BELL ROAD PROJECT DRAINAGE STUDY

Volume II

Hydrologic Modeling

Appendix B

Existing Conditions Q50 - Q100

FOR

MARICOPA COUNTY FLOOD CONTROL DISTRICT

PREPARED BY

GREINER ENGINEERING SCIENCES, INC.

PHOENIX, ARIZONA

September, 1986

Revised

October, 1987

CONTRACT FCD 86-20

PROJECT No. E123061

Greiner

With Schematic Diagram

Table 13

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
50 year, 24 hour Storm
Drainage Area 1

Property of
Flood Control District of MC Library
Please Return to
2801 W. Durango
Phoenix, AZ 85009

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q1001	47	12.83
ROUTED TO	R001	26	14.33
HYDROGRAPH AT	Q1002	69	12.83
2 COMBINED AT	C001	69	12.83
HYDROGRAPH AT	Q1003	48	12.83
HYDROGRAPH AT	Q1004	136	12.50

* Note: Refer to Hydrology Exhibit Sheet 7 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
INPUT
 LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

   12       Q1001
               V
               V
   23        R001
               .
               .
   26          .       Q1002
               .          .
               .          .
   31        C001............
               .
               .
   34          .       Q1003
               .          .
               .          .
   39          .          .       Q1004
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 13

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
50 year, 24 hour Storm
Drainage Area 2

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q2023	212	12.67
ROUTED TO	R001	211	12.67
HYDROGRAPH AT	Q2024	96	12.50
2 COMBINED AT	C001	306	12.67
ROUTED TO	R002	304	12.67
HYDROGRAPH AT	Q2025	149	12.67
2 COMBINED AT	C002	452	12.67
HYDROGRAPH AT	Q2026	58	12.50
ROUTED TO	R003	56	12.67
HYDROGRAPH AT	Q2027	396	12.67
3 COMBINED AT	C003	904	12.67
ROUTED TO	R004	898	12.67
HYDROGRAPH AT	Q2028	230	12.67
HYDROGRAPH AT	Q2029	415	12.67
3 COMBINED AT	C004	1543	12.67
ROUTED TO	R005	1541	12.67

* Note: Refer to Hydrology Exhibit Sheets 6 and 7 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
INPUT
 LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  12       Q2023
              V
              V
  24        R001
              .
              .
  27          .       Q2024
              .          .
              .          .
  32        C001............
              V
              V
  35        R002
              .
              .
  38          .       Q2025
              .          .
              .          .
  44        C002............
              .
              .
  47          .       Q2026
              .          V
              .          V
  52          .        R003
              .          .
              .          .
  55          .          .       Q2027
              .          .          .
              .          .          .
  61        C003........................
              V
              V
  64        R004
              .
              .
  67          .       Q2028
              .          .
              .          .
  73          .          .       Q2029
              .          .          .
              .          .          .
  79        C004........................
              V
              V
  82        R005
```

(AAA) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 13

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
50 year, 24 hour Storm
Drainage Area 2

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q2001	273	13.83
ROUTED TO	R001	260	14.50
HYDROGRAPH AT	Q2002	539	14.50
2 COMBINED AT	C001	799	14.50
DIVERSION TO	DIV1	80	14.50
HYDROGRAPH AT	D001	719	14.50
ROUTED TO	R002	717	14.50
HYDROGRAPH AT	Q2005	1031	12.67
2 COMBINED AT	C002	1105	12.67
ROUTED TO	RD001	0	0.17
HYDROGRAPH AT	Q2031	137	13.83
ROUTED TO	R003	136	14.17
HYDROGRAPH AT	Q2030	209	13.50
ROUTED TO	R004	207	13.67
HYDROGRAPH AT	Q2004	159	15.17
HYDROGRAPH AT	RR001	80	14.50
4 COMBINED AT	C003	512	14.17
ROUTED TO	R005	510	14.17
HYDROGRAPH AT	Q2006	288	14.33
2 COMBINED AT	C004	796	14.33
ROUTED TO	R006	796	14.33
2 COMBINED AT	C005	796	14.33
ROUTED TO	R007	793	14.50
HYDROGRAPH AT	Q2007	230	12.67
HYDROGRAPH AT	Q2008	209	12.67
3 COMBINED AT	C006	819	14.50
HYDROGRAPH AT	Q2010	35	12.67
ROUTED TO	R008	31	12.83
HYDROGRAPH AT	Q2009	301	12.67
2 COMBINED AT	C007	332	12.67
ROUTED TO	R008	329	12.67
2 COMBINED AT	C008	838	14.50

* Note: Refer to Hydrology Exhibit Sheets 6 and 7 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  12      Q2001
             V
             V
  23       R001
             .
             .
  26         .       Q2002
             .          .
             .          .
  31       C001............
             .
             .
  36         .------->    DIV1
  34       D001
             V
             V
  39       R002
             .
             .
  42         .       Q2005
             .          .
             .          .
  48       C002............
             V
             V
  51      RD001
             .
             .
  56         .       Q2031
             .          V
             .          V
  61         .        R003
             .          .
             .          .
  64         .          .      Q2030
             .          .         V
             .          .         V
  69         .          .       R004
             .          .         .
             .          .         .
  72         .          .         .      Q2004
             .          .         .         .
             .          .         .         .
  79         .          .         .         .          .<-------    DIV1
  77         .          .         .         .      RR001
             .          .         .         .          .
             .          .         .         .          .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
 80          .       C003.................................
             .         V
             .         V
 83          .       R005
             .         .
             .         .
 86          .         .      Q2006
             .         .          .
             .         .          .
 91          .       C004............
             .         V
             .         V
 94          .       R006
             .         .
             .         .
 97       C005............
             V
             V
100       R007
             .
             .
103          .      Q2007
             .         .
             .         .
108          .         .      Q2008
             .         .          .
             .         .          .
113       C006......................
             .
             .
116          .      Q2010
             .         V
             .         V
121          .       R008
             .         .
             .         .
124          .         .      Q2009
             .         .          .
             .         .          .
130          .       C007............
             .         V
             .         V
133          .       R008
             .         .
             .         .
136       C008............
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 13

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
50 year, 24 hour Storm
Drainage Area 2

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q2012	80	12.67
ROUTED TO	R001	79	12.67
HYDROGRAPH AT	Q2011	159	12.67
2 COMBINED AT	C001	237	12.67
ROUTED TO	R002	234	12.67
HYDROGRAPH AT	Q2013	135	12.67
HYDROGRAPH AT	Q2014	163	12.67
3 COMBINED AT	C002	532	12.67
ROUTED TO	R003	528	12.67
HYDROGRAPH AT	Q2015	69	12.67
HYDROGRAPH AT	Q2016	56	12.67
3 COMBINED AT	C003	653	12.67
HYDROGRAPH AT	Q2018	118	12.67
ROUTED TO	R004	117	12.67
HYDROGRAPH AT	Q2017	96	12.50
2 COMBINED AT	C004	212	12.67
ROUTED TO	R005	210	12.67
2 COMBINED AT	C005	864	12.67
ROUTED TO	R006	849	12.67
HYDROGRAPH AT	Q2019	113	12.67
2 COMBINED AT	C006	961	12.67
ROUTED TO	R007	946	12.67
HYDROGRAPH AT	Q2020	165	13.50
2 COMBINED AT	C007	1023	12.67
ROUTED TO	R008	993	12.67
ROUTED TO	R009	985	12.83
HYDROGRAPH AT	Q2021	114	12.50
ROUTED TO	R010	113	12.67
HYDROGRAPH AT	Q2022	518	12.67
3 COMBINED AT	C008	1565	12.67
ROUTED TO	R011	1554	12.67

A Note: Refer to Hydrology Exhibit Sheets 6 and 7 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  12      Q2012
             V
             V
  24       R001
             .
             .
  27         .       Q2011
             .          .
             .          .
  33       C001............
             V
             V
  36       R002
             .
             .
  39         .       Q2013
             .          .
             .          .
  45         .          .       Q2014
             .          .          .
             .          .          .
  51       C002......................
             V
             V
  54       R003
             .
             .
  57         .       Q2015
             .          .
             .          .
  63         .          .       Q2016
             .          .          .
             .          .          .
  69       C003......................
             .
             .
  72         .       Q2018
             .          V
             .          V
  78         .       R004
             .          .
             .          .
  81         .          .       Q2017
             .          .          .
             .          .          .
  86         .       C004............
             .          V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .          V
 89             .       R005
                .          .
                .          .
 92         C005............
                V
                V
 95         R006
                .
                .
 98             .      Q2019
                .          .
                .          .
104         C006............
                V
                V
107         R007
                .
                .
110             .      Q2020
                .          .
                .          .
115         C007............
                V
                V
118         R008
                V
                V
121         R009
                .
                .
124             .      Q2021
                .          V
                .          V
129             .       R010
                .          .
                .          .
132             .          .      Q2022
                .          .          .
                .          .          .
138         C008........................
                V
                V
141         R011
```

(AAA) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 13

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
50 year, 24 hour Storm
Drainage Area 3

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q3101	135	12.67
ROUTED TO	R3101	124	12.83
HYDROGRAPH AT	Q3102	136	12.67
ROUTED TO	R3102	126	12.83
HYDROGRAPH AT	Q3103	136	12.67
ROUTED TO	R3103	128	12.67
HYDROGRAPH AT	Q3104	61	13.17
4 COMBINED AT	C75TH	414	12.83
HYDROGRAPH AT	Q3105	266	12.67
ROUTED TO	R3105	184	14.00
HYDROGRAPH AT	Q3106	17	16.83
2 COMBINED AT	C56	189	14.00

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
INPUT
 LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  10       Q3101
               V
               V
  22       R3101
               .
               .
  25           .       Q3102
               .           V
               .           V
  31           .       R3102
               .           .
               .           .
  34           .           .       Q3103
               .           .           V
               .           .           V
  40           .           .       R3103
               .           .           .
               .           .           .
  43           .           .           .       Q3104
               .           .           .           .
               .           .           .           .
  48       C75TH.................................
               .
               .
  51           .       Q3105
               .           V
               .           V
  57           .       R3105
               .           V
               ..          V
  60           .       Q3106
               .           .
               .           .
  66         C56............
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 13

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
50 year, 24 hour Storm
Drainage Area 4

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q4001	42	13.17
HYDROGRAPH AT	R5001	29	12.00
HYDROGRAPH AT	R5003	29	12.00
3 COMBINED AT	C001	100	13.17
ROUTED TO	R001	100	13.17
HYDROGRAPH AT	Q4002	90	13.67
2 COMBINED AT	C002	183	13.50
DIVERSION TO	DIV02	55	13.50
HYDROGRAPH AT	D002	128	13.50
ROUTED TO	R002	127	13.50
HYDROGRAPH AT	Q4003	39	13.00
DIVERSION TO	DIV03	12	13.00
HYDROGRAPH AT	D003	28	13.00
ROUTED TO	R003	27	13.00
HYDROGRAPH AT	Q4004	38	13.17
3 COMBINED AT	C004	183	13.33
DIVERSION TO	DIV04	55	13.33
HYDROGRAPH AT	D004	128	13.33
ROUTED TO	R004	127	13.33
HYDROGRAPH AT	Q4005	61	12.67
HYDROGRAPH AT	RR003	12	13.00
ROUTED TO	RD003	12	13.00
2 COMBINED AT	C005	70	12.67
ROUTED TO	R005	67	12.67
HYDROGRAPH AT	Q4006	70	12.67
3 COMBINED AT	C006	218	12.67
DIVERSION TO	DIV06	44	12.67
HYDROGRAPH AT	D006	174	12.67
ROUTED TO	R006	168	12.67
HYDROGRAPH AT	Q4007	45	12.83
DIVERSION TO	DIV07	13	12.83
HYDROGRAPH AT	D007	31	12.83
ROUTED TO	R007	30	12.83
HYDROGRAPH AT	Q4008	35	13.00
3 COMBINED AT	C008	229	12.83
DIVERSION TO	DIV08	69	12.83
HYDROGRAPH AT	D008	161	12.83
ROUTED TO	R008	159	12.83
HYDROGRAPH AT	Q4009	34	12.83
HYDROGRAPH AT	RR007	13	12.83
ROUTED TO	RD007	13	13.00
2 COMBINED AT	C009	47	12.83
ROUTED TO	R009	46	12.83

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q4010	39	12.83
3 COMBINED AT	C010	244	12.83
DIVERSION TO	DIV10	73	12.83
HYDROGRAPH AT	D010	171	12.83
ROUTED TO	R010	167	13.00
HYDROGRAPH AT	Q4011	62	13.33
2 COMBINED AT	C011	219	13.00
DIVERSION TO	DIV11	44	13.00
HYDROGRAPH AT	D011	176	13.00
ROUTED TO	R0111	173	13.00
DIVERSION TO	DIV12	35	13.00
HYDROGRAPH AT	D012	138	13.00
ROUTED TO	R0112	138	13.17
HYDROGRAPH AT	Q4012	46	13.17
2 COMBINED AT	C012	184	13.17
ROUTED TO	R012	182	13.17
HYDROGRAPH AT	Q4013	19	13.17
2 COMBINED AT	C013	201	13.17
DIVERSION TO	DIV13	201	0.17
HYDROGRAPH AT	D013	0	0.17
HYDROGRAPH AT	Q4014	25	13.00
ROUTED TO	R014	25	13.00
HYDROGRAPH AT	Q4015	41	12.67
HYDROGRAPH AT	R5006	479	12.50
HYDROGRAPH AT	R5007	794	13.00
4 COMBINED AT	C015	1316	13.00
ROUTED TO	R015	1263	13.00
HYDROGRAPH AT	Q4016	79	12.67
ROUTED TO	R016	77	12.67
HYDROGRAPH AT	Q4017	81	12.67
3 COMBINED AT	C017	1308	13.00
ROUTED TO	R017	1235	13.00
HYDROGRAPH AT	Q4018	79	12.67
HYDROGRAPH AT	RR002	55	13.50
ROUTED TO	RD002	54	13.50
2 COMBINED AT	C018	111	12.67
ROUTED TO	R018	107	12.67
HYDROGRAPH AT	Q4019	72	12.67
3 COMBINED AT	C019	1324	13.00
DIVERSION TO	DIV19	199	13.00
HYDROGRAPH AT	D019	1126	13.00
ROUTED TO	R019	1107	13.17
HYDROGRAPH AT	Q4020	75	12.67
HYDROGRAPH AT	RR004	55	13.33
ROUTED TO	RD004	55	13.33
2 COMBINED AT	C020	108	12.67
DIVERSION TO	DIV20	32	12.67
HYDROGRAPH AT	D020	75	12.67
ROUTED TO	R020	71	12.67
HYDROGRAPH AT	Q4021	78	12.67
3 COMBINED AT	C021	1167	13.00
ROUTED TO	R021	1165	13.17

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q4022	64	12.67
HYDROGRAPH AT	RR006	44	12.67
ROUTED TO	RD006	42	12.83
HYDROGRAPH AT	RR020	32	12.67
ROUTED TO	RD020	30	12.67
3 COMBINED AT	C022	134	12.67
DIVERSION TO	DIV22	27	12.67
HYDROGRAPH AT	D022	107	12.67
ROUTED TO	R022	103	12.67
HYDROGRAPH AT	Q4023	92	12.67
3 COMBINED AT	C023	1236	13.17
DIVERSION TO	DIV23	185	13.17
HYDROGRAPH AT	D023	1051	13.17
ROUTED TO	R023	1049	13.17
HYDROGRAPH AT	Q4024	63	12.67
HYDROGRAPH AT	RR008	69	12.83
ROUTED TO	RD008	68	12.83
HYDROGRAPH AT	RR022	27	12.67
ROUTED TO	RD022	25	12.83
3 COMBINED AT	C024	150	12.67
DIVERSION TO	DIV24	45	12.67
HYDROGRAPH AT	D024	105	12.67
ROUTED TO	R024	99	12.67
HYDROGRAPH AT	Q4025	66	12.67
3 COMBINED AT	C025	1137	13.17
ROUTED TO	R025	1136	13.17
HYDROGRAPH AT	Q4026	61	12.67
HYDROGRAPH AT	RR010	73	12.83
ROUTED TO	RD010	71	12.83
HYDROGRAPH AT	RR024	45	12.67
ROUTED TO	RD024	43	12.83
3 COMBINED AT	C026	165	12.67
DIVERSION TO	DIV26	50	12.67
HYDROGRAPH AT	D026	116	12.67
ROUTED TO	R026	111	12.83
HYDROGRAPH AT	Q4027	60	12.67
3 COMBINED AT	C027	1243	13.00
ROUTED TO	R027	1238	13.00
HYDROGRAPH AT	Q4028	57	12.67
HYDROGRAPH AT	RR026	50	12.67
ROUTED TO	RD026	48	12.83
2 COMBINED AT	C028	103	12.67
DIVERSION TO	DIV28	31	12.67
HYDROGRAPH AT	D028	72	12.67
ROUTED TO	R028	66	12.83
HYDROGRAPH AT	Q4029	58	12.67
3 COMBINED AT	C029	1318	13.00
ROUTED TO	R029	1318	13.00
HYDROGRAPH AT	Q4030	54	12.67
HYDROGRAPH AT	RR011	44	13.00
ROUTED TO	RD011	43	13.17
HYDROGRAPH AT	RR028	31	12.67

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
ROUTED TO	RD028	29	12.83
3 COMBINED AT	C030	110	12.67
ROUTED TO	R030	109	12.83
HYDROGRAPH AT	Q4031	56	12.67
3 COMBINED AT	C031	1470	12.83
ROUTED TO	R031	1464	12.83
HYDROGRAPH AT	Q4032	108	12.67
2 COMBINED AT	C032	1536	12.83
ROUTED TO	R032	1530	12.83
HYDROGRAPH AT	Q4033	133	12.67
HYDROGRAPH AT	RR012	35	13.00
ROUTED TO	RD012	34	13.17
2 COMBINED AT	C033	155	12.67
ROUTED TO	R033	145	12.67
HYDROGRAPH AT	Q4034	81	12.67
3 COMBINED AT	C034	1710	12.83
ROUTED TO	R034	1704	12.83
HYDROGRAPH AT	Q4035	70	12.67
2 COMBINED AT	C035	1755	12.83
ROUTED TO	R035	1747	12.83
HYDROGRAPH AT	Q4036	40	13.33
ROUTED TO	R036	39	13.50
HYDROGRAPH AT	Q4037	64	12.67
3 COMBINED AT	C037	1814	12.83
ROUTED TO	R037	1758	12.83
DIVERSION TO	DIV37S	1758	0.17
HYDROGRAPH AT	D037S	0	0.17
HYDROGRAPH AT	RR019	199	13.00
HYDROGRAPH AT	RR023	185	13.17

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  11      Q4001
             .
             .
  22         .       R5001
             .          .
             .          .
  56         .          .      R5003
             .          .          .
             .          .          .
  89      C001.......................
             V
             V
  93      R001
             .
             .
  96         .       Q4002
             .          .
             .          .
 101      C002............
             .
             .
 106         .------->   DIV02
 104      D002
             V
             V
 109      R002
             .
             .
 112         .       Q4003
             .          .
             .          .
 119         .          .------->   DIV03
 117         .        D003
             .          V
             .          V
 122         .        R003
             .          .
             .          .
 125         .          .      Q4004
             .          .          .
             .          .          .
 130      C004.......................
             .
             .
 135         .------->   DIV04
 133      D004
             V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

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                V
138         R004
                .
                .
141             .       Q4005
                .           .
                .           .
149             .           .           .<-------   DIV03
147             .           .       RR003
                .           .           V
                .           .           V
150             .           .       RD003
                .           .           .
                .           .           .
153             .        C005............
                .           V
                .           V
156             .        R005
                .           .
                .           .
159             .           .       Q4006
                .           .           .
                .           .           .
165         C006........................
                .
                .
170             .------->   DIV06
168         D006
                V
                V
173         R006
                .
                .
176             .       Q4007
                .           .
                .           .
183             .           .------->   DIV07
181             .        D007
                .           V
                .           V
186             .        R007
                .           .
                .           .
189             .           .       Q4008
                .           .           .
                .           .           .
194         C008........................
                .
                .
199             .------->   DIV08
197         D008
                V
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Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

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                V
202          R008
                .
                .
205             .        Q4009
                .            .
                .            .
212             .            .          .<-------   DIV07
210             .            .       RR007
                .            .          V
                .            .          V
213             .            .       RD007
                .            .          .
                .            .          .
216             .         C009............
                .            V
                .            V
219             .         R009
                .            .
                .            .
222             .            .       Q4010
                .            .          .
                .            .          .
227          C010........................
                .
                .
232             .------->   DIV10
230          D010
                V
                V
235          R010
                .
                .
238             .        Q4011
                .            .
                .            .
243          C011............
                .
                .
248             .------->   DIV11
246          D011
                V
                V
251         R0111
                .
                .
256             .------->   DIV12
254          D012
                V
                V
259         R0112
                .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .
262             .      Q4012
                .          .
                .          .
267          C012............
                V
                V
270          R012
                .
                .
273             .      Q4013
                .          .
                .          .
278          C013............
                .
                .
283             .-------> DIV13
281          D013
                .
                .
286             .      Q4014
                .          V
                .          V
291             .       R014
                .          .
                .          .
294             .          .      Q4015
                .          .          .
                .          .          .
300             .          .          .      R5006
                .          .          .          .
                .          .          .          .
334             .          .          .          .      R5007
                .          .          .          .          .
                .          .          .          .          .
367             .       C015.................................
                .          V
                .          V
371             .       R015
                .          .
                .          .
374             .          .      Q4016
                .          .          V
                .          .          V
380             .          .       R016
                .          .          .
                .          .          .
383             .          .          .      Q4017
                .          .          .          .
                .          .          .          .
389             .       C017......................
                .          V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .        V
392             .      R017
                .        .
                .        .
395             .        .      Q4018
                .        .        .
                .        .        .
403             .        .        .          .<-------   DIV02
401             .        .        .      RK002
                .        .        .          V
                .        .        .          V
404             .        .        .      RD002
                .        .        .          .
                .        .        .          .
407             .        .      C018............
                .        .        V
                .        .        V
410             .        .      R018
                .        .        .
                .        .        .
413             .        .        .      Q4019
                .        .        .          .
                .        .        .          .
419             .      C019........................
                .        .
                .        .
424             .        .------->   DIV19
422             .      D019
                .        V
                .        V
427             .      R019
                .        .
                .        .
430             .        .      Q4020
                .        .        .
                .        .        .
438             .        .        .          .<-------   DIV04
436             .        .        .      RR004
                .        .        .          V
                .        .        .          V
439             .        .        .      RD004
                .        .        .          .
                .        .        .          .
442             .        .      C020............
                .        .        .
                .        .        .
447             .        .        .------->   DIV20
445             .        .      D020
                .        .        V
                .        .        V
450             .        .      R020
                .        .        .
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Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

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                .          .          .
453             .          .          .      Q4021
                .          .          .          .
                .          .          .          .
459             .       C021.......................
                .          V
                .          V
462             .       R021
                .          .
                .          .
465             .          .      Q4022
                .          .          .
                .          .          .
473             .          .          .          .<-------   DIV06
471             .          .          .      RR006
                .          .          .          V
                .          .          .          V
474             .          .          .      RD006
                .          .          .          .
                .          .          .          .
479             .          .          .          .          .<-------   DIV20
477             .          .          .          .      RR020
                .          .          .          .          V
                .          .          .          .          V
480             .          .          .          .      RD020
                .          .          .          .          .
                .          .          .          .          .
483             .          .       C022.......................
                .          .          .
                .          .          .
488             .          .          .------->   DIV22
486             .          .       D022
                .          .          V
                .          .          V
491             .          .       R022
                .          .          .
                .          .          .
494             .          .          .      Q4023
                .          .          .          .
                .          .          .          .
500             .       C023.......................
                .          .
                .          .
505             .          .------->   DIV23
503             .       D023
                .          V
                .          V
508             .       R023
                .          .
                .          .
511             .          .      Q4024
                .          .          .
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Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

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                .         .         .
519             .         .         .         .<-------   DIV08
517             .         .         .      RR008
                .         .         .         V
                .         .         .         V
520             .         .         .      RD008
                .         .         .         .
                .         .         .         .
525             .         .         .         .         .<-------   DIV22
523             .         .         .         .      RR022
                .         .         .         .         V
                .         .         .         .         V
526             .         .         .         .      RD022
                .         .         .         .         .
                .         .         .         .         .
529             .         .      C024.......................
                .         .         .
                .         .         .
534             .         .         .------->   DIV24
532             .         .      D024
                .         .         V
                .         .         V
537             .         .      R024
                .         .         .
                .         .         .
540             .         .         .      Q4025
                .         .         .         .
                .         .         .         .
546             .      C025.......................
                .         V
                .         V
549             .      R025
                .         .
                .         .
552             .         .   Q4026
                .         .         .
                .         .         .
560             .         .         .         .<-------   DIV10
558             .         .         .      RR010
                .         .         .         V
                .         .         .         V
561             .         .         .      RD010
                .         .         .         .
                .         .         .         .
566             .         .         .         .         .<-------   DIV24
564             .         .         .         .      RR024
                .         .         .         .         V
                .         .         .         .         V
567             .         .         .         .      RD024
                .         .         .         .         .
                .         .         .         .         .
570             .         .      C026.......................
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Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

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                .         .         .
                .         .         .
575             .         .         .-------> DIV26
573             .         .      D026
                .         .         V
                .         .         V
578             .         .      R026
                .         .         .
                .         .         .
581             .         .         .      Q4027
                .         .         .         .
                .         .         .         .
587             .      C027.......................
                .         V
                .         V
590             .      R027
                .         .
                .         .
593             .         .      Q4028
                .         .         .
                .         .         .
601             .         .         .         .<-------  DIV26
599             .         .         .      RR026
                .         .         .         V
                .         .         .         V
602             .         .         .      RD026
                .         .         .         .
                .         .         .         .
605             .         .      C028............
                .         .         .
                .         .         .
610             .         .         .-------> DIV28
608             .         .      D028
                .         .         V
                .         .         V
613             .         .      R028
                .         .         .
                .         .         .
616             .         .         .      Q4029
                .         .         .         .
                .         .         .         .
622             .      C029.......................
                .         V
                .         V
625             .      R029
                .         .
                .         .
628             .         .      Q4030
                .         .         .
                .         .         .
636             .         .         .         .<-------  DIV11
634             .         .         .      RR011
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Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

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                 .         .         .         V
                 .         .         .         V
637              .         .         .      RD011
                 .         .         .         .
                 .         .         .         .
642              .         .         .         .         .<-------   DIV28
640              .         .         .         .      RR028
                 .         .         .         .         V
                 .         .         .         .         V
643              .         .         .         .      RD028
                 .         .         .         .         .
                 .         .         .         .         .
646              .         .       C030.......................
                 .         .         V
                 .         .         V
649              .         .       R030
                 .         .         .
                 .         .         .
652              .         .         .      Q4031
                 .         .         .         .
                 .         .         .         .
658              .       C031.......................
                 .         V
                 .         V
661              .       R031
                 .         .
                 .         .
664              .         .      Q4032
                 .         .         .
                 .         .         .
670              .       C032............
                 .         V
                 .         V
673              .       R032
                 .         .
                 .         .
676              .         .      Q4033
                 .         .         .
                 .         .         .
684              .         .         .         .<-------   DIV12
682              .         .         .      RR012
                 .         .         .         V
                 .         .         .         V
685              .         .         .      RD012
                 .         .         .         .
                 .         .         .         .
688              .         .       C033............
                 .         .         V
                 .         .         V
691              .         .       R033
                 .         .         .
                 .         .         .
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Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

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694          .          .          .      Q4034
             .          .          .          .
             .          .          .          .
700          .       C034.......................
             .          V
             .          V
703          .       R034
             .          .
             .          .
706          .          .      Q4035
             .          .          .
             .          .          .
712          .       C035............
             .          V
             .          V
715          .       R035
             .          .
             .          .
718          .          .      Q4036
             .          .          V
             .          .          V
723          .          .       R036
             .          .          .
             .          .          .
726          .          .          .      Q4037
             .          .          .          .
             .          .          .          .
732          .       C037.......................
             .          V
             .          V
735          .       R037
             .          .
             .          .
740          .          .-------> DIV37S
738          .      D037S
             .          .
             .          .
746          .          .          .<-------   DIV19
743          .          .      RR019
             .          .          .
             .          .          .
750          .          .          .          .<-------   DIV23
747          .          .          .      RR023
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 13

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
50 year, 24 hour Storm
Drainage Area 4

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q4038	26	12.83
ROUTED TO	R038	25	12.83
HYDROGRAPH AT	R5013	25	12.00
ROUTED TO	RD5013	25	12.17
HYDROGRAPH AT	Q4039	37	12.67
3 COMBINED AT	C039	85	12.67
ROUTED TO	R039	82	12.67
HYDROGRAPH AT	Q4041	74	12.67
2 COMBINED AT	C041	156	12.67
DIVERSION TO	DIV41	47	12.67
HYDROGRAPH AT	D041	109	12.67
ROUTED TO	R041	106	12.67
HYDROGRAPH AT	Q4040	72	12.67
ROUTED TO	R040	71	12.67
HYDROGRAPH AT	Q4042	94	12.67
HYDROGRAPH AT	RR019	198	13.00
ROUTED TO	RD019	195	13.17
3 COMBINED AT	C042	293	12.67
DIVERSION TO	DIV42	88	12.67
HYDROGRAPH AT	D042	205	12.67
ROUTED TO	R042	203	12.67
HYDROGRAPH AT	Q4043	88	12.67
3 COMBINED AT	C043	397	12.67
DIVERSION TO	DIV43	119	12.67
HYDROGRAPH AT	D043	278	12.67
ROUTED TO	R043	273	12.67
HYDROGRAPH AT	Q4044	81	12.67
HYDROGRAPH AT	RR042	88	12.67
ROUTED TO	RD042	87	12.67
2 COMBINED AT	C044	168	12.67
DIVERSION TO	DIV44	50	12.67
HYDROGRAPH AT	D044	118	12.67
ROUTED TO	R044	116	12.67
HYDROGRAPH AT	Q4045	83	12.67
3 COMBINED AT	C045	472	12.67
ROUTED TO	R045	466	12.67
HYDROGRAPH AT	Q4046	72	12.67
HYDROGRAPH AT	RR023	185	13.17
ROUTED TO	RD023	184	13.17
HYDROGRAPH AT	RR044	50	12.67
ROUTED TO	RD044	49	12.67
3 COMBINED AT	C046	276	12.67
DIVERSION TO	DIV46	83	12.67

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	D046	193	12.67
ROUTED TO	R046	187	12.67
HYDROGRAPH AT	Q4047	81	12.67
3 COMBINED AT	C047	734	12.67
DIVERSION TO	DIV47	220	12.67
HYDROGRAPH AT	D047	513	12.67
ROUTED TO	R047	499	12.67
HYDROGRAPH AT	Q4065	23	12.67
ROUTED TO	R065	20	12.83
HYDROGRAPH AT	Q4068	117	12.67
3 COMBINED AT	C068	632	12.67
ROUTED TO	R068	619	12.67
HYDROGRAPH AT	Q4062	80	13.17
HYDROGRAPH AT	RR041	47	12.67
2 COMBINED AT	C0621	106	12.83
ROUTED TO	R062	105	12.83
HYDROGRAPH AT	Q4063	55	12.67
HYDROGRAPH AT	RR043	119	12.67
ROUTED TO	RD043	117	12.67
2 COMBINED AT	C063	172	12.67
ROUTED TO	R063	167	12.67
HYDROGRAPH AT	Q4064	68	12.67
3 COMBINED AT	C064	331	12.67
ROUTED TO	R064	322	12.67
HYDROGRAPH AT	Q4066	77	12.67
2 COMBINED AT	C066	399	12.67
DIVERSION TO	DIV66	120	12.67
HYDROGRAPH AT	D066	279	12.67
ROUTED TO	R066	272	12.67
HYDROGRAPH AT	Q4067	63	12.67
2 COMBINED AT	C067	334	12.67
DIVERSION TO	DIV67	100	12.67
HYDROGRAPH AT	D067	234	12.67
ROUTED TO	R067	225	12.67
HYDROGRAPH AT	Q4069	88	12.67
3 COMBINED AT	C069	932	12.67
DIVERSION TO	DIV69W	280	12.67
HYDROGRAPH AT	D069W	653	12.67
DIVERSION TO	DIV69S	653	0.17
HYDROGRAPH AT	D069S	0	0.17
HYDROGRAPH AT	Q4048	107	12.67
HYDROGRAPH AT	RR046	83	12.67
ROUTED TO	RD046	80	12.67
2 COMBINED AT	C048	187	12.67
DIVERSION TO	DIV48	56	12.67
HYDROGRAPH AT	D048	131	12.67
ROUTED TO	R048	127	12.67
HYDROGRAPH AT	Q4049	67	12.67
HYDROGRAPH AT	RR047	220	12.67
ROUTED TO	RD047	214	12.67
3 COMBINED AT	C049	408	12.67
DIVERSION TO	DIV49	122	12.67

