BASIS OF BEARING AND COORDINATES

Bearings and coordinates as shown hereon are in terms of the California Coordinate System of 1983 (Epoch 1995.530), Zone 6, based locally upon the following continuously operating reference stations as published by the National Geodetic Survey.

<table>
<thead>
<tr>
<th>STATION</th>
<th>NORTHING(Y)</th>
<th>EASTING(X)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WORP</td>
<td>2,062,572.398</td>
<td>1,885,076.916</td>
</tr>
<tr>
<td>1</td>
<td>2,062,866.544</td>
<td>1,884,376.797</td>
</tr>
<tr>
<td>100</td>
<td>2,062,924.000</td>
<td>1,885,858.072</td>
</tr>
</tbody>
</table>

BENCHMARK

Elevations as shown hereon are in terms of the North American Vertical Datum of 1988 based locally upon the following California Department of Transportation Benchmark:

*BM 5-44, II 14.361 NAVD88-GPS 2ND ORDER*

*2' BRASS DISC STAMPED "CAL. DEPT. TRAN., BM 5-44, II 1992" *
Located at the NorthEast Bridge Return A 1-5 & La Costa Ave.

PROJECT CONTROL

<table>
<thead>
<tr>
<th>STA</th>
<th>NORTHING(Y)</th>
<th>EASTING(X)</th>
<th>EPOCH</th>
<th>ELEVATION</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>602,353.380</td>
<td>1,902,859.032</td>
<td>1995.50</td>
<td>7.015</td>
<td>CONSTRUCTION W/ PAVEMENT END AND CURB</td>
</tr>
<tr>
<td>4</td>
<td>602,422.532</td>
<td>1,902,226.884</td>
<td>1995.50</td>
<td>5.735</td>
<td>CONSTRUCTION W/ PAVEMENT END AND CURB</td>
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</tbody>
</table>

CONSTRUCTION STAKING SURVEY

Control Data Location 3

Scale: 1:1000
380 mm x 3.32 AP
Z+0.0009

DEP W/ STAINLESS STEEL COVER (NO OPENING) H=2.056

SAND FILTER CHAMBER
See Det Spn B-251

SEDIMENTATION CHAMBER
See Det Spn C-251

CUT/FILTRATION FLUMES

tag/91.14 ft. w 40"mem

5.475 FL
5.454 FL
5.451 FL
5.524 FL
5.515 FL
5.485 FL
5.465 FL

5.3.53 FL
5.29 FL
5.27 FL
5.24 FL
5.21 FL
5.18 FL
5.14 FL
5.11 FL
5.08 FL

380 mm x 6.79 AP
Z+0.0009

DEP W/ STAINLESS STEEL COVER (NO OPENING) H=2.056

SAND FILTER CHAMBER
See Det Spn B-251

CUT/FILTRATION FLUMES

tag/91.14 ft. w 40"mem

5.475 FL
5.454 FL
5.451 FL
5.524 FL
5.515 FL
5.485 FL
5.465 FL

5.3.53 FL
5.29 FL
5.27 FL
5.24 FL
5.21 FL
5.18 FL
5.14 FL
5.11 FL
5.08 FL

DRAINAGE PROFILES
LOCATION 3

COORDINATE POINT    NORTHING    EASTING
10                      6024226.298    1802244.025
20                      6024226.298    1802244.025

NOTE:
SEE SHEET D-18 FOR CODE POINT
NORTHING AND EASTING UNLESS OTHERWISE NOTED.
ON PLAN.

SCALE: H/2" = 1-00

OCC 000000

AS BUILT
NO CORRECTIONS THIS SHEET
RECENT DRAINAGE CAT (05/05/10)

DATE ACCEPTED: 6/22/11
DATE COMPLETED: 6/22/11

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

D-11
NOTES
ALL OUTSIDE WALL SURFACES SHALL BE WATERPROOFED PER STANDARD SPECIFICATION SECTION 54.

