### Notes:

1. All callouts refer to curb flowline where curb and gutter exists.
2. Allowable grade and dimension tolerances for construction of pedestrian facilities does not relieve the contractor from the responsibility of meeting the requirements of the Americans with Disabilities Act.

### Curve Data for Driveways

<table>
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<tr>
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<tr>
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<td>67° 49' 56&quot;</td>
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### Curb Flowline Elevations

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<tr>
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### Construction Details

**SECTION A-A**

S+401+88.39 to S+401+83.41

**SECTION B-B**

Future Build Out Detail

**SECTION C-C**

"B2" Line Typical Section

---

### LANE GULCH ROAD "EC" LINE 22+00

### B2 Line Intersection

Scale: 1" = 20'

### Browns Ranch Road Intersection

Scale: 1" = 10'

**ELEVATION NUMBER**

**CURVE NUMBER**

**RADIUS POINT**

**ELEVATION NUMBER**

---

### Brown Ranch Road Intersection

Scale: 1" = 10'

**ELEVATION NUMBER**

**CURVE NUMBER**

**RADIUS POINT**

**ELEVATION NUMBER**

---

### Construction Details

Scale as shown

**C-1**
NOTES:
1. ALL CALLOUTS REFER TO CURB FLOWLINE WHERE CURB AND CURT CUTTER EXISTS.
2. ALLOWABLE GRADE AND DIMENSION TOLERANCES FOR CONSTRUCTION OF PEDESTRIAN FACILITIES DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF MEETING THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.

LEGEND:
☐ RADIUS POINT
☐ CURVE NUMBER
☐ ELEVATION NUMBER

SECTION D-D
FUTURE BUILD OUT DETAIL
NO SCALE

SECTION B-B
"C2" LINE TYPICAL SECTION
NO SCALE

C2 LINE INTERSECTION
SCALE: 1" = 20'

CURB FLOWLINE ELEVATIONS
SEE NOTE 1

<table>
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<th>ELEVATION</th>
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<tr>
<td>1</td>
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<td>2005.25</td>
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<tr>
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<td>43.27' LT &quot;EC&quot; 65+29.05</td>
<td>2004.91</td>
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<td>3</td>
<td>36.84' LT &quot;C2&quot; 1002+00.26</td>
<td>2004.26</td>
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<td>4</td>
<td>32.80' LT &quot;C2&quot; 1002+00.27</td>
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<td>5</td>
<td>24.68' RT &quot;C2&quot; 1002+00.91</td>
<td>2005.88</td>
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<td>6</td>
<td>28.08' RT &quot;C2&quot; 1002+13.68</td>
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<td>7</td>
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<td>8</td>
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CURVE DATA FOR DRIVEWAYS

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<td>73.60</td>
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<td>48.00</td>
<td>38° 54' 11&quot;</td>
<td>46.25</td>
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CONSTRUCTION DETAILS
SCALE AS SHOWN
C-2
NOTES:
1. ALL CALLOUTS REFER TO CURB FLOWLINE WHERE CURB AND GUTTER EXISTS.
2. SEE SHEET C-2 FOR SECTION D-D.

1. ALLOWABLE GRADE AND DIMENSION TOLERANCES FOR CONSTRUCTION OF PEDESTRIAN FACILITIES DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF MEETING THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.

2. SEE SHEET C-2 FOR SECTION D-D.

LEGEND:
- RADIUS POINT
- CURVE NUMBER
- ELEVATION NUMBER

CURVE DATA FOR DRIVEWAYS

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<th>L</th>
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<td>1</td>
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<td>600.00'</td>
<td>12° 28’ 56”</td>
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<td>2</td>
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<td>15° 52’ 48”</td>
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<td>3</td>
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<td>4</td>
<td></td>
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<td>200.00'</td>
<td>24° 52’ 00”</td>
<td>25.00'</td>
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<tr>
<td>6</td>
<td></td>
<td>100.00'</td>
<td>27° 52’ 00”</td>
<td>15.00'</td>
<td>77.49'</td>
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SCALE: 1” = 10'
NOTES:
1. ALL CALLOUTS REFER TO CURB FLOWLINE WHERE CURB AND CUTTER EXISTS.
2. FOR ADDITIONAL CURB DETAILS SEE STANDARD PLAN A87B.
3. ALLOWABLE GRADE AND DIMENSION TOLERANCES FOR CONSTRUCTION OF PEDESTRIAN FACILITIES DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF MEETING THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.

CURVE DATA

<table>
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<tr>
<td>1</td>
<td>60.00</td>
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SE CORNER "299" & "EC" INTERSECTION

SCALE: 1" = 5'

SECTION A-A
VERIZON MANHOLE

NO SCALE

CONSTRUCTION DETAILS

SCALE AS SHOWN

C-6

VERIZON MANHOLE

ADJUST MANHOLE TO GRADE

BACK OF WALK

VAULT REMAIN IN PLACE

SCALE AS SHOWN
NE CORNER "299" & "EC" INTERSECTION

Notes:
1. All callouts refer to curb flowline where curb and gutter exists.
2. Allowable grade and dimension tolerances for construction of pedestrian facilities does not relieve the contractor from the responsibility of meeting the requirements of the Americans with Disabilities Act.