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	D049	285	12.67
ROUTED TO	R049	277	12.67
HYDROGRAPH AT	Q4050	60	12.67
HYDROGRAPH AT	RR048	56	12.67
ROUTED TO	RD048	54	12.67
2 COMBINED AT	C050	114	12.67
ROUTED TO	R050	110	12.67
HYDROGRAPH AT	Q4051	69	12.67
3 COMBINED AT	C051	457	12.67
DIVERSION TO	DIV51	137	12.67
HYDROGRAPH AT	D051	320	12.67
ROUTED TO	R051	310	12.67
HYDROGRAPH AT	Q4052	72	12.67
DIVERSION TO	DIV52	22	12.67
HYDROGRAPH AT	D052	51	12.67
ROUTED TO	R052	48	12.67
HYDROGRAPH AT	Q4053	85	12.67
3 COMBINED AT	C053	443	12.67
DIVERSION TO	DIV53	133	12.67
HYDROGRAPH AT	D053	310	12.67
ROUTED TO	R053	300	12.67
HYDROGRAPH AT	Q4054	59	12.67
HYDROGRAPH AT	RR052	22	12.67
ROUTED TO	RD052	20	12.67
2 COMBINED AT	C054	79	12.67
ROUTED TO	R054	76	12.67
HYDROGRAPH AT	Q4055	67	12.67
3 COMBINED AT	C055	443	12.67
DIVERSION TO	DIV55	133	12.67
HYDROGRAPH AT	D055	310	12.67
ROUTED TO	R055	296	12.67
HYDROGRAPH AT	Q4076	80	12.67
2 COMBINED AT	C076	376	12.67
ROUTED TO	R076	370	12.67
HYDROGRAPH AT	Q4077	31	12.67
2 COMBINED AT	C077	401	12.67
ROUTED TO	R077	390	12.67
HYDROGRAPH AT	Q4070	71	12.67
HYDROGRAPH AT	RR049	122	12.67
ROUTED TO	RD049	118	12.67
2 COMBINED AT	C070	188	12.67
DIVERSION TO	DIV70	57	12.67
HYDROGRAPH AT	D070	132	12.67
ROUTED TO	R070	127	12.67
HYDROGRAPH AT	Q4072	71	12.67
HYDROGRAPH AT	RR051	137	12.67
ROUTED TO	RD051	131	12.67
3 COMBINED AT	C072	330	12.67
DIVERSION TO	DIV72	99	12.67
HYDROGRAPH AT	D072	231	12.67
ROUTED TO	R072	221	12.67
HYDROGRAPH AT	Q4071	98	12.67

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	RR069	280	12.67
ROUTED TO	RD069	268	12.67
HYDROGRAPH AT	RR070	57	12.67
ROUTED TO	RD070	52	12.83
3 COMBINED AT	C071	417	12.67
ROUTED TO	R071	402	12.67
HYDROGRAPH AT	Q4073	77	12.67
3 COMBINED AT	C073	700	12.67
DIVERSION TO	DIV73	210	12.67
HYDROGRAPH AT	D073	490	12.67
ROUTED TO	R073	473	12.67
HYDROGRAPH AT	Q4074	71	12.67
HYDROGRAPH AT	RR053	133	12.67
ROUTED TO	RD053	127	12.67
HYDROGRAPH AT	RR072	99	12.67
ROUTED TO	RD072	94	12.67
3 COMBINED AT	C074	292	12.67
ROUTED TO	R074	280	12.67
HYDROGRAPH AT	Q4075	70	12.67
3 COMBINED AT	C075	823	12.67
ROUTED TO	R075	808	12.67
HYDROGRAPH AT	Q4078	29	12.67
2 COMBINED AT	C078	837	12.67
ROUTED TO	R078	823	12.67
HYDROGRAPH AT	Q4079	21	12.67
3 COMBINED AT	C079	1234	12.67
DIVERSION TO	DIV79W	370	12.67
HYDROGRAPH AT	D079W	864	12.67
DIVERSION TO	DIV79S	864	0.17
HYDROGRAPH AT	D079S	0	0.17
HYDROGRAPH AT	Q4058	72	12.67
DIVERSION TO	DIV58	22	12.67
HYDROGRAPH AT	D058	51	12.67
ROUTED TO	R058	48	12.67
HYDROGRAPH AT	Q4059	81	12.67
2 COMBINED AT	C059	129	12.67
ROUTED TO	R059	125	12.67
HYDROGRAPH AT	Q4060	28	13.00
HYDROGRAPH AT	RR058	22	12.67
ROUTED TO	RD058	20	12.67
2 COMBINED AT	C060	44	12.83
ROUTED TO	R060	42	12.83
HYDROGRAPH AT	Q4061	51	12.67
3 COMBINED AT	C061	213	12.67
DIVERSION TO	DIV61	64	12.67
HYDROGRAPH AT	D061	149	12.67
ROUTED TO	R061	138	12.67
HYDROGRAPH AT	Q4083	64	12.67
2 COMBINED AT	C083	202	12.67
ROUTED TO	R083	196	12.83
HYDROGRAPH AT	Q4056	146	12.67
ROUTED TO	SR056	2	24.33

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q4080	64	12.67
HYDROGRAPH AT	RR055	133	12.67
ROUTED TO	RD055	125	12.67
3 COMBINED AT	C080	189	12.67
ROUTED TO	SR080	0	0.17
HYDROGRAPH AT	Q4057	112	12.67
ROUTED TO	SR057	1	25.67
HYDROGRAPH AT	Q4082	93	12.67
3 COMBINED AT	C082	93	12.67
ROUTED TO	SR082	0	0.17
HYDROGRAPH AT	Q4084	64	12.67
2 COMBINED AT	C0841	64	12.67
ROUTED TO	SR084	0	0.17
ROUTED TO	R0841	0	0.17
2 COMBINED AT	C0842	196	12.83
ROUTED TO	R0842	195	12.83
HYDROGRAPH AT	Q4081	114	12.67
HYDROGRAPH AT	RR079	370	12.67
ROUTED TO	RD079	362	12.83
2 COMBINED AT	C081	461	12.67
ROUTED TO	R0811	438	12.67
DIVERSION TO	DIV81	132	12.67
HYDROGRAPH AT	D081	307	12.67
ROUTED TO	R0812	306	12.83
HYDROGRAPH AT	Q4085	82	12.67
2 COMBINED AT	C085	367	12.67
DIVERSION TO	DIV85	110	12.67
HYDROGRAPH AT	D085	257	12.67
ROUTED TO	R085	253	12.83
HYDROGRAPH AT	Q4086	62	12.67
3 COMBINED AT	C086	494	12.83
DIVERSION TO	DIV86W	148	12.83
HYDROGRAPH AT	D086W	346	12.83
DIVERSION TO	DIV86S	346	0.17
HYDROGRAPH AT	D086S	0	0.17
HYDROGRAPH AT	RR061	64	12.67
HYDROGRAPH AT	RR086	148	12.83

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  11      Q4038
             V
             V
  22       R038
             .
             .
  25         .       R5013
             .          V
             .          V
  59         .      RD5013
             .          .
             .          .
  63         .          .       Q4039
             .          .          .
             .          .          .
  69       C039.......................
             V
             V
  72       R039
             .
             .
  75         .       Q4041
             .          .
             .          .
  81       C041............
             .
             .
  86         .------->   DIV41
  84       D041
             V
             V
  89       R041
             .
             .
  92         .       Q4040
             .          V
             .          V
  98         .        R040
             .          .
             .          .
 101         .          .       Q4042
             .          .          .
             .          .          .
 107         .          .          .      RR019
             .          .          .         V
             .          .          .         V
 141         .          .          .      RD019
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .          .          .          .
                .          .          .          .
145             .       C042.......................
                .          .
                .          .
150             .          .-------> DIV42
148             .       D042
                .          V
                .          V
153             .       R042
                .          .
                .          .
156             .          .      Q4043
                .          .          .
                .          .          .
162          C043........................
                .
                .
167             .-------> DIV43
165          D043
                V
                V
170          R043
                .
                .
173             .      Q4044
                .          .
                .          .
181             .          .          .<-------  DIV42
179             .          .      RR042
                .          .          V
                .          .          V
182             .          .      RD042
                .          .          .
                .          .          .
185             .       C044............
                .          .
                .          .
190             .          .-------> DIV44
188             .       D044
                .          V
                .          V
193             .       R044
                .          .
                .          .
196             .          .      Q4045
                .          .          .
                .          .          .
202          C045........................
                V
                V
205          R045
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .
                .
208             .      Q4046
                .         .
                .         .
214             .         .      RR023
                .         .          V
                .         .          V
248             .         .      RD023
                .         .          .
                .         .          .
254             .         .          .          .<-------   DIV44
252             .         .          .      RR044
                .         .          .          V
                .         .          .          V
255             .         .          .      RD044
                .         .          .          .
                .         .          .          .
258             .       C046.......................
                .         .
                .         .
263             .         .------->   DIV46
261             .       D046
                .         V
                .         V
266             .       R046
                .         .
                .         .
269             .         .      Q4047
                .         .          .
                .         .          .
275           C047.......................
                .
                .
280             .------->   DIV47
278           D047
                V
                V
283           R047
                .
                .
286             .      Q4065
                .         V
                .         V
292             .       R065
                .         .
                .         .
295             .         .      Q4068
                .         .          .
                .         .          .
301           C068.......................
                V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                V
304          R068
                .
                .
307             .      Q4062
                .         .
                .         .
315             .         .          .<-------   DIV41
313             .         .      RR041
                .         .          .
                .         .          .
316             .      C0621............
                .         V
                .         V
319             .      R062
                .         .
                .         .
322             .         .      Q4063
                .         .          .
                .         .          .
330             .         .          .          .<-------   DIV43
328             .         .          .      RR043
                .         .          .          V
                .         .          .          V
331             .         .          .      RD043
                .         .          .          .
                .         .          .          .
334             .         .       C063............
                .         .          V
                .         .          V
337             .         .       R063
                .         .          .
                .         .          .
340             .         .          .      Q4064
                .         .          .          .
                .         .          .          .
346             .      C064........................
                .         V
                .         V
349             .      R064
                .         .
                .         .
352             .         .      Q4066
                .         .          .
                .         .          .
358             .      C066............
                .         .
                .         .
363             .         .------->   DIV66
361             .      D066
                .         V
                .         V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
366          .       R066
             .          .
             .          .
369          .          .      Q4067
             .          .          .
             .          .          .
375          .       C067............
             .          .
             .          .
380          .          .------->   DIV67
378          .       D067
             .          V
             .          V
383          .       R067
             .          .
             .          .
386          .          .      Q4069
             .          .          .
             .          .          .
392       C069........................
             .
             .
397          .-------> DIV69W
395       D069W
             .
             .
402          .-------> DIV69S
400       D069S
             .
             .
405          .      Q4048
             .          .
             .          .
413          .          .          .<-------   DIV46
411          .          .      RR046
             .          .          V
             .          .          V
414          .          .      RD046
             .          .          .
             .          .          .
417          .       C048............
             .          .
             .          .
422          .          .------->   DIV48
420          .       D048
             .          V
             .          V
425          .       R048
             .          .
             .          .
428          .          .      Q4049
             .          .          .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                :          :          :
436             :          :          :          .<-------   DIV47
434             :          :          :      RR047
                :          :          :          V
                :          :          :          V
437             :          :          :      RD047
                :          :          :          .
                :          :          :          .
440             :       C049.......................
                :          .
                :          .
445             :          .------->   DIV49
443             :       D049
                :          V
                :          V
448             :       R049
                :          .
                :          .
451             :          .      Q4050
                :          .          .
                :          .          .
459             :          .          .          .<-------   DIV48
457             :          .          .      RR048
                :          .          .          V
                :          .          .          V
460             :          .          .      RD048
                :          .          .          .
                :          .          .          .
463             :          .       C050............
                :          .          V
                :          .          V
466             :          .       R050
                :          .          .
                :          .          .
469             :          .          .      Q4051
                :          .          .          .
                :          .          .          .
475             :       C051.......................
                :          .
                :          .
480             :          .------->   DIV51
478             :       D051
                :          V
                :          V
483             :       R051
                :          .
                :          .
486             :          .      Q4052
                :          .          .
                :          .          .
494             :          .          .------->   DIV52
492             :          .       D052
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                 .         .         V
                 .         .         V
497              .         .       R052
                 .         .         .
                 .         .         .
500              .         .         .      Q4053
                 .         .         .         .
                 .         .         .         .
506              .       C053.......................
                 .         .
                 .         .
511              .         .-------> DIV53
509              .       D053
                 .         V
                 .         V
514              .       R053
                 .         .
                 .         .
517              .         .      Q4054
                 .         .         .
                 .         .         .
525              .         .         .         .<-------   DIV52
523              .         .         .      RR052
                 .         .         .         V
                 .         .         .         V
526              .         .         .      RD052
                 .         .         .         .
                 .         .         .         .
529              .         .       C054............
                 .         .         V
                 .         .         V
532              .         .       R054
                 .         .         .
                 .         .         .
535              .         .         .      Q4055
                 .         .         .         .
                 .         .         .         .
541              .       C055.......................
                 .         .
                 .         .
546              .         .-------> DIV55
544              .       D055
                 .         V
                 .         V
549              .       R055
                 .         .
                 .         .
552              .         .      Q4076
                 .         .         .
                 .         .         .
558              .       C076............
                 .         V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                 .        V
561              .     R076
                 .        .
                 .        .
564              .        .     Q4077
                 .        .        .
                 .        .        .
570              .     C077............
                 .        V
                 .        V
573              .     R077
                 .        .
                 .        .
576              .        .     Q4070
                 .        .        .
                 .        .        .
584              .        .        .          .<-------   DIV49
582              .        .        .     RR049
                 .        .        .        V
                 .        .        .        V
585              .        .        .     RD049
                 .        .        .        .
                 .        .        .        .
588              .        .     C070............
                 .        .        .
                 .        .        .
593              .        .        .-------> DIV70
591              .        .     D070
                 .        .        V
                 .        .        V
596              .        .     R070
                 .        .        .
                 .        .        .
599              .        .        .     Q4072
                 .        .        .        .
                 .        .        .        .
607              .        .        .        .          .<-------   DIV51
605              .        .        .        .     RR051
                 .        .        .        .        V
                 .        .        .        .        V
608              .        .        .        .     RD051
                 .        .        .        .        .
                 .        .        .        .        .
611              .        .     C072........................
                 .        .        .
                 .        .        .
616              .        .        .-------> DIV72
614              .        .     D072
                 .        .        V
                 .        .        V
619              .        .     R072
                 .        .        .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .         .         .
622             .         .         .      Q4071
                .         .         .         .
                .         .         .         .
630             .         .         .         .          .<-------  DIV69W
628             .         .         .         .      RR069
                .         .         .         .         V
                .         .         .         .         V
631             .         .         .         .      RD069
                .         .         .         .         .
                .         .         .         .         .
636             .         .         .         .         .          .<-------   DIV70
634             .         .         .         .         .      RR070
                .         .         .         .         .         V
                .         .         .         .         .         V
637             .         .         .         .         .      RD070
                .         .         .         .         .         .
                .         .         .         .         .         .
640             .         .         .       C071.......................
                .         .         .         V
                .         .         .         V
643             .         .         .       R071
                .         .         .         .
                .         .         .         .
646             .         .         .         .      Q4073
                .         .         .         .         .
                .         .         .         .         .
652             .         .       C073.......................
                .         .         .
                .         .         .
657             .         .         .-------->   DIV73
655             .         .       D073
                .         .         V
                .         .         V
660             .         .       R073
                .         .         .
                .         .         .
663             .         .         .      Q4074
                .         .         .         .
                .         .         .         .
671             .         .         .         .          .<-------   DIV53
669             .         .         .         .      RR053
                .         .         .         .         V
                .         .         .         .         V
672             .         .         .         .      RD053
                .         .         .         .         .
                .         .         .         .         .
677             .         .         .         .         .          .<-------   DIV72
675             .         .         .         .         .      RR072
                .         .         .         .         .         V
                .         .         .         .         .         V
678             .         .         .         .         .      RD072
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .         .         .         .         .         .
                .         .         .         .         .         .
681             .         .         .       C074.......................
                .         .         .         V
                .         .         .         V
684             .         .         .       R074
                .         .         .         .
                .         .         .         .
687             .         .         .         .      Q4075
                .         .         .         .         .
                .         .         .         .         .
693             .         .       C075.......................
                .         .         V
                .         .         V
696             .         .       R075
                .         .         .
                .         .         .
699             .         .         .      Q4078
                .         .         .         .
                .         .         .         .
705             .         .       C078............
                .         .         V
                .         .         V
708             .         .       R078
                .         .         .
                .         .         .
711             .         .         .      Q4079
                .         .         .         .
                .         .         .         .
716             .       C079.......................
                .         .
                .         .
721             .         .-------> DIV79W
719             .       D079W
                .         .
                .         .
726             .         .-------> DIV79S
724             .       D079S
                .         .
                .         .
729             .         .      Q4058
                .         .         .
                .         .         .
737             .         .         .------->   DIV58
735             .         .       D058
                .         .         V
                .         .         V
740             .         .       R058
                .         .         .
                .         .         .
743             .         .         .      Q4059
                .         .         .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .         .         .         .
749             .         .      C059............
                .         .         V
                .         .         V
752             .         .      R059
                .         .         .
                .         .         .
755             .         .         .      Q4060
                .         .         .         .
                .         .         .         .
762             .         .         .         .          .<-------   DIV58
760             .         .         .         .      RR058
                .         .         .         .         V
                .         .         .         .         V
763             .         .         .         .      RD058
                .         .         .         .         .
                .         .         .         .         .
766             .         .         .       C060............
                .         .         .         V
                .         .         .         V
769             .         .         .       R060
                .         .         .         .
                .         .         .         .
772             .         .         .         .      Q4061
                .         .         .         .         .
                .         .         .         .         .
778             .         .      C061........................
                .         .         .
                .         .         .
783             .         .         .-------> DIV61
781             .         .      D061
                .         .         V
                .         .         V
786             .         .      R061
                .         .         .
                .         .         .
789             .         .         .      Q4083
                .         .         .         .
                .         .         .         .
795             .         .      C083............
                .         .         V
                .         .         V
798             .         .      R083
                .         .         .
                .         .         .
801             .         .         .      Q4056
                .         .         .         V
                .         .         .         V
807             .         .         .      SR056
                .         .         .         .
                .         .         .         .
814             .         .         .         .      Q4080
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .         .         .         .         .
                .         .         .         .         .
822             .         .         .         .         .         .<-------   DIV55
820             .         .         .         .         .      RR055
                .         .         .         .         .         V
                .         .         .         .         .         V
823             .         .         .         .         .      RD055
                .         .         .         .         .         .
                .         .         .         .         .         .
826             .         .         .       C080.......................
                .         .         .         V
                .         .         .         V
829             .         .         .      SR080
                .         .         .         .
                .         .         .         .
836             .         .         .         .      Q4057
                .         .         .         .         V
                .         .         .         .         V
842             .         .         .         .      SR057
                .         .         .         .         .
                .         .         .         .         .
849             .         .         .         .         .      Q4082
                .         .         .         .         .         .
                .         .         .         .         .         .
855             .         .         .       C082.......................
                .         .         .         V
                .         .         .         V
858             .         .         .      SR082
                .         .         .         .
                .         .         .         .
865             .         .         .         .      Q4084
                .         .         .         .         .
                .         .         .         .         .
871             .         .         .      C0841............
                .         .         .         V
                .         .         .         V
874             .         .         .      SR084
                .         .         .         V
                .         .         .         V
880             .         .         .      R0841
                .         .         .         .
                .         .         .         .
883             .         .      C0842............
                .         .         V
                .         .         V
886             .         .      R0842
                .         .         .
                .         .         .
889             .         .         .      Q4081
                .         .         .         .
                .         .         .         .
897             .         .         .         .         .<-------  DIV79W
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
895     .       .       .       .       RR079
        .       .       .       .          V
        .       .       .       .          V
898     .       .       .       .       RD079
        .       .       .       .          .
        .       .       .       .          .
901     .       .       .    C081............
        .       .       .       V
        .       .       .       V
904     .       .       .    R0811
        .       .       .       .
        .       .       .       .
909     .       .       .       .-------> DIV81
907     .       .       .    D081
        .       .       .       V
        .       .       .       V
912     .       .       .    R0812
        .       .       .       .
        .       .       .       .
915     .       .       .       .       Q4085
        .       .       .       .          .
        .       .       .       .          .
921     .       .       .    C085............
        .       .       .       .
        .       .       .       .
926     .       .       .       .-------> DIV85
924     .       .       .    D085
        .       .       .       V
        .       .       .       V
929     .       .       .    R085
        .       .       .       .
        .       .       .       .
932     .       .       .       .       Q4086
        .       .       .       .          .
        .       .       .       .          .
938     .       .    C086........................
        .       .       .
        .       .       .
943     .       .       .-------> DIV86W
941     .       .    D086W
        .       .       .
        .       .       .
948     .       .       .-------> DIV86S
946     .       .    D086S
        .       .       .
        .       .       .
954     .       .       .       .<-------  DIV61
951     .       .       .    RR061
        .       .       .       .
        .       .       .       .
958     .       .       .       .          .<-------  DIV86W
955     .       .       .       .       RR086
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 13

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
50 year, 24 hour Storm
Drainage Area 4

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q4087	106	12.67
ROUTED TO	R087	105	12.67
HYDROGRAPH AT	Q4088	18	12.83
2 COMBINED AT	C088	121	12.67
DIVERSION TO	DIV88	36	12.67
HYDROGRAPH AT	D088	85	12.67
ROUTED TO	R088	83	12.67
HYDROGRAPH AT	Q4089	50	12.67
HYDROGRAPH AT	RR061	69	12.67
ROUTED TO	RD061	66	12.67
2 COMBINED AT	C089	116	12.67
ROUTED TO	R089	113	12.67
HYDROGRAPH AT	Q4090	32	13.00
3 COMBINED AT	C090	220	12.67
DIVERSION TO	DIV90	66	12.67
HYDROGRAPH AT	D090	154	12.67
ROUTED TO	R090	148	12.67
HYDROGRAPH AT	Q4091	51	13.33
2 COMBINED AT	C091	179	12.83
ROUTED TO	R091	177	12.83
HYDROGRAPH AT	Q4092	61	13.67
HYDROGRAPH AT	RR086	296	12.67
ROUTED TO	RD086	283	12.67
3 COMBINED AT	C092	478	12.83
DIVERSION TO	DIV92	143	12.83
HYDROGRAPH AT	D092	334	12.83
ROUTED TO	R092	333	12.83
HYDROGRAPH AT	Q4093	94	12.67
HYDROGRAPH AT	RR088	36	12.67
ROUTED TO	RD088	34	12.67
2 COMBINED AT	C093	128	12.67
DIVERSION TO	DIV93	39	12.67
HYDROGRAPH AT	D093	90	12.67
ROUTED TO	R093	87	12.67
HYDROGRAPH AT	Q4094	75	12.67
HYDROGRAPH AT	RR090	66	12.67
ROUTED TO	RD090	63	12.67
3 COMBINED AT	C094	225	12.67
DIVERSION TO	DIV94	67	12.67
HYDROGRAPH AT	D094	157	12.67
ROUTED TO	R094	154	12.67
HYDROGRAPH AT	Q4095	50	12.67
2 COMBINED AT	C095	204	12.67

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
ROUTED TO	R095	196	12.67
HYDROGRAPH AT	Q4096	92	12.67
3 COMBINED AT	C096	604	12.67
ROUTED TO	R096	585	12.83
HYDROGRAPH AT	Q4097	67	12.67
HYDROGRAPH AT	RR093	39	12.67
ROUTED TO	RD093	37	12.67
2 COMBINED AT	C097	104	12.67
ROUTED TO	R097	100	12.67
HYDROGRAPH AT	Q4098	71	12.67
HYDROGRAPH AT	RR094	67	12.67
ROUTED TO	RD094	64	12.67
3 COMBINED AT	C098	234	12.67
DIVERSION TO	DIV98	70	12.67
HYDROGRAPH AT	D098	164	12.67
ROUTED TO	R098	156	12.67
HYDROGRAPH AT	Q4099	59	12.67
2 COMBINED AT	C099	215	12.67
DIVERSION TO	DIV99	65	12.67
HYDROGRAPH AT	D099	151	12.67
ROUTED TO	R099	147	12.83
HYDROGRAPH AT	Q4100	41	13.00
3 COMBINED AT	C100	772	12.83
DIVERSION TO	DV100W	232	12.83
HYDROGRAPH AT	D100W	540	12.83
DIVERSION TO	DV100S	540	0.17
HYDROGRAPH AT	D100S	0	0.17
HYDROGRAPH AT	Q4101	156	13.00
HYDROGRAPH AT	RR098	70	12.67
ROUTED TO	RD098	66	12.83
2 COMBINED AT	C101	213	13.00
DIVERSION TO	DIV101	213	0.17
HYDROGRAPH AT	D101	0	0.17
HYDROGRAPH AT	Q4102	121	12.67
HYDROGRAPH AT	RR099	65	12.67
ROUTED TO	RD099	62	12.83
2 COMBINED AT	C102	175	12.67
DIVERSION TO	DIV102	52	12.67
HYDROGRAPH AT	D102	122	12.67
ROUTED TO	R102	117	12.83
HYDROGRAPH AT	Q4106	58	12.67
HYDROGRAPH AT	Q4103	68	12.67
3 COMBINED AT	C103	231	12.67
DIVERSION TO	DIV103	231	0.17
HYDROGRAPH AT	D103	0	0.17
HYDROGRAPH AT	Q4104	101	12.83
HYDROGRAPH AT	RR100	232	12.83
ROUTED TO	RD100	230	12.83
HYDROGRAPH AT	RR102	52	12.67
ROUTED TO	RD102	49	12.83
3 COMBINED AT	C104	379	12.83
ROUTED TO	R104	364	13.00

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q4105	92	12.67
2 COMBINED AT	C105	446	12.83
DIVERSION TO	DV105	446	0.17
HYDROGRAPH AT	D105	0	0.17
HYDROGRAPH AT	RR101	213	13.00
HYDROGRAPH AT	RR103	231	12.67

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  10       Q4087
              V
              V
  22        R087
              .
              .
  25          .       Q4088
              .          .
              .          .
  30        C088............
              .
              .
  35          .-------->   DIV88
  33        D088
              V
              V
  38        R088
              .
              .
  41          .       Q4089
              .          .
              .          .
  46          .          .       RR061
              .          .          V
              .          .          V
  80          .          .       RD061
              .          .          .
              .          .          .
  84          .        C089............
              .          V
              .          V
  87          .        R089
              .          .
              .          .
  90          .          .       Q4090
              .          .          .
              .          .          .
  95        C090........................
              .
              .
 100          .-------->   DIV90
  98        D090
              V
              V
 103        R090
              .
              .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
106          .      Q4091
             .          .
             .          .
111       C091............
             V
             V
114       R091
             .
             .
117          .      Q4092
             .          .
             .          .
122          .          .      RR086
             .          .          V
             .          .          V
156          .          .      RD086
             .          .          .
             .          .          .
160       C092........................
             .
             .
165          .-------->   DIV92
163       D092
             V
             V
168       R092
             .
             .
171          .      Q4093
             .          .
             .          .
179          .          .          .<-------   DIV88
177          .          .      RR088
             .          .          V
             .          .          V
180          .          .      RD088
             .          .          .
             .          .          .
183          .       C093............
             .          .
             .          .
188          .          .-------->   DIV93
186          .       D093
             .          V
             .          V
191          .       R093
             .          .
             .          .
194          .          .      Q4094
             .          .          .
             .          .          .
202          .          .          .          .<-------   DIV90
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
200        .          .          .      RR090
           .          .          .         V
           .          .          .         V
203        .          .          .      RD090
           .          .          .         .
           .          .          .         .
206        .       C094.......................
           .          .
           .          .
211        .          .-------> DIV94
209        .       D094
           .          V
           .          V
214        .       R094
           .          .
           .          .
217        .          .      Q4095
           .          .         .
           .          .         .
223        .       C095............
           .          V
           .          V
226        .       R095
           .          .
           .          .
229        .          .      Q4096
           .          .         .
           .          .         .
235     C096........................
           V
           V
238     R096
           .
           .
241        .      Q4097
           .          .
           .          .
249        .          .         .<-------   DIV93
247        .          .      RR093
           .          .         V
           .          .         V
250        .          .      RD093
           .          .         .
           .          .         .
253        .       C097............
           .          V
           .          V
256        .       R097
           .          .
           .          .
259        .          .      Q4098
           .          .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
            .          .          .
267         .          .          .          .<-------   DIV94
265         .          .          .      RR094
            .          .          .          V
            .          .          .          V
268         .          .          .      RD094
            .          .          .          .
            .          .          .          .
271         .       C098.......................
            .          .
            .          .
276         .          .------->   DIV98
274         .       D098
            .          V
            .          V
279         .       R098
            .          .
            .          .
282         .          .      Q4099
            .          .          .
            .          .          .
288         .       C099............
            .          .
            .          .
293         .          .------->   DIV99
291         .       D099
            .          V
            .          V
296         .       R099
            .          .
            .          .
299         .          .      Q4100
            .          .          .
            .          .          .
304       C100........................
            .
            .
309         .-------> DV100W
307      D100W
            .
            .
314         .-------> DV100S
312      D100S
            .
            .
317         .      Q4101
            .          .
            .          .
324         .          .          .<-------   DIV98
322         .          .      RR098
            .          .          V
            .          .          V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
325          .          .      RD098
             .          .        .
             .          .        .
328          .      C101............
             .          .
             .          .
333          .          .-------> DIV101
331          .      D101
             .          .
             .          .
336          .          .      Q4102
             .          .        .
             .          .        .
344          .          .        .          .<-------   DIV99
342          .          .        .      RR099
             .          .        .          V
             .          .        .          V
345          .          .        .      RD099
             .          .        .          .
             .          .        .          .
348          .          .      C102............
             .          .        .
             .          .        .
353          .          .        .-------> DIV102
351          .          .      D102
             .          .        V
             .          .        V
356          .          .      R102
             .          .        .
             .          .        .
359          .          .        .      Q4106
             .          .        .          .
             .          .        .          .
365          .          .        .          .      Q4103
             .          .        .          .        .
             .          .        .          .        .
370          .          .      C103........................
             .          .        .
             .          .        .
375          .          .        .-------> DIV103
373          .          .      D103
             .          .        .
             .          .        .
378          .          .        .      Q4104
             .          .        .          .
             .          .        .          .
385          .          .        .          .          .<-------  DV100W
383          .          .        .          .      RR100
             .          .        .          .        V
             .          .        .          .        V
386          .          .        .          .      RD100
             .          .        .          .        .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .         .         .         .         .
391             .         .         .         .         .         .<-------  DIV102
389             .         .         .         .         .      RR102
                .         .         .         .         .         V
                .         .         .         .         .         V
392             .         .         .         .         .      RD102
                .         .         .         .         .         .
                .         .         .         .         .         .
395             .         .         .      C104.......................
                .         .         .         V
                .         .         .         V
398             .         .         .      R104
                .         .         .         .
                .         .         .         .
401             .         .         .         .      Q4105
                .         .         .         .         .
                .         .         .         .         .
406             .         .         .      C105............
                .         .         .         .
                .         .         .         .
411             .         .         .         .------->   DV105
409             .         .         .      D105
                .         .         .         .
                .         .         .         .
417             .         .         .         .         .<-------  DIV101
414             .         .         .         .      RR101
                .         .         .         .         .
                .         .         .         .         .
421             .         .         .         .         .         .<-------  DIV103
418             .         .         .         .         .      RR103
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 13

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
50 year, 24 hour Storm
Drainage Area 5

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q5052	307	12.83
ROUTED TO	SR052	32	14.50
ROUTED TO	R052	32	16.83
HYDROGRAPH AT	Q5053	1664	12.83
2 COMBINED AT	C053	1666	12.83
ROUTED TO	R053	1661	12.83
HYDROGRAPH AT	Q5022	13	12.67
2 COMBINED AT	C022	1672	12.83
ROUTED TO	R022	1641	12.83
HYDROGRAPH AT	Q5021	128	12.67
ROUTED TO	R021	124	12.67
HYDROGRAPH AT	Q5054	104	13.17
ROUTED TO	R054	103	13.33
HYDROGRAPH AT	RR023	182	12.67
ROUTED TO	RD023	176	12.83
HYDROGRAPH AT	Q5004	131	12.67
5 COMBINED AT	C004	2116	12.83
ROUTED TO	R004	2103	12.83
HYDROGRAPH AT	Q5055	154	13.00
ROUTED TO	R055	151	13.00
HYDROGRAPH AT	Q5002	12	12.67
ROUTED TO	R002	12	12.67
HYDROGRAPH AT	Q5005	120	12.67
4 COMBINED AT	C005	2334	12.83
DIVERSION TO	DIV05	467	12.83
HYDROGRAPH AT	D005	1867	12.83
ROUTED TO	R005	1854	12.83
HYDROGRAPH AT	Q5001	36	12.83
DIVERSION TO	DIV01	14	12.83
HYDROGRAPH AT	D001	22	12.83
ROUTED TO	R001	21	12.83
HYDROGRAPH AT	Q5003	64	12.67
3 COMBINED AT	C003	1914	12.83
DIVERSION TO	DIV03	29	12.83
HYDROGRAPH AT	D003	1885	12.83
ROUTED TO	R003	1853	12.83
HYDROGRAPH AT	Q5006	104	12.67
2 COMBINED AT	C006	1899	12.83
DIVERSION TO	DIV06	480	12.83
HYDROGRAPH AT	D006	1419	12.83
HYDROGRAPH AT	Q5009	27	12.67
ROUTED TO	R5009	26	12.67
HYDROGRAPH AT	RR025	242	12.67

* Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
ROUTED TO	RD025	333	12.83
HYDROGRAPH AT	Q5011	55	12.67
2 COMBINED AT	C011	289	12.67
ROUTED TO	R5011	276	12.67
HYDROGRAPH AT	RR005	467	12.83
ROUTED TO	RD005	462	12.83
HYDROGRAPH AT	Q5008	116	12.67
2 COMBINED AT	C008	547	12.83
ROUTED TO	R008	545	12.83
HYDROGRAPH AT	Q5010	73	12.67
4 COMBINED AT	C010	896	12.83
ROUTED TO	R010	896	12.83
HYDROGRAPH AT	Q5012	37	12.67
ROUTED TO	R012	36	12.67
HYDROGRAPH AT	Q5007	3	12.67
3 COMBINED AT	C5007	930	12.83
ROUTED TO	SR007	913	13.00
ROUTED TO	R007	795	13.00
HYDROGRAPH AT	RR003	29	11.83
ROUTED TO	RD003	29	12.00
HYDROGRAPH AT	RR001	14	12.33
ROUTED TO	RD001	14	12.50
HYDROGRAPH AT	RR006	480	12.33
ROUTED TO	RD006	480	12.50
HYDROGRAPH AT	Q5014	119	12.67
ROUTED TO	R014	117	12.67
HYDROGRAPH AT	Q5013	99	12.67
2 COMBINED AT	C013	216	12.67
DIVERSION TO	DIV13	25	12.67
HYDROGRAPH AT	D013	191	12.67
ROUTED TO	R013	180	12.67
HYDROGRAPH AT	Q5018	203	12.67
ROUTED TO	R018	203	12.67
HYDROGRAPH AT	Q5017	100	12.67
3 COMBINED AT	C017	483	12.67
DIVERSION TO	DIV17	350	12.67
HYDROGRAPH AT	D017	133	12.67
ROUTED TO	R017	115	12.67
HYDROGRAPH AT	Q5015	150	12.67
ROUTED TO	R015	144	12.67
HYDROGRAPH AT	RR035	318	12.67
ROUTED TO	RD035	310	12.83
HYDROGRAPH AT	Q5020	217	12.67
3 COMBINED AT	C5020	658	12.67
ROUTED TO	R0201	650	12.67
DIVERSION TO	DIV20	195	12.67
HYDROGRAPH AT	D020	455	12.67
ROUTED TO	R0202	440	12.67
HYDROGRAPH AT	Q5019	109	12.67
3 COMBINED AT	C5019	664	12.67
ROUTED TO	SR019	0	0.17
HYDROGRAPH AT	RR017	350	12.50

* Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
ROUTED TO	RD017	350	12.67
HYDROGRAPH AT	RR013	25	12.00

* Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
INPUT
 LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  11       Q5052
               V
               V
  22       SR052
               V
               V
  29        R052
               .
               .
  32           .       Q5053
               .           .
               .           .
  37        C053............
               V
               V
  40        R053
               .
               .
  43           .       Q5022
               .           .
               .           .
  48        C022............
               V
               V
  51        R022
               .
               .
  54           .       Q5021
               .           V
               .           V
  60           .        R021
               .           .
               .           .
  63           .           .      Q5054
               .           .          V
               .           .          V
  68           .           .       R054
               .           .          .
               .           .          .
  71           .           .          .      RR023
               .           .          .          V
               .           .          .          V
 105           .           .          .      RD023
               .           .          .          .
               .           .          .          .
 109           .           .          .          .      Q5004
               .           .          .          .          .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .          .          .          .          .
114          C004.............................................
                V
                V
117          R004
                .
                .
120             .      Q5055
                .          V
                .          V
125             .       R055
                .          .
                .          .
128             .          .      Q5002
                .          .          V
                .          .          V
134             .          .       R002
                .          .          .
                .          .          .
137             .          .          .      Q5005
                .          .          .          .
                .          .          .          .
143          C005...................................
                .
                .
148             .-------> DIV05
146          D005
                V
                V
151          R005
                .
                .
154             .      Q5001
                .          .
                .          .
161             .          .-------> DIV01
159             .       D001
                .          V
                .          V
164             .       R001
                .          .
                .          .
167             .          .      Q5003
                .          .          .
                .          .          .
173          C003........................
                .
                .
178             .-------> DIV03
176          D003
                V
                V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
181        R003
             .
             .
184          .      Q5006
             .          .
             .          .
190        C006............
             .
             .
195          .-------->   DIV06
193        D006
             .
             .
198          .      Q5009
             .          V
             .          V
204          .      R5009
             .          .
             .          .
207          .          .      RR025
             .          .          V
             .          .          V
241          .          .      RD025
             .          .          .
             .          .          .
245          .          .          .      Q5011
             .          .          .          .
             .          .          .          .
251          .          .       C011............
             .          .          V
             .          .          V
254          .          .      R5011
             .          .          .
             .          .          .
259          .          .          .          .<-------   DIV05
257          .          .          .      RK005
             .          .          .          V
             .          .          .          V
260          .          .          .      RD005
             .          .          .          .
             .          .          .          .
263          .          .          .          .      Q5008
             .          .          .          .          .
             .          .          .          .          .
269          .          .          .       C008............
             .          .          .          V
             .          .          .          V
272          .          .          .       R008
             .          .          .          .
             .          .          .          .
275          .          .          .          .      Q5010
             .          .          .          .          .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .         .         .         .         .
281             .      C010.......................................
                .         V
                .         V
284             .      R010
                .         .
                .         .
287             .         .      Q5012
                .         .         V
                .         .         V
293             .         .      R012
                .         .         .
                .         .         .
296             .         .         .      Q5007
                .         .         .         .
                .         .         .         .
302             .      C5007......................
                .         V
                .         V
305             .      SR007
                .         V
                .         V
313             .      R007
                .         .
                .         .
319             .         .         .<-------   DIV03
317             .         .      RR003
                .         .         V
                .         .         V
320             .         .      RD003
                .         .         .
                .         .         .
326             .         .         .         .<-------   DIV01
324             .         .         .      RR001
                .         .         .         V
                .         .         .         V
327             .         .         .      RD001
                .         .         .         .
                .         .         .         .
333             .         .         .         .         .<-------   DIV06
331             .         .         .         .      RR006
                .         .         .         .         V
                .         .         .         .         V
334             .         .         .         .      RD006
                .         .         .         .         .
                .         .         .         .         .
338             .         .         .         .         .      Q5014
                .         .         .         .         .         V
                .         .         .         .         .         V
344             .         .         .         .         .      R014
                .         .         .         .         .         .
                .         .         .         .         .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
347   .     .     .     .     .     .     Q5013
      .     .     .     .     .     .        .
      .     .     .     .     .     .        .
353   .     .     .     .     .  C013............
      .     .     .     .     .     .
      .     .     .     .     .     .
358   .     .     .     .     .     .-------> DIV13
356   .     .     .     .     .  D013
      .     .     .     .     .     V
      .     .     .     .     .     V
361   .     .     .     .     .  R013
      .     .     .     .     .     .
      .     .     .     .     .     .
364   .     .     .     .     .     .     Q5018
      .     .     .     .     .     .        V
      .     .     .     .     .     .        V
370   .     .     .     .     .     .     R018
      .     .     .     .     .     .        .
      .     .     .     .     .     .        .
373   .     .     .     .     .     .        .     Q5017
      .     .     .     .     .     .        .        .
      .     .     .     .     .     .        .        .
379   .     .     .     .     .  C017.......................
      .     .     .     .     .     .
      .     .     .     .     .     .
384   .     .     .     .     .     .-------> DIV17
382   .     .     .     .     .  D017
      .     .     .     .     .     V
      .     .     .     .     .     V
387   .     .     .     .     .  R017
      .     .     .     .     .     .
      .     .     .     .     .     .
390   .     .     .     .     .     .     Q5015
      .     .     .     .     .     .        V
      .     .     .     .     .     .        V
396   .     .     .     .     .     .     R015
      .     .     .     .     .     .        .
      .     .     .     .     .     .        .
399   .     .     .     .     .     .        .     RR035
      .     .     .     .     .     .        .        V
      .     .     .     .     .     .        .        V
433   .     .     .     .     .     .        .     RD035
      .     .     .     .     .     .        .        .
      .     .     .     .     .     .        .        .
437   .     .     .     .     .     .        .        .     Q5020
      .     .     .     .     .     .        .        .        .
      .     .     .     .     .     .        .        .        .
443   .     .     .     .     .     .     C5020.......................
      .     .     .     .     .     .        V
      .     .     .     .     .     .        V
446   .     .     .     .     .     .     R0201
      .     .     .     .     .     .        .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .         .         .         .         .         .         .
451             .         .         .         .         .         .         .-------> DIV20
449             .         .         .         .         .         .      D020
                .         .         .         .         .         .         V
                .         .         .         .         .         .         V
454             .         .         .         .         .         .      R0202
                .         .         .         .         .         .         .
                .         .         .         .         .         .         .
457             .         .         .         .         .         .         .      Q5019
                .         .         .         .         .         .         .         .
                .         .         .         .         .         .         .         .
463             .         .         .         .         .      C5019.......................
                .         .         .         .         .         V
                .         .         .         .         .         V
466             .         .         .         .         .      SR019
                .         .         .         .         .         .
                .         .         .         .         .         .
474             .         .         .         .         .         .         .<------- DIV17
472             .         .         .         .         .         .      RR017
                .         .         .         .         .         .         V
                .         .         .         .         .         .         V
475             .         .         .         .         .         .      RD017
                .         .         .         .         .         .         .
                .         .         .         .         .         .         .
481             .         .         .         .         .         .         .         .<------- DIV13
478             .         .         .         .         .         .         .      RR013
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 13

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
50 year, 24 hour Storm
Drainage Area 5

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q5047	37	13.17
DIVERSION TO	DIV47	37	0.17
HYDROGRAPH AT	D047	0	0.17
HYDROGRAPH AT	Q5049	197	12.67
ROUTED TO	R0491	194	12.67
ROUTED TO	R0492	189	12.67
HYDROGRAPH AT	Q5050	1028	12.83
ROUTED TO	R050	1022	12.83
HYDROGRAPH AT	Q5045	87	13.33
3 COMBINED AT	C045	1285	12.83
DIVERSION TO	DIV45	257	12.83
HYDROGRAPH AT	D045	1028	12.83
ROUTED TO	R045	1016	12.83
HYDROGRAPH AT	Q5046	211	12.67
2 COMBINED AT	C046	1165	12.83
DIVERSION TO	DIV46	116	12.83
HYDROGRAPH AT	D046	1048	12.83
ROUTED TO	R046	1044	12.83
HYDROGRAPH AT	Q5048	28	12.83
2 COMBINED AT	C048	1072	12.83
DIVERSION TO	DIV48	1072	0.17
HYDROGRAPH AT	D048	0	0.17
HYDROGRAPH AT	Q5040	61	12.67
ROUTED TO	R040	59	12.67
HYDROGRAPH AT	Q5038	134	12.67
2 COMBINED AT	C038	193	12.67
ROUTED TO	R038	189	12.67
HYDROGRAPH AT	Q5039	13	12.67
2 COMBINED AT	C039	202	12.67
ROUTED TO	R039	200	12.67
DIVERSION TO	DIV39	200	0.17
HYDROGRAPH AT	D039	0	0.17
HYDROGRAPH AT	Q5042	32	12.67
DIVERSION TO	DIV42	32	0.17
HYDROGRAPH AT	D042	0	0.17
HYDROGRAPH AT	Q5043	117	12.67
DIVERSION TO	DIV43	117	0.17
HYDROGRAPH AT	D043	0	0.17
HYDROGRAPH AT	Q5051	455	12.67
ROUTED TO	R051	452	12.67
HYDROGRAPH AT	Q5027	51	13.17
2 COMBINED AT	C027	496	12.67
ROUTED TO	R027	492	12.67

* Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q5028	27	12.67
2 COMBINED AT	C028	519	12.67
DIVERSION TO	DIV28	52	12.67
HYDROGRAPH AT	D028	467	12.67
ROUTED TO	R028	462	12.67
HYDROGRAPH AT	RR045	257	12.83
ROUTED TO	RD045	255	12.83
HYDROGRAPH AT	Q5030	47	12.83
2 COMBINED AT	C030	302	12.83
ROUTED TO	R030	298	12.83
HYDROGRAPH AT	RR028	52	12.67
ROUTED TO	RD028	51	12.67
HYDROGRAPH AT	Q5029	45	12.67
3 COMBINED AT	C029	378	12.83
DIVERSION TO	DIV29	38	12.83
HYDROGRAPH AT	D029	340	12.83
ROUTED TO	R029	338	12.83
HYDROGRAPH AT	Q5024	76	12.67
3 COMBINED AT	C024	854	12.67
ROUTED TO	R024	840	12.67
HYDROGRAPH AT	Q5023	73	12.67
2 COMBINED AT	C023	913	12.67
DIVERSION TO	DIV23	183	12.67
HYDROGRAPH AT	D023	731	12.67
ROUTED TO	R023	707	12.83
HYDROGRAPH AT	RR046	116	12.83
ROUTED TO	RD046	115	12.83
HYDROGRAPH AT	Q5032	111	12.67
2 COMBINED AT	C032	213	12.67
ROUTED TO	R5032	210	12.67
HYDROGRAPH AT	RR029	38	12.83
ROUTED TO	RD029	36	13.00
HYDROGRAPH AT	Q5031	167	12.67
3 COMBINED AT	C031	406	12.67
DIVERSION TO	DIV31	122	12.67
HYDROGRAPH AT	D031	284	12.67
ROUTED TO	R031	274	12.67
HYDROGRAPH AT	Q5026	128	12.67
2 COMBINED AT	C026	402	12.67
ROUTED TO	R026	392	12.67
HYDROGRAPH AT	Q5025	123	12.67
3 COMBINED AT	C025	1211	12.67
DIVERSION TO	DIV25	242	12.67
HYDROGRAPH AT	D025	969	12.67
ROUTED TO	R025	951	12.67
HYDROGRAPH AT	Q5016	55	12.67
ROUTED TO	R016	55	12.67
HYDROGRAPH AT	Q5033	154	12.67
3 COMBINED AT	C033	1160	12.67
ROUTED TO	R033	1133	12.67
HYDROGRAPH AT	Q5034	126	12.67
2 COMBINED AT	C034	1259	12.67

* Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
DIVERSION TO	SD34	11	12.67
HYDROGRAPH AT	SD034	1248	12.67
ROUTED TO	R034	1196	12.67
HYDROGRAPH AT	RR031	122	12.67
ROUTED TO	RD031	116	12.83
HYDROGRAPH AT	Q5041	36	13.17
2 COMBINED AT	C5041	149	12.83
ROUTED TO	R041	143	12.83
HYDROGRAPH AT	Q5044	115	12.67
2 COMBINED AT	C044	235	12.67
DIVERSION TO	DIV44	70	12.67
HYDROGRAPH AT	D044	164	12.67
ROUTED TO	R044	156	12.67
HYDROGRAPH AT	Q5036	60	12.67
ROUTED TO	R036	59	12.67
HYDROGRAPH AT	Q5037	68	12.67
3 COMBINED AT	C037	283	12.67
ROUTED TO	R037	268	12.67
HYDROGRAPH AT	Q5035	144	12.67
3 COMBINED AT	C035	1608	12.67
DIVERSION TO	SD35	15	12.67
HYDROGRAPH AT	SD035	1593	12.67
DIVERSION TO	DIV35	319	12.67
HYDROGRAPH AT	D035	1274	12.67
HYDROGRAPH AT	RR023	183	12.67
HYDROGRAPH AT	RR025	242	12.67
HYDROGRAPH AT	RR035	319	12.67

* Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  11      Q5047
              .
              .
  24          .------->  DIV47
  22       D047
              .
              .
  27          .      Q5049
              .          V
              .          V
  32          .      R0491
              .          V
              .          V
  35          .      R0492
              .          .
              .          .
  38          .          .      Q5050
              .          .          V
              .          .          V
  43          .          .       R050
              .          .          .
              .          .          .
  46          .          .          .      Q5045
              .          .          .          .
              .          .          .          .
  52          .       C045.......................
              .          .
              .          .
  57          .          .------->  DIV45
  55          .       D045
              .          V
              .          V
  60          .       R045
              .          .
              .          .
  63          .          .      Q5046
              .          .          .
              .          .          .
  69          .       C046............
              .          .
              .          .
  74          .          .------->  DIV46
  72          .       D046
              .          V
              .          V
  77          .       R046
              .          .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .         .
 80             .         .      Q5048
                .         .         .
                .         .         .
 85             .      C048............
                .         .
                .         .
 90             .         .-------> DIV48
 88             .      D048
                .         .
                .         .
 93             .         .      Q5040
                .         .         V
                .         .         V
 99             .         .      R040
                .         .         .
                .         .         .
102             .         .         .      Q5038
                .         .         .         .
                .         .         .         .
108             .         .      C038............
                .         .         V
                .         .         V
111             .         .      R038
                .         .         .
                .         .         .
114             .         .         .      Q5039
                .         .         .         .
                .         .         .         .
120             .         .      C039............
                .         .         V
                .         .         V
123             .         .      R039
                .         .         .
                .         .         .
128             .         .         .-------> DIV39
126             .         .      D039
                .         .         .
                .         .         .
131             .         .         .      Q5042
                .         .         .         .
                .         .         .         .
139             .         .         .         .-------> DIV42
137             .         .         .      D042
                .         .         .         .
                .         .         .         .
142             .         .         .         .      Q5043
                .         .         .         .         .
                .         .         .         .         .
150             .         .         .         .         .-------> DIV43
148             .         .         .         .      D043
                .         .         .         .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
153   .   .   .   .   .   Q5051
      .   .   .   .   .      V
      .   .   .   .   .      V
158   .   .   .   .   .   R051
      .   .   .   .   .      .
      .   .   .   .   .      .
161   .   .   .   .   .      .      Q5027
      .   .   .   .   .      .         .
      .   .   .   .   .      .         .
167   .   .   .   .   .   C027............
      .   .   .   .   .      V
      .   .   .   .   .      V
170   .   .   .   .   .   R027
      .   .   .   .   .      .
      .   .   .   .   .      .
173   .   .   .   .   .      .      Q5028
      .   .   .   .   .      .         .
      .   .   .   .   .      .         .
179   .   .   .   .   .   C028............
      .   .   .   .   .      .
      .   .   .   .   .      .
184   .   .   .   .   .      .-------> DIV28
182   .   .   .   .   .   D028
      .   .   .   .   .      V
      .   .   .   .   .      V
187   .   .   .   .   .   R028
      .   .   .   .   .      .
      .   .   .   .   .      .
192   .   .   .   .   .      .         .<-------  DIV45
190   .   .   .   .   .      .      RR045
      .   .   .   .   .      .         V
      .   .   .   .   .      .         V
193   .   .   .   .   .      .      RD045
      .   .   .   .   .      .         .
      .   .   .   .   .      .         .
196   .   .   .   .   .      .         .      Q5030
      .   .   .   .   .      .         .         .
      .   .   .   .   .      .         .         .
202   .   .   .   .   .      .      C030............
      .   .   .   .   .      .         V
      .   .   .   .   .      .         V
205   .   .   .   .   .      .      R030
      .   .   .   .   .      .         .
      .   .   .   .   .      .         .
210   .   .   .   .   .      .         .         .<-------  DIV28
208   .   .   .   .   .      .         .      RR028
      .   .   .   .   .      .         .         V
      .   .   .   .   .      .         .         V
211   .   .   .   .   .      .         .      RD028
      .   .   .   .   .      .         .         .
      .   .   .   .   .      .         .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
214   .         .         .         .         .         .         .         .         Q5029
      .         .         .         .         .         .         .         .         .
      .         .         .         .         .         .         .         .         .
220   .         .         .         .         .         .      C029.......................
      .         .         .         .         .         .         .
      .         .         .         .         .         .         .
225   .         .         .         .         .         .         .-------> DIV29
223   .         .         .         .         .         .      D029
      .         .         .         .         .         .         V
      .         .         .         .         .         .         V
228   .         .         .         .         .         .      R029
      .         .         .         .         .         .         .
      .         .         .         .         .         .         .
231   .         .         .         .         .         .         .      Q5024
      .         .         .         .         .         .         .         .
      .         .         .         .         .         .         .         .
237   .         .         .         .         .      C024.......................
      .         .         .         .         .         V
      .         .         .         .         .         V
240   .         .         .         .         .      R024
      .         .         .         .         .         .
      .         .         .         .         .         .
243   .         .         .         .         .         .      Q5023
      .         .         .         .         .         .         .
      .         .         .         .         .         .         .
249   .         .         .         .         .      C023............
      .         .         .         .         .         .
      .         .         .         .         .         .
254   .         .         .         .         .         .-------> DIV23
252   .         .         .         .         .      D023
      .         .         .         .         .         V
      .         .         .         .         .         V
257   .         .         .         .         .      R023
      .         .         .         .         .         .
      .         .         .         .         .         .
262   .         .         .         .         .         .         .<------- DIV46
260   .         .         .         .         .         .      RR046
      .         .         .         .         .         .         V
      .         .         .         .         .         .         V
263   .         .         .         .         .         .      RD046
      .         .         .         .         .         .         .
      .         .         .         .         .         .         .
266   .         .         .         .         .         .         .      Q5032
      .         .         .         .         .         .         .         .
      .         .         .         .         .         .         .         .
272   .         .         .         .         .         .      C032............
      .         .         .         .         .         .         V
      .         .         .         .         .         .         V
275   .         .         .         .         .         .      R5032
      .         .         .         .         .         .         .
      .         .         .         .         .         .         .
280   .         .         .         .         .         .         .         .<------- DIV29
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
278   .   .   .   .   .   .   .   RK029
      .   .   .   .   .   .   .      V
      .   .   .   .   .   .   .      V
281   .   .   .   .   .   .   .   RD029
      .   .   .   .   .   .   .      .
      .   .   .   .   .   .   .      .
284   .   .   .   .   .   .   .      .      Q5031
      .   .   .   .   .   .   .      .        .
      .   .   .   .   .   .   .      .        .
290   .   .   .   .   .   .   C031.......................
      .   .   .   .   .   .   .
      .   .   .   .   .   .   .
295   .   .   .   .   .   .   .-------> DIV31
293   .   .   .   .   .   .   D031
      .   .   .   .   .   .      V
      .   .   .   .   .   .      V
298   .   .   .   .   .   .   R031
      .   .   .   .   .   .   .
      .   .   .   .   .   .   .
301   .   .   .   .   .   .   .   Q5026
      .   .   .   .   .   .   .      .
      .   .   .   .   .   .   .      .
307   .   .   .   .   .   .   C026............
      .   .   .   .   .   .      V
      .   .   .   .   .   .      V
310   .   .   .   .   .   .   R026
      .   .   .   .   .   .   .
      .   .   .   .   .   .   .
313   .   .   .   .   .   .   .   Q5025
      .   .   .   .   .   .   .      .
      .   .   .   .   .   .   .      .
319   .   .   .   .   .   C025.......................
      .   .   .   .   .   .
      .   .   .   .   .   .
324   .   .   .   .   .   .-------> DIV25
322   .   .   .   .   .   D025
      .   .   .   .   .      V
      .   .   .   .   .      V
327   .   .   .   .   .   R025
      .   .   .   .   .   .
      .   .   .   .   .   .
330   .   .   .   .   .   .   Q5016
      .   .   .   .   .   .      V
      .   .   .   .   .   .      V
336   .   .   .   .   .   .   R016
      .   .   .   .   .   .   .
      .   .   .   .   .   .   .
339   .   .   .   .   .   .   .   Q5033
      .   .   .   .   .   .   .      .
      .   .   .   .   .   .   .      .
345   .   .   .   .   .   C033.......................
      .   .   .   .   .      V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                                                  V
348                                             R033
                                                  .
                                                  .
351                                                .      Q5034
                                                   .         .
                                                   .         .
357                                             C034............
                                                  .
                                                  .
362                                                .-------->   SD34
360                                             SD034
                                                  V
                                                  V
365                                             R034
                                                  .
                                                  .
370                                                .         .<-------   DIV31
368                                                .      RR031
                                                   .         V
                                                   .         V
371                                                .      RD031
                                                   .         .
                                                   .         .
374                                                .         .      Q5041
                                                   .         .         .
                                                   .         .         .
379                                                .      C5041............
                                                   .         V
                                                   .         V
382                                                .      R041
                                                   .         .
                                                   .         .
385                                                .         .      Q5044
                                                   .         .         .
                                                   .         .         .
391                                                .      C044............
                                                   .         .
                                                   .         .
396                                                .         .-------->   DIV44
394                                                .      D044
                                                   .         V
                                                   .         V
399                                                .      R044
                                                   .         .
                                                   .         .
402                                                .         .      Q5036
                                                   .         .         V
                                                   .         .         V
408                                                .         .      R036
                                                   .         .         .
                                                   .         .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
411          .         .         .         .         .         .         .         .      Q5037
             .         .         .         .         .         .         .         .         .
             .         .         .         .         .         .         .         .         .
417          .         .         .         .         .         .      C037.......................
             .         .         .         .         .         .        V
             .         .         .         .         .         .        V
420          .         .         .         .         .         .      R037
             .         .         .         .         .         .         .
             .         .         .         .         .         .         .
423          .         .         .         .         .         .         .     Q5035
             .         .         .         .         .         .         .         .
             .         .         .         .         .         .         .         .
429          .         .         .         .         .      C035.......................
             .         .         .         .         .         .
             .         .         .         .         .         .
434          .         .         .         .         .         .------->   SD35
432          .         .         .         .         .      SD035
             .         .         .         .         .         .
             .         .         .         .         .         .
439          .         .         .         .         .         .------->   DIV35
437          .         .         .         .         .      D035
             .         .         .         .         .         .
             .         .         .         .         .         .
445          .         .         .         .         .         .         .<-------   DIV23
442          .         .         .         .         .         .      RR023
             .         .         .         .         .         .         .
             .         .         .         .         .         .         .
449          .         .         .         .         .         .         .         .<-------   DIV25
446          .         .         .         .         .         .         .     RR025
             .         .         .         .         .         .         .         .
             .         .         .         .         .         .         .         .
453          .         .         .         .         .         .         .         .         .<------
450          .         .         .         .         .         .         .         .      RR035
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 13

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
50 year, 24 hour Storm
Drainage Area 6

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q6005	140	12.67
HYDROGRAPH AT	Q6010	163	12.67
HYDROGRAPH AT	RR10	34	12.67
ROUTED TO	RD10	32	12.67
2 COMBINED AT	C00	195	12.67
HYDROGRAPH AT	Q6009	443	12.67
HYDROGRAPH AT	RR12	42	12.67
ROUTED TO	RD12	41	12.83
2 COMBINED AT	C0	479	12.67
ROUTED TO	R6009	467	12.67
HYDROGRAPH AT	Q6008	133	12.67
2 COMBINED AT	C1	600	12.67
ROUTED TO	R1	587	12.67
HYDROGRAPH AT	Q6007	35	12.67
2 COMBINED AT	C2	623	12.67
ROUTED TO	R2A	620	12.67
ROUTED TO	R2B	619	12.67
HYDROGRAPH AT	Q6006	32	12.50
2 COMBINED AT	C3	641	12.67
HYDROGRAPH AT	Q6012	42	12.67
ROUTED TO	R6012	42	12.67
HYDROGRAPH AT	Q6011	40	12.67
2 COMBINED AT	C4	82	12.67
ROUTED TO	R4	80	12.67
3 COMBINED AT	C5	861	12.67
HYDROGRAPH AT	Q6004	90	12.50
HYDROGRAPH AT	Q6052	16	12.67
HYDROGRAPH AT	Q6053	38	12.67
HYDROGRAPH AT	Q6054	39	12.67

* Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  12       Q6005
               .
               .
  24           .      Q6010
               .          .
               .          .
  30           .          .       RR10
               .          .          V
               .          .          V
  64           .          .       RD10
               .          .          .
               .          .          .
  68           .        C00............
               .          V
               .          V
  71           .      Q6009 ***
               .          .
               .          .
  77           .          .       RR12
               .          .          V
               .          .          V
 111           .          .       RD12
               .          .          .
               .          .          .
 115           .         C0............
               .          V
               .          V
 118           .      R6009
               .          .
               .          .
 121           .          .      Q6008
               .          .          .
               .          .          .
 128           .         C1............
               .          V
               .          V
 131           .         R1
               .          .
               .          .
 134           .          .      Q6007
               .          .          .
               .          .          .
 141           .         C2............
               .          V
               .          V
 144           .        R2A
               .          V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                 .          V
147              .        R2B
                 .          .
                 .          .
150              .          .      Q6006
                 .          .          .
                 .          .          .
155              .        C3............
                 .          .
                 .          .
158              .          .      Q6012
                 .          .          V
                 .          .          V
164              .          .      R6012
                 .          .          .
                 .          .          .
167              .          .          .      Q6011
                 .          .          .          .
                 .          .          .          .
174              .          .        C4............
                 .          .          V
                 .          .          V
177              .          .        R4
                 .          .          .
                 .          .          .
180            C5........................
                 .
                 .
183              .      Q6004
                 .          .
                 .          .
188              .          .      Q6052
                 .          .          .
                 .          .          .
194              .          .          .      Q6053
                 .          .          .          .
                 .          .          .          .
200              .          .          .          .      Q6054
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 13

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
50 year, 24 hour Storm
Drainage Area 6

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	QP6A	45	12.67
ROUTED TO	RP6A	45	12.67
HYDROGRAPH AT	QP6B	89	12.50
ROUTED TO	RP6B1	85	12.50
ROUTED TO	RP6B2	82	12.67
HYDROGRAPH AT	Q6020	43	12.67
3 COMBINED AT	C7	170	12.67
ROUTED TO	R7A	168	12.67
ROUTED TO	R7B	166	12.67
HYDROGRAPH AT	Q6019	86	12.67
2 COMBINED AT	C8	252	12.67
ROUTED TO	R8	246	12.67
HYDROGRAPH AT	Q6018	59	12.67
2 COMBINED AT	C9	305	12.67
ROUTED TO	R9	299	12.67
HYDROGRAPH AT	Q6017	42	12.67
2 COMBINED AT	C10	341	12.67
DIVERSION TO	DIV10	34	12.67
HYDROGRAPH AT	D10	307	12.67
ROUTED TO	R10	299	12.67
HYDROGRAPH AT	Q6016	51	12.67
2 COMBINED AT	C11	350	12.67
ROUTED TO	R11	339	12.67
HYDROGRAPH AT	Q6015	77	12.67
2 COMBINED AT	C12	416	12.67
DIVERSION TO	DIV12	42	12.67
HYDROGRAPH AT	D12	374	12.67
ROUTED TO	R12	368	12.67
HYDROGRAPH AT	QP6C	92	12.50
ROUTED TO	RP6C	89	12.50
HYDROGRAPH AT	Q6028	43	12.67
2 COMBINED AT	C13	129	12.50
DIVERSION TO	DIV13	26	12.50
HYDROGRAPH AT	D13	103	12.50
ROUTED TO	R13	100	12.50
HYDROGRAPH AT	Q6027	91	12.67
2 COMBINED AT	C14	187	12.67
ROUTED TO	R14	187	12.67
HYDROGRAPH AT	Q6026	96	12.67
2 COMBINED AT	C15	282	12.67
ROUTED TO	R15	274	12.67
HYDROGRAPH AT	Q6025	177	12.67
2 COMBINED AT	C16	451	12.67

* Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
ROUTED TO	R16	448	12.67
HYDROGRAPH AT	QP6D	23	12.50
ROUTED TO	RP6D	23	12.50
HYDROGRAPH AT	Q6030	13	12.50
2 COMBINED AT	C17	36	12.50
ROUTED TO	R17	35	12.50
HYDROGRAPH AT	QP6E	46	12.50
ROUTED TO	RP6E1	45	12.50
ROUTED TO	RP6E2	44	12.50
HYDROGRAPH AT	QP5	46	12.50
ROUTED TO	RP5	45	12.50
HYDROGRAPH AT	Q6031	134	12.50
3 COMBINED AT	C18	222	12.50
ROUTED TO	R18	221	12.50
2 COMBINED AT	C19	256	12.50
ROUTED TO	R19	242	12.67
HYDROGRAPH AT	Q6029	148	12.67
HYDROGRAPH AT	RR13	26	12.50
ROUTED TO	RD13	24	12.67
3 COMBINED AT	C20	414	12.67
HYDROGRAPH AT	Q6033	209	12.50
ROUTED TO	R6033	205	12.50
HYDROGRAPH AT	Q6032	206	12.67
3 COMBINED AT	C21	795	12.50
ROUTED TO	R21	793	12.67
HYDROGRAPH AT	Q6035	57	12.50
ROUTED TO	R6035A	56	12.50
ROUTED TO	R6035B	54	12.50
HYDROGRAPH AT	Q6034	131	12.50
3 COMBINED AT	C22	971	12.67
ROUTED TO	R22	969	12.67
HYDROGRAPH AT	Q6024	21	12.50
3 COMBINED AT	C23	1425	12.67
ROUTED TO	R23A	1422	12.67
ROUTED TO	R23B	1402	12.67
HYDROGRAPH AT	Q6023	129	12.67
2 COMBINED AT	C24	1532	12.67
DIVERSION TO	DIV24	972	12.67
HYDROGRAPH AT	D24	560	12.67
ROUTED TO	R24A	554	12.67
ROUTED TO	R24B	545	12.67
HYDROGRAPH AT	Q6014	49	12.67
3 COMBINED AT	C25	961	12.67
ROUTED TO	R25	936	12.67
HYDROGRAPH AT	Q6013	109	12.67
2 COMBINED AT	C26	1045	12.67
HYDROGRAPH AT	RR24	972	12.67
ROUTED TO	RD24	961	12.83
HYDROGRAPH AT	Q6022	49	12.67
ROUTED TO	R6022	46	12.83
HYDROGRAPH AT	Q6021	56	12.83
3 COMBINED AT	C27	1064	12.83

* Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q6038	141	12.50
HYDROGRAPH AT	Q6037	31	12.50
2 COMBINED AT	C28	172	12.50
ROUTED TO	R28A	169	12.50
ROUTED TO	R28B	165	12.50
HYDROGRAPH AT	Q6036	41	12.83
2 COMBINED AT	C29	195	12.67
ROUTED TO	R29	195	12.67
HYDROGRAPH AT	Q6044	60	12.50
HYDROGRAPH AT	Q6043	178	12.50
HYDROGRAPH AT	Q6042	285	12.50
HYDROGRAPH AT	Q6045	36	12.50
HYDROGRAPH AT	RRDIV2	19	12.50
2 COMBINED AT	C30	55	12.50
ROUTED TO	R30	53	12.50
2 COMBINED AT	C31	338	12.50
HYDROGRAPH AT	Q6041	376	12.50
ROUTED TO	R6041	374	12.50
HYDROGRAPH AT	Q6040	114	12.50
2 COMBINED AT	C32	489	12.50
HYDROGRAPH AT	Q6049B	67	12.67
ROUTED TO	R6049B	65	12.67
HYDROGRAPH AT	Q6049A	36	12.67
3 COMBINED AT	C33	580	12.50
DIVERSION TO	DIV33	58	12.50
HYDROGRAPH AT	D33	522	12.50
ROUTED TO	R33	518	12.67
HYDROGRAPH AT	Q6050	43	12.83
2 COMBINED AT	C34A	560	12.67
DIVERSION TO	DIV34A	504	12.67
HYDROGRAPH AT	D34A	56	12.67
HYDROGRAPH AT	RRDIV5	115	12.83
2 COMBINED AT	C34B	162	12.67
ROUTED TO	R34B	160	12.83
HYDROGRAPH AT	Q6039	83	12.67
HYDROGRAPH AT	RR33	58	12.50
ROUTED TO	RD33	57	12.67
3 COMBINED AT	C35	299	12.67
ROUTED TO	R35	286	12.83
HYDROGRAPH AT	Q6051	29	12.67
ROUTED TO	R6051	29	12.67
3 COMBINED AT	C36	500	12.67
ROUTED TO	R36	489	12.83
2 COMBINED AT	C37	1552	12.83
ROUTED TO	R37	1545	12.83
2 COMBINED AT	C38	2540	12.83
HYDROGRAPH AT	RR34A	504	12.67
ROUTED TO	RD34A	502	12.67

* Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  11        QP6A
               V
               V
  22        RP6A
               .
               .
  25           .        QP6B
               .           V
               .           V
  30           .       RP6B1
               .           V
               .           V
  33           .       RP6B2
               .           .
               .           .
  36           .           .       Q6020
               .           .          .
               .           .          .
  41         C7.......................
               V
               V
  44         R7A
               V
               V
  47         R7B
               .
               .
  50           .       Q6019
               .           .
               .           .
  57         C8............
               V
               V
  60         R8
               .
               .
  63           .       Q6018
               .           .
               .           .
  70         C9............
               V
               V
  73         R9
               .
               .
  76           .       Q6017
               .           .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .          .
 83           C10............
                .
                .
 88             .-------> DIV10
 86           D10
                V
                V
 91           R10
                .
                .
 94             .      Q6016
                .          .
                .          .
 99           C11............
                V
                V
102           R11
                .
                .
105             .      Q6015
                .          .
                .          .
112           C12............
                .
                .
117             .-------> DIV12
115           D12
                V
                V
120           R12
                .
                .
123             .      QP6C
                .        V
                .        V
128             .      RP6C
                .          .
                .          .
131             .          .      Q6028
                .          .          .
                .          .          .
136             .       C13............
                .          .
                .          .
141             .          .-------> DIV13
139             .       D13
                .        V
                .        V
144             .       R13
                .          .
                .          .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
147   .       .     Q6027
      .       .       .
      .       .       .
153   .     C14............
      .       V
      .       V
156   .     R14
      .       .
      .       .
159   .       .     Q6026
      .       .       .
      .       .       .
166   .     C15............
      .       V
      .       V
169   .     R15
      .       .
      .       .
172   .       .     Q6025
      .       .       .
      .       .       .
178   .     C16............
      .       V
      .       V
181   .     R16
      .       .
      .       .
184   .       .     QP6D
      .       .       V
      .       .       V
189   .       .     RP6D
      .       .       .
      .       .       .
192   .       .       .     Q6030
      .       .       .       .
      .       .       .       .
197   .       .     C17............
      .       .       V
      .       .       V
200   .       .     R17
      .       .       .
      .       .       .
203   .       .       .     QP6E
      .       .       .       V
      .       .       .       V
208   .       .       .     RP6E1
      .       .       .       V
      .       .       .       V
211   .       .       .     RP6E2
      .       .       .       .
      .       .       .       .
214   .       .       .       .       QP5
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                 .         .         .         .         V
                 .         .         .         .         V
219              .         .         .         .       RP5
                 .         .         .         .         .
                 .         .         .         .         .
222              .         .         .         .         .      Q6031
                 .         .         .         .         .         .
                 .         .         .         .         .         .
227              .         .         .       C18.......................
                 .         .         .         V
                 .         .         .         V
230              .         .         .       R18
                 .         .         .         .
                 .         .         .         .
233              .         .       C19............
                 .         .         V
                 .         .         V
236              .         .       R19
                 .         .         .
                 .         .         .
239              .         .         .      Q6029
                 .         .         .         .
                 .         .         .         .
248              .         .         .         .         .<-------   DIV13
246              .         .         .         .       RR13
                 .         .         .         .         V
                 .         .         .         .         V
249              .         .         .         .       RD13
                 .         .         .         .         .
                 .         .         .         .         .
252              .         .       C20.......................
                 .         .         .
                 .         .         .
255              .         .         .      Q6033
                 .         .         .         V
                 .         .         .         V
260              .         .         .      R6033
                 .         .         .         .
                 .         .         .         .
263              .         .         .         .      Q6032
                 .         .         .         .         .
                 .         .         .         .         .
270              .         .       C21.......................
                 .         .         V
                 .         .         V
273              .         .       R21
                 .         .         .
                 .         .         .
276              .         .         .      Q6035
                 .         .         .         V
                 .         .         .         V
281              .         .         .     R6035A
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                 .         .         .         V
                 .         .         .         V
284              .         .         .     R6035B
                 .         .         .         .
                 .         .         .         .
287              .         .         .         .      Q6034
                 .         .         .         .         .
                 .         .         .         .         .
292              .         .       C22.......................
                 .         .         V
                 .         .         V
295              .         .       R22
                 .         .         .
                 .         .         .
298              .         .         .      Q6024
                 .         .         .         .
                 .         .         .         .
303              .       C23.......................
                 .         V
                 .         V
306              .       R23A
                 .         V
                 .         V
309              .       R23B
                 .         .
                 .         .
312              .         .      Q6023
                 .         .         .
                 .         .         .
319              .       C24............
                 .         .
                 .         .
324              .         .-------> DIV24
322              .       D24
                 .         V
                 .         V
327              .       R24A
                 .         V
                 .         V
330              .       R24B
                 .         .
                 .         .
333              .         .      Q6014
                 .         .         .
                 .         .         .
340            C25.......................
                 V
                 V
343            R25
                 .
                 .
346              .      Q6013
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .         .
                .         .
353         C26............
                .
                .
358             .         .<-------   DIV24
356             .      RR24
                .        V
                .        V
359             .      RD24
                .         .
                .         .
362             .         .      Q6022
                .         .         V
                .         .         V
369             .         .      R6022
                .         .         .
                .         .         .
372             .         .         .      Q6021
                .         .         .         .
                .         .         .         .
377             .       C27.......................
                .         .
                .         .
380             .         .      Q6038
                .         .         .
                .         .         .
385             .         .         .      Q6037
                .         .         .         .
                .         .         .         .
390             .         .       C28............
                .         .         V
                .         .         V
393             .         .      R28A
                .         .         V
                .         .         V
396             .         .      R28B
                .         .         .
                .         .         .
399             .         .         .      Q6036
                .         .         .         .
                .         .         .         .
404             .         .       C29............
                .         .         V
                .         .         V
407             .         .       R29
                .         .         .
                .         .         .
410             .         .         .      Q6044
                .         .         .         V
                .         .         .         V
415             .         .         .      Q6043 ***
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                 .         .         .         V
                 .         .         .         V
421              .         .         .      Q6042 ***
                 .         .         .         .
                 .         .         .         .
427              .         .         .         .      Q6045
                 .         .         .         .         .
                 .         .         .         .         .
432              .         .         .         .         .     RRDIV2
                 .         .         .         .         .         .
                 .         .         .         .         .         .
466              .         .         .         .       C30............
                 .         .         .         .         V
                 .         .         .         .         V
470              .         .         .         .       R30
                 .         .         .         .         .
                 .         .         .         .         .
473              .         .         .       C31............
                 .         .         .         V
                 .         .         .         V
476              .         .         .      Q6041 ***
                 .         .         .         V
                 .         .         .         V
482              .         .         .      R6041
                 .         .         .         .
                 .         .         .         .
485              .         .         .         .      Q6040
                 .         .         .         .         .
                 .         .         .         .         .
490              .         .         .       C32............
                 .         .         .         .
                 .         .         .         .
493              .         .         .         .     Q6049B
                 .         .         .         .         V
                 .         .         .         .         V
499              .         .         .         .     R6049B
                 .         .         .         .         .
                 .         .         .         .         .
502              .         .         .         .         .     Q6049A
                 .         .         .         .         .         .
                 .         .         .         .         .         .
507              .         .         .       C33.......................
                 .         .         .         .
                 .         .         .         .
512              .         .         .         .-------->   DIV33
510              .         .         .       D33
                 .         .         .         V
                 .         .         .         V
515              .         .         .       R33
                 .         .         .         .
                 .         .         .         .
518              .         .         .         .      Q6050
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .         .         .         .         .
                .         .         .         .         .
523             .         .         .       C34A.........
                .         .         .         .
                .         .         .         .
528             .         .         .         .-------> DIV34A
526             .         .         .       D34A
                .         .         .         .
                .         .         .         .
531             .         .         .         .     RRDIV5
                .         .         .         .         .
                .         .         .         .         .
565             .         .         .       C34B.........
                .         .         .         V
                .         .         .         V
569             .         .         .       R34B
                .         .         .         .
                .         .         .         .
572             .         .         .         .      Q6039
                .         .         .         .         .
                .         .         .         .         .
581             .         .         .         .         .         .<-------   DIV33
579             .         .         .         .         .       RR33
                .         .         .         .         .         V
                .         .         .         .         .         V
582             .         .         .         .         .       RD33
                .         .         .         .         .         .
                .         .         .         .         .         .
585             .         .         .       C35.......................
                .         .         .         V
                .         .         .         V
588             .         .         .       R35
                .         .         .         .
                .         .         .         .
591             .         .         .         .      Q6051
                .         .         .         .         V
                .         .         .         .         V
598             .         .         .         .      R6051
                .         .         .         .         .
                .         .         .         .         .
601             .         .       C36.......................
                .         .         V
                .         .         V
604             .         .       R36
                .         .         .
                .         .         .
607             .       C37.........
                .         V
                .         V
610             .       R37
                .         .
                .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
613        C38............
             .
             .
618          .          .<-------  DIV34A
616          .      RR34A
             .          V
             .          V
619          .      RD34A
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 13

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
50 year, 24 hour Storm
Drainage Area 7

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q7023	76	12.67
ROUTED TO	R7023	74	12.67
HYDROGRAPH AT	Q7022	52	12.67
ROUTED TO	R7022	52	12.67
HYDROGRAPH AT	Q7021	60	12.67
3 COMBINED AT	HC1	186	12.67
ROUTED TO	R7021	178	12.83
HYDROGRAPH AT	QP2E	91	12.50
ROUTED TO	RP2E	87	12.67
HYDROGRAPH AT	QP2D	41	12.50
ROUTED TO	RP2D	39	12.50
HYDROGRAPH AT	QP2C	76	12.50
ROUTED TO	RP2C	75	12.50
HYDROGRAPH AT	QP2A	470	12.50
4 COMBINED AT	HC2	667	12.50
ROUTED TO	RP2A	655	12.50
HYDROGRAPH AT	QP1C	61	12.83
ROUTED TO	RPC1	60	12.83
HYDROGRAPH AT	QP2B	36	12.83
ROUTED TO	RP2B	36	12.83
HYDROGRAPH AT	Q7020	91	12.67
5 COMBINED AT	HC3	997	12.67
ROUTED TO	R7020	988	12.67
HYDROGRAPH AT	QP1B	53	I2.83
ROUTED TO	RP1B	52	13.00
HYDROGRAPH AT	Q7025	34	12.83
ROUTED TO	R7025	34	12.83
HYDROGRAPH AT	Q7024	69	12.67
ROUTED TO	R7024	69	12.67
HYDROGRAPH AT	Q7019	56	12.67
4 COMBINED AT	HC4	199	12.67
HYDROGRAPH AT	QP1A	35	12.67
ROUTED TO	R1A	35	12.67
HYDROGRAPH AT	Q7028	14	12.50
ROUTED TO	R7028	13	12.67
HYDROGRAPH AT	Q7027	53	12.67
3 COMBINED AT	HC5	101	12.67
ROUTED TO	R5	98	12.67
HYDROGRAPH AT	Q7029	44	13.00
2 COMBINED AT	HC6	134	12.83
ROUTED TO	R6	133	12.83
3 COMBINED AT	HC7	1306	12.67
ROUTED TO	R7	1291	12.67

* Note: Refer to Hydrology Exhibit Sheets 1,2 and 3 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q7018	54	12.67
2 COMBINED AT	HC8	1346	12.67
HYDROGRAPH AT	Q7031	109	12.67
ROUTED TO	R7031	100	12.67
HYDROGRAPH AT	Q7030	59	12.67
ROUTED TO	R7030	58	12.67
3 COMBINED AT	HC9	1504	12.67
ROUTED TO	R9	1487	12.67
HYDROGRAPH AT	Q7017	57	12.67
2 COMBINED AT	HC10	1544	12.67
ROUTED TO	R10	1511	12.67
HYDROGRAPH AT	Q7032	142	12.67
ROUTED TO	R032	136	12.67
HYDROGRAPH AT	Q7016	70	12.67
3 COMBINED AT	HC11	1717	12.67
HYDROGRAPH AT	Q7015	6	12.50
ROUTED TO	R7015	5	12.67
HYDROGRAPH AT	Q7014	159	12.67
2 COMBINED AT	HC12	164	12.67
ROUTED TO	R12	163	12.67
HYDROGRAPH AT	Q7013	6	12.50
ROUTED TO	R7013	5	12.83
HYDROGRAPH AT	Q7012	54	12.67
3 COMBINED AT	HC13	223	12.67
ROUTED TO	R13	219	12.67
HYDROGRAPH AT	Q7011	29	12.50
ROUTED TO	R011	28	12.50
HYDROGRAPH AT	Q7010	27	12.67
2 COMBINED AT	HC14	54	12.50
ROUTED TO	R14	52	12.67
HYDROGRAPH AT	Q7008	27	12.83
ROUTED TO	R7008	27	12.83
HYDROGRAPH AT	Q7009	41	12.67
5 COMBINED AT	HC15	2053	12.67
ROUTED TO	R15	1954	12.67
ROUTED TO	R15	1944	12.83
HYDROGRAPH AT	Q7007A	118	12.67
HYDROGRAPH AT	Q7007B	58	12.67
2 COMBINED AT	HC16	176	12.67
ROUTED TO	R16	172	12.67
HYDROGRAPH AT	Q7003A	81	12.67
2 COMBINED AT	HC17	254	12.67
ROUTED TO	R17	249	12.67
HYDROGRAPH AT	Q7006	97	12.50
ROUTED TO	R6	94	12.50
HYDROGRAPH AT	Q7005	94	12.67
2 COMBINED AT	HC18	179	12.50
ROUTED TO	R18	177	12.67
HYDROGRAPH AT	Q7004	64	12.67
2 COMBINED AT	HC19	241	12.67
ROUTED TO	R19	239	12.67
HYDROGRAPH AT	Q6046	102	12.50

* Note: Refer to Hydrology Exhibit Sheets 1,2 and 3 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
DIVERSION TO	DIV1	10	12.50
HYDROGRAPH AT	D6046	91	12.50
ROUTED TO	R6046	91	12.50
HYDROGRAPH AT	Q6048	9	12.50
HYDROGRAPH AT	Q6047	106	12.67
2 COMBINED AT	HC24	190	12.50
DIVERSION TO	DIV2	19	12.50
HYDROGRAPH AT	DC24	171	12.50
ROUTED TO	RC24	169	12.50
HYDROGRAPH AT	Q7003B	77	12.67
5 COMBINED AT	HC20	2553	12.67
DIVERSION TO	DIV3	255	12.67
HYDROGRAPH AT	DHC20	2298	12.67
ROUTED TO	R20	2271	12.83
HYDROGRAPH AT	Q7002B	94	12.67
2 COMBINED AT	HC21	2337	12.83
DIVERSION TO	DIV4	234	12.83
HYDROGRAPH AT	DHC21	2103	12.83
ROUTED TO	R21	2100	12.83
HYDROGRAPH AT	Q7002A	96	12.67
ROUTED TO	R2A	91	12.67
HYDROGRAPH AT	Q7002C	27	12.83
2 COMBINED AT	HC22	116	12.83
ROUTED TO	R22	116	12.83
HYDROGRAPH AT	Q7001B	48	13.50
3 COMBINED AT	HC23	2248	12.83
HYDROGRAPH AT	RDIV4	234	12.83
ROUTED TO	RRDIV4	231	12.83
DIVERSION TO	DIV5	116	12.83
HYDROGRAPH AT	DDIV4	116	12.83
ROUTED TO	RDIV5	111	13.00
HYDROGRAPH AT	RDIV3	255	12.67
HYDROGRAPH AT	Q7001A	278	12.67
ROUTED TO	R7001A	277	12.83
HYDROGRAPH AT	Q7001C	37	12.50
4 COMBINED AT	HCB	2662	12.83

* Note: Refer to Hydrology Exhibit Sheets 1,2 and 3 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  11      Q7023
             V
             V
  22      R7023
             .
             .
  25         .      Q7022
             .         V
             .         V
  30         .      R7022
             .         .
             .         .
  33         .         .      Q7021
             .         .         .
             .         .         .
  38       HC1.......................
             V
             V
  41      R7021
             .
             .
  44         .       QP2E
             .         V
             .         V
  49         .       RP2E
             .         .
             .         .
  52         .         .       QP2D
             .         .         V
             .         .         V
  57         .         .       RP2D
             .         .         .
             .         .         .
  60         .         .         .       QP2C
             .         .         .         V
             .         .         .         V
  65         .         .         .       RP2C
             .         .         .         .
             .         .         .         .
  68         .         .         .         .       QP2A
             .         .         .         .         .
             .         .         .         .         .
  73         .       HC2.....................................
             .         V
             .         V
  76         .       RP2A
             .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .         .
79              .         .       QP1C
                .         .         V
                .         .         V
84              .         .       RPC1
                .         .         .
                .         .         .
87              .         .         .       QP2B
                .         .         .         V
                .         .         .         V
92              .         .         .       RP2B
                .         .         .         .
                .         .         .         .
95              .         .         .         .       Q7020
                .         .         .         .         .
                .         .         .         .         .
100           HC3.........................................
                V
                V
103         R7020
                .
                .
106             .       QP1B
                .         V
                .         V
111             .       RP1B
                .         .
                .         .
114             .         .     Q7025
                .         .       V
                .         .       V
119             .         .     R7025
                .         .       .
                .         .       .
122             .         .       .     Q7024
                .         .       .       V
                .         .       .       V
128             .         .       .     R7024
                .         .       .       .
                .         .       .       .
131             .         .       .       .       Q7019
                .         .       .       .         .
                .         .       .       .         .
137             .       HC4.................................
                .         .
                .         .
140             .         .     QP1A
                .         .       V
                .         .       V
145             .         .      R1A
                .         .       .
                .         .       .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
148          .          .          .      Q7028
             .          .          .          V
             .          .          .          V
153          .          .          .      R7028
             .          .          .          .
             .          .          .          .
156          .          .          .          .      Q7027
             .          .          .          .          .
             .          .          .          .          .
161          .          .        HC5.......................
             .          .          V
             .          .          V
164          .          .         R5
             .          .          .
             .          .          .
167          .          .          .      Q7029
             .          .          .          .
             .          .          .          .
172          .          .        HC6............
             .          .          V
             .          .          V
175          .          .         R6
             .          .          .
             .          .          .
178        HC7.......................
             V
             V
181         R7
             .
             .
184          .      Q7018
             .          .
             .          .
189        HC8............
             .
             .
192          .      Q7031
             .          V
             .          V
198          .      R7031
             .          .
             .          .
201          .          .      Q7030
             .          .          V
             .          .          V
207          .          .      R7030
             .          .          .
             .          .          .
210        HC9.......................
             V
             V
213         R9
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .
                .
216             .      Q7017
                .          .
                .          .
222          HC10............
               V
               V
225           R10
                .
                .
228             .      Q7032
                .          V
                .          V
234             .       R032
                .          .
                .          .
237             .          .      Q7016
                .          .          .
                .          .          .
243          HC11......................
                .
                .
246             .      Q7015
                .          V
                .          V
251             .      R7015
                .          .
                .          .
254             .          .      Q7014
                .          .          .
                .          .          .
260             .       HC12............
                .          V
                .          V
263             .        R12
                .          .
                .          .
266             .          .      Q7013
                .          .          V
                .          .          V
271             .          .      R7013
                .          .          .
                .          .          .
274             .          .          .      Q7012
                .          .          .          .
                .          .          .          .
280             .       HC13......................
                .          V
                .          V
283             .        R13
                .          .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .         .
286             .         .      Q7011
                .         .         V
                .         .         V
291             .         .       R011
                .         .         .
                .         .         .
294             .         .         .      Q7010
                .         .         .         .
                .         .         .         .
299             .         .       HC14............
                .         .         V
                .         .         V
302             .         .        R14
                .         .         .
                .         .         .
305             .         .         .      Q7008
                .         .         .         V
                .         .         .         V
310             .         .         .      R7008
                .         .         .         .
                .         .         .         .
313             .         .         .         .      Q7009
                .         .         .         .         .
                .         .         .         .         .
319          HC15.............................................
                V
                V
322           R15
                V
                V
325           R15
                .
                .
328             .     Q7007A
                .         .
                .         .
334             .         .     Q7007B
                .         .         .
                .         .         .
340             .       HC16............
                .         V
                .         V
343             .       R16
                .         .
                .         .
346             .         .     Q7003A
                .         .         .
                .         .         .
352             .       HC17............
                .         V
                .         V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
355          .        R17
             .          .
             .          .
358          .          .      Q7006
             .          .         V
             .          .         V
363          .          .        R6
             .          .         .
             .          .         .
366          .          .         .      Q7005
             .          .         .          .
             .          .         .          .
371          .          .       HC18............
             .          .         V
             .          .         V
374          .          .       R18
             .          .         .
             .          .         .
377          .          .         .      Q7004
             .          .         .          .
             .          .         .          .
383          .          .       HC19............
             .          .         V
             .          .         V
386          .          .       R19
             .          .         .
             .          .         .
389          .          .         .      Q6046
             .          .         .          .
             .          .         .          .
396          .          .         .          .-------->    DIV1
394          .          .         .      D6046
             .          .         .          V
             .          .         .          V
399          .          .         .      R6046
             .          .         .          .
             .          .         .          .
402          .          .         .          .      Q6048
             .          .         .          .          V
             .          .         .          .          V
407          .          .         .          .      Q6047 ***
             .          .         .          .          .
             .          .         .          .          .
413          .          .         .       HC24............
             .          .         .          .
             .          .         .          .
418          .          .         .          .-------->    DIV2
416          .          .         .       DC24
             .          .         .          V
             .          .         .          V
421          .          .         .       RC24
             .          .         .          .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .          .          .          .
424             .          .          .          .     Q7003B
                .          .          .          .          .
                .          .          .          .          .
430          HC20.............................................
                .
                .
435             .------->    DIV3
433         DHC20
                V
                V
438           R20
                .
                .
441             .     Q7002B
                .          .
                .          .
447          HC21............
                .
                .
452             .------->    DIV4
450         DHC21
                V
                V
455           R21
                .
                .
458             .     Q7002A
                .          V
                .          V
464             .        R2A
                .          .
                .          .
467             .          .     Q7002C
                .          .          .
                .          .          .
472             .       HC22............
                .          V
                .          V
475             .        R22
                .          .
                .          .
478             .          .     Q7001B
                .          .          .
                .          .          .
483          HC23........................
                .
                .
488             .          .<-------    DIV4
486             .      RDIV4
                .          V
                .          V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
489          .     RRDIV4
             .         .
             .         .
494          .         .------->   DIV5
492          .     DDIV4
             .         V
             .         V
497          .     RDIV5
             .         .
             .         .
502          .         .         .<-------   DIV3
500          .         .     RDIV3
             .         .         V
             .         .         V
503          .         .    Q7001A ***
             .         .         V
             .         .         V
509          .         .    R7001A
             .         .         .
             .         .         .
512          .         .         .     Q7001C
             .         .         .         .
             .         .         .         .
517        HCB.................................
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 13

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
50 year, 24 hour Storm
Drainage Area 7

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q7034	127	12.50
ROUTED TO	R7034	122	12.50
HYDROGRAPH AT	Q7033	42	12.83
HYDROGRAPH AT	Q7035	66	12.50
ROUTED TO	R7035	63	12.50
3 COMBINED AT	C1	214	12.50
ROUTED TO	R1	205	12.50
HYDROGRAPH AT	Q7032A	69	12.67
2 COMBINED AT	C2	271	12.67
ROUTED TO	R2A	270	12.67
ROUTED TO	R2B	261	12.67
HYDROGRAPH AT	Q7044	148	12.50
ROUTED TO	R7044	144	12.50
HYDROGRAPH AT	Q7043	18	12.67
2 COMBINED AT	C3	160	12.50
ROUTED TO	R3	158	12.67
HYDROGRAPH AT	Q7042	199	12.67
2 COMBINED AT	C4	357	12.67
ROUTED TO	R4	353	12.67
HYDROGRAPH AT	Q7041	32	13.17
3 COMBINED AT	C5	637	12.67
ROUTED TO	R5	608	12.67
HYDROGRAPH AT	Q7040	33	12.67
2 COMBINED AT	C6	641	12.67
ROUTED TO	R6	623	12.67
HYDROGRAPH AT	Q7039	56	12.67
2 COMBINED AT	C7	679	12.67
ROUTED TO	R7	666	12.67
HYDROGRAPH AT	Q7038	43	12.67
2 COMBINED AT	C8	709	12.67
HYDROGRAPH AT	Q7050	152	12.67
ROUTED TO	R7050	147	12.67
HYDROGRAPH AT	Q7049	40	12.83
2 COMBINED AT	C1	185	12.67
ROUTED TO	R1	183	12.83
HYDROGRAPH AT	Q7051	80	13.00
ROUTED TO	R7051	77	13.17
HYDROGRAPH AT	Q7048	86	14.00
3 COMBINED AT	C2	286	13.00
ROUTED TO	R2	283	13.00
HYDROGRAPH AT	Q7047	144	12.67
2 COMBINED AT	C3	365	12.83
HYDROGRAPH AT	Q7046	173	12.67

* Note: Refer to Hydrology Exhibit Sheets 1,2 and 3 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q7045	135	12.67
HYDROGRAPH AT	Q7037	141	12.67
ROUTED TO	R7037	128	12.83
HYDROGRAPH AT	Q7036	155	12.67
2 COMBINED AT	C1	265	12.67
HYDROGRAPH AT	Q7002D	48	12.67

* Note: Refer to Hydrology Exhibit Sheets 1,2 and 3 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
INPUT
LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

 NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

 11       Q7034
             V
             V
 22       R7034
             .
             .
 25          .       Q7033
             .          .
             .          .
 30          .          .       Q7035
             .          .          V
             .          .          V
 35          .          .       R7035
             .          .          .
             .          .          .
 38         C1.......................
             V
             V
 41         R1
             .
             .
 44          .      Q7032A
             .          .
             .          .
 50         C2............
             V
             V
 53        R2A
             V
             V
 56        R2B
             .
             .
 59          .       Q7044
             .          V
             .          V
 64          .       R7044
             .          .
             .          .
 67          .          .       Q7043
             .          .          .
             .          .          .
 73          .         C3............
             .          V
             .          V
 76          .         R3
             .          .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .          .
 79             .          .      Q7042
                .          .          .
                .          .          .
 85             .         C4............
                .          V
                .          V
 88             .         R4
                .          .
                .          .
 91             .          .      Q7041
                .          .          .
                .          .          .
 96            C5........................
                V
                V
 99            R5
                .
                .
102             .      Q7040
                .          .
                .          .
108            C6............
                V
                V
111            R6
                .
                .
114             .      Q7039
                .          .
                .          .
120            C7............
                V
                V
123            R7
                .
                .
126             .      Q7038
                .          .
                .          .
132            C8............
                .
                .
135             .      Q7050
                .          V
                .          V
142             .      R7050
                .          .
                .          .
145             .          .      Q7049
                .          .          .
                .          .          .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
150          .        C1............
             .         V
             .         V
153          .        R1
             .         .
             .         .
156          .         .      Q7051
             .         .          V
             .         .          V
161          .         .      R7051
             .         .          .
             .         .          .
164          .         .          .      Q7048
             .         .          .          .
             .         .          .          .
169          .        C2......................
             .         V
             .         V
172          .        R2
             .         .
             .         .
175          .         .      Q7047
             .         .          .
             .         .          .
182          .        C3............
             .         .
             .         .
185          .         .      Q7046
             .         .          .
             .         .          .
192          .         .          .      Q7045
             .         .          .          .
             .         .          .          .
199          .         .          .          .      Q7037
             .         .          .          .          V
             .         .          .          .          V
205          .         .          .          .      R7037
             .         .          .          .          .
             .         .          .          .          .
208          .         .          .          .          .      Q7036
             .         .          .          .          .          .
             .         .          .          .          .          .
214          .         .          .          .         C1............
             .         .          .          .          .
             .         .          .          .          .
217          .         .          .          .          .      Q7002D
```

(AAA) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 13

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
50 year, 24 hour Storm
Drainage Area 8

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q800	27	12.50
HYDROGRAPH AT	Q801C	263	12.50
HYDROGRAPH AT	Q801A	333	12.67
HYDROGRAPH AT	Q802B	42	13.00
ROUTED TO	R802B	42	13.17
2 COMBINED AT	C2	363	12.67
HYDROGRAPH AT	Q802A	82	12.67
HYDROGRAPH AT	Q803A	184	12.67
ROUTED TO	R803A	179	12.67
HYDROGRAPH AT	Q803B	89	12.67
ROUTED TO	R803B	84	12.83
HYDROGRAPH AT	Q806	33	12.83
2 COMBINED AT	C3	117	12.83
HYDROGRAPH AT	Q804A	33	12.83
ROUTED TO	R804A	32	13.00
ROUTED TO	R804A	32	13.17
HYDROGRAPH AT	Q804B	31	12.67
HYDROGRAPH AT	Q805	186	12.67
ROUTED TO	R805	174	12.83
2 COMBINED AT	C0	201	12.83
HYDROGRAPH AT	Q807	50	13.17
2 COMBINED AT	C4	245	12.83
HYDROGRAPH AT	Q808	30	12.50
ROUTED TO	R808	29	12.67
HYDROGRAPH AT	Q809	46	12.50
ROUTED TO	R809	46	12.67
2 COMBINED AT	C7	74	12.67
HYDROGRAPH AT	Q810	8	12.67
ROUTED TO	R810	8	12.83
HYDROGRAPH AT	Q811	73	13.00
3 COMBINED AT	C5	144	12.67
ROUTED TO	RC5	138	12.83
2 COMBINED AT	C6	383	12.83
HYDROGRAPH AT	Q812A	258	12.50
HYDROGRAPH AT	Q812B	93	12.50
HYDROGRAPH AT	Q813	28	12.67
HYDROGRAPH AT	Q814	38	12.67

* Note: Refer to Hydrology Exhibit Sheet 1 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  10       Q800
              .
              .
  21          .      Q801C
              .         V
              .         V
  26          .      Q801A ***
              .         .
              .         .
  32          .         .      Q802B
              .         .         V
              .         .         V
  37          .         .      R802B
              .         .         .
              .         .         .
  40          .        C2............
              .         .
              .         .
  43          .         .      Q802A
              .         .         .
              .         .         .
  48          .         .         .      Q803A
              .         .         .         V
              .         .         .         V
  54          .         .         .      R803A
              .         .         .         .
              .         .         .         .
  57          .         .         .         .      Q803B
              .         .         .         .         V
              .         .         .         .         V
  63          .         .         .         .      R803B
              .         .         .         .         .
              .         .         .         .         .
  66          .         .         .         .         .      Q806
              .         .         .         .         .         .
              .         .         .         .         .         .
  71          .         .         .         .        C3............
              .         .         .         .         .
              .         .         .         .         .
  74          .         .         .         .         .      Q804A
              .         .         .         .         .         V
              .         .         .         .         .         V
  79          .         .         .         .         .      R804A
              .         .         .         .         .         V
              .         .         .         .         .         V
  82          .         .         .         .         .      R804A
              .         .         .         .         .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
85                                  Q804B
                                      V
                                      V
90                                  Q805 ***
                                      V
                                      V
96                                  R805
                                      .
                                      .
99                                C0............
                                  .
                                  .
102                                 Q807
                                      .
                                      .
107                               C4............
                                  .
                                  .
110                                 Q808
                                      V
                                      V
115                                 R808
                                      .
                                      .
118                                   .       Q809
                                      .         V
                                      .         V
123                                   .       R809
                                      .         .
                                      .         .
126                                 C7............
                                      .
                                      .
129                                   .       Q810
                                      .         V
                                      .         V
134                                   .       R810
                                      .         .
                                      .         .
137                                   .         .       Q811
                                      .         .         .
                                      .         .         .
142                                 C5.......................
                                      V
                                      V
145                                 RC5
                                      .
                                      .
148                               C6............
                                  .
                                  .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
151          .          .          .          .          .          .      Q812A
             .          .          .          .          .          .          .
             .          .          .          .          .          .          .
156          .          .          .          .          .          .          .      Q812B
             .          .          .          .          .          .          .          .
             .          .          .          .          .          .          .          .
161          .          .          .          .          .          .          .          .      Q813
*** HEC1 ERROR 5 *** TOO MANY HYDROGRAPHS. COMBINE MORE OFTEN.
             .          .          .          .          .          .          .          .
             .          .          .          .          .          .          .          .
167          .          .          .          .          .          .          .          .      Q814
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 13

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
50 year, 24 hour Storm
Drainage Area 8

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q815A	85	13.00
ROUTED TO	R815A	85	13.00
HYDROGRAPH AT	Q815B	17	13.33
ROUTED TO	R815B	17	13.50
HYDROGRAPH AT	Q815C	153	12.83
2 COMBINED AT	C1	163	13.00
HYDROGRAPH AT	Q817	98	12.67
ROUTED TO	R817	92	12.83
HYDROGRAPH AT	Q820	25	12.67
ROUTED TO	R820	25	12.83
HYDROGRAPH AT	Q816	192	12.50
3 COMBINED AT	C2	293	12.67
HYDROGRAPH AT	Q818	44	12.67
HYDROGRAPH AT	Q819	54	12.67
HYDROGRAPH AT	Q822	21	12.67
HYDROGRAPH AT	Q821	128	12.67
HYDROGRAPH AT	Q823	129	12.67
HYDROGRAPH AT	Q824	27	12.67
HYDROGRAPH AT	Q825	42	12.67
HYDROGRAPH AT	Q826	55	12.50

* Note: Refer to Hydrology Exhibit Sheet 1 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  10      Q815A
             V
             V
  21      R815A
             .
             .
  24         .      Q815B
             .         V
             .         V
  29         .      R815B
             .         .
             .         .
  32         .         .      Q815C
             .         .         .
             .         .         .
  37         .        C1............
             .         .
             .         .
  40         .         .       Q817
             .         .          V
             .         .          V
  46         .         .       R817
             .         .         .
             .         .         .
  49         .         .         .       Q820
             .         .         .          V
             .         .         .          V
  54         .         .         .       R820
             .         .         .         .
             .         .         .         .
  57         .         .         .         .       Q816
             .         .         .         .         .
             .         .         .         .         .
  62         .         .        C2.......................
             .         .         .
             .         .         .
  65         .         .         .       Q818
             .         .         .         .
             .         .         .         .
  70         .         .         .         .       Q819
             .         .         .         .         .
             .         .         .         .         .
  76         .         .         .         .         .       Q822
             .         .         .         .         .         .
             .         .         .         .         .         .
  82         .         .         .         .         .         .       Q821
             .         .         .         .         .         .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 13

```
                .         .         .         .         .         .         .
  88            .         .         .         .         .         .         .      Q823
                .         .         .         .         .         .         .         .
                .         .         .         .         .         .         .         .
  94            .         .         .         .         .         .         .         .      Q824
*** HEC1 ERROR 5 *** TOO MANY HYDROGRAPHS. COMBINE MORE OFTEN.
                .         .         .         .         .         .         .         .
                .         .         .         .         .         .         .         .
 100            .         .         .         .         .         .         .         .      Q825
*** HEC1 ERROR 5 *** TOO MANY HYDROGRAPHS. COMBINE MORE OFTEN.
                .         .         .         .         .         .         .         .
                .         .         .         .         .         .         .         .
 106            .         .         .         .         .         .         .         .      Q826
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 14

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
100 year, 24 hour Storm
Drainage Area 1

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q1001	58	12.83
ROUTED TO	R001	36	14.17
HYDROGRAPH AT	Q1002	85	12.83
2 COMBINED AT	C001	85	12.83
HYDROGRAPH AT	Q1003	59	12.83
HYDROGRAPH AT	Q1004	154	12.50

* Note: Refer to Hydrology Exhibit Sheet 7 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
INPUT
 LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  12        Q1001
                V
                V
  23         R001
                .
                .
  26            .       Q1002
                .           .
                .           .
  31         C001............
                .
                .
  34            .       Q1003
                .           .
                .           .
  39            .           .       Q1004
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 14

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
100 year, 24 hour Storm
Drainage Area 2

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q2023	246	12.67
ROUTED TO	R001	245	12.67
HYDROGRAPH AT	Q2024	117	12.50
2 COMBINED AT	C001	360	12.67
ROUTED TO	R002	358	12.67
HYDROGRAPH AT	Q2025	172	12.67
2 COMBINED AT	C002	530	12.67
HYDROGRAPH AT	Q2026	71	12.50
ROUTED TO	R003	67	12.67
HYDROGRAPH AT	Q2027	460	12.67
3 COMBINED AT	C003	1056	12.67
ROUTED TO	R004	1051	12.67
HYDROGRAPH AT	Q2028	266	12.67
HYDROGRAPH AT	Q2029	478	12.67
3 COMBINED AT	C004	1795	12.67
ROUTED TO	R005	1793	12.67

* Note: Refer to Hydrology Exhibit Sheets 6 and 7 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
INPUT
 LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  12       Q2023
              V
              V
  24        R001
              .
              .
  27          .       Q2024
              .          .
              .          .
  32        C001............
              V
              V
  35        R002
              .
              .
  38          .       Q2025
              .          .
              .          .
  44        C002............
              .
              .
  47          .       Q2026
              .          V
              .          V
  52          .        R003
              .          .
              .          .
  55          .          .      Q2027
              .          .         .
              .          .         .
  61        C003......................
              V
              V
  64        R004
              .
              .
  67          .       Q2028
              .          .
              .          .
  73          .          .      Q2029
              .          .         .
              .          .         .
  79        C004......................
              V
              V
  82        R005
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 14

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
100 year, 24 hour Storm
Drainage Area 2

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q2001	332	13.83
ROUTED TO	R001	300	14.50
HYDROGRAPH AT	Q2002	653	14.50
2 COMBINED AT	C001	953	14.50
DIVERSION TO	DIV1	95	14.50
HYDROGRAPH AT	D001	858	14.50
ROUTED TO	R002	855	14.50
HYDROGRAPH AT	Q2005	1241	12.67
2 COMBINED AT	C002	1339	12.67
ROUTED TO	RD001	0	0.17
HYDROGRAPH AT	Q2031	175	13.83
ROUTED TO	R003	173	14.17
HYDROGRAPH AT	Q2030	258	13.50
ROUTED TO	R004	256	13.83
HYDROGRAPH AT	Q2004	204	15.17
HYDROGRAPH AT	RR001	95	14.50
4 COMBINED AT	C003	662	14.17
ROUTED TO	R005	661	14.33
HYDROGRAPH AT	Q2006	355	14.33
2 COMBINED AT	C004	1016	14.33
ROUTED TO	R006	1015	14.33
2 COMBINED AT	C005	1015	14.33
ROUTED TO	R007	1009	14.67
HYDROGRAPH AT	Q2007	279	12.67
HYDROGRAPH AT	Q2008	253	12.67
3 COMBINED AT	C006	1039	14.50
HYDROGRAPH AT	Q2010	53	12.67
ROUTED TO	R008	49	12.67
HYDROGRAPH AT	Q2009	355	12.67
2 COMBINED AT	C007	404	12.67
ROUTED TO	R009	401	12.67
2 COMBINED AT	C008	1061	14.50

* Note: Refer to Hydrology Exhibit Sheets 6 and 7 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  12       Q2001
              V
              V
  23        R001
              .
              .
  26          .       Q2002
              .          .
              .          .
  31        C001............
              .
              .
  36          .------->    DIV1
  34        D001
              V
              V
  39        R002
              .
              .
  42          .       Q2005
              .          .
              .          .
  48        C002............
              V
              V
  51       RD001
              .
              .
  56          .       Q2031
              .          V
              .          V
  61          .        R003
              .          .
              .          .
  64          .          .      Q2030
              .          .         V
              .          .         V
  69          .          .       R004
              .          .         .
              .          .         .
  72          .          .         .      Q2004
              .          .         .         .
              .          .         .         .
  79          .          .         .         .          .<-------    DIV1
  77          .          .         .         .      RR001
              .          .         .         .          .
              .          .         .         .          .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
 80          .       C003.................................
             .         V
             .         V
 83          .       R005
             .         .
             .         .
 86          .         .      Q2006
             .         .          .
             .         .          .
 91          .       C004............
             .         V
             .         V
 94          .       R006
             .         .
             .         .
 97       C005............
            V
            V
100       R007
            .
            .
103         .      Q2007
            .         .
            .         .
108         .         .      Q2008
            .         .          .
            .         .          .
113       C006........................
            .
            .
116         .      Q2010
            .         V
            .         V
121         .       R008
            .         .
            .         .
124         .         .      Q2009
            .         .          .
            .         .          .
130         .      C007............
            .         V
            .         V
133         .       R009
            .         .
            .         .
136       C008............
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 14

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
100 year, 24 hour Storm
Drainage Area 2

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q2012	92	12.67
ROUTED TO	R001	92	12.67
HYDROGRAPH AT	Q2011	184	12.67
2 COMBINED AT	C001	276	12.67
ROUTED TO	R002	272	12.67
HYDROGRAPH AT	Q2013	156	12.67
HYDROGRAPH AT	Q2014	188	12.67
3 COMBINED AT	C002	617	12.67
ROUTED TO	R003	614	12.67
HYDROGRAPH AT	Q2015	79	12.67
HYDROGRAPH AT	Q2016	64	12.67
3 COMBINED AT	C003	758	12.67
HYDROGRAPH AT	Q2018	137	12.67
ROUTED TO	R004	136	12.67
HYDROGRAPH AT	Q2017	117	12.50
2 COMBINED AT	C004	251	12.67
ROUTED TO	R005	250	12.67
2 COMBINED AT	C005	1008	12.67
ROUTED TO	R006	996	12.67
HYDROGRAPH AT	Q2019	129	12.67
2 COMBINED AT	C006	1125	12.67
ROUTED TO	R007	1113	12.67
HYDROGRAPH AT	Q2020	200	13.50
2 COMBINED AT	C007	1209	12.67
ROUTED TO	R008	1183	12.67
ROUTED TO	R009	1158	12.83
HYDROGRAPH AT	Q2021	139	12.50
ROUTED TO	R010	136	12.67
HYDROGRAPH AT	Q2022	600	12.67
3 COMBINED AT	C008	1868	12.67
ROUTED TO	R011	1857	12.67