DIMENSION TABLE

<table>
<thead>
<tr>
<th>No.</th>
<th>D1</th>
<th>D2</th>
<th>D3</th>
<th>L</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>T1</th>
<th>T2</th>
<th>W1</th>
<th>INLET TYPE</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1.763</td>
<td>1.778</td>
<td>2.623</td>
<td>21.240</td>
<td>15</td>
<td>5.60</td>
<td>0.240</td>
<td>SEE SHT PLAN B3-1</td>
<td>0.200</td>
<td>12.000</td>
<td>WEIR</td>
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<tr>
<td>2</td>
<td>3.509</td>
<td>3.911</td>
<td>4.757</td>
<td>2.740</td>
<td>8</td>
<td>4.00</td>
<td>0.240</td>
<td>SEE SHT PLAN B3-1</td>
<td>0.300</td>
<td>7.000</td>
<td>PIPE</td>
</tr>
</tbody>
</table>

EMERGENCY OVERFLOW

INFLOW PIPE
OR DRAIN
PER PLAN

SECTION A-A

OUTLET PIPE
PER PLAN

TYPE I RW
SEE SHT
PLAN B3-1
W/ WATERSTRIP AT CONST JOINT

LEVEL LINE

S=0.0010

S=0.0010

SECTION

SEE SHT Sec SHT D-31

SEE SHT Sec SHT D-31

PERFORATED RISER
SEE SCHEDULE

PIPE D10

VRF HOLE SPACING

PERFORATIONS PER ROW

D10 OF PERFORATION

PERFORATED RISER SCHEDULE

<table>
<thead>
<tr>
<th>PIPE D10</th>
<th>150 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>VRF HOLE SPACING</td>
<td>64 mm</td>
</tr>
<tr>
<td>PERFORATIONS PER ROW</td>
<td>9</td>
</tr>
<tr>
<td>D10 OF PERFORATION</td>
<td>25 mm</td>
</tr>
</tbody>
</table>

PHASE III DESCRIPTION

DRAINAGE DETAILS
NO SCALE
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

STAMPED BY:

DATE PREPARED: 8-20-99
DATE COMPLETED: 8-20-99

3 4

AS BUILT
NO CORRECTIONS THIS SHEET

300 mm
300 mm
300 mm
300 mm
150 mm
150 mm
25 mm WEEP HOLES AT 600 mm INTERVALS

50 mm X 50 mm STAINLESS STEEL

DEBRIS CAGE

150 mm PVC

GATE VALVE

NO. 2 BACKING CONTINUOUS

LEVEL LINE

TOP OF SAND BED TO BE LEVEL

FABRIC

150 mm PERFORATED PVC UNDERGRAIN

FILTER

150 mm PERFORATED PVC UNDERGRAIN

LIGHT CLASS RSP LOCATION

ONLY

LIGHT CLASS RSP LOCATION

ONLY

TYPE I SAND FILTER

200 mm

EMERGENCY OVERFLOW

SEE SHT D-31
LOCATION AS DIRECTED PER ENGINEER

EMERGENCY OVERFLOW

SEE SHT D-31
LOCATION AS DIRECTED PER ENGINEER

WEIR INLET IFL AND LOCATION PER PLANI

PIPE IFL AND LOCATION PER PLANI

METATECH CORP.

ASGINER ENGINEERING INCORPORATED
171 SOUTHE 14TH LATA, SUITE 300
SALT LAKE CITY, UT 84115

METATECH CORP.

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METATECH CORP.
ALL DIMENSIONS ARE IN METERS

FLUME TABLE

<table>
<thead>
<tr>
<th>DRAINAGE SYSTEM</th>
<th>UNIT</th>
<th>INFLOW</th>
<th>OUTFLOW</th>
<th>FLUME TYPE AND SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>X</td>
<td>X</td>
<td>580mm LOW FLOW PALMER BOWL</td>
<td></td>
</tr>
</tbody>
</table>
2.0 X 2.0 CONCRETE PAD DETAILS

