 22-Jun-04 Station No. Looking North Photo No. 124 (CD) No.2	Installing the underground 24 inch to 10 inch DIP surge relief vessel pipeline.
19TH Street Plant 23-Jun-04 Station No. Looking North Photo No. 125 (CD) No.2	Removed the existing blind flange from the existing steel pump barrel and cleaning the pump barrel flange in the booster pump room.
19TH Street Plant 23-Jun-04 Station No. Looking North Photo No. 126 (CD) No.2	Using a crane truck to lift the new booster pump off the flat bed truck and installing the debris screen at the bottom of the pump.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 23-Jun-04 Station No. Looking West Photo No. 127 (CD) No.2	Lifting the the new booster pump No.5 over the roof of the existing booster pump room.
19TH Street Plant 23-Jun-04 Station No. Looking West Photo No. 128 (CD) No.2	Started to lower the new booster pump No.5 through the existing roof hatch on the booster pump room.
19TH Street Plant 23-Jun-04 Station No. Looking North Photo No. 129 (CD) No.2	Started to set the new booster pump No.5 in the existing pump barrel located in the existing pump room.
19TH Street Plant 23-Jun-04 Station No. Looking North Photo No. 130 (CD) No.2	Starting to line up the bolt holes in both the booster pump flange and the steel pump barrel flange in the existing pump room.
19TH Street Plant 23-Jun-04 Station No. Looking West Photo No. 131 (CD) No.2	Setting the new electric pump motor on the new booster pump No.5 in the existing booster pump room.
19TH Street Plant 29-Jun-04 Station No. 1+17 Looking East Photo No. 132 (CD) No.2	Installed the bottom half of the by-pass concrete vault and reinstalling the 30 inch DI flange spools back in place.
19TH Street Plant 1-Jul-04 Station No. Looking Northwest Photo No. 133 (CD) No.2	Cutting 16 inch steel pipe for the 16 inch pressure sustaining valve and flowmeter located on the west side of the existing booster pump room.
19TH Street Plant 2-Jul-04 Station No. Looking South Photo No. 134 (CD) No.2	Welding on the steel flanges on the 16 inch steel pipe risers for the 16 inch pressure sustaining valve and flowmeter located on the west side of the existing booster pump room.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 2-Jul-04 Station No. Looking North Photo No. 135 (CD) No.2	Welding on the 16 inch steel flange nozzle to the existing 24 inch steel effluent pipe line for the 16 inch pressure sustaining valve and flowmeter located on the west side of the existing booster pump room.
Encanto Park Pump Station 2-Jul-04 Station No. Looking Southwest Photo No. 136 (CD) No.2	Installed a 3/4 inch irrigation lines and back flow preventer and a 1 inch saddle on the 24 inch DIP pump suction header pipeline.
19TH Street Plant 7-Jul-04 Station No. Looking West Photo No. 137 (CD) No.2	Constructing the tie-in to the existing 24 inch steel effluent pipeline for the 16 inch pressure sustaining valve and flowmeter on the west side of the existing booster pump room.
19TH Street Plant 7-Jul-04 Station No. Looking Southeast Photo No. 138 (CD) No.2	Installing a 24 inch flange butterfly valve on the existing on the steel effluent pipeline on the west side of the existing booster pump room.
19TH Street Plant 9-Jul-04 Station No. 1+71 Looking East Photo No. 139 (CD) No.2	Completed the grading on the rock base subgrade before setting the bottom half of the pressure sustaining valve vault for the effluent pipeline system in the plant expansion area.
19TH Street Plant 9-Jul-04 Station No. 1+71 Looking East Photo No. 140 (CD) No.2	Setting in place the bottom half of the pressure sustaining concrete valve vault for the effluent pipeline system.
19TH Street Plant 17-Aug-04 Station No. 1+41 Looking West Photo No. 141 (CD) No.3	Placing concrete mix into the wood forms for the catch basin base connection to the 36 inch RCP spent backwash pipeline system.
19TH Street Plant 17-Aug-04 Station No. 0+16 Looking Northwest Photo No. 142 (CD) No.3	Installing the 24 inch DIP aboveground tie-in to the carbon filter vessel 24 inch steel header piping at the west filter slab.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 17-Aug-04 Station No. 0+16 Looking North Photo No. 143 (CD) No.3	Bolting the 24 inch DI MJ 90 deg. Bend to the 24 inch vertical DIP for the tie-in to the carbon filter vessel 24 inch steel header pipe.
19TH Street Plant 17-Aug-04 Station No. Looking North Photo No. 144 (CD) No.3	Setting the woodcrete sound wall fence posts in the fence post foundation excavation along the west property line.
19TH Street Plant 17-Aug-04 Station No. Looking South Photo No. 145 (CD) No.3	Bolting the temporary support wood forms to the woodcrete sound wall fence posts before setting the post in the fence post excavation.
19TH Street Plant 17-Aug-04 Station No. Looking North Photo No. 146 (CD) No.3	Boring the foundation excavations for the woodcrete sound wall fence posts along the west property line in existing service yard.
19TH Street Plant 17-Aug-04 Station No. Looking North Photo No. 147 (CD) No.3	Finishing the concrete pour for the anti-siphon loop support slab in the treatment plant expansion area.
19TH Street Plant 17-Aug-04 Station No. 0+70 Looking South Photo No. 148 (CD) No.3	Reinforcing the wood forms on the catch basin base connections to the 36 inch RCP spent backwash pipeline.
19TH Street Plant 17-Aug-04 Station No. 0+57 Looking South Photo No. 149 (CD) No.3	Installing the aboveground 24 inch DIP tie-in to the 24 inch steel influent carbon filter vessel header piping.
19TH Street Plant 17-Aug-04 Station No. 0+00 Looking East Photo No. 150 (CD) No.3	Constructing both the inside and the outside wood forms for the catch basin concrete base connection to the 36 inch RCP.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant  
19-Aug-04  
Station No. 0+70  
Looking East  
Photo No. 151 (CD) No.3

Installed the pre-cast concrete catch basin tops the concrete base connections to the 36 inch RCP spent backwash pipeline.

19TH Street Plant  
20-Aug-04  
Station No.  
Looking North  
Photo No. 152 (CD) No.3

Concrete placement in the forms for the site lighting pole foundations along the west side in the treatment plant expansion area.

19TH Street Plant  
20-Aug-04  
Station No. 0+36  
Looking North  
Photo No. 153 (CD) No.3

Concrete placement in the wood forms for the pipe supports on the 16 inch DIP above ground pressure control valves and flowmeters.

19TH Street Plant  
20-Aug-04  
Station No.  
Looking North  
Photo No. 154 (CD) No.3

Concrete placement in the forms for the site lighting pole foundations along the east side in the treatment plant expansion area.

19TH Street Plant  
24-Aug-04  
Station No.  
Looking North  
Photo No. 155 (CD) No.3

Backfill operation on the electrical conduit trench for the site lighting in the treatment plant expansion area.

19TH Street Plant  
27-Aug-04  
Station No.  
Looking North  
Photo No. 156 (CD) No.3

Pumped concrete ready mix placement for woodcrete sound wall fence post foundations along the west property line.