* Note: Refer to Hydrology Exhibit Sheets 6 and 7 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  12      Q2012
             V
             V
  24       R001
             .
             .
  27         .       Q2011
             .          .
             .          .
  33       C001............
             V
             V
  36       R002
             .
             .
  39         .       Q2013
             .          .
             .          .
  45         .          .      Q2014
             .          .          .
             .          .          .
  51       C002......................
             V
             V
  54       R003
             .
             .
  57         .       Q2015
             .          .
             .          .
  63         .          .      Q2016
             .          .          .
             .          .          .
  69       C003......................
             .
             .
  72         .       Q2018
             .          V
             .          V
  78         .       R004
             .          .
             .          .
  81         .          .      Q2017
             .          .          .
             .          .          .
  86         .       C004............
             .          V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                .          V
 89             .       R005
                .          .
                .          .
 92         C005............
                V
                V
 95         R006
                .
                .
 98             .      Q2019
                .          .
                .          .
104         C006............
                V
                V
107         R007
                .
                .
110             .      Q2020
                .          .
                .          .
115         C007............
                V
                V
118         F008
                V
                V
121         R009
                .
                .
124             .      Q2021
                .          V
                .          V
129             .       R010
                .          .
                .          .
132             .          .      Q2022
                .          .          .
                .          .          .
138         C008........................
                V
                V
141         R011
```

(AAA) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 14

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
100 year, 24 hour Storm
Drainage Area 3

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q3101	163	12.67
ROUTED TO	R3101	152	12.83
HYDROGRAPH AT	Q3102	163	12.67
ROUTED TO	R3102	151	12.83
HYDROGRAPH AT	Q3103	164	12.67
ROUTED TO	R3103	156	12.67
HYDROGRAPH AT	Q3104	75	13.17
4 COMBINED AT	C75TH	499	12.83
HYDROGRAPH AT	Q3105	319	12.67
ROUTED TO	R3105	234	13.83
HYDROGRAPH AT	Q3106	27	16.83
2 COMBINED AT	C56	241	13.83

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  10       Q3101
              V
              V
  22       R3101
              .
              .
  25          .       Q3102
              .          V
              .          V
  31          .       R3102
              .          .
              .          .
  34          .          .      Q3103
              .          .         V
              .          .         V
  40          .          .      R3103
              .          .         .
              .          .         .
  43          .          .         .      Q3104
              .          .         .         .
              .          .         .         .
  48       C75TH.................................
              .
              .
  51          .       Q3105
              .          V
              .          V
  57          .       R3105
              .          V
              .          V
  60          .       Q3106
              .          .
              .          .
  66        C56............
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 14

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
100 year, 24 hour Storm
Drainage Area 4

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q4001	52	13.00
HYDROGRAPH AT	R5001	14	12.33
HYDROGRAPH AT	R5003	29	12.00
3 COMBINED AT	C001	95	13.00
ROUTED TO	R001	95	13.17
HYDROGRAPH AT	Q4002	112	13.67
2 COMBINED AT	C002	198	13.50
DIVERSION TO	DIV02	59	13.50
HYDROGRAPH AT	D002	138	13.50
ROUTED TO	R002	138	13.50
HYDROGRAPH AT	Q4003	48	13.00
DIVERSION TO	DIV03	15	13.00
HYDROGRAPH AT	D003	34	13.00
ROUTED TO	R003	34	13.00
HYDROGRAPH AT	Q4004	47	13.00
3 COMBINED AT	C004	206	13.33
DIVERSION TO	DIV04	62	13.33
HYDROGRAPH AT	D004	144	13.33
ROUTED TO	R004	144	13.33
HYDROGRAPH AT	Q4005	73	12.67
HYDROGRAPH AT	RR003	15	13.00
ROUTED TO	RD003	14	13.00
2 COMBINED AT	C005	84	12.67
ROUTED TO	R005	81	12.67
HYDROGRAPH AT	Q4006	82	12.67
3 COMBINED AT	C006	251	12.67
DIVERSION TO	DIV06	50	12.67
HYDROGRAPH AT	D006	201	12.67
ROUTED TO	R006	194	12.67
HYDROGRAPH AT	Q4007	55	12.83
DIVERSION TO	DIV07	16	12.83
HYDROGRAPH AT	D007	38	12.83
ROUTED TO	R007	37	12.83
HYDROGRAPH AT	Q4008	44	13.00
3 COMBINED AT	C008	268	12.83
DIVERSION TO	DIV08	80	12.83
HYDROGRAPH AT	D008	187	12.83
ROUTED TO	R008	186	12.83
HYDROGRAPH AT	Q4009	42	12.83
HYDROGRAPH AT	RR007	16	12.83
ROUTED TO	RD007	16	13.00
2 COMBINED AT	C009	58	12.83
ROUTED TO	R009	57	12.83

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q4010	48	12.83
3 COMBINED AT	C010	292	12.83
DIVERSION TO	DIV10	87	12.83
HYDROGRAPH AT	D010	204	12.83
ROUTED TO	R010	198	13.00
HYDROGRAPH AT	Q4011	76	13.33
2 COMBINED AT	C011	264	13.00
DIVERSION TO	DIV11	53	13.00
HYDROGRAPH AT	D011	211	13.00
ROUTED TO	R0111	209	13.00
DIVERSION TO	DIV12	42	13.00
HYDROGRAPH AT	D012	167	13.00
ROUTED TO	R0112	165	13.17
HYDROGRAPH AT	Q4012	57	13.17
2 COMBINED AT	C012	222	13.17
ROUTED TO	R012	221	13.17
HYDROGRAPH AT	Q4013	24	13.17
2 COMBINED AT	C013	245	13.17
DIVERSION TO	DIV13	245	0.17
HYDROGRAPH AT	D013	0	0.17
HYDROGRAPH AT	Q4014	31	13.00
ROUTED TO	R014	30	13.00
HYDROGRAPH AT	Q4015	49	12.67
HYDROGRAPH AT	R5006	479	12.33
HYDROGRAPH AT	R5007	1006	13.00
4 COMBINED AT	C015	1536	13.00
ROUTED TO	R015	1534	13.00
HYDROGRAPH AT	Q4016	93	12.67
ROUTED TO	R016	91	12.67
HYDROGRAPH AT	Q4017	94	12.67
3 COMBINED AT	C017	1586	13.00
ROUTED TO	R017	1582	13.00
HYDROGRAPH AT	Q4018	93	12.67
HYDROGRAPH AT	RR002	59	13.50
ROUTED TO	RD002	59	13.50
2 COMBINED AT	C018	124	12.67
ROUTED TO	R018	120	12.67
HYDROGRAPH AT	Q4019	85	12.67
3 COMBINED AT	C019	1677	13.00
DIVERSION TO	DIV19	251	13.00
HYDROGRAPH AT	D019	1425	13.00
ROUTED TO	R019	1420	13.00
HYDROGRAPH AT	Q4020	88	12.67
HYDROGRAPH AT	RR004	62	13.33
ROUTED TO	RD004	62	13.33
2 COMBINED AT	C020	124	12.67
DIVERSION TO	DIV20	37	12.67
HYDROGRAPH AT	D020	87	12.67
ROUTED TO	R020	82	12.67
HYDROGRAPH AT	Q4021	92	12.67
3 COMBINED AT	C021	1507	13.00
ROUTED TO	R021	1499	13.00

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q4022	75	12.67
HYDROGRAPH AT	RR006	50	12.67
ROUTED TO	RD006	48	12.83
HYDROGRAPH AT	RR020	37	12.67
ROUTED TO	RD020	35	12.67
3 COMBINED AT	C022	157	12.67
DIVERSION TO	DIV22	31	12.67
HYDROGRAPH AT	D022	126	12.67
ROUTED TO	R022	121	12.67
HYDROGRAPH AT	Q4023	107	12.67
3 COMBINED AT	C023	1610	13.00
DIVERSION TO	DIV23	242	13.00
HYDROGRAPH AT	D023	1369	13.00
ROUTED TO	R023	1363	13.00
HYDROGRAPH AT	Q4024	78	12.67
HYDROGRAPH AT	RR008	80	12.83
ROUTED TO	RD008	80	12.83
HYDROGRAPH AT	RR022	31	12.67
ROUTED TO	RD022	30	12.67
3 COMBINED AT	C024	181	12.67
DIVERSION TO	DIV24	54	12.67
HYDROGRAPH AT	D024	127	12.67
ROUTED TO	R024	121	12.67
HYDROGRAPH AT	Q4025	81	12.67
3 COMBINED AT	C025	1490	13.00
ROUTED TO	R025	1485	13.00
HYDROGRAPH AT	Q4026	74	12.67
HYDROGRAPH AT	RR010	87	12.83
ROUTED TO	RD010	86	12.83
HYDROGRAPH AT	RR024	54	12.67
ROUTED TO	RD024	51	12.67
3 COMBINED AT	C026	201	12.67
DIVERSION TO	DIV26	60	12.67
HYDROGRAPH AT	D026	141	12.67
ROUTED TO	R026	134	12.67
HYDROGRAPH AT	Q4027	73	12.67
3 COMBINED AT	C027	1626	13.00
DIVERSION TO	DIV27	244	13.00
HYDROGRAPH AT	D027	1382	13.00
ROUTED TO	R027	1380	13.00
HYDROGRAPH AT	Q4028	73	12.67
HYDROGRAPH AT	RR026	60	12.67
ROUTED TO	RD026	57	12.83
2 COMBINED AT	C028	129	12.67
DIVERSION TO	DIV28	39	12.67
HYDROGRAPH AT	D028	90	12.67
ROUTED TO	R028	85	12.67
HYDROGRAPH AT	Q4029	74	12.67
3 COMBINED AT	C029	1474	12.83
ROUTED TO	R029	1472	13.00
HYDROGRAPH AT	Q4030	70	12.67
HYDROGRAPH AT	RR011	53	13.00

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
ROUTED TO	RD011	52	13.17
HYDROGRAPH AT	RR028	39	12.67
ROUTED TO	RD028	35	12.67
3 COMBINED AT	C030	142	12.67
ROUTED TO	R030	135	12.83
HYDROGRAPH AT	Q4031	72	12.67
3 COMBINED AT	C031	1646	12.83
DIVERSION TO	DIV31	247	12.83
HYDROGRAPH AT	D031	1399	12.83
ROUTED TO	R031	1383	12.83
HYDROGRAPH AT	Q4032	128	12.67
2 COMBINED AT	C032	1464	12.83
ROUTED TO	R032	1452	12.83
HYDROGRAPH AT	Q4033	159	12.67
HYDROGRAPH AT	RR012	42	13.00
ROUTED TO	RD012	41	13.17
2 COMBINED AT	C033	181	12.67
ROUTED TO	R033	175	12.67
HYDROGRAPH AT	Q4034	96	12.67
3 COMBINED AT	C034	1659	12.83
ROUTED TO	R034	1652	12.83
HYDROGRAPH AT	Q4035	84	12.67
2 COMBINED AT	C035	1710	12.83
ROUTED TO	R035	1704	12.83
HYDROGRAPH AT	Q4036	49	13.33
ROUTED TO	R036	49	13.50
HYDROGRAPH AT	Q4037	76	12.67
3 COMBINED AT	C037	1783	12.83
ROUTED TO	R037	1744	12.83
DIVERSION TO	DIV37S	1744	0.17
HYDROGRAPH AT	D037S	0	0.17
HYDROGRAPH AT	RR019	251	13.00
HYDROGRAPH AT	RR023	242	13.00
HYDROGRAPH AT	RR027	244	13.00
HYDROGRAPH AT	RR031	247	12.83

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  11       Q4001
              .
              .
  22          .       R5001
              .          .
              .          .
  56          .          .       R5003
              .          .          .
              .          .          .
  89        C001.......................
             V
             V
  93        R001
              .
              .
  96          .       Q4002
              .          .
              .          .
 101        C002............
              .
              .
 106          .-------->   DIV02
 104        D002
             V
             V
 109        R002
              .
              .
 112          .       Q4003
              .          .
              .          .
 119          .          .-------->   DIV03
 117          .        D003
              .          V
              .          V
 122          .        R003
              .          .
              .          .
 125          .          .       Q4004
              .          .          .
              .          .          .
 130        C004.......................
              .
              .
 135          .-------->   DIV04
 133        D004
             V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
            V
138       R004
            .
            .
141         .      Q4005
            .          .
            .          .
149         .          .          .<-------   DIV03
147         .          .      RR003
            .          .          V
            .          .          V
150         .          .      RD003
            .          .          .
            .          .          .
153         .       C005............
            .          V
            .          V
156         .       R005
            .          .
            .          .
159         .          .      Q4006
            .          .          .
            .          .          .
165       C006........................
            .
            .
170         .------->   DIV06
168       D006
            V
            V
173       R006
            .
            .
176         .      Q4007
            .          .
            .          .
183         .          .------->   DIV07
181         .       D007
            .          V
            .          V
186         .       R007
            .          .
            .          .
189         .          .      Q4008
            .          .          .
            .          .          .
194       C008........................
            .
            .
199         .------->   DIV08
197       D008
            V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
            V
202       R008
            .
            .
205         .      Q4009
            .          .
            .          .
212         .          .          .<-------   DIV07
210         .          .      RR007
            .          .          V
            .          .          V
213         .          .      RD007
            .          .          .
            .          .          .
216         .       C009............
            .          V
            .          V
219         .       R009
            .          .
            .          .
222         .          .      Q4010
            .          .          .
            .          .          .
227       C010........................
            .
            .
232         .------->   DIV10
230       D010
            V
            V
235       R010
            .
            .
238         .      Q4011
            .          .
            .          .
243       C011............
            .
            .
248         .------->   DIV11
246       D011
            V
            V
251      R0111
            .
            .
256         .------->   DIV12
254       D012
            V
            V
259      R0112
            .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                .
262             .      Q4012
                .          .
                .          .
267         C012............
                V
                V
270         R012
                .
                .
273             .      Q4013
                .          .
                .          .
278         C013............
                .
                .
283             .------->  DIV13
281         D013
                .
                .
286             .      Q4014
                .         V
                .         V
291             .       R014
                .          .
                .          .
294             .          .      Q4015
                .          .          .
                .          .          .
300             .          .          .      R5006
                .          .          .          .
                .          .          .          .
334             .          .          .          .      R5007
                .          .          .          .          .
                .          .          .          .          .
367             .       C015.................................
                .         V
                .         V
371             .       R015
                .          .
                .          .
374             .          .      Q4016
                .          .          V
                .          .          V
380             .          .       R016
                .          .          .
                .          .          .
383             .          .          .      Q4017
                .          .          .          .
                .          .          .          .
389             .       C017......................
                .         V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                 .        V
392              .      R017
                 .        .
                 .        .
395              .        .      Q4018
                 .        .        .
                 .        .        .
403              .        .        .          .<-------   DIV02
401              .        .        .      RR002
                 .        .        .          V
                 .        .        .          V
404              .        .        .      RD002
                 .        .        .          .
                 .        .        .          .
407              .        .      C018............
                 .        .        V
                 .        .        V
410              .        .      R018
                 .        .        .
                 .        .        .
413              .        .        .      Q4019
                 .        .        .          .
                 .        .        .          .
419              .      C019........................
                 .        .
                 .        .
424              .        .------->   DIV19
422              .      D019
                 .        V
                 .        V
427              .      R019
                 .        .
                 .        .
430              .        .      Q4020
                 .        .        .
                 .        .        .
438              .        .        .          .<-------   DIV04
436              .        .        .      RR004
                 .        .        .          V
                 .        .        .          V
439              .        .        .      RD004
                 .        .        .          .
                 .        .        .          .
442              .        .      C020............
                 .        .        .
                 .        .        .
447              .        .        .------->   DIV20
445              .        .      D020
                 .        .        V
                 .        .        V
450              .        .      R020
                 .        .        .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

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                .         .         .
453             .         .         .      Q4021
                .         .         .         .
                .         .         .         .
459             .      C021.......................
                .         V
                .         V
462             .      R021
                .         .
                .         .
465             .         .      Q4022
                .         .         .
                .         .         .
473             .         .         .         .<-------   DIV06
471             .         .         .      RR006
                .         .         .         V
                .         .         .         V
474             .         .         .      RD006
                .         .         .         .
                .         .         .         .
479             .         .         .         .         .<-------   DIV20
477             .         .         .         .      RR020
                .         .         .         .         V
                .         .         .         .         V
480             .         .         .         .      RD020
                .         .         .         .         .
                .         .         .         .         .
483             .         .      C022.......................
                .         .         .
                .         .         .
488             .         .         .------->   DIV22
486             .         .      D022
                .         .         V
                .         .         V
491             .         .      R022
                .         .         .
                .         .         .
494             .         .         .      Q4023
                .         .         .         .
                .         .         .         .
500             .      C023.......................
                .         .
                .         .
505             .         .------->   DIV23
503             .      D023
                .         V
                .         V
508             .      R023
                .         .
                .         .
511             .         .      Q4024
                .         .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                .         .         .
519             .         .         .         .<-------   DIV08
517             .         .         .      RR008
                .         .         .         V
                .         .         .         V
520             .         .         .      RD008
                .         .         .         .
                .         .         .         .
525             .         .         .         .         .<-------   DIV22
523             .         .         .         .      RR022
                .         .         .         .         V
                .         .         .         .         V
526             .         .         .         .      RD022
                .         .         .         .         .
                .         .         .         .         .
529             .         .      C024.......................
                .         .         .
                .         .         .
534             .         .         .------->   DIV24
532             .         .      D024
                .         .         V
                .         .         V
537             .         .      R024
                .         .         .
                .         .         .
540             .         .         .      Q4025
                .         .         .         .
                .         .         .         .
546             .      C025......................
                .         V
                .         V
549             .      R025
                .         .
                .         .
552             .         .     Q4026
                .         .         .
                .         .         .
560             .         .         .         .<-------   DIV10
558             .         .         .      RR010
                .         .         .         V
                .         .         .         V
561             .         .         .      RD010
                .         .         .         .
                .         .         .         .
566             .         .         .         .         .<-------   DIV24
564             .         .         .         .      RR024
                .         .         .         .         V
                .         .         .         .         V
567             .         .         .         .      RD024
                .         .         .         .         .
                .         .         .         .         .
570             .         .      C026.......................
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

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                .         .         .
                .         .         .
575             .         .         .-------> DIV26
573             .         .      D026
                .         .         V
                .         .         V
578             .         .      R026
                .         .         .
                .         .         .
581             .         .         .      Q4027
                .         .         .          .
                .         .         .          .
587             .      C027.......................
                .         .
                .         .
592             .         .-------> DIV27
590             .      D027
                .         V
                .         V
595             .      R027
                .         .
                .         .
598             .         .      Q4028
                .         .         .
                .         .         .
606             .         .         .          .<-------  DIV26
604             .         .         .      RR026
                .         .         .          V
                .         .         .          V
607             .         .         .      RD026
                .         .         .          .
                .         .         .          .
610             .         .      C028............
                .         .         .
                .         .         .
615             .         .         .-------> DIV28
613             .         .      D028
                .         .         V
                .         .         V
618             .         .      R028
                .         .         .
                .         .         .
621             .         .         .      Q4029
                .         .         .          .
                .         .         .          .
627             .      C029.......................
                .         V
                .         V
630             .      R029
                .         .
                .         .
633             .         .      Q4030
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

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                .         .         .
                .         .         .
641             .         .         .         .<-------   DIV11
639             .         .         .      RR011
                .         .         .         V
                .         .         .         V
642             .         .         .      RD011
                .         .         .         .
                .         .         .         .
647             .         .         .         .         .<-------   DIV28
645             .         .         .         .      RR028
                .         .         .         .         V
                .         .         .         .         V
648             .         .         .         .      RD028
                .         .         .         .         .
                .         .         .         .         .
651             .         .      C030.......................
                .         .         V
                .         .         V
654             .         .      R030
                .         .         .
                .         .         .
657             .         .         .      Q4031
                .         .         .         .
                .         .         .         .
663             .      C031.......................
                .         .
                .         .
668             .         .------->   DIV31
666             .      D031
                .         V
                .         V
671             .      R031
                .         .
                .         .
674             .         .      Q4032
                .         .         .
                .         .         .
680             .      C032............
                .         V
                .         V
683             .      R032
                .         .
                .         .
686             .         .      Q4033
                .         .         .
                .         .         .
694             .         .         .         .<-------   DIV12
692             .         .         .      RR012
                .         .         .         V
                .         .         .         V
695             .         .         .      RD012
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                .         .         .         .
                .         .         .         .
698             .         .      C033..........
                .         .         V
                .         .         V
701             .         .      R033
                .         .         .
                .         .         .
704             .         .         .      Q4034
                .         .         .         .
                .         .         .         .
710             .      C034......................
                .         V
                .         V
713             .      R034
                .         .
                .         .
716             .         .      Q4035
                .         .         .
                .         .         .
722             .      C035............
                .         V
                .         V
725             .      R035
                .         .
                .         .
728             .         .      Q4036
                .         .         V
                .         .         V
733             .         .      R036
                .         .         .
                .         .         .
736             .         .         .      Q4037
                .         .         .         .
                .         .         .         .
742             .      C037......................
                .         V
                .         V
745             .      R037
                .         .
                .         .
750             .         .-------> DIV37S
748             .      D037S
                .         .
                .         .
756             .         .         .<-------   DIV19
753             .         .      RR019
                .         .         .
                .         .         .
760             .         .         .         .<-------   DIV23
757             .         .         .      RR023
                .         .         .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
764          .         .         .         .
             .         .         .         .        .<-------   DIV27
761          .         .         .         .     RR027
             .         .         .         .        .
             .         .         .         .        .
768          .         .         .         .        .          .<-------   DIV31
765          .         .         .         .        .      RR031
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 14

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
100 year, 24 hour Storm
Drainage Area 4

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q4038	31	12.83
ROUTED TO	R038	30	12.83
HYDROGRAPH AT	R5013	25	12.00
ROUTED TO	RD5013	25	12.17
HYDROGRAPH AT	Q4039	43	12.67
3 COMBINED AT	C039	96	12.67
ROUTED TO	R039	94	12.67
HYDROGRAPH AT	Q4041	86	12.67
2 COMBINED AT	C041	180	12.67
DIVERSION TO	DIV41	54	12.67
HYDROGRAPH AT	D041	126	12.67
ROUTED TO	R041	123	12.67
HYDROGRAPH AT	Q4040	85	12.67
ROUTED TO	R040	83	12.67
HYDROGRAPH AT	Q4042	109	12.67
HYDROGRAPH AT	RR019	479	13.00
ROUTED TO	RD019	474	13.00
3 COMBINED AT	C042	565	12.83
DIVERSION TO	DIV42	169	12.83
HYDROGRAPH AT	D042	395	12.83
ROUTED TO	R042	388	12.83
HYDROGRAPH AT	Q4043	103	12.67
3 COMBINED AT	C043	566	12.83
DIVERSION TO	DIV43	170	12.83
HYDROGRAPH AT	D043	396	12.83
ROUTED TO	R043	395	12.83
HYDROGRAPH AT	Q4044	95	12.67
HYDROGRAPH AT	RR042	169	12.83
ROUTED TO	RD042	165	12.83
2 COMBINED AT	C044	236	12.67
DIVERSION TO	DIV44	71	12.67
HYDROGRAPH AT	D044	165	12.67
ROUTED TO	R044	161	12.83
HYDROGRAPH AT	Q4045	97	12.67
3 COMBINED AT	C045	629	12.67
ROUTED TO	R045	619	12.83
HYDROGRAPH AT	Q4046	86	12.67
HYDROGRAPH AT	RR023	241	13.00
ROUTED TO	RD023	239	13.00
HYDROGRAPH AT	RR044	71	12.67
ROUTED TO	RD044	69	12.83
3 COMBINED AT	C046	342	12.83
DIVERSION TO	DIV46	103	12.83

A Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	D046	240	12.83
ROUTED TO	R046	237	12.83
HYDROGRAPH AT	Q4047	95	12.67
3 COMBINED AT	C047	931	12.67
DIVERSION TO	DIV47	279	12.67
HYDROGRAPH AT	D047	652	12.67
ROUTED TO	R047	645	12.83
HYDROGRAPH AT	Q4065	29	12.67
DIVERSION TO	DIV65	9	12.67
HYDROGRAPH AT	D065	21	12.67
ROUTED TO	R0651	19	12.67
DIVERSION TO	DIV68	6	12.67
HYDROGRAPH AT	D068	13	12.67
ROUTED TO	R0651	12	12.83
HYDROGRAPH AT	Q4068	137	12.67
3 COMBINED AT	C068	776	12.67
ROUTED TO	R068	763	12.83
HYDROGRAPH AT	R5019	251	13.00
HYDROGRAPH AT	Q4062	99	13.17
HYDROGRAPH AT	RR041	54	12.67
3 COMBINED AT	C0621	374	13.00
DIVERSION TO	DIV62	112	13.00
HYDROGRAPH AT	D062	262	13.00
ROUTED TO	R062	261	13.00
HYDROGRAPH AT	Q4063	64	12.67
HYDROGRAPH AT	RR043	170	12.83
ROUTED TO	RD043	169	12.83
2 COMBINED AT	C063	224	12.67
ROUTED TO	R063	216	12.83
HYDROGRAPH AT	Q4064	81	12.67
3 COMBINED AT	C064	518	12.83
ROUTED TO	R064	511	12.83
HYDROGRAPH AT	Q4066	91	12.67
HYDROGRAPH AT	RR065	9	12.67
ROUTED TO	RD065	8	12.83
3 COMBINED AT	C066	581	12.83
DIVERSION TO	DIV66	174	12.83
HYDROGRAPH AT	D066	407	12.83
ROUTED TO	R066	405	12.83
HYDROGRAPH AT	Q4067	73	12.67
HYDROGRAPH AT	RR068	6	12.67
ROUTED TO	RD068	5	13.00
3 COMBINED AT	C067	463	12.67
DIVERSION TO	DIV67	139	12.67
HYDROGRAPH AT	D067	324	12.67
ROUTED TO	R067	321	12.83
HYDROGRAPH AT	Q4069	102	12.67
3 COMBINED AT	C069	1176	12.67
DIVERSION TO	DIV69W	353	12.67
HYDROGRAPH AT	D069W	823	12.67
DIVERSION TO	DIV69S	823	0.17
HYDROGRAPH AT	D069S	0	0.17

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q4048	125	12.67
HYDROGRAPH AT	RR046	103	12.83
ROUTED TO	RD046	101	12.83
2 COMBINED AT	C048	220	12.67
DIVERSION TO	DIV48	66	12.67
HYDROGRAPH AT	D048	154	12.67
ROUTED TO	R048	150	12.67
HYDROGRAPH AT	Q4049	83	12.67
HYDROGRAPH AT	RR047	279	12.67
ROUTED TO	RD047	277	12.83
3 COMBINED AT	C049	503	12.67
DIVERSION TO	DIV49	151	12.67
HYDROGRAPH AT	D049	352	12.67
ROUTED TO	R049	343	12.67
HYDROGRAPH AT	Q4050	71	12.67
HYDROGRAPH AT	RR048	66	12.67
ROUTED TO	RD048	64	12.67
HYDROGRAPH AT	RR027	243	13.00
ROUTED TO	RD027	242	13.00
3 COMBINED AT	C050	340	12.67
ROUTED TO	R050	336	12.83
HYDROGRAPH AT	Q4051	83	12.67
3 COMBINED AT	C051	758	12.67
DIVERSION TO	DIV51	227	12.67
HYDROGRAPH AT	D051	530	12.67
ROUTED TO	R051	518	12.67
HYDROGRAPH AT	Q4052	90	12.67
DIVERSION TO	DIV52	27	12.67
HYDROGRAPH AT	D052	63	12.67
ROUTED TO	R052	60	12.67
HYDROGRAPH AT	Q4053	100	12.67
3 COMBINED AT	C053	678	12.67
DIVERSION TO	DIV53	203	12.67
HYDROGRAPH AT	D053	475	12.67
ROUTED TO	R053	463	12.67
HYDROGRAPH AT	Q4054	71	12.67
HYDROGRAPH AT	RR031	246	12.83
ROUTED TO	RD031	244	13.00
HYDROGRAPH AT	RR052	27	12.67
ROUTED TO	RD052	25	12.67
3 COMBINED AT	C054	315	12.83
ROUTED TO	R054	314	12.83
HYDROGRAPH AT	Q4055	79	12.67
3 COMBINED AT	C055	841	12.67
DIVERSION TO	DIV55	252	12.67
HYDROGRAPH AT	D055	589	12.67
ROUTED TO	R055	573	12.83
HYDROGRAPH AT	Q4076	95	12.67
2 COMBINED AT	C076	661	12.67
ROUTED TO	R076	653	12.67
HYDROGRAPH AT	Q4077	37	12.67
2 COMBINED AT	C077	690	12.67

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
ROUTED TO	R077	676	12.83
HYDROGRAPH AT	Q4070	84	12.67
HYDROGRAPH AT	RR049	151	12.67
ROUTED TO	RD049	146	12.67
2 COMBINED AT	C070	230	12.67
DIVERSION TO	DIV70	69	12.67
HYDROGRAPH AT	D070	161	12.67
ROUTED TO	R070	156	12.67
HYDROGRAPH AT	Q4072	84	12.67
HYDROGRAPH AT	RR051	227	12.67
ROUTED TO	RD051	220	12.83
3 COMBINED AT	C072	461	12.67
DIVERSION TO	DIV72	138	12.67
HYDROGRAPH AT	D072	322	12.67
ROUTED TO	R072	312	12.67
HYDROGRAPH AT	Q4071	115	12.67
HYDROGRAPH AT	RR069	353	12.67
ROUTED TO	RD069	347	12.83
HYDROGRAPH AT	RR070	69	12.67
ROUTED TO	RD070	65	12.83
3 COMBINED AT	C071	519	12.67
ROUTED TO	R071	504	12.67
HYDROGRAPH AT	Q4073	91	12.67
3 COMBINED AT	C073	907	12.67
DIVERSION TO	DIV73	272	12.67
HYDROGRAPH AT	D073	635	12.67
ROUTED TO	R073	619	12.67
HYDROGRAPH AT	Q4074	84	12.67
HYDROGRAPH AT	RR053	203	12.67
ROUTED TO	RD053	197	12.67
HYDROGRAPH AT	RR072	138	12.67
ROUTED TO	RD072	133	12.67
3 COMBINED AT	C074	414	12.67
ROUTED TO	R074	401	12.67
HYDROGRAPH AT	Q4075	84	12.67
3 COMBINED AT	C075	1103	12.67
ROUTED TO	R075	1088	12.67
HYDROGRAPH AT	Q4078	35	12.67
2 COMBINED AT	C078	1122	12.67
ROUTED TO	R078	1108	12.67
HYDROGRAPH AT	Q4079	26	12.67
3 COMBINED AT	C079	1808	12.67
DIVERSION TO	DIV79W	543	12.67
HYDROGRAPH AT	D079W	1266	12.67
DIVERSION TO	DIV79S	1266	0.17
HYDROGRAPH AT	D079S	0	0.17
HYDROGRAPH AT	Q4058	90	12.67
DIVERSION TO	DIV58	27	12.67
HYDROGRAPH AT	D058	63	12.67
ROUTED TO	R058	60	12.67
HYDROGRAPH AT	Q4059	99	12.67
2 COMBINED AT	C059	159	12.67

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
ROUTED TO	R059	156	12.67
HYDROGRAPH AT	Q4060	34	13.00
HYDROGRAPH AT	RR058	27	12.67
ROUTED TO	RD058	26	12.67
2 COMBINED AT	C060	53	12.83
ROUTED TO	R060	53	12.83
HYDROGRAPH AT	Q4061	61	12.67
3 COMBINED AT	C061	265	12.67
DIVERSION TO	DIV61	79	12.67
HYDROGRAPH AT	D061	185	12.67
ROUTED TO	R061	176	12.67
HYDROGRAPH AT	Q4083	84	12.67
2 COMBINED AT	C083	260	12.67
ROUTED TO	R083	251	12.67
HYDROGRAPH AT	Q4056	179	12.67
ROUTED TO	SR056	8	15.33
HYDROGRAPH AT	Q4080	86	12.67
HYDROGRAPH AT	RR055	252	12.67
ROUTED TO	RD055	246	12.83
3 COMBINED AT	C080	326	12.67
ROUTED TO	SR080	63	15.17
HYDROGRAPH AT	Q4057	139	12.67
ROUTED TO	SR057	4	16.00
HYDROGRAPH AT	Q4082	118	12.67
3 COMBINED AT	C082	118	12.67
ROUTED TO	SR082	42	17.17
HYDROGRAPH AT	Q4084	82	12.67
2 COMBINED AT	C0841	82	12.67
ROUTED TO	SR084	19	24.33
ROUTED TO	R0841	19	24.33
2 COMBINED AT	C0842	251	12.67
ROUTED TO	R0842	243	12.67
HYDROGRAPH AT	Q4081	132	12.67
HYDROGRAPH AT	RR079	543	12.67
ROUTED TO	RD079	536	12.83
2 COMBINED AT	C081	650	12.67
ROUTED TO	R0811	625	12.67
DIVERSION TO	DIV81	188	12.67
HYDROGRAPH AT	D081	438	12.67
ROUTED TO	R0812	435	12.83
HYDROGRAPH AT	Q4085	97	12.67
2 COMBINED AT	C085	512	12.67
DIVERSION TO	DIV85	154	12.67
HYDROGRAPH AT	D085	358	12.67
ROUTED TO	R085	348	12.83
HYDROGRAPH AT	Q4086	74	12.67
3 COMBINED AT	C086	662	12.67
DIVERSION TO	DIV86W	198	12.67
HYDROGRAPH AT	D086W	463	12.67
DIVERSION TO	DIV86S	463	0.17
HYDROGRAPH AT	D086S	0	0.17
HYDROGRAPH AT	RR061	79	12.67

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	RR086	198	12.67

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

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INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  10      Q4038
             V
             V
  21       R038
             .
             .
  24         .      R5013
             .          V
             .          V
  58         .     RD5013
             .          .
             .          .
  62         .          .      Q4039
             .          .          .
             .          .          .
  68       C039.......................
             V
             V
  71       R039
             .
             .
  74         .      Q4041
             .          .
             .          .
  80       C041............
             .
             .
  85         .------->   DIV41
  83       D041
             V
             V
  88       R041
             .
             .
  91         .      Q4040
             .          V
             .          V
  97         .       R040
             .          .
             .          .
 100         .          .      Q4042
             .          .          .
             .          .          .
 106         .          .          .      RR019
             .          .          .          V
             .          .          .          V
 140         .          .          .      RD019
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

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                .         .         .         .
                .         .         .         .
144             .      C042.......................
                .         .
                .         .
149             .         .-------> DIV42
147             .      D042
                .         V
                .         V
152             .      R042
                .         .
                .         .
155             .         .      Q4043
                .         .         .
                .         .         .
161          C043.......................
                .
                .
166             .-------> DIV43
164          D043
                V
                V
169          R043
                .
                .
172             .     Q4044
                .         .
                .         .
180             .         .         .<-------  DIV42
178             .         .      RR042
                .         .         V
                .         .         V
181             .         .      RD042
                .         .         .
                .         .         .
184             .      C044............
                .         .
                .         .
189             .         .-------> DIV44
187             .      D044
                .         V
                .         V
192             .      R044
                .         .
                .         .
195             .         .      Q4045
                .         .         .
                .         .         .
201          C045.......................
                V
                V
204          R045
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

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                .
                .
207             .      Q4046
                .          .
                .          .
213             .          .      RR023
                .          .          V
                .          .          V
247             .          .      RD023
                .          .          .
                .          .          .
253             .          .          .          .<-------   DIV44
251             .          .          .      RR044
                .          .          .          V
                .          .          .          V
254             .          .          .      RD044
                .          .          .          .
                .          .          .          .
257             .       C046.......................
                .          .
                .          .
262             .          .------->   DIV46
260             .       D046
                .          V
                .          V
265             .       R046
                .          .
                .          .
268             .          .      Q4047
                .          .          .
                .          .          .
274          C047.......................
                .
                .
279             .------->   DIV47
277          D047
                V
                V
282          R047
                .
                .
285             .      Q4065
                .          .
                .          .
293             .          .------->   DIV65
291             .       D065
                .          V
                .          V
296             .      R0651
                .          .
                .          .
301             .          .------->   DIV68
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
299          .       D068
             .         V
             .         V
304          .      R0651
             .         .
             .         .
307          .         .      Q4068
             .         .         .
             .         .         .
313       C068.......................
             V
             V
316       R068
             .
             .
319          .      R5019
             .         .
             .         .
353          .         .      Q4062
             .         .         .
             .         .         .
361          .         .         .         .<-------   DIV41
359          .         .         .      RR041
             .         .         .         .
             .         .         .         .
362          .      C0621.......................
             .         .
             .         .
367          .         .------->   DIV62
365          .       D062
             .         V
             .         V
370          .       R062
             .         .
             .         .
373          .         .      Q4063
             .         .         .
             .         .         .
381          .         .         .         .<-------   DIV43
379          .         .         .      RR043
             .         .         .         V
             .         .         .         V
382          .         .         .      RD043
             .         .         .         .
             .         .         .         .
385          .         .       C063............
             .         .         V
             .         .         V
388          .         .       R063
             .         .         .
             .         .         .
391          .         .         .      Q4064
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

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                .         .         .         .
                .         .         .         .
397             .      C064.......................
                .         V
                .         V
400             .      R064
                .         .
                .         .
403             .         .      Q4066
                .         .         .
                .         .         .
411             .         .         .         .<-------   DIV65
409             .         .         .      RR065
                .         .         .         V
                .         .         .         V
412             .         .         .      RD065
                .         .         .         .
                .         .         .         .
415             .      C066.......................
                .         .
                .         .
420             .         .------->   DIV66
418             .      D066
                .         V
                .         V
423             .      R066
                .         .
                .         .
426             .         .      Q4067
                .         .         .
                .         .         .
434             .         .         .         .<-------   DIV68
432             .         .         .      RR068
                .         .         .         V
                .         .         .         V
435             .         .         .      RD068
                .         .         .         .
                .         .         .         .
438             .      C067.......................
                .         .
                .         .
443             .         .------->   DIV67
441             .      D067
                .         V
                .         V
446             .      R067
                .         .
                .         .
449             .         .      Q4069
                .         .         .
                .         .         .
455          C069.......................
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
            .
            .
460         .-------> DIV69W
458     D069W
            .
            .
465         .-------> DIV69S
463     D069S
            .
            .
468         .      Q4048
            .          .
            .          .
476         .          .          .<-------   DIV46
474         .          .      RR046
            .          .          V
            .          .          V
477         .          .      RD046
            .          .          .
            .          .          .
480         .       C048............
            .          .
            .          .
485         .          .-------> DIV48
483         .       D048
            .          V
            .          V
488         .       R048
            .          .
            .          .
491         .          .      Q4049
            .          .          .
            .          .          .
499         .          .          .          .<-------   DIV47
497         .          .          .      RR047
            .          .          .          V
            .          .          .          V
500         .          .          .      RD047
            .          .          .          .
            .          .          .          .
503         .       C049........................
            .          .
            .          .
508         .          .-------> DIV49
506         .       D049
            .          V
            .          V
511         .       R049
            .          .
            .          .
514         .          .      Q4050
            .          .          .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
522                                  .<-------   DIV48
520                            RR048
                                  V
                                  V
523                            RD048
                                  .
                                  .
526                                  .      RR027
                                     .         V
                                     .         V
560                                  .      RD027
                                     .         .
                                     .         .
564                       C050.......................
                             V
                             V
567                       R050
                             .
                             .
570                            Q4051
                                  .
                                  .
576                 C051.......................
                       .
                       .
581                    .------->   DIV51
579                 D051
                       V
                       V
584                 R051
                       .
                       .
587                    .      Q4052
                           .
                           .
595                        .------->   DIV52
593                       D052
                             V
                             V
598                       R052
                             .
                             .
601                            Q4053
                                  .
                                  .
607                 C053.......................
                       .
                       .
612                    .------->   DIV53
610                 D053
                       V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                 .        V
615              .      R053
                 .        .
                 .        .
618              .        .      Q4054
                 .        .        .
                 .        .        .
624              .        .        .      RR031
                 .        .        .        V
                 .        .        .        V
658              .        .        .      RD031
                 .        .        .        .
                 .        .        .        .
664              .        .        .        .          .<-------   DIV52
662              .        .        .        .      RR052
                 .        .        .        .          V
                 .        .        .        .          V
665              .        .        .        .      RD052
                 .        .        .        .          .
                 .        .        .        .          .
668              .        .      C054.......................
                 .        .        V
                 .        .        V
671              .        .      R054
                 .        .        .
                 .        .        .
674              .        .        .      Q4055
                 .        .        .        .
                 .        .        .        .
680              .      C055.......................
                 .        .
                 .        .
685              .        .------->   DIV55
683              .      D055
                 .        V
                 .        V
688              .      R055
                 .        .
                 .        .
691              .        .      Q4076
                 .        .        .
                 .        .        .
697              .      C076............
                 .        V
                 .        V
700              .      R076
                 .        .
                 .        .
703              .        .      Q4077
                 .        .        .
                 .        .        .
709              .      C077............
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                 .        V
                 .        V
712              .      R077
                 .        .
                 .        .
715              .        .      Q4070
                 .        .        .
                 .        .        .
723              .        .        .          .<-------   DIV49
721              .        .        .      RR049
                 .        .        .          V
                 .        .        .          V
724              .        .        .      RD049
                 .        .        .          .
                 .        .        .          .
727              .        .      C070............
                 .        .        .
                 .        .        .
732              .        .        .------->   DIV70
730              .        .      D070
                 .        .        V
                 .        .        V
735              .        .      R070
                 .        .        .
                 .        .        .
738              .        .        .      Q4072
                 .        .        .          .
                 .        .        .          .
746              .        .        .          .          .<-------   DIV51
744              .        .        .          .      RR051
                 .        .        .          .          V
                 .        .        .          .          V
747              .        .        .          .      RD051
                 .        .        .          .          .
                 .        .        .          .          .
750              .        .      C072........................