SECTION A - A

PLAN

50 mm PLASTIC PIPE

ACTUAL HORIZ. LOG TO BE FIELD DETERMINED

PLAN CORNER CONNECTION

"C" BARS-2 ABOVE AND 2 BELOW
OPENING VARIABLE TO MEET END OF PIPE

MIN OF 4-10 TIES ABOVE AND 4-10 TIES BELOW OPENING AND ON SIDES.
MAX SPACING 300 mm
*10 @ 300 mm

"A" BARS

SIDE CONNECTION

RING PER NOTE 1
300 mm MIN
"C" BARS-2 ABOVE AND 2 BELOW OPENING

PLAN

VARIABLE TO MEET END OF PIPE

MIN OF 4-10 TIES ABOVE AND 4-10 TIES BELOW OPENING AND ON SIDES.
MAX SPACING 300 mm
*10 @ 300 mm

"A" BARS

NOTES:

1. ROUND EDGE OF OUTLET TO 75 mm RADIUS.
2. Reinft shall be 40 mm CLEAR FROM THE FACE OF Conc.
3. IN CONNECTING TO AN EXIT SY, BREAK OUT PORTIONS OF THE EXIT SY 150 mm OUTSIDE ITS INTERSECTION. WHEN THE NEW CONNECTION, BEND ENDS OF *10 BARS OVER CONNECTION OPENING AS REQUIRED.

MONOLITHIC CATCH BASIN CONNECTION

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

STEEL SCHEDULE

<table>
<thead>
<tr>
<th>STEEL DIA (mm)</th>
<th>&quot;A&quot; BARS</th>
<th>&quot;B&quot; BARS</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>115</td>
<td>*16</td>
</tr>
<tr>
<td>600</td>
<td>130</td>
<td>*16</td>
</tr>
<tr>
<td>750</td>
<td>180</td>
<td>*19</td>
</tr>
<tr>
<td>900</td>
<td>190</td>
<td>*16</td>
</tr>
<tr>
<td>1500</td>
<td>200</td>
<td>*19</td>
</tr>
<tr>
<td>2000</td>
<td>200</td>
<td>*19</td>
</tr>
</tbody>
</table>

DATE ACCEPTED: 8-20-99
DATE COMPLETED: 8-20-99
GENERAL NOTES:

1. STRUCTURAL CONCRETE SHALL BE CLASS 'F'.

2. ALL LONGITUDINAL BARS SHALL BE AS SHOWN. PLACE BARS IN BOTTOM SLAB SYMMETRICALLY ABOUT CENTER LINE. PLACE BARS IN WALLS STARTING AT TOP WITH 50mm OF CLEAR COVER.

3. CLEAR COVER FOR STEEL SHALL BE 50mm FOR WALLS AND 10mm EACH FACE FOR BOTTOM SLAB.

4. STEEL IS DIMENSIONED TO BACK OF BAR BEND.

5. FOR CONSTRUCTION ON CURVES, STRAIGHT TRANSVERSE BARS SHALL BE ALIGNED RADIALITY WITH SPACING MEASURED AT FACE OF WALL. FOR L-BARS IN WALLS, SPACING SHALL BE MEASURED BETWEEN THE VERTICAL LEGS OF BARS.

6. ALL TRANSVERSE CONSTRUCTION JOINTS SHALL BE IN A VERTICAL PLANE NORMAL TO THE CENTER LINE AND THE SPACING THEREOF SHALL NOT EXCEED 15 METERS OR BE LESS THAN 3 METERS. CONTINUOUS KEYS SHALL BE CONSTRUCTED AS SHOWN IN DETAIL A. A COMPLETE CURTAIN OF TRANSVERSE STEEL SHALL BE PLACED 70mm FROM EACH FACE OF THE JOINTS AND LONGITUDINAL STEEL WILL NOT BE CONTINUOUS THROUGH THE JOINTS. IN ADDITION, EXPANSION JOINTS SHALL BE CONSTRUCTED BETWEEN REINFORCED CONCRETE CHANNEL AND REINFORCED CONCRETE BOX SECTIONS AS SHOWN IN DETAIL B. STEEL SHALL BE PLACED AT 300mm SPACING CENTERED IN THE MIDDLE THIRD OF THE BOTTOM SLAB AND THE TOP THIRD OF THE DE WALLS. A MINIMUM OF 3 DEWELS PER SLAB AND WALLS SHALL BE PLACED.