19TH Street Plant  
27-Aug-04  
Station No.  
Looking South  
Photo No. 157 (CD) No.3

Concrete pumping operation for the fence post foundations on the woodcrete sound wall along the west the west property line.

19TH Street Plant  
27-Aug-04  
Station No.  
Looking South  
Photo No. 158 (CD) No.3

Continued the concrete placement on the woodcrete sound wall fence post foundations along the west the property line.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 27-Aug-04 Station No. Looking North Photo No. 159 (CD) No.3	Drilling into the concrete pipe support piers on the carbon filter vessel foundation slab west side for the pipe straps anchor bolts.
19TH Street Plant 27-Aug-04 Station No. Looking South Photo No. 160 (CD) No.3	Continued to drill into the concrete pipe support piers on the carbon filter vessel foundation slab for the pipe strap anchor bolts
19TH Street Plant 1-Sep-04 Station No. Looking Northwest Photo No. 161 (CD) No.3	Installing the woodcrete panels between the fence posts along the west property line in the existing plant service yard area.
Encanto Park Pump Station 1-Sep-04 Station No. Looking Southeast Photo No. 162 (CD) No.3	Installing the wrought iron fence and gates on the front side of the pump station.
Encanto Park Pump Station 1-Sep-04 Station No. Looking Southwest Photo No. 163 (CD) No.3	Continued to install the wrought iron fence and gates on the front side of the pump station.
19TH Street Plant 2-Sep-04 Station No. Looking North Photo No. 164 (CD) No.3	Excavating electrical conduit trench between the carbon filter vessels in the treatment plant expansion area.
19TH Street Plant 8-Sep-04 Station No. Looking Northeast Photo No. 165 (CD) No.3	Starting concrete pumping operation for the woodcrete sound wall fence post foundations along the south west property corner.
19TH Street Plant 8-Sep-04 Station No. Looking South Photo No. 166 (CD) No.3	Placing pumped concrete mix in the fence post foundations for the woodcrete wall along the south west property corner.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 8-Sep-04 Station No. Looking West Photo No. 167 (CD) No.3	Continued to place the pumped concrete mix in the fence post foundation excavations for the woodcrete sound wall.
Encanto Park Pump Station 9-Sep-04 Station No. Looking West Photo No. 168 (CD) No.3	Starting to unload the booster pumps and electric pump motors off the flatbed truck.
Encanto Park Pump Station 9-Sep-04 Station No. Looking Southwest Photo No. 169 (CD) No.3	Installed the booster pumps and installing the electric pump motors.
19TH Street Plant 9-Sep-04 Station No. Looking West Photo No. 170 (CD) No.3	Setting the woodcrete panels between the sound wall fence posts along the south west property corner.
19TH Street Plant 9-Sep-04 Station No. Looking North Photo No. 171 (CD) No.3	Grouting around the 30 inch effluent DIP at both the north and south end of the chlorine injection and metering concrete vault.
19TH Street Plant 10-Sep-04 Station No. Looking North Photo No. 172 (CD) No.3	Installing the electrical conduit in the bottom of trenches between the carbon filter vessels in the treatment plant expansion area.
19TH Street Plant 10-Sep-04 Station No. Looking West Photo No. 173 (CD) No.3	Continue to install the electrical conduit in the bottom of trenches between the carbon filter vessels in the treatment plant expansion area
19TH Street Plant 10-Sep-04 Station No. Looking South Photo No. 174 (CD) No.3	Installing the conduits in and out of the electrical pull box located between the carbon filter vessels in the treatment plant expansion area.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 13-Sep-04 Station No. Looking East Photo No. 175 (CD) No.3	Installing the electrical conduits in the bottom trench for site lighting power control and transformer concrete slab.
19TH Street Plant 13-Sep-04 Station No. Looking West Photo No. 176 (CD) No.3	Installing the electrical conduits in the bottom of trench to the site lighting control and power transformer control concrete slab.
19TH Street Plant 13-Sep-04 Station No. Looking East Photo No. 177 (CD) No.3	Surveyors staking the property line for the installation of the woodcrete sound wall along the east side of the existing plant.
19TH Street Plant 13-Sep-04 Station No. Looking South Photo No. 178 (CD) No.3	Continuing to remove the existing woodlink fence along the east side of the existing treatment plant at southeast corner.
19TH Street Plant 14-Sep-04 Station No. Looking Northeast Photo No. 179 (CD) No.3	Continuing to remove the existing woodlink fence along the east side of the existing treatment plant.
19TH Street Plant 14-Sep-04 Station No. Looking Southeast Photo No. 180 (CD) No.3	Continuing to remove the existing woodlink fence along the east side of the existing treatment plant driveway.
19TH Street Plant 14-Sep-04 Station No. Looking South Photo No. 181 (CD) No.3	Excavating the electrical trench from the plant expansion into the existing service yard.
19TH Street Plant 15-Sep-04 Station No. Looking East Photo No. 182 (CD) No.3	Backfill operation around the chlorine injection and metering concrete vault in the existing service yard area.

**PHOTO LOG - JOBSITE CONTINUED**

19TH Street Plant 16-Sep-04 Station No. Looking North Photo No. 183 (CD) No.3	Cutting the existing asphalt pavement in the service yard area for the electrical trench connection to the existing booster pump room
19TH Street Plant 20-Sep-04 Station No. Looking North Photo No. 184 (CD) No.3	Installing electrical conduits in the bottom of trench in the existing service yard area from the treatment plant expansion area.
19TH Street Plant 20-Sep-04 Station No. Looking North Photo No. 185 (CD) No.3	Continuing to backfill and compact the electrical trench in the existing service yard.
Encanto Park Pump Station 23-Sep-04 Station No. Looking South Photo No. 186 (CD) No.3	Starting to install the 24 inch steel discharge aboveground header pipe for the booster pumps.
19TH Street Plant 24-Sep-04 Station No. Looking Southwest Photo No. 187 (CD) No.3	Southern California Edison relocating the grounding system for the power pole on the west property line to continue constructing the woodcrete sound wall.
19TH Street Plant 24-Sep-04 Station No. Looking Northeast Photo No. 188 (CD) No.3	New ground rod installed and wood on the grounding cable on the power pole located on the west property line.
19TH Street Plant 24-Sep-04 Station No. Looking Southwest Photo No. 189 (CD) No.3	Installing electrical conduit in the bottom of trench to the existing booster pump station.
19TH Street Plant 24-Sep-04 Station No. Looking East Photo No. 190 (CD) No.3	Installed the electrical conduits in the bottom of trench along the north wall of the existing booster pump station.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 24-Sep-04 Station No. Looking North Photo No. 191 (CD) No.3	Continuing to remove the existing woodlink fence from the east property line in the existing plant service yard.
19TH Street Plant 27-Sep-04 Station No. Looking Southeast Photo No. 192 (CD) No.3	Starting to remove the existing block wall on the east property line in the existing plant service yard.
19TH Street Plant 28-Sep-04 Station No. Looking Northeast Photo No. 193 (CD) No.3	Continuing to remove the existing block wall on the east property line in the existing plant service yard.
19TH Street Plant 28-Sep-04 Station No. Looking South Photo No. 194 (CD) No.3	Completed the removal of the existing block wall on the east property line in the existing plant service yard.
19TH Street Plant 28-Sep-04 Station No. Looking South Photo No. 195 (CD) No.3	Installing electrical conduit in the bottom of trench between the existing carbon filters and the 16 inch pressure control valve.
Encanto Park Pump Station 28-Sep-04 Station No. Looking Southwest Photo No. 196 (CD) No.3	Starting to install the 12 inch steel booster pump discharge piping and flowmeters.
19TH Street Plant 29-Sep-04 Station No. 1+69 Looking East Photo No. 197 (CD) No.3	SBMWD installed and tie-in an 24 inch DIP pipeline to the 24 X 12 inch DI MJ tee on the backwash supply pipeline.
19TH Street Plant 29-Sep-04 Station No. 1+70 Looking North Photo No. 198 (CD) No.3	SBMWD installed and tie-in an 24 inch DIP pipeline to the backwash supply pipeline in the existing plant service yard.