Legend:
- RADIUS POINT
- CURVE NUMBER

Drawn By: CAROLYN DAVIS
Registered Civil Engineer
C58440
12/31/14

CONSTRUCTION DETAILS
SCALE: 1" = 5'

CURVE DATA

<table>
<thead>
<tr>
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NOTES:
1. All callouts refer to curb flowline where curb and gutter exists.
2. Allowable grade and dimension tolerances for construction of pedestrian facilities does not relieve the contractor from the responsibility of meeting the requirements of the Americans with Disabilities Act.
NOTES:
1. ALL CALLOUTS REFER TO CURB FLOWLINE WHERE CURB AND GUTTER EXISTS.
2. ALLOWABLE GRADE AND DIMENSION TOLERANCES FOR CONSTRUCTION OF PEDESTRIAN FACILITIES DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF MEETING THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.

CURVE DATA

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LEGEND:
- ○ RADIUS POINT
- ○ CURVE NUMBER

NW CORNER "299" & "EC" INTERSECTION

UTILITY PAD (SEE ELECTRICAL PLANS)

BACK OF SIDEWALK

CONSTRUCTION DETAILS
SCALE: 1" = 20'

C-8
**NOTES:**

1. ALL CALLOUTS REFER TO CURB FLOWLINE WHERE CURB AND GUTTER EXISTS.

2. ALLOWABLE GRADE AND DIMENSION TOLERANCES FOR CONSTRUCTION OF PEDESTRIAN FACILITIES DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF MEETING THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.

---

**SW CORNER "299" & "EC" INTERSECTION**

**CONSTRUCTION DETAILS**

**SCALE:** 1" = 5'

**CURVE DATA**

<table>
<thead>
<tr>
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<td>50.20</td>
<td>77° 49' 04&quot;</td>
<td>40.36</td>
<td>67.91</td>
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**LEGEND:**

- **RADIUS POINT**
- **CURVE NUMBER**

---

**DEPARTMENT OF TRANSPORTATION**

**TRINITY COUNTY**

**DEPARTMENT OF TRANSPORTATION**

**TRINITY COUNTY**

**DEPARTMENT OF TRANSPORTATION**

**CONTRACT NO. 14-ROAD-01**

**FEDERAL PROJECT #:RPSTPL 5905(102)**
NOTES:
1. FOR ADDITIONAL CURB DETAILS, SEE STANDARD PLAN A88B.
2. ALLOWABLE GRADE AND DIMENSION TOLERANCES FOR CONSTRUCTION OF PEDESTRIAN FACILITIES DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF MEETING THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
3. ALL CALLOUTS REFER TO CURB FLOWLINE WHERE CURB AND GUTTER EXISTS.

COLD PLANE AND REPLACE DETAIL

COLD PLANE AND CONFORM DETAIL

EXISTING CHP DRIVEWAY DETAIL

CURB AND GUTTER TRANSITION PERSPECTIVE

CONSTRUCTION DETAILS

"P" LINE DRIVEWAY

DETECTABLE WARNING SURFACE

SECTION A-A

CONSULTATION DATED 02/09/2016

ORDER NO. 14-ROAD-01

FEDERAL PROJECT NO. 5950(102)
NOTES:
1. FOR ADDITIONAL CURB DETAILS SEE STANDARD PLAN A87B.
2. SIDEWALKS SHALL BE SCORED AT FIVE-FOOT INTERVALS.
3. IN LIEU OF EVERY OTHER SCORE MARK, AT TEN-FOOT INTERVALS, WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED.
4. IN LIEU OF EVERY SIXTH WEAKENED PLANE JOINT, AT SIXTY-FOOT INTERVALS, EXPANSION JOINTS SHALL BE CONSTRUCTED AS SHOWN.
5. ALLOWABLE GRADE AND DIMENSION TOLERANCES FOR CONSTRUCTION OF PEDESTRIAN FACILITIES DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF MEETING THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.

LEGEND:
SW SCORE MARK
WPJ WEAKENED PLANE JOINT
EJ EXPANSION JOINT

SECTION A-A
SECTION C-C

SIDEWALK DETAIL
"BR" Sta 401+68.39 TO "EC" Sta 43+40.41
"EC" Sta 43+91.31 TO "EC" Sta 44+61.95

DRIVEWAY 4 AND 5 PLAN

DRIVEWAY DATA

EXPANSION JOINT PATTERN

SCORE MARK, WEAKENED PLANE JOINT, AND EXPANSION JOINT PATTERN

CONSTRUCTION DETAILS
NO SCALE

C-12
NOTES:
1. THIS PLAN ACCURATE FOR EROSION CONTROL WORK ONLY.
2. FENCE LOCATIONS ARE APPROXIMATE, ACTUAL LOCATIONS TO BE DETERMINED BY THE ENGINEER.
3. ADDITIONAL FENCE (TYPE ESA) TO BE PLACED AS SHOWN ON METAL CONSTRUCTION PLANS.