7. ALL QUANTITIES SHOWN ARE APPROXIMATE.

8. ALL SPLICES ARE SUBJECT TO APPROVAL BY THE RESIDENT ENGINEER.

9. THE BAR LENGTH SHALL VARY UNIORMLY THROUGHOUT THE TRANSITIONS.

**DETAIL A**

**TRANSVERSE CONSTRUCTION JOINT**

**TRANVERSE EXPANSION JOINT**

**MIDDLE WALL TYPICAL SECTION**

**DRAINAGE DETAILS**

NO SCALE
# Alternatives: PVC Culverts

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Material</th>
<th>Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 mm AP</td>
<td>PVC</td>
<td>S500P</td>
</tr>
<tr>
<td>450 mm AP</td>
<td>PVC</td>
<td>S500P</td>
</tr>
</tbody>
</table>

## Legend and Abbreviations

- **CP** - Cast Iron
- **CI** - Cast Iron
- **SS** - Stainless Steel
- **PM** - Plastic
- **EPOXY LAMINA**
- **NEG-C**
- **NEG**
- **COP** - Copper
- **SS** - Stainless Steel
- **REPL** - Replace
- **SH** - Smooth Inside Wall
- **REH** - Reinforced Header

### Plan Approval Date

11/30/2000

### Associate Engineering Incorporates

977 South Via Lata, Suite 500

Columbia, CA 92324

### Drainage Quantities D-34

- **As Built**

### Notes

* Pay Item Included Under Summary Of Quantities, Sheet 0-1

---

**Date Modified:** [MM/DD/YY]

**By:** [Name]

**Project Name:** [Project Name]

**Contract No.:** 430004A

---

**Status:** [Status]

**Scale:** [Scale]

**Drawn By:** [Drawn By]

**Reviewed By:** [Reviewed By]

**Checked By:** [Checked By]

---

**DRAINS AND DRAINAGE**

---

**AS-BUILT**

---

**NO CORROSION, CORROSION AND REPAIR**

---

**UNITS OF MEASURE**

---

**TOTAL**

---

**FOR REDUCED DRAWING ORIGINAL**

---

**USER NAME:** [Username]

---

**CONTRACT NO.:** 430004A

---

**RESULT**

---

**LEADER SIGNED**

---

**DATE:** [Date]

---

**DRAWN BY:** [Drawn By]

---

**REVISED:** [Revised]

---

**REVIEWED:** [Reviewed]

---

**CHECKED:** [Checked]

---

**SHEET:** 0-1

---

**INSET:** [Inset]

---

**SCALE:** 1/150

---

**NOTES:** [Notes]
### SUMMARY OF QUANTITIES

<table>
<thead>
<tr>
<th>LOCATION NO</th>
<th>LOCATION</th>
<th>REMOVE CONCRETE (CUBE)</th>
<th>REMOVE CONCRETE (GUTTER)</th>
<th>REMOVE AC</th>
<th>REMOVE AC/CONCRETE</th>
<th>REMOVE TREE</th>
<th>REMOVE STOCKPILE</th>
<th>ASPHALT CONCRETE DIKE</th>
<th>ASH PAVEMENT CONCRETE BASE DIKE</th>
<th>CONCRETE BASE (CLASS III)</th>
<th>ASH PAVEMENT</th>
<th>RELOCATE IRRIGATION SYSTEM</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Kearny Mesa Maintenance Station</td>
<td>m</td>
<td>m²</td>
<td>EA</td>
<td>m</td>
<td>m²</td>
<td>EA</td>
<td>m</td>
<td>m²</td>
<td>EA</td>
<td>m²</td>
<td>EA</td>
<td>m²</td>
</tr>
<tr>
<td>2</td>
<td>2nd St Maintenance Station</td>
<td>m</td>
<td>m²</td>
<td>EA</td>
<td>m</td>
<td>m²</td>
<td>EA</td>
<td>m</td>
<td>m²</td>
<td>EA</td>
<td>m²</td>
<td>EA</td>
<td>m²</td>
</tr>
<tr>
<td>3</td>
<td>La Costa Park and R/P</td>
<td>44</td>
<td>423</td>
<td>2</td>
<td>48.3</td>
<td>11.4</td>
<td>11.3</td>
<td>4</td>
<td>51.7</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>4 5</td>
<td>S/R78 Park and Ride</td>
<td>1.54</td>
<td>1</td>
<td>0.7</td>
<td>11.3</td>
<td>4</td>
<td>85</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 6</td>
<td>SR78/Weslaco Drive</td>
<td>1</td>
<td>10</td>
<td>0.22</td>
<td>2</td>
<td>1.9</td>
<td>4.6</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 7</td>
<td>Access Approach Road</td>
<td>1.54</td>
<td>1</td>
<td>0</td>
<td>17.5</td>
<td>13.3</td>
<td>32.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>7 8</td>
<td>Carlsbad Maintenance Station</td>
<td>1.54</td>
<td>1</td>
<td>0</td>
<td>17.5</td>
<td>13.3</td>
<td>32.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL**