## PHOTO LOG - JOBSITE CONTINUED

Encanto Park Pump Station  
29-Sep-04  
Station No.  
Looking South  
Photo No. 199 (CD) No.3

Continuing to install the 12 inch steel booster pump discharge piping and flowmeters.

Encanto Park Pump Station  
29-Sep-04  
Station No.  
Looking Southeast  
Photo No. 200 (CD) No.3

Welding the 12 inch flanges to the 12 inch steel booster pump discharge piping and the flowmeters.

Encanto Park Pump Station  
29-Sep-04  
Station No.  
Looking North  
Photo No. 201 (CD) No.3

Continuing to weld the 12 inch steel flanges to the 12 inch steel booster pump discharge piping and the flowmeters.

19TH Street Plant  
1-Oct-04  
Station No.  
Looking Southwest  
Photo No. 202 (CD) No.3

Installing the tie-in connections to the underground electrical conduits to the above ground conduits on the carbon filter vessels.

19TH Street Plant  
4-Oct-04  
Station No.  
Looking West  
Photo No. 203 (CD) No.3

Starting to install the acoustical sound treatment panels inside the existing booster pump room on the west wall.

19TH Street Plant  
4-Oct-04  
Station No.  
Looking South  
Photo No. 204 (CD) No.3

Continuing to install the acoustical sound treatment panels inside the existing booster pump room on the south wall.

19TH Street Plant  
4-Oct-04  
Station No.  
Looking North  
Photo No. 205 (CD) No.3

Installed the carbon filter vessel site lighting poles and lamps on the concrete foundations.

19TH Street Plant  
4-Oct-04  
Station No.  
Looking South  
Photo No. 206 (CD) No.3

Completed setting the woodcrete sound wall fence posts along the east property line.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 5-Oct-04 Station No. Looking East Photo No. 207 (CD) No.3	Boring the woodcrete sound wall fence post foundations on the southeast property corner.
Encanto Park Pump Station 6-Oct-04 Station No. Looking North Photo No. 208 (CD) No.3	Excavating pot holes to locate the existing utilities for the location on the Southern California Edison concrete spice box vault.
Encanto Park Pump Station 7-Oct-04 Station No. Looking Northeast Photo No. 209 (CD) No.3	Starting to rig the MCC cabinets to remove from flatbed trailer and set on the equipment pad.
Encanto Park Pump Station 7-Oct-04 Station No. Looking East Photo No. 210 (CD) No.3	Setting the MCC cabinets in place on the concrete equipment pad.
19TH Street Plant 11-Oct-04 Station No. Looking West Photo No. 211 (CD) No.4	Installing the woodcrete panels between the sound wall fence posts along the east side in the existing treatment plant service yard.
19TH Street Plant 12-Oct-04 Station No. Looking North Photo No. 212 (CD) No.4	Started to remove the existing block wall along the south property line in the treatment plant expansion area.
19TH Street Plant 12-Oct-04 Station No. Looking East Photo No. 213 (CD) No.4	Continued to remove the existing block wall along the south property line between the treatment plant expansion area and the back yards from the homes on 20TH Street.
Encanto Park Pump Station 13-Oct-04 Station No. Looking South Photo No. 214 (CD) No.4	Installing the Edison electrical conduit in the bottom of trench from the pump station to the spice box vault location near the YMCA building on 9TH Street.

## PHOTO LOG - JOBSITE CONTINUED

Encanto Park Pump Station  
13-Oct-04  
Station No.  
Looking South  
Photo No. 215 (CD) No.4

Continued to excavate the Edison electrical conduit trench under the pump station wall footing at the northeast corner.

Encanto Park Pump Station  
13-Oct-04  
Station No.  
Looking South  
Photo No. 216 (CD) No.4

Starting to backfill and compact the Edison electrical conduit trench located in the parking lot of the Boys and Girls club.

Encanto Park Pump Station  
15-Oct-04  
Station No.  
Looking Northwest  
Photo No. 217 (CD) No.4

Installing back a new concrete sidewalk over the Edison electrical conduit trench located on the west entrance to the Boys and Girls Club building.

19TH Street Plant  
18-Oct-04  
Station No. 3+50  
Looking South  
Photo No. 218 (CD) No.4

Excavated and installing the 2 inch PVC SCH. 80 chlorine solution pipeline in the existing plant service yard.

19TH Street Plant  
18-Oct-04  
Station No. 2+84  
Looking North  
Photo No. 219 (CD) No.4

Boring the side of the chlorine injection concrete vault to install the 2 inch chlorine solution pipeline.

19TH Street Plant  
18-Oct-04  
Station No. 4+49  
Looking South  
Photo No. 220 (CD) No.4

Continued to install the 2 inch PVC SCH 80 chlorine solution pipeline into the existing booster pump room from the service yard.

Encanto Park Pump Station  
21-Oct-04  
Station No.  
Looking North  
Photo No. 221 (CD) No.4

Cutting the 24 inch DIP to install the flex couplings and the meter and sample concrete vault.

19TH Street Plant  
21-Oct-04  
Station No.  
Looking West  
Photo No. 222 (CD) No.4

Installing the PVC SCH 80 piping to the new chlorine booster pump located in the chlorine control room on the west side of the existing booster pump room.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 21-Oct-04 Station No. Looking Southwest Photo No. 223 (CD) No.4	Installed chlorine injection equipment on the existing south wall in the chlorine control room.
19TH Street Plant 26-Oct-04 Station No. Looking East Photo No. 224 (CD) No.4	Connected the new chlorine booster pump to the existing water feed pipeline in the chlorine control room.
19TH Street Plant 26-Oct-04 Station No. Looking Southwest Photo No. 225 (CD) No.4	Connected the 2 inch PVC SCH 80 chlorine solution pipeline to the chlorine gas injection equipment in the chlorine control room.
19TH Street Plant 26-Oct-04 Station No. Looking Southwest Photo No. 226 (CD) No.4	Completed the pipeline installation to the chlorine gas injection equipment on the south wall in the chlorine control room.
Encanto Park Pump Station 26-Oct-04 Station No. Looking South Photo No. 227 (CD) No.4	Installing the aboveground electrical wiring to the new booster pump motor No.1.
Encanto Park Pump Station 26-Oct-04 Station No. Looking East Photo No. 228 (CD) No.4	Installing the aboveground electrical wiring on the booster pump MCC equipment located on the east side of the pump station.
19TH Street Plant 27-Oct-04 Station No. Looking North Photo No. 229 (CD) No.4	Wet conditions on the jobsite from the rain fall during the night.
19TH Street Plant 27-Oct-04 Station No. Looking Southwest Photo No. 230 (CD) No.4	Continuing to install the acoustical treatment on the west side in the booster pump room above the existing electrical equipment.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant  
28-Oct-04  
Station No.  
Looking West  
Photo No. 231 (CD) No.4

Coring the north wall on the existing booster pump room for the underground electrical conduits to penetrate the masonry block wall.