                 .        .        .
                 .        .        .
755              .        .        .------->   DIV72
753              .        .      D072
                 .        .        V
                 .        .        V
758              .        .      R072
                 .        .        .
                 .        .        .
761              .        .        .      Q4071
                 .        .        .          .
                 .        .        .          .
769              .        .        .          .          .<-------  DIV69W
767              .        .        .          .      RR069
                 .        .        .          .          V
                 .        .        .          .          V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
770   .       .       .       .     RD069
      .       .       .       .       .
      .       .       .       .       .
775   .       .       .       .       .         .<-------   DIV70
773   .       .       .       .       .     RR070
      .       .       .       .       .         V
      .       .       .       .       .         V
776   .       .       .       .       .     RD070
      .       .       .       .       .         .
      .       .       .       .       .         .
779   .       .       .     C071.......................
      .       .       .       V
      .       .       .       V
782   .       .       .     R071
      .       .       .       .
      .       .       .       .
785   .       .       .       .     Q4073
      .       .       .       .       .
      .       .       .       .       .
791   .       .     C073.......................
      .       .       .
      .       .       .
796   .       .       .------->   DIV73
794   .       .     D073
      .       .       V
      .       .       V
799   .       .     R073
      .       .       .
      .       .       .
802   .       .       .     Q4074
      .       .       .       .
      .       .       .       .
810   .       .       .       .         .<-------   DIV53
808   .       .       .       .     RR053
      .       .       .       .         V
      .       .       .       .         V
811   .       .       .       .     RD053
      .       .       .       .       .
      .       .       .       .       .
816   .       .       .       .       .         .<-------   DIV72
814   .       .       .       .       .     RR072
      .       .       .       .       .         V
      .       .       .       .       .         V
817   .       .       .       .       .     RD072
      .       .       .       .       .         .
      .       .       .       .       .         .
820   .       .       .     C074.......................
      .       .       .       V
      .       .       .       V
823   .       .       .     R074
      .       .       .       .
      .       .       .       .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
826   .     .     .     .     Q4075
      .     .     .     .        .
      .     .     .     .        .
832   .     .   C075.......................
      .     .     V
      .     .     V
835   .     .   R075
      .     .     .
      .     .     .
838   .     .     .     Q4078
      .     .     .        .
      .     .     .        .
844   .     .   C078............
      .     .     V
      .     .     V
847   .     .   R078
      .     .     .
      .     .     .
850   .     .     .     Q4079
      .     .     .        .
      .     .     .        .
855   .   C079.......................
      .     .
      .     .
860   .     .-------> DIV79W
858   .   D079W
      .     .
      .     .
865   .     .-------> DIV79S
863   .   D079S
      .     .
      .     .
868   .     .   Q4058
      .     .     .
      .     .     .
876   .     .     .-------> DIV58
874   .     .   D058
      .     .     V
      .     .     V
879   .     .   R058
      .     .     .
      .     .     .
882   .     .     .     Q4059
      .     .     .        .
      .     .     .        .
888   .     .   C059............
      .     .     V
      .     .     V
891   .     .   R059
      .     .     .
      .     .     .
894   .     .     .     Q4060
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                .         .         .         .
                .         .         .         .
901             .         .         .         .         .<-------   DIV58
899             .         .         .         .     RR058
                .         .         .         .        V
                .         .         .         .        V
902             .         .         .         .     RD058
                .         .         .         .        .
                .         .         .         .        .
905             .         .         .      C060............
                .         .         .         V
                .         .         .         V
908             .         .         .      R060
                .         .         .         .
                .         .         .         .
911             .         .         .         .     Q4061
                .         .         .         .        .
                .         .         .         .        .
917             .         .      C061........................
                .         .         .
                .         .         .
922             .         .         .-------> DIV61
920             .         .      D061
                .         .         V
                .         .         V
925             .         .      R061
                .         .         .
                .         .         .
928             .         .         .      Q4083
                .         .         .         .
                .         .         .         .
934             .         .      C083............
                .         .         V
                .         .         V
937             .         .      R083
                .         .         .
                .         .         .
940             .         .         .      Q4056
                .         .         .         V
                .         .         .         V
946             .         .         .      SR056
                .         .         .         .
                .         .         .         .
953             .         .         .         .     Q4080
                .         .         .         .        .
                .         .         .         .        .
961             .         .         .         .        .         .<-------   DIV55
959             .         .         .         .        .     RR055
                .         .         .         .        .        V
                .         .         .         .        .        V
962             .         .         .         .        .     RD055
                .         .         .         .        .        .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                 .         .         .         .         .         .
965              .         .         .      C080.......................
                 .         .         .         V
                 .         .         .         V
968              .         .         .      SR080
                 .         .         .         .
                 .         .         .         .
975              .         .         .         .      Q4057
                 .         .         .         .         V
                 .         .         .         .         V
981              .         .         .         .      SR057
                 .         .         .         .         .
                 .         .         .         .         .
988              .         .         .         .         .      Q4082
                 .         .         .         .         .         .
                 .         .         .         .         .         .
994              .         .         .      C082.......................
                 .         .         .         V
                 .         .         .         V
997              .         .         .      SR082
                 .         .         .         .
                 .         .         .         .
1004             .         .         .         .      Q4084
                 .         .         .         .         .
                 .         .         .         .         .
1010             .         .         .      C0841............
                 .         .         .         V
                 .         .         .         V
1013             .         .         .      SR084
                 .         .         .         V
                 .         .         .         V
1019             .         .         .      R0841
                 .         .         .         .
                 .         .         .         .
1022             .         .      C0842............
                 .         .         V
                 .         .         V
1025             .         .      R0842
                 .         .         .
                 .         .         .
1028             .         .         .      Q4081
                 .         .         .         .
                 .         .         .         .
1036             .         .         .         .         .<-------  DIV79W
1034             .         .         .         .      RR079
                 .         .         .         .         V
                 .         .         .         .         V
1037             .         .         .         .      RD079
                 .         .         .         .         .
                 .         .         .         .         .
1040             .         .         .      C081............
                 .         .         .         V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                .         .         .         V
1043            .         .         .      R0811
                .         .         .         .
                .         .         .         .
1048            .         .         .         .-------> DIV81
1046            .         .         .      D081
                .         .         .         V
                .         .         .         V
1051            .         .         .      R0812
                .         .         .         .
                .         .         .         .
1054            .         .         .         .      Q4085
                .         .         .         .         .
                .         .         .         .         .
1060            .         .         .      C085............
                .         .         .         .
                .         .         .         .
1065            .         .         .         .-------> DIV85
1063            .         .         .      D085
                .         .         .         V
                .         .         .         V
1068            .         .         .      R085
                .         .         .         .
                .         .         .         .
1071            .         .         .         .      Q4086
                .         .         .         .         .
                .         .         .         .         .
1077            .         .      C086........................
                .         .         .
                .         .         .
1082            .         .         .-------> DIV86W
1080            .         .      D086W
                .         .         .
                .         .         .
1087            .         .         .-------> DIV86S
1085            .         .      D086S
                .         .         .
                .         .         .
1093            .         .         .         .<-------  DIV61
1090            .         .         .      RR061
                .         .         .         .
                .         .         .         .
1097            .         .         .         .         .<-------  DIV86W
1094            .         .         .         .      RR086
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 14

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
100 year, 24 hour Storm
Drainage Area 4

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q4087	125	12.67
ROUTED TO	R087	124	12.67
HYDROGRAPH AT	Q4088	23	12.83
2 COMBINED AT	C088	145	12.67
DIVERSION TO	DIV88	43	12.67
HYDROGRAPH AT	D088	101	12.67
ROUTED TO	R088	99	12.67
HYDROGRAPH AT	Q4089	61	12.67
HYDROGRAPH AT	RR061	83	12.67
ROUTED TO	RD061	80	12.67
2 COMBINED AT	C089	141	12.67
ROUTED TO	R089	138	12.67
HYDROGRAPH AT	Q4090	40	13.00
3 COMBINED AT	C090	268	12.67
DIVERSION TO	DIV90	80	12.67
HYDROGRAPH AT	D090	188	12.67
ROUTED TO	R090	182	12.67
HYDROGRAPH AT	Q4091	63	13.33
2 COMBINED AT	C091	223	12.83
ROUTED TO	R091	220	12.83
HYDROGRAPH AT	Q4092	76	13.50
HYDROGRAPH AT	RR086	406	12.67
ROUTED TO	RD086	386	12.67
3 COMBINED AT	C092	626	12.83
DIVERSION TO	DIV92	188	12.83
HYDROGRAPH AT	D092	438	12.83
ROUTED TO	R092	438	12.83
HYDROGRAPH AT	Q4093	111	12.67
HYDROGRAPH AT	RR088	43	12.67
ROUTED TO	RD088	41	12.67
2 COMBINED AT	C093	153	12.67
DIVERSION TO	DIV93	46	12.67
HYDROGRAPH AT	D093	107	12.67
ROUTED TO	R093	105	12.67
HYDROGRAPH AT	Q4094	88	12.67
HYDROGRAPH AT	RR090	80	12.67
ROUTED TO	RD090	77	12.67
3 COMBINED AT	C094	270	12.67
DIVERSION TO	DIV94	81	12.67
HYDROGRAPH AT	D094	189	12.67
ROUTED TO	R094	186	12.67
HYDROGRAPH AT	Q4095	58	12.67
2 COMBINED AT	C095	244	12.67

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
ROUTED TO	R095	237	12.67
HYDROGRAPH AT	Q4096	109	12.67
3 COMBINED AT	C096	768	12.67
ROUTED TO	R096	747	12.67
HYDROGRAPH AT	Q4097	80	12.67
HYDROGRAPH AT	RR093	46	12.67
ROUTED TO	RD093	44	12.67
2 COMBINED AT	C097	124	12.67
ROUTED TO	R097	121	12.67
HYDROGRAPH AT	Q4098	84	12.67
HYDROGRAPH AT	RR094	81	12.67
ROUTED TO	RD094	78	12.67
3 COMBINED AT	C098	282	12.67
DIVERSION TO	DIV98	85	12.67
HYDROGRAPH AT	D098	197	12.67
ROUTED TO	R098	191	12.67
HYDROGRAPH AT	Q4099	79	12.67
2 COMBINED AT	C099	270	12.67
DIVERSION TO	DIV99	81	12.67
HYDROGRAPH AT	D099	189	12.67
ROUTED TO	R099	181	12.67
HYDROGRAPH AT	Q4100	51	13.00
3 COMBINED AT	C100	972	12.67
DIVERSION TO	DV100W	292	12.67
HYDROGRAPH AT	D100W	681	12.67
DIVERSION TO	DV100S	681	0.17
HYDROGRAPH AT	D100S	0	0.17
HYDROGRAPH AT	Q4101	191	13.00
HYDROGRAPH AT	RR098	85	12.67
ROUTED TO	RD098	79	12.83
2 COMBINED AT	C101	258	12.83
DIVERSION TO	DIV101	258	0.17
HYDROGRAPH AT	D101	0	0.17
HYDROGRAPH AT	Q4102	151	12.67
HYDROGRAPH AT	RR099	81	12.67
ROUTED TO	RD099	77	12.83
2 COMBINED AT	C102	222	12.67
DIVERSION TO	DIV102	67	12.67
HYDROGRAPH AT	D102	155	12.67
ROUTED TO	R102	144	12.83
HYDROGRAPH AT	Q4106	68	12.67
HYDROGRAPH AT	Q4103	83	12.67
3 COMBINED AT	C103	290	12.67
DIVERSION TO	DIV103	290	0.17
HYDROGRAPH AT	D103	0	0.17
HYDROGRAPH AT	Q4104	125	12.83
HYDROGRAPH AT	RR100	292	12.67
ROUTED TO	RD100	290	12.83
HYDROGRAPH AT	RR102	67	12.67
ROUTED TO	RD102	61	12.83
3 COMBINED AT	C104	476	12.83
ROUTED TO	R104	463	12.83

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q4105	111	12.67
2 COMBINED AT	C105	563	12.83
DIVERSION TO	DV105	563	0.17
HYDROGRAPH AT	D105	0	0.17
HYDROGRAPH AT	RR101	258	12.83
HYDROGRAPH AT	RR103	290	12.67

* Note: Refer to Hydrology Exhibit Sheet 5 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
INPUT
 LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  10       Q4087
              V
              V
  22        R087
              .
              .
  25          .       Q4088
              .          .
              .          .
  30        C088............
              .
              .
  35          .-------->   DIV88
  33        D088
              V
              V
  38        R088
              .
              .
  41          .       Q4089
              .          .
              .          .
  46          .          .       RK061
              .          .          V
              .          .          V
  80          .          .       RD061
              .          .          .
              .          .          .
  84          .        C089............
              .          V
              .          V
  87          .        R089
              .          .
              .          .
  90          .          .       Q4090
              .          .          .
              .          .          .
  95        C090........................
              .
              .
 100          .-------->   DIV90
  98        D090
              V
              V
 103        R090
              .
              .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
106          .      Q4091
             .          .
             .          .
111       C091............
             V
             V
114       R091
             .
             .
117          .      Q4092
             .          .
             .          .
122          .          .      RR086
             .          .          V
             .          .          V
156          .          .      RD086
             .          .          .
             .          .          .
160       C092......................
             .
             .
165          .------->   DIV92
163       D092
             V
             V
168       R092
             .
             .
171          .      Q4093
             .          .
             .          .
179          .          .          .<-------   DIV88
177          .          .      RR088
             .          .          V
             .          .          V
180          .          .      RD088
             .          .          .
             .          .          .
183          .       C093............
             .          .
             .          .
188          .          .------->   DIV93
186          .       D093
             .          V
             .          V
191          .       R093
             .          .
             .          .
194          .          .      Q4094
             .          .          .
             .          .          .
202          .          .          .          .<-------   DIV90
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
200          .          .          .       RR090
             .          .          .          V
             .          .          .          V
203          .          .          .       RD090
             .          .          .          .
             .          .          .          .
206          .       C094.......................
             .          .
             .          .
211          .          .-------->   DIV94
209          .       D094
             .          V
             .          V
214          .       R094
             .          .
             .          .
217          .          .      Q4095
             .          .          .
             .          .          .
223          .       C095............
             .          V
             .          V
226          .       R095
             .          .
             .          .
229          .          .      Q4096
             .          .          .
             .          .          .
235       C096........................
             V
             V
238       R096
             .
             .
241          .      Q4097
             .          .
             .          .
249          .          .          .<-------   DIV93
247          .          .      RR093
             .          .          V
             .          .          V
250          .          .      RD093
             .          .          .
             .          .          .
253          .       C097............
             .          V
             .          V
256          .       R097
             .          .
             .          .
259          .          .      Q4098
             .          .          .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
            .          .          .
267         .          .          .          .<-------   DIV94
265         .          .          .      RR094
            .          .          .          V
            .          .          .          V
268         .          .          .      RD094
            .          .          .          .
            .          .          .          .
271         .       C098.......................
            .          .
            .          .
276         .          .------->   DIV98
274         .       D098
            .          V
            .          V
279         .       R098
            .          .
            .          .
282         .          .      Q4099
            .          .          .
            .          .          .
288         .       C099............
            .          .
            .          .
293         .          .------->   DIV99
291         .       D099
            .          V
            .          V
296         .       R099
            .          .
            .          .
299         .          .      Q4100
            .          .          .
            .          .          .
304       C100........................
            .
            .
309         .-------> DV100W
307      D100W
            .
            .
314         .-------> DV100S
312      D100S
            .
            .
317         .      Q4101
            .          .
            .          .
324         .          .          .<-------   DIV98
322         .          .      RR098
            .          .          V
            .          .          V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
325          .          .      RD098
             .          .         .
             .          .         .
328          .      C101............
             .          .
             .          .
333          .          .-------> DIV101
331          .      D101
             .          .
             .          .
336          .          .      Q4102
             .          .         .
             .          .         .
344          .          .         .          .<-------   DIV99
342          .          .         .      RR099
             .          .         .          V
             .          .         .          V
345          .          .         .      RD099
             .          .         .          .
             .          .         .          .
348          .          .      C102............
             .          .         .
             .          .         .
353          .          .         .-------> DIV102
351          .          .      D102
             .          .         V
             .          .         V
356          .          .      R102
             .          .         .
             .          .         .
359          .          .         .      Q4106
             .          .         .          .
             .          .         .          .
365          .          .         .          .      Q4103
             .          .         .          .          .
             .          .         .          .          .
370          .          .      C103........................
             .          .         .
             .          .         .
375          .          .         .-------> DIV103
373          .          .      D103
             .          .         .
             .          .         .
378          .          .         .      Q4104
             .          .         .          .
             .          .         .          .
385          .          .         .          .          .<-------  DV100W
383          .          .         .          .      RR100
             .          .         .          .          V
             .          .         .          .          V
386          .          .         .          .      RD100
             .          .         .          .          .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                .         .         .         .         .
391             .         .         .         .         .         .<-------  DIV102
389             .         .         .         .         .      RR102
                .         .         .         .         .         V
                .         .         .         .         .         V
392             .         .         .         .         .      RD102
                .         .         .         .         .         .
                .         .         .         .         .         .
395             .         .         .      C104.......................
                .         .         .         V
                .         .         .         V
398             .         .         .      R104
                .         .         .         .
                .         .         .         .
401             .         .         .         .      Q4105
                .         .         .         .         .
                .         .         .         .         .
406             .         .         .      C105............
                .         .         .         .
                .         .         .         .
411             .         .         .         .------->   DV105
409             .         .         .      D105
                .         .         .         .
                .         .         .         .
417             .         .         .         .         .<-------  DIV101
414             .         .         .         .      RR101
                .         .         .         .         .
                .         .         .         .         .
421             .         .         .         .         .         .<-------  DIV103
418             .         .         .         .         .      RR103
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 14

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
100 year, 24 hour Storm
Drainage Area 5

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q5052	369	12.83
ROUTED TO	SR052	34	14.50
ROUTED TO	R052	33	16.83
HYDROGRAPH AT	Q5053	2018	12.83
2 COMBINED AT	C053	2020	12.83
ROUTED TO	R053	2016	12.83
HYDROGRAPH AT	Q5022	16	12.67
2 COMBINED AT	C022	2029	12.83
ROUTED TO	R022	1999	12.83
HYDROGRAPH AT	Q5021	151	12.67
ROUTED TO	R021	147	12.67
HYDROGRAPH AT	Q5054	126	13.17
ROUTED TO	R054	125	13.33
HYDROGRAPH AT	RR023	224	12.67
ROUTED TO	RD023	217	12.67
HYDROGRAPH AT	Q5004	158	12.67
5 COMBINED AT	C004	2566	12.83
ROUTED TO	R004	2554	12.83
HYDROGRAPH AT	Q5055	183	13.00
ROUTED TO	R055	180	13.00
HYDROGRAPH AT	Q5002	14	12.67
ROUTED TO	R002	14	12.67
HYDROGRAPH AT	Q5005	142	12.67
4 COMBINED AT	C005	2826	12.83
DIVERSION TO	DIV05	565	12.83
HYDROGRAPH AT	D005	2261	12.83
ROUTED TO	R005	2249	12.83
HYDROGRAPH AT	Q5001	44	12.83
DIVERSION TO	DIV01	14	12.83
HYDROGRAPH AT	D001	30	12.83
ROUTED TO	R001	29	12.83
HYDROGRAPH AT	Q5003	73	12.67
3 COMBINED AT	C003	2321	12.83
DIVERSION TO	DIV03	29	12.83
HYDROGRAPH AT	D003	2292	12.83
ROUTED TO	R003	2264	12.83
HYDROGRAPH AT	Q5006	120	12.67
2 COMBINED AT	C006	2315	12.83
DIVERSION TO	DIV06	480	12.83
HYDROGRAPH AT	D006	1835	12.83
DIVERSION TO	DIV06D	1835	0.17
HYDROGRAPH AT	D006D	0	0.17
HYDROGRAPH AT	Q5009	32	12.67

A Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
ROUTED TO	R5009	31	12.67
HYDROGRAPH AT	RR025	297	12.67
ROUTED TO	RD025	289	12.67
HYDROGRAPH AT	Q5011	66	12.67
2 COMBINED AT	C011	355	12.67
ROUTED TO	R5011	343	12.67
HYDROGRAPH AT	RR005	565	12.83
ROUTED TO	RD005	561	12.83
HYDROGRAPH AT	Q5008	143	12.67
2 COMBINED AT	C008	662	12.67
ROUTED TO	R008	659	12.83
HYDROGRAPH AT	Q5010	86	12.67
4 COMBINED AT	C010	1105	12.67
ROUTED TO	R010	1089	12.67
HYDROGRAPH AT	Q5012	44	12.67
ROUTED TO	R012	43	12.67
HYDROGRAPH AT	Q5007	4	12.67
3 COMBINED AT	C007	1136	12.67
ROUTED TO	SR007	1137	12.83
ROUTED TO	R007	1006	13.00
HYDROGRAPH AT	RR003	29	11.83
ROUTED TO	RD003	29	12.00
HYDROGRAPH AT	RR001	14	12.17
ROUTED TO	RD001	14	12.33
HYDROGRAPH AT	RR006	480	12.17
ROUTED TO	RD006	480	12.33
HYDROGRAPH AT	Q5014	142	12.67
ROUTED TO	R014	140	12.67
HYDROGRAPH AT	Q5013	118	12.67
2 COMBINED AT	C013	258	12.67
DIVERSION TO	DIV13	25	12.67
HYDROGRAPH AT	D013	233	12.67
ROUTED TO	R013	222	12.67
HYDROGRAPH AT	Q5018	239	12.67
ROUTED TO	R018	239	12.67
HYDROGRAPH AT	Q5017	121	12.67
3 COMBINED AT	C017	582	12.67
DIVERSION TO	DIV17	350	12.67
HYDROGRAPH AT	D017	232	12.67
ROUTED TO	R017	219	12.67
HYDROGRAPH AT	Q5015	179	12.67
ROUTED TO	R015	173	12.67
HYDROGRAPH AT	RR035	393	12.67
ROUTED TO	RD035	375	12.67
HYDROGRAPH AT	Q5020	254	12.67
3 COMBINED AT	C020	801	12.67
ROUTED TO	R0201	794	12.67
DIVERSION TO	DIV20	226	12.67
HYDROGRAPH AT	D020	568	12.67
ROUTED TO	R0202	557	12.67
HYDROGRAPH AT	Q5019	126	12.67
3 COMBINED AT	C5019	902	12.67

A Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
ROUTED TO	SR019	3	26.17
DIVERSION TO	DIV19	3	0.17
HYDROGRAPH AT	D019	0	0.17
ROUTED TO	R5019	0	0.17
HYDROGRAPH AT	RR017	350	12.33
ROUTED TO	RD017	350	12.50
HYDROGRAPH AT	RR013	25	12.00

A Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  11       Q5052
              V
              V
  22       SR052
              V
              V
  29        R052
              .
              .
  32          .       Q5053
              .          .
              .          .
  37        C053............
              V
              V
  40        R053
              .
              .
  43          .       Q5022
              .          .
              .          .
  48        C022............
              V
              V
  51        R022
              .
              .
  54          .       Q5021
              .          V
              .          V
  60          .        R021
              .          .
              .          .
  63          .          .      Q5054
              .          .         V
              .          .         V
  68          .          .       R054
              .          .         .
              .          .         .
  71          .          .         .      RR023
              .          .         .         V
              .          .         .         V
 105          .          .         .      RD023
              .          .         .         .
              .          .         .         .
 109          .          .         .         .      Q5004
              .          .         .         .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                .         .         .         .         .
114          C004.............................................
                V
                V
117          R004
                .
                .
120             .      Q5055
                .         V
                .         V
125             .       R055
                .         .
                .         .
128             .         .      Q5002
                .         .         V
                .         .         V
134             .         .       R002
                .         .         .
                .         .         .
137             .         .         .      Q5005
                .         .         .         .
                .         .         .         .
143          C005...................................
                .
                .
148             .-------> DIV05
146          D005
                V
                V
151          R005
                .
                .
154             .      Q5001
                .         .
                .         .
161             .         .-------> DIV01
159             .       D001
                .         V
                .         V
164             .       R001
                .         .
                .         .
167             .         .      Q5003
                .         .         .
                .         .         .
173          C003........................
                .
                .
178             .-------> DIV03
176          D003
                V
                V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
181        R003
              .
              .
184           .      Q5006
              .          .
              .          .
190        C006............
              .
              .
195           .-------> DIV06
193        D006
              .
              .
200           .-------> DIV06D
198       D006D
              .
              .
203           .      Q5009
              .          V
              .          V
209           .      R5009
              .          .
              .          .
212           .          .      RR025
              .          .          V
              .          .          V
246           .          .      RD025
              .          .          .
              .          .          .
250           .          .          .      Q5011
              .          .          .          .
              .          .          .          .
256           .          .       C011............
              .          .          V
              .          .          V
259           .          .      R5011
              .          .          .
              .          .          .
264           .          .          .          .<-------   DIV05
262           .          .          .      RR005
              .          .          .          V
              .          .          .          V
265           .          .          .      RD005
              .          .          .          .
              .          .          .          .
268           .          .          .          .      Q5008
              .          .          .          .          .
              .          .          .          .          .
274           .          .          .       C008............
              .          .          .          V
              .          .          .          V
277           .          .          .       R008
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                .         .         .         .
                .         .         .         .
280             .         .         .         .      Q5010
                .         .         .         .         .
                .         .         .         .         .
286             .       C010.................................
                .         V
                .         V
289             .       R010
                .         .
                .         .
292             .         .      Q5012
                .         .         V
                .         .         V
298             .         .       R012
                .         .         .
                .         .         .
301             .         .         .      Q5007
                .         .         .         .
                .         .         .         .
307             .       C007......................
                .         V
                .         V
311             .      SR007
                .         V
                .         V
319             .       R007
                .         .
                .         .
325             .         .         .<-------   DIV03
323             .         .      RR003
                .         .         V
                .         .         V
326             .         .      RD003
                .         .         .
                .         .         .
332             .         .         .         .<-------   DIV01
330             .         .         .      RR001
                .         .         .         V
                .         .         .         V
333             .         .         .      RD001
                .         .         .         .
                .         .         .         .
339             .         .         .         .         .<-------   DIV06
337             .         .         .         .      RR006
                .         .         .         .         V
                .         .         .         .         V
340             .         .         .         .      RD006
                .         .         .         .         .
                .         .         .         .         .
344             .         .         .         .         .      Q5014
                .         .         .         .         .         V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                                                  V
350                                              R014
                                                   .
                                                   .
353                                                .      Q5013
                                                   .         .
                                                   .         .
359                                              C013............
                                                   .
                                                   .
364                                                .-------> DIV13
362                                              D013
                                                   V
                                                   V
367                                              R013
                                                   .
                                                   .
370                                                .      Q5018
                                                   .         V
                                                   .         V
376                                                .       R018
                                                   .         .
                                                   .         .
379                                                .         .      Q5017
                                                   .         .         .
                                                   .         .         .
385                                              C017......................
                                                   .
                                                   .
390                                                .-------> DIV17
388                                              D017
                                                   V
                                                   V
393                                              R017
                                                   .
                                                   .
396                                                .      Q5015
                                                   .         V
                                                   .         V
402                                                .       R015
                                                   .         .
                                                   .         .
405                                                .         .      RR035
                                                   .         .         V
                                                   .         .         V
439                                                .         .      RD035
                                                   .         .         .
                                                   .         .         .
443                                                .         .         .      Q5020
                                                   .         .         .         .
                                                   .         .         .         .
449                                                .       C020......................
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                                                                  V
                                                                  V
452                                                           R0201
                                                                  .
                                                                  .
457                                                               .-------> DIV20
455                                                            D020
                                                                  V
                                                                  V
460                                                           R0202
                                                                  .
                                                                  .
463                                                               .      Q5019
                                                                  .          .
                                                                  .          .
469                                                       C5019.......................
                                                              V
                                                              V
472                                                       SR019
                                                              .
                                                              .
480                                                           .-------> DIV19
478                                                        D019
                                                              V
                                                              V
483                                                       R5019
                                                              .
                                                              .
489                                                               .<------- DIV17
487                                                           RR017
                                                                  V
                                                                  V
490                                                           RD017
                                                                  .
                                                                  .
496                                                               .          .<------- DIV13
493                                                               .      RR013
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 14

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
100 year, 24 hour Storm
Drainage Area 5

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q5047	46	13.17
DIVERSION TO	DIV47	46	0.17
HYDROGRAPH AT	D047	0	0.17
HYDROGRAPH AT	Q5049	239	12.67
ROUTED TO	R0491	237	12.67
ROUTED TO	R0492	232	12.67
HYDROGRAPH AT	Q5050	1238	12.83
ROUTED TO	R050	1232	12.83
HYDROGRAPH AT	Q5045	120	13.17
3 COMBINED AT	C045	1566	12.83
DIVERSION TO	DIV45	313	12.83
HYDROGRAPH AT	D045	1253	12.83
ROUTED TO	R045	1243	12.83
HYDROGRAPH AT	Q5046	253	12.67
2 COMBINED AT	C046	1413	12.67
DIVERSION TO	DIV46	141	12.67
HYDROGRAPH AT	D046	1272	12.67
ROUTED TO	R046	1271	12.83
HYDROGRAPH AT	Q5048	35	12.83
2 COMBINED AT	C048	1306	12.83
DIVERSION TO	DIV48	1306	0.17
HYDROGRAPH AT	D048	0	0.17
HYDROGRAPH AT	Q5040	77	12.67
ROUTED TO	R040	74	12.67
HYDROGRAPH AT	Q5038	159	12.67
2 COMBINED AT	C038	233	12.67
ROUTED TO	R038	230	12.67
HYDROGRAPH AT	Q5039	15	12.67
2 COMBINED AT	C039	245	12.67
ROUTED TO	R039	244	12.67
DIVERSION TO	DIV39	244	0.17
HYDROGRAPH AT	D039	0	0.17
HYDROGRAPH AT	Q5042	39	12.67
DIVERSION TO	DIV42	39	0.17
HYDROGRAPH AT	D042	0	0.17
HYDROGRAPH AT	Q5043	138	12.67
DIVERSION TO	DIV43	138	0.17
HYDROGRAPH AT	D043	0	0.17
HYDROGRAPH AT	Q5051	541	12.67
ROUTED TO	R051	538	12.67
HYDROGRAPH AT	Q5027	69	13.00
2 COMBINED AT	C027	601	12.67
ROUTED TO	R027	596	12.67

* Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q5028	32	12.67
2 COMBINED AT	C028	628	12.67
DIVERSION TO	DIV28	63	12.67
HYDROGRAPH AT	D028	565	12.67
ROUTED TO	R028	561	12.67
HYDROGRAPH AT	RR045	313	12.83
ROUTED TO	RD045	311	12.83
HYDROGRAPH AT	Q5030	62	12.67
2 COMBINED AT	C030	369	12.83
ROUTED TO	R030	367	12.83
HYDROGRAPH AT	RR028	63	12.67
ROUTED TO	RD028	62	12.67
HYDROGRAPH AT	Q5029	53	12.67
3 COMBINED AT	C029	460	12.83
DIVERSION TO	DIV29	46	12.83
HYDROGRAPH AT	D029	414	12.83
ROUTED TO	R029	414	12.83
HYDROGRAPH AT	Q5024	90	12.67
3 COMBINED AT	C024	1049	12.67
ROUTED TO	R024	1034	12.67
HYDROGRAPH AT	Q5023	86	12.67
2 COMBINED AT	C023	1120	12.67
DIVERSION TO	DIV23	224	12.67
HYDROGRAPH AT	D023	896	12.67
ROUTED TO	R023	862	12.67
HYDROGRAPH AT	RR046	141	12.67
ROUTED TO	RD046	141	12.83
HYDROGRAPH AT	Q5032	132	12.67
2 COMBINED AT	C032	261	12.67
ROUTED TO	R5032	258	12.67
HYDROGRAPH AT	RR029	46	12.83
ROUTED TO	RD029	44	12.83
HYDROGRAPH AT	Q5031	200	12.67
3 COMBINED AT	C031	495	12.67
DIVERSION TO	DIV31	149	12.67
HYDROGRAPH AT	D031	347	12.67
ROUTED TO	R031	337	12.67
HYDROGRAPH AT	Q5026	153	12.67
2 COMBINED AT	C026	489	12.67
ROUTED TO	R026	480	12.67
HYDROGRAPH AT	Q5025	145	12.67
3 COMBINED AT	C025	1487	12.67
DIVERSION TO	DIV25	297	12.67
HYDROGRAPH AT	D025	1189	12.67
ROUTED TO	R025	1172	12.67
HYDROGRAPH AT	Q5016	64	12.67
ROUTED TO	R016	63	12.67
HYDROGRAPH AT	Q5033	183	12.67
3 COMBINED AT	C033	1419	12.67
ROUTED TO	R033	1393	12.67
HYDROGRAPH AT	Q5034	150	12.67
2 COMBINED AT	C034	1543	12.67

* Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
DIVERSION TO	SD34	11	12.67
HYDROGRAPH AT	SD034	1532	12.67
ROUTED TO	R034	1483	12.67
HYDROGRAPH AT	RR031	149	12.67
ROUTED TO	RD031	139	12.83
HYDROGRAPH AT	Q5041	45	13.00
2 COMBINED AT	C5041	180	12.83
ROUTED TO	R041	176	12.83
HYDROGRAPH AT	Q5044	136	12.67
2 COMBINED AT	C044	291	12.67
DIVERSION TO	DIV44	87	12.67
HYDROGRAPH AT	D044	204	12.67
ROUTED TO	R044	195	12.67
HYDROGRAPH AT	Q5036	71	12.67
ROUTED TO	R036	70	12.67
HYDROGRAPH AT	Q5037	81	12.67
3 COMBINED AT	C037	346	12.67
ROUTED TO	R037	334	12.67
HYDROGRAPH AT	Q5035	167	12.67
3 COMBINED AT	C035	1984	12.67
DIVERSION TO	SD35	15	12.67
HYDROGRAPH AT	SD035	1969	12.67
DIVERSION TO	DIV35	394	12.67
HYDROGRAPH AT	D035	1575	12.67
HYDROGRAPH AT	RR023	224	12.67
HYDROGRAPH AT	RR025	297	12.67
HYDROGRAPH AT	RR035	394	12.67

* Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  11       Q5047
              .
              .
  24          .-------> DIV47
  22        D047
              .
              .
  27          .      Q5049
              .         V
              .         V
  32          .      R0491
              .         V
              .         V
  35          .      R0492
              .         .
              .         .
  38          .         .      Q5050
              .         .         V
              .         .         V
  43          .         .       R050
              .         .          .
              .         .          .
  46          .         .          .      Q5045
              .         .          .          .
              .         .          .          .
  52          .       C045.......................
              .         .
              .         .
  57          .         .-------> DIV45
  55          .       D045
              .         V
              .         V
  60          .       R045
              .         .
              .         .
  63          .         .      Q5046
              .         .          .
              .         .          .
  69          .       C046............
              .         .
              .         .
  74          .         .-------> DIV46
  72          .       D046
              .         V
              .         V
  77          .       R046
              .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
 80          .          .      Q5048
             .          .          .
             .          .          .
 85          .       C048............
             .          .
             .          .
 90          .          .-------> DIV48
 88          .       D048
             .          .
             .          .
 93          .          .      Q5040
             .          .          V
             .          .          V
 99          .          .       R040
             .          .          .
             .          .          .
102          .          .          .      Q5038
             .          .          .          .
             .          .          .          .
108          .          .       C038............
             .          .          V
             .          .          V
111          .          .       R038
             .          .          .
             .          .          .
114          .          .          .      Q5039
             .          .          .          .
             .          .          .          .
120          .          .       C039............
             .          .          V
             .          .          V
123          .          .       R039
             .          .          .
             .          .          .
128          .          .          .-------> DIV39
126          .          .       D039
             .          .          .
             .          .          .
131          .          .          .      Q5042
             .          .          .          .
             .          .          .          .
139          .          .          .          .-------> DIV42
137          .          .          .       D042
             .          .          .          .
             .          .          .          .
142          .          .          .          .      Q5043
             .          .          .          .          .
             .          .          .          .          .
150          .          .          .          .          .-------> DIV43
148          .          .          .          .       D043
             .          .          .          .          .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
153                                  Q5051
                                       V
                                       V
158                                  R051
                                       .
                                       .
161                                    .        Q5027
                                       .          .
                                       .          .
167                                  C027............
                                       V
                                       V
170                                  R027
                                       .
                                       .
173                                    .        Q5028
                                       .          .
                                       .          .
179                                  C028............
                                       .
                                       .
184                                    .-------> DIV28
182                                  D028
                                       V
                                       V
187                                  R028
                                       .
                                       .
192                                    .          .<-------   DIV45
190                                    .        RR045
                                       .          V
                                       .          V
193                                    .        RD045
                                       .          .
                                       .          .
196                                    .          .       Q5030
                                       .          .         .
                                       .          .         .
202                                    .       C030............
                                       .          V
                                       .          V
205                                    .       R030
                                       .          .
                                       .          .
210                                    .          .         .<-------   DIV28
208                                    .          .       RR028
                                       .          .         V
                                       .          .         V
211                                    .          .       RD028
                                       .          .         .
                                       .          .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
214   .         .         .         .         .         .         .         .         Q5029
      .         .         .         .         .         .         .         .         .
      .         .         .         .         .         .         .         .         .
220   .         .         .         .         .         .      C029.......................
      .         .         .         .         .         .         .
      .         .         .         .         .         .         .
225   .         .         .         .         .         .         .-------> DIV29
223   .         .         .         .         .         .      D029
      .         .         .         .         .         .         V