LEGEND:
- TCE
- TEMPORARY FIBER ROLL
- TEMPORARY SILT FENCE
- EROSION CONTROL (HYDROSEED)
- TEMPORARY CONCRETE WASHOUT
- TEMPORARY CONSTRUCTION ENTRANCE
- FENCE (TYPE ESA) - SEE NOTE 3

EROSION CONTROL
SCALE: 1"=50'
EC-1
NOTES:
1. THIS PLAN ACCURATE FOR EROSION CONTROL WORK ONLY.
2. FENCE LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED BY THE ENGINEER.
**NOTES:**

1. THIS PLAN ACURATE FOR EROSION CONTROL WORK ONLY.
2. FENCE LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED BY THE ENGINEER.
3. CONCRETE WASHOUT LOCATION AS DIRECTED BY THE ENGINEER. MAINTAIN 50 FOOT BUFFER BETWEEN CONCRETE WASHOUT AND RIPARIAN HABITAT.

**EC-3**

**SCALE: 1"=50'**

**EROSION CONTROL**

**STATE ROUTE 299**

**APN 024-500-57**

**MITCHELL**

**APN 024-480-31**

**APN 024-500-40**

**APN 024-500-71**

**TONEY**

**APN 024-500-71**

**SCALE: 1"=50'**

**NOTES:**

1. THIS PLAN ACCURATE FOR EROSION CONTROL WORK ONLY.
2. FENCE LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED BY THE ENGINEER.
3. CONCRETE WASHOUT LOCATION AS DIRECTED BY THE ENGINEER. MAINTAIN 50 FOOT BUFFER BETWEEN CONCRETE WASHOUT AND RIPARIAN HABITAT.
NOTES:
1. THIS PLAN ACCURATE FOR CONTOUR GRADING WORK ONLY.
2. SEE DRAINAGE PLANS FOR DETAILS NOT SHOWN.

ENERGY DISSIPATION POND

LOWER LANCE GULCH
DRAINAGE OUTFALL

CONTOUR GRADING
SCALE: 1" = 20'
NOTES:
1. THIS PLAN ACCURATE FOR CONTOUR GRADING WORK ONLY.
2. SEE DRAINAGE PLANS, PROFILES AND DETAILS FOR ADDITIONAL INFORMATION ON BIOFILTRATION SWALES

SECTION A-A
NO SCALE

CONTOURED SLOPE

SCALE: 1" = 30'

CONTOURED SLOPE

SCALE: 1" = 20'

CONTOUR GRADING
AS SHOWN

G-2
NOTES:
1. THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.
2. FOR UTILITY INFORMATION, SEE UTILITY SHEETS.
3. CONTRACTOR SHALL POSITIVELY DETERMINE ALL HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITY LINES PRIOR TO CONSTRUCTION OF ANY COMPONENT OF THE DRAINAGE SYSTEM AS SHOWN ON PLANS.
4. FOR BIOFILTRATION SWALE INFORMATION, SEE DRAINAGE DETAILS.
5. FOR CURB CUT DETAILS, SEE DRAINAGE DETAILS DD-9 SHEET.

ABBREVIATIONS:
RSP  - RSP ARMORED TEMPORARY DAM AND GRADE TO DRAIN
CURB CUT - CURB CUT

LEGEND:
XXX  - DRAINAGE UNIT NUMBER
O  - DIRECTION OF BIOFILM FLOW
B  - DIRECTION OF DITCH FLOW
- FLARED END SECTION AND ROCK SLOPE PROTECTION
- FLUSH CUT END
- BIOFILTRATION SWALE NUMBER
- GRADE TO DRAIN
- FILL
- CURB CUT AND RSP

REMOVED RSP ARMORED TEMPORARY DAM AND GRADE TO DRAIN
NOTES:
1. THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.
2. FOR UTILITY INFORMATION, SEE UTILITY SHEETS.
3. CONTRACTOR SHALL POSITIVELY DETERMINE ALL HORIZONTAL AND
   VERTICAL LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION OF
   ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY
   CONSTRUCTABILITY OF THE DRAINAGE SYSTEM AS SHOWN ON PLANS.
4. FOR BIOFILTRATION SWALE INFORMATION, SEE DRAINAGE DETAILS.
5. FOR CURB CUT DETAILS, SEE DRAINAGE DETAILS DD-9 SHEET.

PIPE ANGLE POINT DATA

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<td>35641.65</td>
<td>31.13 LF</td>
<td>10° 53' 28&quot;</td>
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<td>25 B</td>
<td>35779.60</td>
<td>29.68 LF</td>
<td>10° 35' 05&quot;</td>
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<td>25 C</td>
<td>35945.19</td>
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<td>36030.49</td>
<td>31.46 LF</td>
<td>8° 14' 59&quot;</td>
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DRAINAGE PLAN

SCALE: 1"=50'

TRINITY COUNTY APN 024-430-88

CONTRACT NO. 14-ROAD-01

FEDERAL PROJECT #RPSTPL 5905(102)

QUINCY ENGINEERING, INC
Bldg 2, Cobblerock Dr, Suite 100
Rancho Cordova, CA 95670

10/14/14

DATE REVEIVED 9:22:12 PM
NOTES:

1. THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.
2. FOR UTILITY INFORMATION, SEE UTILITY SHEETS.
3. CONTRACTOR SHALL POSITIVELY DETERMINE ALL HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTABILITY OF THE DRAINAGE SYSTEM AS SHOWN ON PLANS.
4. FOR BIOFILTRATION INFORMATION, SEE DRAINAGE DETAILS.
5. FOR CURB CUT DETAILS, SEE DRAINAGE DETAILS DD-9 SHEET.