19TH Street Plant  
28-Oct-04  
Station No.  
Looking Northwest  
Photo No. 232 (CD) No.4

Continued to install the acoustical treatment on the west side in the booster pump room above the existing electrical equipment.

Encanto Park Pump Station  
28-Oct-04  
Station No.  
Looking South  
Photo No. 233 (CD) No.4

Installed the sample port saddles and valves on the 24 inch DIP south half in the concrete meter and sample vault.

Encanto Park Pump Station  
28-Oct-04  
Station No.  
Looking South  
Photo No. 234 (CD) No.4

Excavated and installing the electrical conduit from the booster pump station to the meter and sample concrete vault.

19TH Street Plant  
1-Nov-04  
Station No.  
Looking Southwest  
Photo No. 235 (CD) No.4

Starting to install the 12 inch steel discharge pipeline on booster pump No.5 in the existing booster pump room.

19TH Street Plant  
3-Nov-04  
Station No.  
Looking North  
Photo No. 236 (CD) No.4

Starting to install the 1 inch gate valves on top of the carbon vessels between the steel vessel and the 1 inch air release valves.

19TH Street Plant  
3-Nov-04  
Station No.  
Looking Northwest  
Photo No. 237 (CD) No.4

Adjusting the height on the 1 inch drain pipe line from the 1 inch air/vac release valves on top of the carbon filter vessels.

19TH Street Plant  
4-Nov-04  
Station No.  
Looking Northwest  
Photo No. 238 (CD) No.4

Installing the 1 inch gate valves on top of the carbon filter vessels between the steel vessel and the 1 inch air release valves.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 4-Nov-04 Station No. Looking Northwest Photo No. 239 (CD) No.4	Installing the 1 inch air/vac release valve on the 1 inch gate valve on top of the carbon vessel.
Encanto Park Pump Station 5-Nov-04 Station No. Looking South Photo No. 240 (CD) No.4	Cutting the roof decking for placement between the existing handball court and the south masonry block wall back side.
Encanto Park Pump Park 5-Nov-04 Station No. Looking East Photo No. 241 (CD) No.4	Installing the roof decking support braces on the back side of the masonry block wall between the existing handball court.
19TH Street Plant 5-Nov-04 Station No. Looking West Photo No. 242 (CD) No.4	Completing the electrical wiring to the MCC panel for booster pump No.5 in the existing booster pump room.
19TH Street Plant 5-Nov-04 Station No. Looking North Photo No. 243 (CD) No.4	Completed the installation of the electrical conduits inside the existing booster pump room.
19TH Street Plant 5-Nov-04 Station No. Looking North Photo No. 244 (CD) No.4	Completed the installation of the electrical conduits on the north wall inside the existing booster pump room.
19TH Street Plant 8-Nov-04 Station No. 0+00 Looking South Photo No. 245 (CD) No.4	Placing concrete mix in the wood forms for steel pipe support pads on the carbon filter vessel spent backwash system.
19TH Street Plant 8-Nov-04 Station No. 1+40 Looking North Photo No. 246 (CD) No.4	Continuing to place concrete mix in the wood forms for the steel pipe support footings on the filter vessels spent backwaash system.

## PHOTO LOG - JOBSITE CONTINUED

Encanto Park Pump Station  
8-Nov-04  
Station No.  
Looking East  
Photo No. 247 (CD) No.4

Completed the installation on the roof deck between the existing handball court and the back side of the south masonry block wall.

Encanto Park Pump Station  
8-Nov-04  
Station No.  
Looking West  
Photo No. 248 (CD) No.4

Roof deck in place between the existing handball court and the back side of the south masonry block pump station wall.

Encanto Park Pump Station  
9-Nov-04  
Station No.  
Looking Southeast  
Photo No. 249 (CD) No.4

Completed the grouting on the surge tank steel legs and finishing the surface on the surge tank concrete foundation piers.

Encanto Park Pump Station  
9-Nov-04  
Station No.  
Looking North  
Photo No. 250 (CD) No.4

Installing the piping and valve assembly for the surge tank controls between the surge tank and the air compressor.

Encanto Park Pump Station  
9-Nov-04  
Station No.  
Looking East  
Photo No. 251 (CD) No.4

Continuing to install the piping and valve assembly for the surge tank controls on the pump station east masonry block wall.

Encanto Park Pump Station  
9-Nov-04  
Station No.  
Looking North  
Photo No. 252 (CD) No.4

Continuing to install the piping and valve assembly for the surge tank controls on the pump station east block wall.

Encanto Park Pump Station  
9-Nov-04  
Station No.  
Looking South  
Photo No. 253 (CD) No.4

Removing the existing picnic area concrete slab and hauling debris offsite with backhoe.

Encanto Park Pump Station  
10-Nov-04  
Station No.  
Looking North  
Photo No. 254 (CD) No.4

Fine grading the subgrade elevation for the new picnic enclosure area concrete slab.

## PHOTO LOG - JOBSITE CONTINUED

Encanto Park Pump Station 10-Nov-04 Station No. Looking North Photo No. 255 (CD) No.4	Setting the wood forms for the new concrete slab on grade at the picnic enclosure area.
Encanto Park Pump Station 10-Nov-04 Station No. Looking East Photo No. 256 (CD) No.4	Setting the anchor bolts in the hand dug column footing areas for the steel columns at the picnic enclosure area.
Encanto Park Pump Station 11-Nov-04 Station No. Looking West Photo No. 257 (CD) No.4	Finishing the concrete mix placed in the slab on grade and footing forms for the picnic enclosure area.
Encanto Park Pump Station 11-Nov-04 Station No. Looking West Photo No. 258 (CD) No.4	Sawcutting the existing asphalt pavement around the outside of the pump station block walls.
Encanto Park Pump Station 11-Nov-04 Station No. Looking West Photo No. 259 (CD) No.4	Cutting in the construction joints in the new picnic enclosure concrete slab.
Encanto Park Pump Station 11-Nov-04 Station No. Looking West Photo No. 260 (CD) No.4	Placing the base material on the subgrade soils around the outside the pump station for the pavement replacement section.
Encanto Park Pump Station 11-Nov-04 Station No. Looking North Photo No. 261 (CD) No.4	Repairing the existing landscape irrigation boxes on the southeast outside corner of pump station.
Encanto Park Pump Station 11-Nov-04 Station No. Looking North Photo No. 262 (CD) No.4	Fine grading the base material around the outside of the pump station repavement section.