* NOT A SEPARATE PAY ITEM FOR THIS LOCATION, SEE SPECIAL PROVISIONS

---

**ELIMINATED FROM CONTRACT SEE CALTRANS CONTRACT NO. 11-059104, CCO NO. 8**

---

**SUMMARY OF QUANTITIES Q-1**
## LOAD SCHEDULE

<table>
<thead>
<tr>
<th>PANEL PPA IN NEMA 2R ENCLOSURE</th>
<th>120/240 VOLTS</th>
<th>1 PH</th>
<th>3 WIRE</th>
<th>OUTDOOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOCATION</td>
<td>125 AMP BUS 480V, 2P, MAIN SURFACE MOUNTED</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REMARKS</td>
<td>LOAD (WATTS)</td>
<td>OUTLETS</td>
<td>CIR NO</td>
<td>ALL BREAKERS 20 AMPERES EXCEPT AS NOTED</td>
</tr>
<tr>
<td>CNFLOW MON. 1800</td>
<td>1</td>
<td>1</td>
<td></td>
<td>SPARE</td>
</tr>
<tr>
<td>INFLOW MON. 1800</td>
<td>3</td>
<td>4</td>
<td></td>
<td>SPARE</td>
</tr>
<tr>
<td>TOTAL CONNECTED LOAD</td>
<td>1800VA(L1) + 1800VA(L2) = 3600VA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### NOTES:

1. [Select Type 1] SERVICE ENCLOSURE
   - CABINET 3.75" x 3.75" METAL NO. 20" x 45" x 120/240V, 1 PH, 3 W, 2P-100A CB (MAIN)
   - ADD 2P-40A CB (FOR PNL PPA)

2. NEW PNL BOARD PPA IN NEMA 2R ENCLOSURE
   - 2P-40A CB (MAIN)
   - 2P-20A CB (CNFLOW MON.)
   - 2P-20A CB (INFLOW MON.)
   - 2P-20A CB (SPARE)

### CONDUIT & WIRE NOTES:

- 4" C, TYPE 3, 3/4"
  - L=150' (45.7') VD=1.6%

- 4" C, TYPE 3, 2/10"
  - L=250' (76.2') VD=2.4%
ELECTRICAL PANEL MOUNTING SUPPORT

PULL BOX MOUNTING DETAIL

PULL BOX NOTES:
1. EQUIP METAL PULL BOX EXPOSED TO WEATHER WITH WEATHER PROOF REMOVABLE COVER.
2. USE THREADED WATER-TIGHT NUTS FOR TOP ENTRY.
3. USE KNOCKOUT FOR BOTTOM ENTRY ONLY.

STEEL ELBOW THRU FLOOR DETAIL

AREA SUBJECT TO USE BY CARS OR TRUCKS
CONCRETE ENVELOPE MUST BE AT LEAST 50mm THICK
TYPE 3 Cond

TYPICAL UNDERGROUND CONDUIT INSTALLATION

TYPICAL UNDERGROUND CONDUIT INSTALLATION

FIRE STOP DETAIL

NOTE: FOR THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.