FOR UTILITY INFORMATION, SEE UTILITY SHEETS.
1. THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.

FOR BIOFILTRATION INFORMATION, SEE DRAINAGE DETAILS.

NOTES:

1. THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.
2. FOR UTILITY INFORMATION, SEE UTILITY SHEETS.
3. CONTRACTOR SHALL POSITIVELY DETERMINE ALL HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTABILITY OF THE DRAINAGE SYSTEM AS SHOWN ON PLANS.
4. FOR BIOFILTRATION INFORMATION, SEE DRAINAGE DETAILS.
5. FOR CURB CUT DETAILS, SEE DRAINAGE DETAILS DD-9 SHEET.

FOR UTILITY INFORMATION, SEE UTILITY SHEETS.
1. THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.

FOR BIOFILTRATION INFORMATION, SEE DRAINAGE DETAILS.

NOTES:

1. THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.
2. FOR UTILITY INFORMATION, SEE UTILITY SHEETS.
3. CONTRACTOR SHALL POSITIVELY DETERMINE ALL HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTABILITY OF THE DRAINAGE SYSTEM AS SHOWN ON PLANS.
4. FOR BIOFILTRATION INFORMATION, SEE DRAINAGE DETAILS.
5. FOR CURB CUT DETAILS, SEE DRAINAGE DETAILS DD-9 SHEET.

FOR UTILITY INFORMATION, SEE UTILITY SHEETS.
1. THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.

FOR BIOFILTRATION INFORMATION, SEE DRAINAGE DETAILS.
NOTES:
1. THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.
2. CALL OUTS TO DRAINAGE STRUCTURES ARE REFERENCED TO CENTERLINE OF STRUCTURE AT FLOW LINE.
3. GRATE ELEVATIONS ARE GIVEN AT FLOW LINE AND DO NOT REPRESENT DEPRESSION FOR INLET.
4. CONTRACTOR SHALL POSITIVELY DETERMINE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTIBILITY OF THE DRAINAGE SYSTEM AS SHOWN ON PLANS.
5. SEE UTILITY SHEETS FOR TREATMENT OF EXISTING FACILITIES.
6. TYPE OCP DI REFERENCES FLOW LINE OF SIDE OPENING. TOP OF LID IS 1.0 FOOT ABOVE FLOWLINE.
7. SIDEWALK DRAIN WILL BE INCLUDED WITH CURB CUT FOR ADDITIVE ALTERNATIVE.

DRAINAGE SYSTEM No. 16
"P" 600+67.60 THROUGH 600+60.17

DRAINAGE SYSTEM No. 14
"EC" 45+00.00 THROUGH 45+00.00

DRAINAGE SYSTEM No. 15
"EC" 45+50.00, THROUGH 45+50.00

DRAINAGE SYSTEM No. 16
"EC" 50+55.63 THROUGH "P" 600+59.19

DRAINAGE PROFILE
SCALE: Horiz 1"=20' Vert 1"=10'

TYPE DG DI
GRADE TYPE 24-12X
2000 L1 "P" 600+67.60
TQ Elev 2071.09
H= 3.6

TYPE DG DI
GRADE TYPE 24-12X
3000 L1 "P" 600+69.62
TQ Elev 2071.09
H= 3.6

TYPE DG DI
GRADE TYPE 24-12X
3500 L1 "P" 600+60.17
TQ Elev 2071.09
H= 3.6

TYPE DG DI
GRADE TYPE 24-12X
5000 L1 "P" 600+59.92
TQ Elev 2071.09
H= 3.6

TYPE DG DI
GRADE TYPE 24-12X
6000 L1 "P" 600+59.19
TQ Elev 2071.09
H= 3.6

TYPE DG DI
GRADE TYPE 24-12X
7000 L1 "P" 600+59.19
TQ Elev 2071.09
H= 3.6

DRAINAGE PROFILE
SCALE: Horiz 1"=20' Vert 1"=10'

TYPE DG DI
GRADE TYPE 24-12X
2000 L1 "EC" 45+00.00
TQ Elev 2071.09
H= 3.6

TYPE DG DI
GRADE TYPE 24-12X
3000 L1 "EC" 45+50.00
TQ Elev 2071.09
H= 3.6

TYPE DG DI
GRADE TYPE 24-12X
3500 L1 "EC" 50+55.63
TQ Elev 2071.09
H= 3.6

TYPE DG DI
GRADE TYPE 24-12X
5000 L1 "EC" 50+55.63
TQ Elev 2071.09
H= 3.6

TYPE DG DI
GRADE TYPE 24-12X
6000 L1 "EC" 50+55.63
TQ Elev 2071.09
H= 3.6

TYPE DG DI
GRADE TYPE 24-12X
7000 L1 "EC" 50+55.63
TQ Elev 2071.09
H= 3.6

DRAINAGE PROFILE
SCALE: Horiz 1"=20' Vert 1"=10'