## PHOTO LOG - JOBSITE CONTINUED

Encanto Park Pump Station 11-Nov-04 Station No. Looking South Photo No. 263 (CD) No.4	Continued to fine grade the base material on the east side of the pump station.
Encanto Park Pump Station 12-Nov-04 Station No. Looking Northwest Photo No. 264 (CD) No.4	Placing the asphalt tack oil on the east side pump station foundation block wall for the placement of the asphalt paving.
Encanto Park Pump Station 12-Nov-04 Station No. Looking North Photo No. 265 (CD) No.4	Spraying tack oil on all the edges on the existing asphalt pavement around the pump station.
Encanto Park Pump Station 12-Nov-04 Station No. Looking East Photo No. 266 (CD) No.4	Started to spread the new hot asphalt mix in the pavement section around the outside the pump station.
Encanto Park Pump Station 12-Nov-04 Station No. Looking South Photo No. 267 (CD) No.4	Spreading the new asphalt pavement on the east side of the pump station.
Encanto Park Pump Station 15-Nov-04 Station No. Looking North Photo No. 268 (CD) No.5	Continued to fine grade the road base material on the west side of the pump station.
Encanto Park Pump Station 15-Nov-04 Station No. Looking North Photo No. 269 (CD) No.5	Continuing to spread the new asphalt pavement on the west side of the pump station.
Encanto Park Pump Station 15-Nov-04 Station No. Looking Northeast Photo No. 270 (CD) No.5	Compacting the new asphalt pavement in place with a vibratory roller around the out side of the pump station.

## PHOTO LOG - JOBSITE CONTINUED

Encanto Park Pump Station 16-Nov-04 Station No. Looking North Photo No. 271 (CD) No.5	Installing the steel frame for the picnic enclosure on the concrete slab.
Encanto Park Pump Station 16-Nov-04 Station No. Looking North Photo No. 272 (CD) No.5	Continuing to install the steel frame and the roof framing for the picnic enclosure.
19TH Street Plant 16-Nov-04 Station No. Looking West Photo No. 273 (CD) No.5	Starting to weld on the 3 inch steel flange nozzle to the 12 inch steel backwash supply east filter vessel header piping and installed a 3 inch flange gate valve.
19TH Street Plant 16-Nov-04 Station No. Looking Southeast Photo No. 274 (CD) No.5	Continuing to weld on the 3 inch steel flange nozzle to the 12 inch steel backwash supply west filter vessel header piping.
19TH Street Plant 16-Nov-04 Station No. Looking East Photo No. 275 (CD) No.5	Completing the welding operation on the 3 inch steel flange nozzle to the 12 inch steel back wash supply west filter vessel header piping.
Encanto Park Pump Station 16-Nov-04 Station No. Looking East Photo No. 276 (CD) No.5	Continuing to install the electrical wiring on the MCC panels and for the air compressor control panel.
Encanto Park Pump Station 16-Nov-04 Station No. Looking Northwest Photo No. 277 (CD) No.5	Completed installing the steel frame and starting to install the roofing assembly for the picnic enclosure.
Encanto Park Pump Station 16-Nov-04 Station No. Looking East Photo No. 278 (CD) No.5	Installing the roofing materials on the steel frame picnic enclosure.

~~PHOTO LOG - JOBSITE CONTINUED~~

Encanto Park Pump Station

16-Nov-04

Station No.

Looking South

Photo No. 279 (CD) No.5

Setting the site lighting pole using a crane truck inside the pump station.

19TH Street Plant

18-Nov-04

Station No.

Looking South

Photo No. 280 (CD) No.5

Continuing to tie-in the underground electrical conduits into the outside pull box located on the existing booster pump room block wall.

19TH Street Plant

18-Nov-04

Station No.

Looking West

Photo No. 281 (CD) No.5

Installing the 2 inch galvanized piping for the filter vessel washdown, air release backwash and truck fill connections on the east row.

19TH Street Plant

18-Nov-04

Station No.

Looking South

Photo No. 282 (CD) No.5

Continuing to install the 3 inch galvanized washdown header piping on the east filter vessel row.

19TH Street Plant

18-Nov-04

Station No.

Looking East

Photo No. 283 (CD) No.5

Threading the 2 inch galvanized pipe for the air/vac release valve backwash system on the filter vessels.

19TH Street Plant

18-Nov-04

Station No.

Looking East

Photo No. 284 (CD) No.5

Completing the underground electrical conduit tie-in to the outside pull box located on the north booster pump room block wall.

19TH Street Plant

19-Nov-04

Station No.

Looking East

Photo No. 285 (CD) No.5

Repaired the residential masonry block walls along the treatment plant expansion area south property line.

19TH Street Plant

19-Nov-04

Station No.

Looking North

Photo No. 286 (CD) No.5

Repairing the existing residential front block wall with matching masonry block along the existing plant east property line at 20TH St.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 19-Nov-04 Station No. Looking Northwest Photo No. 287 (CD) No.5	Completed the repair on the existing front residential block wall along the existing plant east property line and the end of 20TH Street.
19TH Street Plant 19-Nov-04 Station No. Looking North Photo No. 288 (CD) No.5	Continuing to install the galvanized piping on the filter vessels for the washdown and truck fill connections.
19TH Street Plant 19-Nov-04 Station No. Looking Northeast Photo No. 289 (CD) No.5	Installing the 1 inch galvanized piping from the 1 inch air/vac release valve to tie-in to the washdown supply piping on the filter vessels.
Encanto Park Pump Station 19-Nov-04 Station No. Looking South Photo No. 290 (CD) No.5	Installing and compacting the slag material in place around the concrete equipment and housekeeping slabs.
Encanto Park Pump Station 20-Nov-04 Station No. Looking Southwest Photo No. 291 (CD) No.5	Installing new masonry slump block around the picnic enclosure steel columns.
Encanto Park Pump Station 20-Nov-04 Station No. Looking Northwest Photo No. 292 (CD) No.5	Pouring grout inside the masonry block and around the picnic enclosure steel columns by hand using small buckets.
Encanto Park Pump Station 20-Nov-04 Station No. Looking North Photo No. 293 (CD) No.5	Completed the placement of the masonry slump block around the picnic enclosure steel columns.
19TH Street Plant 22-Nov-04 Station No. Looking Northwest Photo No. 294 (CD) No.5	Installing the site lighting pole on the west side of the treatment plant expansion area.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 22-Nov-04 Station No. Looking North Photo No. 295 (CD) No.5	Continued to install the 3 inch galvanized washdown header piping along the backside of the filter vessels on the east and west row.
Encanto Park Pump Station 24-Nov-04 Station No. Looking West Photo No. 296 (CD) No.5	Started placement of concrete mix in the ADA sidewalk forms for the picnic enclosure area.
Encanto Park Pump Station 24-Nov-04 Station No. Looking North Photo No. 297 (CD) No.5	Continued to place concrete mix in the sidewalk forms for wheel chair access to the picnic enclosure area.
19TH Street Plant 30-Nov-04 Station No. Looking East Photo No. 298 (CD) No.5	Completing the installation on the galvanized piping for the filter vessel washdown, air/vac release valves and the truck fill connections.
Encanto Park Pump Station 1-Dec-04 Station No. Looking West Photo No. 299 (CD) No.5	Repairing the existing landscape irrigation system around the picnic enclosure area.
Encanto Park Pump Station 2-Dec-04 Station No. Looking Southwest Photo No. 300 (CD) No.5	Started to paint the aboveground steel piping using an primer coat first.
19Th Street Plant 8-Dec-04 Station No. Looking North Photo No. 301 (CD) No.5	Using crane truck to set the site lighting on the west side of the treatment plant expansion area completing the site lighting installation.
19TH Street Plant 9-Dec-04 Station No. Looking South Photo No. 302 (CD) No.5	Grading the treatment plant expansion area cutting the driveway subgrade for the design pavement section.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 10-Dec-04 Station No. 2+84 Looking Southwest Photo No. 303 (CD) No.6	Installed the Chlorine injector into the 30 inch effluent DIP located in the concrete chlorine injection and metering vault.
19TH Street Plant 10-Dec-04 Station No. Looking North Photo No. 304 (CD) No.6	Continuing to grade and compact the driveway subgrade for the asphalt pavement section in the treatment plant expansion area.
19TH Street Plant 10-Dec-04 Station No. Looking Southeast Photo No. 305 (CD) No.6	Continuing to cut the driveway subgrade in the treatment plant expansion area.
19TH Street Plant 13-Dec-04 Station No. Looking South Photo No. 306 (CD) No.6	Starting to spread the base material on the subgrade between the filter vessels slabs in treatment plant expansion area.
19TH Street Plant 14-Dec-04 Station No. 1+50 Looking East Photo No. 307 (CD) No.6	Spraying the primer coat on the 16 inch aboveground DIP pressure sustaining valve and metering piping.
19TH Street Plant 14-Dec-04 Station No. Looking Northeast Photo No. 308 (CD) No.6	Continuing to install the aboveground electrical conduits to the filter vessels.
19TH Street Plant 14-Dec-04 Station No. Looking Northwest Photo No. 309 (CD) No.6	Welding on the 1 inch nozzles for the air/vac release valves to be installed on the 8 inch steel influent piping to the filter vessels.
19TH Street Plant 14-Dec-04 Station No. 1+50 Looking Southeast Photo No. 310 (CD) No.6	Continuing to spray the paint primer coat on the 16 inch aboveground pressure sustaining valves and DIP.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 14-Dec-04 Station No. Looking South Photo No. 311 (CD) No.6	Spraying the primer coat on the 16 inch aboveground steel pipe and pressure sustaining control valve.
19TH Street Plant 15-Dec-04 Station No. Looking South Photo No. 312 (CD) No.6	Fine grading the base material in the driveway pavement section between the filter vessel concrete slabs.
Encanto Park Pump Station 15-Dec-04 Station No. Looking South Photo No. 313 (CD) No.6	Inspection meeting with the U.S. EPA and SBMWD, E2, URS and EI-Co Contractors.
Encanto Park Pump Station 15-Dec-04 Station No. Looking East Photo No. 314 (CD) No.6	SBMWD inspecting the electrical metering cabinet during the inspection meeting.
Encanto Park Pump Station 15-Dec-04 Station No. Looking Northeast Photo No. 315 (CD) No.6	Continuing the observations during the inspection meeting inside the pump station.
19TH Street Plant 20-Dec-04 Station No. Looking North Photo No. 316 (CD) No.6	Started to trench for the landscape irrigation PVC piping system along the west side in the treatment plant expansion area.
19TH Street Plant 20-Dec-04 Station No. Looking North Photo No. 317 (CD) No.6	Started spraying the weed killer on the base material in the treatment plant expansion area driveway before asphalt paving operation.
19TH Street Plant 20-Dec-04 Station No. Looking West Photo No. 318 (CD) No.6	Continuing to spray the weed killer on the base material between the filter vessel slabs in the treatment plant expansion area.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 21-Dec-04 Station No. Looking Northeast Photo No. 319 (CD) No.6	Placing the hot asphalt pavement mix on the base material in the driveway located in the treatment plant expansion area.
19TH Street Plant 21-Dec-04 Station No. Looking Northwest Photo No. 320 (CD) No.6	Continuing the placement of the hot asphalt pavement mix on the base material in the driveway area.
19TH Street Plant 21-Dec-04 Station No. Looking North Photo No. 321 (CD) No.6	Continuing to install the landscape irrigation PVC piping and control valves on the west side in the existing treatment plant.
19TH Street Plant 21-Dec-04 Station No. Looking West Photo No. 322 (CD) No.6	Assembling the landscape irrigation bubblers for the onsite trees and the fence perimeter plants.
19TH Street Plant 21-Dec-04 Station No. Looking South Photo No. 323 (CD) No.6	Continuing the placement of the hot asphalt pavement mix on the base material in the treatment plant expansion area.
19TH Street Plant 21-Dec-04 Station No. Looking South Photo No. 324 (CD) No.6	Continuing the placement of the hot asphalt pavement mix grading by hand between the filter vessel concrete slab.
19TH Street Plant 21-Dec-04 Station No. Looking Northeast Photo No. 325 (CD) No.6	Continuing the placement of the hot asphalt pavement mix on the base material driveway in the treatment plant expansion area.
19TH Street Plant 23-Dec-04 Station No. 0+00 Looking South Photo No. 326 (CD) No.6	Lifting the manhole covers up to finish grade elevation in the paved areas for the spent backwash manhole structures.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 23-Dec-04 Station No. Looking South Photo No. 327 (CD) No.6	Planting trees along the filter vessels on the east side between the asphalt driveway.
19TH Street Plant 23-Dec-04 Station No. Looking East Photo No. 328 (CD) No.6	Continuing to plant trees along the filter vessels on the east side between the asphalt driveway in the treatment plant expansion area.
19TH Street Plant 23-Dec-04 Station No. 2+41 Looking West Photo No. 329 (CD) No.6	Continuing to set the manhole rings to finish grade on the spent backwash system man hole structures.
19TH Street Plant 29-Dec-04 Station No. Looking South Photo No. 330 (CD) No.6	Storm water flooding on the westside of the filter vessels after an early morning rainfall in the treatment plant expansion area.
19TH Street Plant 29-Dec-04 Station No. Looking South Photo No. 331 (CD) No.6	Storm water flooding on both sides of the paved driveway in the treatment plant expansion area after an early morning rain.
19TH Street Plant 29-Dec-04 Station No. 1+00 Looking North Photo No. 332 (CD) No.6	Drilling the anchor bolt holes in the concrete spent backwash pipe support footings located along the front of the filter vessel foundations.
19TH Street Plant 14-Jan-05 Station No. 1+24 Looking West Photo No. 333 (CD) No.7	Started to paint the primer coat on the anti-siphon loop aboveground piping on the effluent pipeline system.
19TH Street Plant 14-Jan-05 Station No. 1+24 Looking North Photo No. 334 (CD) No.7	Continuing to paint the anti - siphon loop aboveground piping in the treatment plant expansion area.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant  
14-Jan-05  
Station No. 1+50  
Looking East  
Photo No. 335 (CD) No.7

Painting the aboveground DIP for the 10 inch metering and backflow preventer assembly on the backwash supply pipeline.

19TH Street Plant  
18-Jan-05  
Station No.  
Looking North  
Photo No. 336 (CD) No.7

Started to place the CMB in the non-paved areas in the treatment plant expansion area.