TYPE DG DI
GRADE TYPE 24-12X
2000 L1 "EC" 45+00.00
TQ Elev 2071.09
H= 3.6

TYPE DG DI
GRADE TYPE 24-12X
3000 L1 "EC" 45+50.00
TQ Elev 2071.09
H= 3.6

TYPE DG DI
GRADE TYPE 24-12X
3500 L1 "EC" 50+55.63
TQ Elev 2071.09
H= 3.6

TYPE DG DI
GRADE TYPE 24-12X
5000 L1 "EC" 50+55.63
TQ Elev 2071.09
H= 3.6

TYPE DG DI
GRADE TYPE 24-12X
6000 L1 "EC" 50+55.63
TQ Elev 2071.09
H= 3.6

TYPE DG DI
GRADE TYPE 24-12X
7000 L1 "EC" 50+55.63
TQ Elev 2071.09
H= 3.6
NOTES:
1. THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.
2. CALL outs TO DRAINAGE STRUCTURES ARE REFERENCED TO CENTERLINE OF STRUCTURE AT FLOW LINE.
3. GRATE ELEVATIONS ARE GIVEN AT FLOW LINE AND DO NOT REPRESENT DEPRESSION FOR INLET.
4. CONTRACTOR SHALL POSITIVELY DETERMINE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTABILITY OF THE DRAINAGE SYSTEM AS SHOWN ON PLANS.
5. SEE UTILITY SHEETS FOR TREATMENT OF EXISTING FACILITIES.
6. TYPE OCP DI REFERENCES FLOW LINE OF SIDE OPENING. TOP OF LID IS 1.0 FOOT ABOVE FLOWLINE.
7. SIDEWALK DRAIN WILL BE INCLUDED WITH CURB CUT FOR ADDITIVE ALTERNATIVE.
8. DRAINAGE PROFILE SHOWN IS LOOKING BACK STATIONING.

DRAINAGE SYSTEM No. 35
"EC" 46+00.00 THROUGH 46+50.00
(SEE NOTE 8)

DRAINAGE SYSTEM No. 17
"EC" 52+47.97 THROUGH 56+55.88

DRAINAGE SYSTEM No. 18
"EC" 57+00.00 THROUGH 57+75.12

DRAINAGE PROFILE
SCALE: Horiz: 1"=20'  Vert: 1"=10'

NOTES:
8. DRAINAGE PROFILE SHOWN IS LOOKING BACK STATIONING.
7. SIDEWALK DRAIN WILL BE INCLUDED WITH CURB CUT FOR ADDITIVE ALTERNATIVE.
6. TYPE OCP DI REFERENCES FLOW LINE OF SIDE OPENING. TOP OF LID IS 1.0 FOOT ABOVE FLOWLINE.
5. SEE UTILITY SHEETS FOR TREATMENT OF EXISTING FACILITIES.
4. CONTRACTOR SHALL POSITIVELY DETERMINE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTABILITY OF THE DRAINAGE SYSTEM AS SHOWN ON PLANS.
3. GRATE ELEVATIONS ARE GIVEN AT FLOW LINE AND DO NOT REPRESENT DEPRESSION FOR INLET.
2. CALL outs TO DRAINAGE STRUCTURES ARE REFERENCED TO CENTERLINE OF STRUCTURE AT FLOW LINE.
1. THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.
DRAINAGE SYSTEM No. 19
"EC" 59+00.00 THROUGH 59+42.00

DRAINAGE SYSTEM No. 37
"EC" 47+00.00 THROUGH 47+00.00

DRAINAGE SYSTEM No. 38
"EC" 47+50.00 THROUGH 47+50.00

NOTES:
1. THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.
2. CALL OUTS TO DRAINAGE STRUCTURES ARE REFERENCED TO CENTERLINE OF STRUCTURE AT FLOW LINE.
3. GRADE ELEVATIONS ARE GIVEN AT FLOW LINE AND DO NOT REPRESENT DEPRESSION FOR INLET.
4. CONTRACTOR SHALL POSITIVELY DETERMINE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITY LINES PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTABILITY OF THE DRAINAGE SYSTEM AS SHOWN ON PLANS.
5. SEE UTILITY SHEETS FOR TREATMENT OF EXISTING FACILITIES.
6. TYPE OGP OR REFERENCES FLOW LINE OF SIDE OPENING. TOP OF LID IS 1.0 FOOT ABOVE FLOWLINE.
7. SIDEWALK DRAIN WILL BE INCLUDED WITH CURB CUT FOR ADDITIVE ALTERNATIVE.
8. DRAINAGE PROFILE SHOWN IS LOOKING BACK STATIONING.

DRAINAGE PROFILE
SCALE: Horz: 1"=20'
Vert: 1"=10'