19TH Street Plant  
18-Jan-05  
Station No.  
Looking East  
Photo No. 337 (CD) No.7

Continuing to place the base material and spread the CMB in the non-paved areas in the treatment plant area.

19TH Street Plant  
18-Jan-05  
Station No.  
Looking South  
Photo No. 338 (CD) No.7

Continuing to haul the CMB onto the jobsite with bottom dump type trailer trucks in the treatment plant expansion area.

19TH Street Plant  
19-Jan-05  
Station No.  
Looking North  
Photo No. 339 (CD) No.7

Installing the piping, solenoid and pilot valves on the 16 inch pressure sustaining valve on the west side of the existing chlorine control room.

19TH Street Plant  
19-Jan-05  
Station No.  
Looking North  
Photo No. 340 (CD) No.7

Continued to moisture condition and compact the CMB in the non-paved areas on the treatment plant expansion area.

19TH Street Plant  
19-Jan-05  
Station No.  
Looking North  
Photo No. 341 (CD) No.7

Installing the wrought iron swing gates for the Highland Avenue driveway entrance at the north end of the treatment plant expansion area.

19TH Street Plant  
20-Jan-05  
Station No. 1+71  
Looking North  
Photo No. 342 (CD) No.7

Inspection with SBMWD and E2 on the bypass and pressure sustaining concrete vaults.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant  
20-Jan-05  
Station No. 3+06  
Looking South  
Photo No. 343 (CD) No.7

Continuing inspection on the treatment plant expansion by operating all the underground gate and butterfly valves by recording the number of turns per valve.

19TH Street Plant  
27-Jan-05  
Station No.  
Looking East  
Photo No. 344 (CD) No.7

Setting the wood forms for the automated gate electric motor foundations at the Highland Avenue wrought iron gates.

19TH Street Plant  
27-Jan-05  
Station No.  
Looking South  
Photo No. 345 (CD) No.7

Placing concrete mix in the wood form excavations for the automated gate electric motor foundations at the Highland Avenue wrought iron gate entrance.

19TH Street Plant  
1-Feb-05  
Station No.  
Looking Northwest  
Photo No. 346 (CD) No.7

Installing back the small existing transformers in the existing booster pump room.

19TH Street Plant  
1-Feb-05  
Station No.  
Looking Southwest  
Photo No. 347 (CD) No.7

Continuing to reinstall the small existing transformers back in the existing booster pump room.

19TH Street Plant  
3-Feb-05  
Station No.  
Looking North  
Photo No. 348 (CD) No.7

Installing the automated gate electric motors on the concrete foundations and the driveway loop system at the Highland Avenue entrance

Encanto Park Pump Station  
8-Feb-05  
Station No.  
Looking South  
Photo No. 349 (CD) No.7

Southern California Edison installing the electrical power cables from the splice box to the booster pump station transformer.

19TH Street Plant  
17-Feb-05  
Station No.  
Looking North  
Photo No. 350 (CD) No.8

Setting wood forms for the "A" type concrete curb to run along the east side of the existing plant service yard.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 17-Jan-05 Station No. Looking North Photo No. 351 (CD) No.8	Continue the placement of the "A" type concrete curb wood forms that run along the aboveground pressure sustaining valve piping assemblies.
Encanto Park Pump Station 17-Feb-05 Station No. Looking Southeast Photo No. 352 (CD) No.8	Installing the steel coated cage around the pump station surge tank equipment.
19TH Street Plant 18-Feb-05 Station No. Looking Northwest Photo No. 353 (CD) No.8	Landing the wires for the site lighting panel (TP-1) in the existing booster pump room.
Encanto Park Pump Station 18-Feb-05 Station No. Looking East Photo No. 354 (CD) No.8	Continuing to install the steel coated cage around the pump station surge tank piping and equipment.
19TH Street Plant 22-Feb-05 Station No. Looking North Photo No. 355 (CD) No.8	Starting to load the filter vessels with carbon from the tanker trailer trucks.
19TH Street Plant 22-Feb-05 Station No. Looking East Photo No. 356 (CD) No.8	Draining the chlorinated water out of the filter vessel and loading water into the dry carbon loaded tanker trailer.
19TH Street Plant 22-Feb-05 Station No. Looking South Photo No. 357 (CD) No.8	Continuing to load water into the carbon loaded tanker trailer truck.
19TH Street Plant 22-Feb-05 Station No. Looking Northwest Photo No. 358 (CD) No.8	Started to load the carbon/water mix into the filter vessels with air pressure added to the tanker trailer.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant  
22-Feb-05  
Station No. 0+36  
Looking Southeast  
Photo No. 359 (CD) No.8

Installing the pressure sustaining control equipment on the above and below grade cla-vals on the effluent pipeline system.

19TH Street Plant  
23-Feb-05  
Station No.  
Looking East  
Photo No. 360 (CD) No.8

Continuing to drain the chlorinated water out of the filter vessel and load water into the dry carbon loaded tanker trailer truck.

19TH Street Plant  
23-Feb-05  
Station No. 0+00  
Looking North  
Photo No. 361 (CD) No.8

Installing the 24 inch pipe restraints at the flex coupling connection on the aboveground filter header piping on the east filter row.

19TH Street Plant  
23-Feb-05  
Station No. 0+00  
Looking East  
Photo No. 362 (CD) No.8

Continuing to install the 24 inch pipe restraints at the flex coupling connection on the above ground filter header piping east side.

19TH Street Plant  
24-Feb-05  
Station No. 3+50  
Looking North  
Photo No. 363 (CD) No.8

Placing the base material section in the effluent pipeline trench at the existing service yard.

19TH Street Plant  
25-Feb-05  
Station No. 2+84  
Looking East  
Photo No. 364 (CD) No.8

Installing the 30 inch flowmeter read out head just below the concrete vault hatch doors for the effluent pipeline system.

19TH Street Plant  
25-Feb-05  
Station No.  
Looking East  
Photo No. 365 (CD) No.8

Started placement of the concrete mix in the "A" type curb forms along the east side of the existing plant service yard.

19TH Street Plant  
25-Feb-05  
Station No.  
Looking South  
Photo No. 366 (CD) No.8

Continuing the placement of the concrete mix in the "A" type curb wood forms along the east side of the existing srevice yard.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 28-Feb-05 Station No. 4+00 Looking South Photo No. 367 (CD) No.8	Backfilled the "A" type concrete curb and started fine grading pavement section along the concrete curb face in the existing plant.
19TH Street Plant 2-Mar-05 Station No. Looking South Photo No. 368 (CD) No.8	Continuing to unload the carbon from the tanker trailer trucks and place into the filter vessels in the plant expansion area.
19TH Street Plant 2-Mar-05 Station No. Looking South Photo No. 369 (CD) No.8	Continuing to unload the carbon from the tanker trailer trucks and load the carbon into the filter vessels in both filter vessel rows.
19TH Street Plant 2-Mar-05 Station No. Looking Northeast Photo No. 370 (CD) No.8	Compaction testing on the sugrade elevation on the paving section for the Highland Avenue Caltrans driveway entrance.
19TH Street Plant 2-Mar-05 Station No. Looking East Photo No. 371 (CD) No.8	Compacting the base material section in the Highland Avenue driveway entrance using a vibratory steel drum roller.
19TH Street Plant 7-Mar-05 Station No. 3+25 Looking North Photo No. 372 (CD) No.8	Removing the old existing asphalt pavement in the plant service yard and haul the asphalt off the jobsite.
19TH Street Plant 8-Mar-05 Station No. Looking West Photo No. 373 (CD) No.8	Continue to install the rest of the RTU equipment and landing the 4/20 wiring inside the cabinet. At the filter vessels.
19TH Street Plant 8-Mar-05 Station No. Looking South Photo No. 374 (CD) No.8	treatment plant expansion area with the tank and site lighting on at night.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 12-Mar-05 Station No. Looking North Photo No. 375 (CD) No.8	Starting the recompaction operation on the CMB material in the non-paved areas in the treatment plant expansion area.
19TH Street Plant 12-Mar-05 Station No. Looking East Photo No. 376 (CD) No.8	Moisture conditioning the CMB material with water trucks in the non-paved areas in the treatment plant expansion area.
19TH Street Plant 12-Mar-05 Station No. Looking East Photo No. 377 (CD) No.8	Using vibratory steel drum rollers to compact the CMB in place in the non-paved areas in the treatment plant area.
19TH Street Plant 15-Mar-05 Station No. Looking South Photo No. 378 (CD) No.8	Starting to fine grade the base material in the existing service yard for new asphalt pavement.
19TH Street Plant 15-Mar-05 Station No. Looking North Photo No. 379 (CD) No.8	Grinding the edges on the existing asphalt pavement around the existing reservoir and booster pump room building.
19TH Street Plant 15-Mar-05 Station No. Looking North Photo No. 380 (CD) No.8	Starting to place the hot asphalt mix in the existing plant driveway and existing service yard.
19TH Street Plant 15-Mar-05 Station No. Looking East Photo No. 381 (CD) No.8	Continuing to place the hot asphalt mix cap in the existing plant driveway and around the existing reservoir and pump room building.
19TH Street Plant 15-Mar-05 Station No. Looking South Photo No. 382 (CD) No.8	Starting to place the hot asphalt mix in the existing service yard with asphalt paving machine.

## PHOTO LOG - JOBSITE CONTINUED

19TH Street Plant 16-Mar-05 Station No. Looking East Photo No. 383 (CD) No.8	Installing the mechanical coupling on the pump and electric motor shaft for booster pump No.5 in the existing pump room.
19TH Street Plant 16-Mar-05 Station No. Looking West Photo No. 384 (CD) No.8	Programing the touch screen computer and cla-val controls in the existing booster pump room for the scada system.
Encanto Park Pump Station 16-Mar-05 Station No. Looking West Photo No. 385 (CD) No.8	Installing the mechanical couplings on the pump and electric motor shafts for booster pump No.1, 2, 3 at the pump station.
19TH Street Plant 6-Apr-05 Station No. Looking North Photo No. 386 (CD) No.8	Completed the installation of the site lighting in the treatment plant expansion area.
19TH Street Plant 13-Apr-05 Station No. Looking West Photo No. 387 (CD) No.8	Installing the piping from the filter vessels to the Druck differential pressure transmitters in the treatment plant expansion area.
19TH Street Plant 13-Apr-05 Station No. Looking Northwest Photo No. 388 (CD) No.8	Cutting and bending the small piping for the installation on the differential pressure transmitters located on the filter vessels.
19TH Street Plant 13-Apr-05 Station No. Looking West Photo No. 389 (CD) No.8	Continuing to tie-in the small piping to the Shut off valve at the filter vessels effluent and influent sample ports.
19TH Street Plant 13-Apr-05 Station No. Looking North Photo No. 390 (CD) No.8	Installing the galvanized tee and shut off valves on the filter vessels for the Druck differential pressure transmitter connections.

## PHOTO LOG - JOBSITE CONTINUED

Encanto Park Pump Station 27-Apr-05 Station No. Looking South Photo No. 391 (CD) No.8	Starting to install the bollards base assembly on the east and west side of the pump station.
19TH Street Plant 4-May-05 Station No. Looking West Photo No. 392 (CD) No.8	Started the scada system shake down at the booster pump room and the training on the chlorine injection equipment in the chlorine control room.
Encanto Park Pump Station 12-May-05 Station No. Looking South Photo No. 393 (CD) No.8	Installing the SBMVWD radio equipment at the RTU cabinet in the pump station.
19TH Street Plant 17-May-05 Station No. Looking Southeast Photo No. 394 (CD) No.8	Installing the large impeller on the chlorine booster pump in the chlorine control room.
19TH Street Plant 8-Jun-05 Station No. Looking West Photo No. 395 (CD) No.8	Removing the small piping connections from the Druck differential pressure transmitters.
19TH Street Plant 8-Jun-05 Station No. Looking East Photo No. 396 (CD) No.8	Removing the electrical connections from the differential pressure transmitters and removing the differential pressure transmitters from the filter vessels to be sent back to the factory.
Encanto Park Pump Station 20-Jun-05 Station No. Looking East Photo No. 397 (CD) No.8	Installing the six-scense equipment in the RTU cabinet in the pump station.
Encanto Park Pump Station 20-Jun-05 Station No. Looking Southwest Photo No. 398 (CD) No.8	Continuing to install the six-scense electrical equipment inside the metering and sample concrete vault.

## PHOTO LOG - JOBSITE CONTINUED

Encanto Park Pump Station 20-Jun-05 Station No. Looking East Photo No. 399 (CD) No.8	Continued to install the electrical wiring to the six-scense electrical equipment inside the RTU cabinet in the pump station.
Encanto Park Pump Station 20-Jun-05 Station No. Looking South Photo No. 400 (CD) No.8	Installing the 2 inch saddle and corporation valve on the 24 inch DIP in the metering and sample vault.
Encanto Park Pump Station 20-Jun-05 Station No. Looking East Photo No. 401 (CD) No.8	Installing the sampling transmitter equipment for the six-scense on the 24 inch DIP inside the metering and sampling concrete vault.
19TH Street Plant 29-Jun-05 Station No. Looking West Photo No. 402 (CD) No.8	Installing tags on the wire locations in the RTU panel at the filter vessels.
19TH Street Plant 26-Jul-05 Station No. Looking South Photo No. 403 (CD) No.8	Completing items on the punch list around the filter vessels before final inspection.
Encanto Park Pump Station 27-Jul-05 Station No. Looking East Photo No. 404 (CD) No.8	Installing the hour running meters on the booster pump MCC panels .
19TH Street Plant 27-Jul-05 Station No. Looking South Photo No. 405 (CD) No.8	Final inspection and check list sign off in the booster pump room.
19TH Street Plant 27-Jul-05 Station No. Looking Northeast Photo No. 406 (CD) No.8	Final inspection and check list sign off with SBMWD in the chlorine control room and pressure sustaining valve No.3

**PHOTO LOG - JOBSITE CONTINUED**

19TH Street Plant  
27-Jul-05  
Station No.  
Looking North  
Photo No. 407 (CD) No.8

Continued the final site inspection on the existing service yard and treatment plant expansion area.

19TH Street Plant  
27-Jul-05  
Station No.  
Looking South  
Photo No. 408 (CD) No.8

Completing the final site inspection and sign off with SBMWD on the treatment plant expansion area.