FL Elev 2027.81
16' X 90' APC

FL Elev 2027.41
35.84' Lt "EC" 59+72.00

FL Elev 2075.63
20.00' Lt "EC" 47+00.00

FL Elev 2072.18
37.27' Lt "EC" 47+50.00

FL Elev 2075.20
28.21' Lt "EC" 47+50.00

FL Elev 2075.28
37.27' Lt "EC" 47+50.00

FL Elev 2075.57
20.00' Lt "EC" 47+00.00

FL Elev 2075.49
28.21' Lt "EC" 47+00.00

FL Elev 2027.51
37.27' Lt "EC" 47+00.00

FL Elev 2075.29
37.27' Lt "EC" 47+50.00

FL Elev 2075.49
28.21' Lt "EC" 47+50.00

FL Elev 2027.81
16' X 90' APC

FL Elev 2027.41
35.84' Lt "EC" 59+72.00

FL Elev 2075.63
20.00' Lt "EC" 47+00.00

FL Elev 2072.18
37.27' Lt "EC" 47+50.00

FL Elev 2075.20
28.21' Lt "EC" 47+50.00

FL Elev 2075.28
37.27' Lt "EC" 47+50.00

FL Elev 2075.57
20.00' Lt "EC" 47+00.00

FL Elev 2075.49
28.21' Lt "EC" 47+00.00

FL Elev 2027.51
37.27' Lt "EC" 47+00.00

FL Elev 2075.29
37.27' Lt "EC" 47+50.00

FL Elev 2075.49
28.21' Lt "EC" 47+50.00

FL Elev 2027.81
16' X 90' APC
NOTES:
1. THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.
2. CALL OUTS TO DRAINAGE STRUCTURES ARE REFERENCED TO CENTERLINE OF STRUCTURE AT FLOW LINE.
3. GRADE ELEVATIONS ARE GIVEN AT FLOW LINE AND DO NOT REPRESENT DEPRESSION FOR INLET.
4. CONTRACTOR SHALL POSITIVELY DETERMINE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTABILITY OF THE DRAINAGE SYSTEM AS SHOWN ON PLANS.
5. SEE UTILITY SHEETS FOR TREATMENT OF EXISTING FACILITIES.
6. TYPE CCP DR REFERENCES FLOW LINE OF SIDE OPENING. TOP OF LID IS 1.0 FOOT ABOVE FLOWLINE.

DRAINAGE SYSTEM No. 25
"EC" 53+08.47 THROUGH 57+89.38

DRAINAGE SYSTEM No. 25
"EC" 52+36.98 THROUGH 53+08.47

DRAINAGE SYSTEM No. 25
"EC" 50+04.10 THROUGH 53+08.47

DRAINAGE PROFILES
SCALE: Horiz 1"=20' Vert 1"=10'

NOTES:
1. THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.
2. CALL OUTS TO DRAINAGE STRUCTURES ARE REFERENCED TO CENTERLINE OF STRUCTURE AT FLOW LINE.
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5. SEE UTILITY SHEETS FOR TREATMENT OF EXISTING FACILITIES.
6. TYPE OCP DI REFERENCES FLOW LINE OF SIDE OPENING. TOP OF LID IS 1.0 FOOT ABOVE FLOWLINE.

DRAINAGE SYSTEM No. 25
"EC" 57+51.27 THROUGH 57+51.67

DRAINAGE SYSTEM No. 25
"EC" 50+27.06 THROUGH 50+51.60

DRAINAGE SYSTEM No. 25
"EC" 59+57.19 THROUGH 59+57.19

DRAINAGE SYSTEM No. 25
"EC" 61+62.23 THROUGH 61+62.79

DRAINAGE SYSTEM No. 26
"P" 604+50.98 THROUGH 604+28.95

DRAINAGE PROFILE
SCALE: Horiz: 1"=20'
Vert: 1"=10'

NOTES:
1. THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.
2. CALL OUTS TO DRAINAGE STRUCTURES ARE REFERENCED TO CENTERLINE OF STRUCTURE AT FLOW LINE.
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5. SEE UTILITY SHEETS FOR TREATMENT OF EXISTING FACILITIES.
6. TYPE OCP D1 REFERENCES FLOW LINE OF SIDE OPENING. TOP OF LID IS 1.0 FOOT ABOVE FLOWLINE.

DRAINAGE SYSTEM No. 27
"299" 1205+99.00 THROUGH 1206+99.38

DRAINAGE SYSTEM No. 28
"EC" 21+45.00 THROUGH 21+45.00

DRAINAGE SYSTEM No. 29
"P" 602+55.63 THROUGH 602+55.63

DRAINAGE SYSTEM No. 34
"D" 1101+28.94 THROUGH 1101+24.04

DRAINAGE PROFILE
SCALE: Horiz 1"=20'  Vert 1"=10'

NOTES:

- LID IS 1.0 FOOT ABOVE FLOWLINE.
- TYPE OCP DI REFERENCES FLOW LINE OF SIDE OPENING. TOP OF LID IS 1.0 FOOT ABOVE FLOWLINE.

- CONTRACTOR SHALL POSITIVELY DETERMINE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTABILITY OF THE DRAINAGE SYSTEM AS SHOWN ON PLANS.

- SEE UTILITY SHEETS FOR TREATMENT OF EXISTING FACILITIES.

- TYPE OCP D1 REFERENCES FLOW LINE OF SIDE OPENING. TOP OF LID IS 1.0 FOOT ABOVE FLOWLINE.

- LID IS 1.0 FOOT ABOVE FLOWLINE.
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- SEE UTILITY SHEETS FOR TREATMENT OF EXISTING FACILITIES.

- TYPE OCP D1 REFERENCES FLOW LINE OF SIDE OPENING. TOP OF LID IS 1.0 FOOT ABOVE FLOWLINE.
Alternative Pipe Culverts

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<td>Size</td>
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<td>22&quot;</td>
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**Notes:**
1. For minimum allowable class of RCP see standard plan A620.
2. All reinforced concrete pipe shall be rubber gasketed joint type (RCP-RGJ).
3. Joints for all non RCP pipe material shall be standard joints.
4. Alternative flared end sections (AFES) shall be a compatible material with connected pipe material.

**Drainage Details DD-1**

- **Cut pipe flush to align with toe of slope, edge of biofiltration swale or edge of drainage ditch.**
- **Flared End Section - Plan View**
  - Length
  - Width
  - Diameter
  - Fabric Class
  - Placement Method
  - RSP Class
  - Fabric
  - No Scale

- **Section A-A**
  - See drainage profile to match FG surface in biofiltration swale and ditch locations

- **Section B-B**
  - See drainage profile to match FG surface in biofiltration swale and ditch locations

**RSP Data**

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<th>Placement Method</th>
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System 22:

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<td>SEE DD-6</td>
<td>LIGHT</td>
<td>METHOD B</td>
<td>CLASS 8</td>
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**Notes:**
1. Drainage 22 is 6' x 6' concrete box culvert.
2. Casings shall conform to FG surface.
3. Trim fabric if needed.
5. See drainage profile to match FG surface in biofiltration swale and ditch locations.
6. See drainage profile to match FG surface in biofiltration swale and ditch locations.
NOTES:
1. THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.
2. CONTRACTOR SHALL POSITIVELY DETERMINE HORIZONTAL AND
   VERTICAL LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION OF
   ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY
   CONSTRUCTABILITY OF THE DRAINAGE SYSTEM AS SHOWN ON PLANS.
3. FOR INFORMATION NOT SHOWN, SEE RESTORATION RESOURCES
   PLANTING PLANS AND LANDSCAPE DETAILS SHEETS.
4. STATION LIMITS SHOWN INDICATE PAY LIMITS OF FULL BIO-SWALE
   SECTIONS.  TRANSITIONS BETWEEN BIO-SWALE AND DITCHES ARE
   BEYOND THESE STATION RANGES.
5. FOR CHECK DAM LOCATIONS, SEE "DRAINAGE DETAILS DD-3" SHEET.
BIOFILTRATION SWALE TO V-DITCH TRANSITION

TOP OF BANK
BIOFILTRATION SWALE BOTTOM
DITCH BOTTOM

LOCATION OF BIOFILTRATION SWALE CHECK DAMS

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BIOSWALE

KEYED IN ON ALL SIDES 6" IN DEPTH
(TURF REINFORCEMENT MAT)
ROLLED EROSION CONTROL PRODUCT
IMPORTED CLAY

DRAINAGE DETAILS

NO SCALE

DD-3
**Profile**

- Scale: Horiz 1" = 10', Vert 1" = 5'
- Class 2 AB

**Elevation Details**

- FL Elev. 1994.83
- FL Elev. 1993.92
- S = 1.00%
- AB 1' CLASS 2

**Plan**

- Scale: 1" = 10'
- Notes:
  1. See Drainage Details DD-5 for Elevations Not Shown
  2. Refer to Drainage Details DD-1 for RSP Details and DD-6 for Additional Information About RSP Limits for System 22
  3. See Drainage Details DD-5 for Wingwall Details

**Typical Section**

- No Scale

**DRAINAGE DETAILS AS SHOWN DD-4**

- See RSP Limits Set Note 2
- See Note 2
- RSP (See Note 2)
NOTES:
1. FOR ADDITIONAL RSP INFORMATION, SEE DRAINAGE DETAILS SHEET DD-1

ACCESS CONTROL RACK NOTES:
1. FOR INFORMATION NOT SHOWN, SEE DRAINAGE DETAILS SHEET DD-1
2. USE CLASS "B" CONCRETE.
3. ENTIRE RACK TO BE MELDED REINFORCING STEEL OR ROUND BARS OF EQUAL DIAMETER.
4. ROOM SHALL BE PROVIDED DOWNSTREAM TO LAY RACK FLAT.
5. FASTEN LATCH BRACKET TO HEADWALL WITH 7/8" X 6" BOLTS WITH HEX NUTS, OR 7/8" EXPANSION SLETS.
7. FABRICATE HINGE BRACKETS FROM REBAR.
8. CHAMFER ALL EXPOSED EDGES OF CONCRETE.
9. ALL REINFORCING STEEL SHALL HAVE MINIMUM 2" COVER EXCEPTED AS NOTED.

TRASH RACK LINKAGE, SEE TABLE FOR SIZE OF SQUARE TUBING STOCK FOR FABRICATION

PIPE SIZE | BAR SIZE | BAR SPACING | LATCH PLATE BAR SIZE | LATCH LINKAGE SIZE
---|---|---|---|---
3" | 4" | 6" | 1" | 1.25"
NOTES:
1. ON ALL PIPE UP TO 30" ID USE FLEXIBLE COMPRESSION
   GASKET OR BOOT CONNECTOR CONFORMING TO ASTM C-923.
   CONNECTION SHALL BE WATER AND SOIL TIGHT.
2. LRP SHALL BE 1'-0" DEEP, MEASURED FROM INVERT OF
   OUTFLOW PIPE.
3. FLOWERS, CONES, AND ADJUSTING RINGS SHALL
   CONFORM TO ASTM C-476.
4. PRECAST MANHOLES SHALL BE SIZED TO PROVIDE THE FOLLOWING:
   BETWEEN CORED PIPE CONNECTION HOLES SHALL BE A MINIMUM
   OF 1/2" IF THE CONNECTION HOLES ARE CAST MONOLITHICALLY
   WITH THE MANHOLE BARREL, THE MEASUREMENT SHALL BE TAKEN
   FROM THE FINISHED CONCRETE CONNECTION SURFACE.
5. FOR FRAME AND COVER, SEE STANDARD PLAN B7-11, DETAIL UAS.
6. STATIONS AND OFFSETS GIVEN ON DRAINAGE PROFILES ARE TO THE
   CENTER OF THE MANHOLE, NOT TO THE CENTER OF COVER.

48" PRECAST CONCRETE PIPE MANHOLE

SYSTEM 26

SYSTEM 27

84" DIAMETER MANHOLE

SYSTEM 25

DRAINAGE DETAILS

NO SCALE

DD-7
NOTES:
1. THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.
2. CONTRACTOR SHALL POSITIVELY DETERMINE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTABILITY OF THE DRAINAGE SYSTEM AS SHOWN ON PLANS.

PLACE CONCRETE AGAINST APPROVED TROUGH AND GRATE.

LIP OF GUTTER  
LIP OF GUTTER  
LIP OF GUTTER  

SECTION A-A
CURB CUT PLAN

SECTION C-C
SIDEWALK DRAIN WITH CURB CUT PLAN

ADDITIVE ALTERNATIVE

SECTION B-B
CURB CUT

SECTION D-D
SIDEWALK DRAIN ALHAMBRA FOUNDRY TROUGH WITH GRATE OR APPROVED EQUAL

ADDITIVE ALTERNATIVE

SECTION E-E
RSP PLAN VIEW

* SEE DRAINAGE PROFILE TO MATCH FG SURFACE IN BIOFILTRATION SWALE AND DITCH LOCATIONS

CURB CUT RSP DATA

DRAINAGE SYSTEM | LENGTH LF | WIDTH LF | DEPTH LF | RSP CLASS | PLACEMENT METHOD | FABRIC CLASS
--- | --- | --- | --- | --- | --- | ---
14 | 14.0 | 3.0 | 1.25 | BACKING No. 2 | METHOD B | CLASS B
15 | 14.0 | 3.0 | 1.25 | BACKING No. 2 | METHOD B | CLASS B
35-42 | 14.0 | 3.0 | 1.25 | BACKING No. 2 | METHOD B | CLASS B

SIDEWALK DRAIN RSP DATA/ADDITIVE ALTERNATIVE

DRAINAGE SYSTEM | LENGTH LF | WIDTH LF | DEPTH LF | RSP CLASS | PLACEMENT METHOD | FABRIC CLASS
--- | --- | --- | --- | --- | --- | ---
14 | 9.5 | 3.0 | 1.25 | BACKING No. 2 | METHOD B | CLASS B
15 | 9.5 | 3.0 | 1.25 | BACKING No. 2 | METHOD B | CLASS B
35-42 | 9.5 | 3.0 | 1.25 | BACKING No. 2 | METHOD B | CLASS B

DRAINAGE DETAILS

NO SCALE

DD-9
<table>
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<tr>
<th>STATION</th>
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<th>DRAINAGE SYSTEM NO.</th>
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**For total quantity, see "Summary of Quantities". (N) not a separate pay item.**

**DRAINAGE QUANTITIES**

**DQ-1**

**DRAINAGE ITEMS**
### DRAINAGE ITEMS

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<th>REMOVE PIPE</th>
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**DRAINAGE QUANTITIES**

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**NOTES:**
- For total quantity, see "Summary of Quantities".
- (N) Not a separate pay item.
## DRAINAGE ITEMS

### DRAINAGE PLAN SHEET

| DRNAGE PLAN SHEET | DRAINAGE SYSTEM | DRAINAGE UNIT NO. | STATION | OFFSET | LF | CY | CY | CY | CY | CY | LF | LF | LF | LF | LF | LF | LF | LF | LF | LF | LF | LF | LF | CY | CY | CY | SOYD | LB | EA | EA |
|-------------------|-----------------|-------------------|---------|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                   |                 |                   |         |        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

### DRAINAGE ITEMS

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### DRAINAGE QUANTITIES

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*For total quantity, see "Summary of Quantities." (N) Not a separate pay item.
## DRAINAGE ITEMS

### DRAINAGE QUANTITIES

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*For total quantity, see “SUMMARY OF QUANTITIES”. (N) Not a separate pay item.

### DRAINAGE QUANTITIES

- 18" PVC DRAIN PIPE: 56.0 LF
- 6" PVC GRAIN INLET: 1.0 CY, 1.0 EA
- 6" PVC GRAIN INLET: 57.0 CY, 1.0 EA

*FOR TOTAL QUANTITY, SEE “SUMMARY OF QUANTITIES”. (N) NOT A SEPARATE PAY ITEM*
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<tr>
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**BIOSWALE ITEMS**

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<td>ea</td>
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**DRAINAGE QUANTITIES**

<table>
<thead>
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**CABLE RAILING**

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