      .         .         .         .         .         .         V
228   .         .         .         .         .         .      R029
      .         .         .         .         .         .         .
      .         .         .         .         .         .         .
231   .         .         .         .         .         .         .      Q5024
      .         .         .         .         .         .         .         .
      .         .         .         .         .         .         .         .
237   .         .         .         .         .      C024.......................
      .         .         .         .         .         V
      .         .         .         .         .         V
240   .         .         .         .         .      R024
      .         .         .         .         .         .
      .         .         .         .         .         .
243   .         .         .         .         .         .      Q5023
      .         .         .         .         .         .         .
      .         .         .         .         .         .         .
249   .         .         .         .         .      C023............
      .         .         .         .         .         .
      .         .         .         .         .         .
254   .         .         .         .         .         .-------> DIV23
252   .         .         .         .         .      D023
      .         .         .         .         .         V
      .         .         .         .         .         V
257   .         .         .         .         .      R023
      .         .         .         .         .         .
      .         .         .         .         .         .
262   .         .         .         .         .         .         .<------- DIV46
260   .         .         .         .         .         .      RR046
      .         .         .         .         .         .         V
      .         .         .         .         .         .         V
263   .         .         .         .         .         .      RD046
      .         .         .         .         .         .         .
      .         .         .         .         .         .         .
266   .         .         .         .         .         .         .      Q5032
      .         .         .         .         .         .         .         .
      .         .         .         .         .         .         .         .
272   .         .         .         .         .         .      C032............
      .         .         .         .         .         .         V
      .         .         .         .         .         .         V
275   .         .         .         .         .         .      R5032
      .         .         .         .         .         .         .
      .         .         .         .         .         .         .
280   .         .         .         .         .         .         .         .<------- DIV29
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
278   .       .       .       .       .       .       .       RR029
      .       .       .       .       .       .       .          V
      .       .       .       .       .       .       .          V
281   .       .       .       .       .       .       .       RD029
      .       .       .       .       .       .       .          .
      .       .       .       .       .       .       .          .
284   .       .       .       .       .       .       .          .       Q5031
      .       .       .       .       .       .       .          .          .
      .       .       .       .       .       .       .          .          .
290   .       .       .       .       .       .     C031.......................
      .       .       .       .       .       .       .
      .       .       .       .       .       .       .
295   .       .       .       .       .       .       .-------> DIV31
293   .       .       .       .       .       .     D031
      .       .       .       .       .       .       V
      .       .       .       .       .       .       V
298   .       .       .       .       .       .     R031
      .       .       .       .       .       .       .
      .       .       .       .       .       .       .
301   .       .       .       .       .       .       .       Q5026
      .       .       .       .       .       .       .          .
      .       .       .       .       .       .       .          .
307   .       .       .       .       .       .     C026............
      .       .       .       .       .       .       V
      .       .       .       .       .       .       V
310   .       .       .       .       .       .     R026
      .       .       .       .       .       .       .
      .       .       .       .       .       .       .
313   .       .       .       .       .       .       .       Q5025
      .       .       .       .       .       .       .          .
      .       .       .       .       .       .       .          .
319   .       .       .       .       .     C025........................
      .       .       .       .       .       .
      .       .       .       .       .       .
324   .       .       .       .       .       .-------> DIV25
322   .       .       .       .       .     D025
      .       .       .       .       .       V
      .       .       .       .       .       V
327   .       .       .       .       .     R025
      .       .       .       .       .       .
      .       .       .       .       .       .
330   .       .       .       .       .       .     Q5016
      .       .       .       .       .       .       V
      .       .       .       .       .       .       V
336   .       .       .       .       .       .     R016
      .       .       .       .       .       .       .
      .       .       .       .       .       .       .
339   .       .       .       .       .       .       .       Q5033
      .       .       .       .       .       .       .          .
      .       .       .       .       .       .       .          .
345   .       .       .       .       .     C033........................
      .       .       .       .       .       V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                                                  V
348                                             R033
                                                   .
                                                   .
351                                                .      Q5034
                                                   .         .
                                                   .         .
357                                             C034............
                                                   .
                                                   .
362                                                .-------->   SD34
360                                            SD034
                                                   V
                                                   V
365                                             R034
                                                   .
                                                   .
370                                                .         .<-------   DIV31
368                                                .      RR031
                                                   .         V
                                                   .         V
371                                                .      RD031
                                                   .         .
                                                   .         .
374                                                .         .      Q5041
                                                   .         .         .
                                                   .         .         .
379                                                .      C5041............
                                                   .         V
                                                   .         V
382                                                .       R041
                                                   .         .
                                                   .         .
385                                                .         .      Q5044
                                                   .         .         .
                                                   .         .         .
391                                                .       C044............
                                                   .         .
                                                   .         .
396                                                .         .-------->   DIV44
394                                                .       D044
                                                   .         V
                                                   .         V
399                                                .       R044
                                                   .         .
                                                   .         .
402                                                .         .      Q5036
                                                   .         .         V
                                                   .         .         V
408                                                .         .       R036
                                                   .         .         .
                                                   .         .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
411   .       .       .       .       .       .       .       .       Q5037
      .       .       .       .       .       .       .       .         .
      .       .       .       .       .       .       .       .         .
417   .       .       .       .       .       .     C037.....................
      .       .       .       .       .       .       V
      .       .       .       .       .       .       V
420   .       .       .       .       .       .     R037
      .       .       .       .       .       .       .
      .       .       .       .       .       .       .
423   .       .       .       .       .       .       .     Q5035
      .       .       .       .       .       .       .       .
      .       .       .       .       .       .       .       .
429   .       .       .       .       .     C035.....................
      .       .       .       .       .       .
      .       .       .       .       .       .
434   .       .       .       .       .       .------->   SD35
432   .       .       .       .       .    SD035
      .       .       .       .       .       .
      .       .       .       .       .       .
439   .       .       .       .       .       .------->   DIV35
437   .       .       .       .       .     D035
      .       .       .       .       .       .
      .       .       .       .       .       .
445   .       .       .       .       .       .       .<-------   DIV23
442   .       .       .       .       .       .     RR023
      .       .       .       .       .       .       .
      .       .       .       .       .       .       .
449   .       .       .       .       .       .       .       .<-------   DIV25
446   .       .       .       .       .       .       .     RR025
      .       .       .       .       .       .       .       .
      .       .       .       .       .       .       .       .
453   .       .       .       .       .       .       .       .         .<-------
450   .       .       .       .       .       .       .       .       RR035
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 14

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
100 year, 24 hour Storm
Drainage Area 6

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q6005	166	12.67
HYDROGRAPH AT	Q6010	194	12.67
HYDROGRAPH AT	RR10	41	12.67
ROUTED TO	RD10	39	12.67
2 COMBINED AT	C00	233	12.67
HYDROGRAPH AT	Q6009	530	12.67
HYDROGRAPH AT	RR12	51	12.67
ROUTED TO	RD12	49	12.83
2 COMBINED AT	C0	576	12.67
ROUTED TO	R6009	562	12.67
HYDROGRAPH AT	Q6008	159	12.67
2 COMBINED AT	C1	721	12.67
ROUTED TO	R1	709	12.67
HYDROGRAPH AT	Q6007	41	12.67
2 COMBINED AT	C2	751	12.67
ROUTED TO	R2A	748	12.67
ROUTED TO	R2B	747	12.67
HYDROGRAPH AT	Q6006	38	12.50
2 COMBINED AT	C3	773	12.67
HYDROGRAPH AT	Q6012	50	12.67
ROUTED TO	R6012	49	12.67
HYDROGRAPH AT	Q6011	47	12.67
2 COMBINED AT	C4	97	12.67
ROUTED TO	R4	95	12.67
3 COMBINED AT	C5	1034	12.67
HYDROGRAPH AT	Q6004	117	12.50
HYDROGRAPH AT	Q6052	19	12.67
HYDROGRAPH AT	Q6053	44	12.67
HYDROGRAPH AT	Q6054	45	12.67

* Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  12      Q6005
              .
              .
  24          .      Q6010
              .          .
              .          .
  30          .          .       RR10
              .          .          V
              .          .          V
  64          .          .       RD10
              .          .          .
              .          .          .
  68          .        C00............
              .          V
              .          V
  71          .      Q6009 ***
              .          .
              .          .
  77          .          .       RR12
              .          .          V
              .          .          V
 111          .          .       RD12
              .          .          .
              .          .          .
 115          .         C0............
              .          V
              .          V
 118          .      R6009
              .          .          .
              .          .
 121          .          .      Q6008
              .          .          .
              .          .          .
 128          .         C1............
              .          V
              .          V
 131          .         R1
              .          .
              .          .
 134          .          .      Q6007
              .          .          .
              .          .          .
 141          .         C2............
              .          V
              .          V
 144          .        R2A
              .          V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                 .        V
147              .      R2B
                 .        .
                 .        .
150              .        .      Q6006
                 .        .        .
                 .        .        .
155              .      C3............
                 .        .
                 .        .
158              .        .      Q6012
                 .        .        V
                 .        .        V
164              .        .      R6012
                 .        .        .
                 .        .        .
167              .        .        .      Q6011
                 .        .        .        .
                 .        .        .        .
174              .        .      C4............
                 .        .        V
                 .        .        V
177              .        .      R4
                 .        .        .
                 .        .        .
180            C5......................
                 .
                 .
183              .     Q6004
                 .        .
                 .        .
188              .        .      Q6052
                 .        .        .
                 .        .        .
194              .        .        .      Q6053
                 .        .        .        .
                 .        .        .        .
200              .        .        .        .      Q6054
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 14

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
100 year, 24 hour Storm
Drainage Area 6

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	QP6A	55	12.67
ROUTED TO	RP6A	54	12.67
HYDROGRAPH AT	QP6B	107	12.50
ROUTED TO	RP6B1	103	12.50
ROUTED TO	RP6B2	99	12.50
HYDROGRAPH AT	Q6020	53	12.67
3 COMBINED AT	C7	206	12.67
ROUTED TO	R7A	204	12.67
ROUTED TO	R7B	202	12.67
HYDROGRAPH AT	Q6019	102	12.67
2 COMBINED AT	C8	304	12.67
ROUTED TO	R8	299	12.67
HYDROGRAPH AT	Q6018	70	12.67
2 COMBINED AT	C9	368	12.67
ROUTED TO	R9	362	12.67
HYDROGRAPH AT	Q6017	51	12.67
2 COMBINED AT	C10	413	12.67
DIVERSION TO	DIV10	41	12.67
HYDROGRAPH AT	D10	372	12.67
ROUTED TO	R10	364	12.67
HYDROGRAPH AT	Q6016	63	12.67
2 COMBINED AT	C11	427	12.67
ROUTED TO	R11	416	12.67
HYDROGRAPH AT	Q6015	91	12.67
2 COMBINED AT	C12	507	12.67
DIVERSION TO	DIV12	51	12.67
HYDROGRAPH AT	D12	457	12.67
ROUTED TO	R12	450	12.67
HYDROGRAPH AT	QP6C	108	12.50
ROUTED TO	RP6C	105	12.50
HYDROGRAPH AT	Q6028	52	12.67
2 COMBINED AT	C13	155	12.50
DIVERSION TO	DIV13	46	12.50
HYDROGRAPH AT	D13	108	12.50
ROUTED TO	R13	105	12.50
HYDROGRAPH AT	Q6027	107	12.67
2 COMBINED AT	C14	207	12.50
ROUTED TO	R14	207	12.67
HYDROGRAPH AT	Q6026	114	12.67
2 COMBINED AT	C15	320	12.67
ROUTED TO	R15	313	12.67
HYDROGRAPH AT	Q6025	211	12.67
2 COMBINED AT	C16	524	12.67

* Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
ROUTED TO	R16	521	12.67
HYDROGRAPH AT	QP6D	27	12.50
ROUTED TO	RP6D	27	12.50
HYDROGRAPH AT	Q6030	16	12.50
2 COMBINED AT	C17	42	12.50
ROUTED TO	R17	42	12.50
HYDROGRAPH AT	QP6E	55	12.50
ROUTED TO	RP6E1	54	12.50
ROUTED TO	RP6E2	53	12.50
HYDROGRAPH AT	QP5	55	12.50
ROUTED TO	RP5	53	12.50
HYDROGRAPH AT	Q6031	156	12.50
3 COMBINED AT	C18	262	12.50
ROUTED TO	R18	260	12.50
2 COMBINED AT	C19	302	12.50
ROUTED TO	R19	287	12.50
HYDROGRAPH AT	Q6029	176	12.67
HYDROGRAPH AT	RR13	46	12.50
ROUTED TO	RD13	45	12.67
3 COMBINED AT	C20	504	12.67
HYDROGRAPH AT	Q6033	243	12.50
ROUTED TO	R6033	239	12.50
HYDROGRAPH AT	Q6032	243	12.67
3 COMBINED AT	C21	960	12.50
ROUTED TO	R21	948	12.67
HYDROGRAPH AT	Q6035	65	12.50
ROUTED TO	R6035A	65	12.50
ROUTED TO	R6035B	62	12.50
HYDROGRAPH AT	Q6034	151	12.50
3 COMBINED AT	C22	1153	12.67
ROUTED TO	R22	1153	12.67
HYDROGRAPH AT	Q6024	25	12.50
3 COMBINED AT	C23	1684	12.67
ROUTED TO	R23A	1682	12.67
ROUTED TO	R23B	1666	12.67
HYDROGRAPH AT	Q6023	153	12.67
2 COMBINED AT	C24	1819	12.67
DIVERSION TO	DIV24	1173	12.67
HYDROGRAPH AT	D24	646	12.67
ROUTED TO	R24A	641	12.67
ROUTED TO	R24B	632	12.67
HYDROGRAPH AT	Q6014	57	12.67
3 COMBINED AT	C25	1140	12.67
ROUTED TO	R25	1116	12.67
HYDROGRAPH AT	Q6013	127	12.67
2 COMBINED AT	C26	1243	12.67
HYDROGRAPH AT	RR24	1173	12.67
ROUTED TO	RD24	1150	12.83
HYDROGRAPH AT	Q6022	57	12.67
ROUTED TO	R6022	54	12.83
HYDROGRAPH AT	Q6021	69	12.83
3 COMBINED AT	C27	1273	12.83

* Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q6038	163	12.50
HYDROGRAPH AT	Q6037	36	12.50
2 COMBINED AT	C28	198	12.50
ROUTED TO	R28A	195	12.50
ROUTED TO	R28B	191	12.50
HYDROGRAPH AT	Q6036	50	12.83
2 COMBINED AT	C29	228	12.67
ROUTED TO	R29	228	12.67
HYDROGRAPH AT	Q6044	69	12.50
HYDROGRAPH AT	Q6043	205	12.50
HYDROGRAPH AT	Q6042	333	12.50
HYDROGRAPH AT	Q6045	43	12.50
HYDROGRAPH AT	RRDIV2	22	12.50
2 COMBINED AT	C30	65	12.50
ROUTED TO	R30	63	12.50
2 COMBINED AT	C31	396	12.50
HYDROGRAPH AT	Q6041	441	12.50
ROUTED TO	R6041	439	12.50
HYDROGRAPH AT	Q6040	134	12.50
2 COMBINED AT	C32	573	12.50
HYDROGRAPH AT	Q6049B	78	12.67
ROUTED TO	R6049B	77	12.67
HYDROGRAPH AT	Q6049A	44	12.67
3 COMBINED AT	C33	685	12.50
DIVERSION TO	DIV33	68	12.50
HYDROGRAPH AT	D33	616	12.50
ROUTED TO	R33	606	12.50
HYDROGRAPH AT	Q6050	53	12.83
2 COMBINED AT	C34A	658	12.67
DIVERSION TO	DIV34A	593	12.67
HYDROGRAPH AT	D34A	66	12.67
HYDROGRAPH AT	RRDIV5	139	12.83
2 COMBINED AT	C34B	199	12.67
ROUTED TO	R34B	196	12.67
HYDROGRAPH AT	Q6039	97	12.67
HYDROGRAPH AT	RR33	68	12.50
ROUTED TO	RD33	68	12.67
3 COMBINED AT	C35	361	12.67
ROUTED TO	R35	341	12.83
HYDROGRAPH AT	Q6051	34	12.67
ROUTED TO	R6051	34	12.67
3 COMBINED AT	C36	601	12.67
ROUTED TO	R36	587	12.67
2 COMBINED AT	C37	1851	12.83
ROUTED TO	R37	1847	12.83
2 COMBINED AT	C38	3029	12.67
HYDROGRAPH AT	RR34A	593	12.67
ROUTED TO	RD34A	591	12.67

* Note: Refer to Hydrology Exhibit Sheets 2 and 3 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
INPUT
 LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  11        QP6A
               V
               V
  22        RP6A
               .
               .
  25           .        QP6B
               .           V
               .           V
  30           .       RP6B1
               .           V
               .           V
  33           .       RP6B2
               .           .
               .           .
  36           .           .       Q6020
               .           .          .
               .           .          .
  41         C7.......................
               V
               V
  44         R7A
               V
               V
  47         R7B
               .
               .
  50           .       Q6019
               .           .
               .           .
  57         C8............
               V
               V
  60         R8
               .
               .
  63           .       Q6018
               .           .
               .           .
  70         C9............
               V
               V
  73         R9
               .
               .
  76           .       Q6017
               .           .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                .          .
83            C10............
                .
                .
88              .-------->   DIV10
86            D10
                V
                V
91            R10
                .
                .
94              .      Q6016
                .          .
                .          .
99            C11............
                V
                V
102           R11
                .
                .
105             .      Q6015
                .          .
                .          .
112           C12............
                .
                .
117             .-------->   DIV12
115           D12
                V
                V
120           R12
                .
                .
123             .       QP6C
                .          V
                .          V
128             .       RP6C
                .          .
                .          .
131             .          .      Q6028
                .          .          .
                .          .          .
136             .        C13............
                .          .
                .          .
141             .          .-------->   DIV13
139             .        D13
                .          V
                .          V
144             .        R13
                .          .
                .          .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
147   .     .     Q6027
      .     .       .
      .     .       .
153   .   C14............
      .     V
      .     V
156   .   R14
      .     .
      .     .
159   .     .     Q6026
      .     .       .
      .     .       .
166   .   C15............
      .     V
      .     V
169   .   R15
      .     .
      .     .
172   .     .     Q6025
      .     .       .
      .     .       .
178   .   C16............
      .     V
      .     V
181   .   R16
      .     .
      .     .
184   .     .     QP6D
      .     .       V
      .     .       V
189   .     .     RP6D
      .     .       .
      .     .       .
192   .     .       .     Q6030
      .     .       .       .
      .     .       .       .
197   .     .     C17............
      .     .       V
      .     .       V
200   .     .     R17
      .     .       .
      .     .       .
203   .     .       .     QP6E
      .     .       .       V
      .     .       .       V
208   .     .       .     RP6E1
      .     .       .       V
      .     .       .       V
211   .     .       .     RP6E2
      .     .       .       .
      .     .       .       .
214   .     .       .       .       QP5
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                 .         .         .         .         V
                 .         .         .         .         V
219              .         .         .         .       RP5
                 .         .         .         .         .
                 .         .         .         .         .
222              .         .         .         .         .      Q6031
                 .         .         .         .         .         .
                 .         .         .         .         .         .
227              .         .         .       C18.......................
                 .         .         .         V
                 .         .         .         V
230              .         .         .       R18
                 .         .         .         .
                 .         .         .         .
233              .         .       C19............
                 .         .         V
                 .         .         V
236              .         .       R19
                 .         .         .
                 .         .         .
239              .         .         .      Q6029
                 .         .         .         .
                 .         .         .         .
248              .         .         .         .         .<-------   DIV13
246              .         .         .         .       RR13
                 .         .         .         .         V
                 .         .         .         .         V
249              .         .         .         .       RD13
                 .         .         .         .         .
                 .         .         .         .         .
252              .         .       C20.......................
                 .         .         .
                 .         .         .
255              .         .         .      Q6033
                 .         .         .         V
                 .         .         .         V
260              .         .         .      R6033
                 .         .         .         .
                 .         .         .         .
263              .         .         .         .      Q6032
                 .         .         .         .         .
                 .         .         .         .         .
270              .         .       C21.......................
                 .         .         V
                 .         .         V
273              .         .       R21
                 .         .         .
                 .         .         .
276              .         .         .      Q6035
                 .         .         .         V
                 .         .         .         V
281              .         .         .     R6035A
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                 .          .          .          V
                 .          .          .          V
284              .          .          .      R6035B
                 .          .          .          .
                 .          .          .          .
287              .          .          .          .       Q6034
                 .          .          .          .          .
                 .          .          .          .          .
292              .          .        C22.......................
                 .          .          V
                 .          .          V
295              .          .        R22
                 .          .          .
                 .          .          .
298              .          .          .      Q6024
                 .          .          .          .
                 .          .          .          .
303              .        C23.......................
                 .          V
                 .          V
306              .       R23A
                 .          V
                 .          V
309              .       R23B
                 .          .
                 .          .
312              .          .      Q6023
                 .          .          .
                 .          .          .
319              .        C24............
                 .          .
                 .          .
324              .          .-------->  DIV24
322              .        D24
                 .          V
                 .          V
327              .       R24A
                 .          V
                 .          V
330              .       R24B
                 .          .
                 .          .
333              .          .      Q6014
                 .          .          .
                 .          .          .
340            C25.......................
                 V
                 V
343            R25
                 .
                 .
346              .      Q6013
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                .          .
                .          .
353          C26............
                .
                .
358             .          .<-------   DIV24
356             .       RR24
                .          V
                .          V
359             .       RD24
                .          .
                .          .
362             .          .      Q6022
                .          .          V
                .          .          V
369             .          .      R6022
                .          .          .
                .          .          .
372             .          .          .      Q6021
                .          .          .          .
                .          .          .          .
377             .       C27.......................
                .          .
                .          .
380             .          .      Q6038
                .          .          .
                .          .          .
385             .          .          .      Q6037
                .          .          .          .
                .          .          .          .
390             .          .        C28............
                .          .          V
                .          .          V
393             .          .       R28A
                .          .          V
                .          .          V
396             .          .       R28B
                .          .          .
                .          .          .
399             .          .          .      Q6036
                .          .          .          .
                .          .          .          .
404             .          .        C29............
                .          .          V
                .          .          V
407             .          .        R29
                .          .          .
                .          .          .
410             .          .          .      Q6044
                .          .          .          V
                .          .          .          V
415             .          .          .      Q6043 ***
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                 .         .         .         V
                 .         .         .         V
421              .         .         .      Q6042 ***
                 .         .         .         .
                 .         .         .         .
427              .         .         .         .      Q6045
                 .         .         .         .         .
                 .         .         .         .         .
432              .         .         .         .         .     RRDIV2
                 .         .         .         .         .         .
                 .         .         .         .         .         .
466              .         .         .         .       C30............
                 .         .         .         .         V
                 .         .         .         .         V
470              .         .         .         .       R30
                 .         .         .         .         .
                 .         .         .         .         .
473              .         .         .       C31.........
                 .         .         .         V
                 .         .         .         V
476              .         .         .      Q6041 ***
                 .         .         .         V
                 .         .         .         V
482              .         .         .      R6041
                 .         .         .         .
                 .         .         .         .
485              .         .         .         .      Q6040
                 .         .         .         .         .
                 .         .         .         .         .
490              .         .         .       C32.........
                 .         .         .         .
                 .         .         .         .
493              .         .         .         .     Q6049B
                 .         .         .         .         V
                 .         .         .         .         V
499              .         .         .         .     R6049B
                 .         .         .         .         .
                 .         .         .         .         .
502              .         .         .         .         .     Q6049A
                 .         .         .         .         .         .
                 .         .         .         .         .         .
507              .         .         .       C33......................
                 .         .         .         .
                 .         .         .         .
512              .         .         .         .------->   DIV33
510              .         .         .       D33
                 .         .         .         V
                 .         .         .         V
515              .         .         .       R33
                 .         .         .         .
                 .         .         .         .
518              .         .         .         .      Q6050
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                .         .         .         .         .
                .         .         .         .         .
523             .         .         .      C34A...........
                .         .         .         .
                .         .         .         .
528             .         .         .         .-------> DIV34A
526             .         .         .      D34A
                .         .         .         .
                .         .         .         .
531             .         .         .         .     RRDIV5
                .         .         .         .         .
                .         .         .         .         .
565             .         .         .      C34B...........
                .         .         .         V
                .         .         .         V
569             .         .         .      R34B
                .         .         .         .
                .         .         .         .
572             .         .         .         .      Q6039
                .         .         .         .         .
                .         .         .         .         .
581             .         .         .         .         .         .<-------   DIV33
579             .         .         .         .         .      RR33
                .         .         .         .         .         V
                .         .         .         .         .         V
582             .         .         .         .         .      RD33
                .         .         .         .         .         .
                .         .         .         .         .         .
585             .         .         .       C35.......................
                .         .         .         V
                .         .         .         V
588             .         .         .       R35
                .         .         .         .
                .         .         .         .
591             .         .         .         .      Q6051
                .         .         .         .         V
                .         .         .         .         V
598             .         .         .         .      R6051
                .         .         .         .         .
                .         .         .         .         .
601             .         .       C36.......................
                .         .         V
                .         .         V
604             .         .       R36
                .         .         .
                .         .         .
607             .       C37...........
                .         V
                .         V
610             .       R37
                .         .
                .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
613        C38............
             .
             .
618          .          .<-------  DIV34A
616          .      RR34A
             .          V
             .          V
619          .      RD34A
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 14

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
100 year, 24 hour Storm
Drainage Area 7

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q7023	91	12.67
ROUTED TO	R7023	89	12.67
HYDROGRAPH AT	Q7022	63	12.67
ROUTED TO	R7022	62	12.67
HYDROGRAPH AT	Q7021	73	12.67
3 COMBINED AT	HC1	224	12.67
ROUTED TO	R7021	216	12.67
HYDROGRAPH AT	QP2E	109	12.50
ROUTED TO	RP2E	102	12.67
HYDROGRAPH AT	QP2D	49	12.50
ROUTED TO	RP2D	47	12.50
HYDROGRAPH AT	QP2C	92	12.50
ROUTED TO	RP2C	91	12.50
HYDROGRAPH AT	QP2A	561	12.50
4 COMBINED AT	HC2	800	12.50
ROUTED TO	RP2A	788	12.50
HYDROGRAPH AT	QP1C	73	12.83
ROUTED TO	RPC1	72	12.83
HYDROGRAPH AT	QP2B	44	12.83
ROUTED TO	RP2B	44	12.83
HYDROGRAPH AT	Q7020	112	12.67
5 COMBINED AT	HC3	1196	12.67
ROUTED TO	R7020	1190	12.67
HYDROGRAPH AT	QP1B	64	12.83
ROUTED TO	RP1B	63	12.83
HYDROGRAPH AT	Q7025	42	12.83
ROUTED TO	R7025	42	12.83
HYDROGRAPH AT	Q7024	83	12.67
ROUTED TO	R7024	82	12.67
HYDROGRAPH AT	Q7019	67	12.67
4 COMBINED AT	HC4	241	12.67
HYDROGRAPH AT	QP1A	43	12.67
ROUTED TO	R1A	42	12.67
HYDROGRAPH AT	Q7028	17	12.50
ROUTED TO	R7028	16	12.67
HYDROGRAPH AT	Q7027	64	12.67
3 COMBINED AT	HC5	123	12.67
ROUTED TO	R5	121	12.67
HYDROGRAPH AT	Q7029	54	13.00
2 COMBINED AT	HC6	165	12.83
ROUTED TO	R6	164	12.83
3 COMBINED AT	HC7	1581	12.67
ROUTED TO	R7	1567	12.67

* Note: Refer to Hydrology Exhibit Sheets 1,2 and 3 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q7018	66	12.50
2 COMBINED AT	HC8	1633	12.67
HYDROGRAPH AT	Q7031	131	12.67
ROUTED TO	R7031	124	12.67
HYDROGRAPH AT	Q7030	70	12.67
ROUTED TO	R7030	69	12.67
3 COMBINED AT	HC9	1826	12.67
ROUTED TO	R9	1810	12.67
HYDROGRAPH AT	Q7017	68	12.67
2 COMBINED AT	HC10	1879	12.67
ROUTED TO	R10	1849	12.67
HYDROGRAPH AT	Q7032	169	12.67
ROUTED TO	R032	164	12.67
HYDROGRAPH AT	Q7016	83	12.67
3 COMBINED AT	HC11	2096	12.67
HYDROGRAPH AT	Q7015	6	12.50
ROUTED TO	R7015	6	12.67
HYDROGRAPH AT	Q7014	186	12.67
2 COMBINED AT	HC12	192	12.67
ROUTED TO	R12	191	12.67
HYDROGRAPH AT	Q7013	6	12.50
ROUTED TO	R7013	6	12.67
HYDROGRAPH AT	Q7012	65	12.67
3 COMBINED AT	HC13	262	12.67
ROUTED TO	R13	258	12.67
HYDROGRAPH AT	Q7011	34	12.50
ROUTED TO	R011	33	12.50
HYDROGRAPH AT	Q7010	33	12.67
2 COMBINED AT	HC14	64	12.50
ROUTED TO	R14	62	12.50
HYDROGRAPH AT	Q7008	33	12.83
ROUTED TO	R7008	33	12.83
HYDROGRAPH AT	Q7009	48	12.67
5 COMBINED AT	HC15	2494	12.67
ROUTED TO	R15	2403	12.67
ROUTED TO	R15	2346	12.83
HYDROGRAPH AT	Q7007A	137	12.67
HYDROGRAPH AT	Q7007B	68	12.67
2 COMBINED AT	HC16	206	12.67
ROUTED TO	R16	202	12.67
HYDROGRAPH AT	Q7003A	96	12.67
2 COMBINED AT	HC17	298	12.67
ROUTED TO	R17	294	12.67
HYDROGRAPH AT	Q7006	113	12.50
ROUTED TO	R6	110	12.50
HYDROGRAPH AT	Q7005	114	12.67
2 COMBINED AT	HC18	215	12.50
ROUTED TO	R18	209	12.67
HYDROGRAPH AT	Q7004	75	12.67
2 COMBINED AT	HC19	284	12.67
ROUTED TO	R19	283	12.67
HYDROGRAPH AT	Q6046	116	12.50

* Note: Refer to Hydrology Exhibit Sheets 1,2 and 3 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
DIVERSION TO	DIV1	12	12.50
HYDROGRAPH AT	D6046	104	12.50
ROUTED TO	R6046	104	12.50
HYDROGRAPH AT	Q6048	12	12.50
HYDROGRAPH AT	Q6047	125	12.67
2 COMBINED AT	HC24	223	12.50
DIVERSION TO	DIV2	22	12.50
HYDROGRAPH AT	DC24	200	12.50
ROUTED TO	RC24	198	12.50
HYDROGRAPH AT	Q7003B	90	12.67
5 COMBINED AT	HC20	3135	12.67
DIVERSION TO	DIV3	313	12.67
HYDROGRAPH AT	DHC20	2821	12.67
ROUTED TO	R20	2729	12.83
HYDROGRAPH AT	Q7002B	112	12.67
2 COMBINED AT	HC21	2840	12.67
DIVERSION TO	DIV4	284	12.67
HYDROGRAPH AT	DHC21	2556	12.67
ROUTED TO	R21	2525	12.83
HYDROGRAPH AT	Q7002A	114	12.67
ROUTED TO	R2A	109	12.67
HYDROGRAPH AT	Q7002C	33	12.83
2 COMBINED AT	HC22	139	12.67
ROUTED TO	R22	137	12.83
HYDROGRAPH AT	Q7001B	58	13.50
3 COMBINED AT	HC23	2703	12.83
HYDROGRAPH AT	RDIV4	284	12.67
ROUTED TO	RRDIV4	282	12.83
DIVERSION TO	DIV5	141	12.83
HYDROGRAPH AT	DDIV4	141	12.83
ROUTED TO	RDIV5	137	12.83
HYDROGRAPH AT	RDIV3	313	12.67
HYDROGRAPH AT	Q7001A	344	12.67
ROUTED TO	R7001A	335	12.83
HYDROGRAPH AT	Q7001C	44	12.50
4 COMBINED AT	HCB	3207	12.83

* Note: Refer to Hydrology Exhibit Sheets 1,2 and 3 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  11      Q7023
             V
             V
  22      R7023
             .
             .
  25         .      Q7022
             .         V
             .         V
  30         .      R7022
             .         .
             .         .
  33         .         .      Q7021
             .         .         .
             .         .         .
  38       HC1.......................
             V
             V
  41      R7021
             .
             .
  44         .      QP2E
             .         V
             .         V
  49         .      RP2E
             .         .
             .         .
  52         .         .      QP2D
             .         .         V
             .         .         V
  57         .         .      RP2D
             .         .         .
             .         .         .
  60         .         .         .      QP2C
             .         .         .         V
             .         .         .         V
  65         .         .         .      RP2C
             .         .         .         .
             .         .         .         .
  68         .         .         .         .      QP2A
             .         .         .         .         .
             .         .         .         .         .
  73         .      HC2.................................
             .         V
             .         V
  76         .      RP2A
             .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                .          .
79              .          .       QP1C
                .          .         V
                .          .         V
84              .          .       RPC1
                .          .         .
                .          .         .
87              .          .         .       QP2B
                .          .         .         V
                .          .         .         V
92              .          .         .       RP2B
                .          .         .         .
                .          .         .         .
95              .          .         .         .       Q7020
                .          .         .         .          .
                .          .         .         .          .
100           HC3.......................................
                V
                V
103         R7020
                .
                .
106             .       QP1B
                .         V
                .         V
111             .       RP1B
                .          .
                .          .
114             .          .      Q7025
                .          .         V
                .          .         V
119             .          .      R7025
                .          .         .
                .          .         .
122             .          .         .      Q7024
                .          .         .         V
                .          .         .         V
128             .          .         .      R7024
                .          .         .         .
                .          .         .         .
131             .          .         .         .      Q7019
                .          .         .         .          .
                .          .         .         .          .
137             .        HC4.................................
                .          .
                .          .
140             .          .       QP1A
                .          .         V
                .          .         V
145             .          .        R1A
                .          .         .
                .          .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
148          .          .          .       Q7028
             .          .          .          V
             .          .          .          V
153          .          .          .       R7028
             .          .          .          .
             .          .          .          .
156          .          .          .          .       Q7027
             .          .          .          .          .
             .          .          .          .          .
161          .          .        HC5.......................
             .          .          V
             .          .          V
164          .          .         R5
             .          .          .
             .          .          .
167          .          .          .       Q7029
             .          .          .          .
             .          .          .          .
172          .          .        HC6............
             .          .          V
             .          .          V
175          .          .         R6
             .          .          .
             .          .          .
178        HC7.......................
             V
             V
181         R7
             .
             .
184          .       Q7018
             .          .
             .          .
189        HC8............
             .
             .
192          .       Q7031
             .          V
             .          V
198          .       R7031
             .          .
             .          .
201          .          .      Q7030
             .          .          V
             .          .          V
207          .          .      R7030
             .          .          .
             .          .          .
210        HC9.......................
             V
             V
213         R9
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                .
                .
216             .      Q7017
                .          .
                .          .
222         HC10............
                V
                V
225          R10
                .
                .
228             .      Q7032
                .          V
                .          V
234             .       R032
                .          .
                .          .
237             .          .      Q7016
                .          .          .
                .          .          .
243         HC11........................
                .
                .
246             .      Q7015
                .          V
                .          V
251             .      R7015
                .          .
                .          .
254             .          .      Q7014
                .          .          .
                .          .          .
260             .       HC12............
                .          V
                .          V
263             .        R12
                .          .
                .          .
266             .          .      Q7013
                .          .          V
                .          .          V
271             .          .      R7013
                .          .          .
                .          .          .
274             .          .          .      Q7012
                .          .          .          .
                .          .          .          .
280             .       HC13........................
                .          V
                .          V
283             .        R13
                .          .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                .         .
286             .         .      Q7011
                .         .         V
                .         .         V
291             .         .       R011
                .         .         .
                .         .         .
294             .         .         .      Q7010
                .         .         .         .
                .         .         .         .
299             .         .       HC14............
                .         .         V
                .         .         V
302             .         .        R14
                .         .         .
                .         .         .
305             .         .         .      Q7008
                .         .         .         V
                .         .         .         V
310             .         .         .      R7008
                .         .         .         .
                .         .         .         .
313             .         .         .         .      Q7009
                .         .         .         .         .
                .         .         .         .         .
319          HC15.............................................
                V
                V
322           R15
                V
                V
325           R15
                .
                .
328             .     Q7007A
                .         .
                .         .
334             .         .     Q7007B
                .         .         .
                .         .         .
340             .       HC16............
                .         V
                .         V
343             .        R16
                .         .
                .         .
346             .         .     Q7003A
                .         .         .
                .         .         .
352             .       HC17............
                .         V
                .         V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
355        .      R17
           .       .
           .       .
358        .       .     Q7006
           .       .       V
           .       .       V
363        .       .      R6
           .       .       .
           .       .       .
366        .       .       .      Q7005
           .       .       .        .
           .       .       .        .
371        .       .     HC18............
           .       .       V
           .       .       V
374        .       .     R18
           .       .       .
           .       .       .
377        .       .       .      Q7004
           .       .       .        .
           .       .       .        .
383        .       .     HC19............
           .       .       V
           .       .       V
386        .       .     R19
           .       .       .
           .       .       .
389        .       .       .      Q6046
           .       .       .        .
           .       .       .        .
396        .       .       .        .-------->   DIV1
394        .       .       .      D6046
           .       .       .        V
           .       .       .        V
399        .       .       .      R6046
           .       .       .        .
           .       .       .        .
402        .       .       .        .      Q6048
           .       .       .        .        V
           .       .       .        .        V
407        .       .       .        .      Q6047 ***
           .       .       .        .        .
           .       .       .        .        .
413        .       .       .     HC24............
           .       .       .        .
           .       .       .        .
418        .       .       .        .-------->   DIV2
416        .       .       .     DC24
           .       .       .        V
           .       .       .        V
421        .       .       .     RC24
           .       .       .        .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                .         .         .         .
424             .         .         .         .     Q7003B
                .         .         .         .          .
                .         .         .         .          .
430          HC20.............................................
                .
                .
435             .------->   DIV3
433         DHC20
                V
                V
438           R20
                .
                .
441             .     Q7002B
                .          .
                .          .
447          HC21............
                .
                .
452             .------->   DIV4
450         DHC21
                V
                V
455           R21
                .
                .
458             .     Q7002A
                .          V
                .          V
464             .        R2A
                .          .
                .          .
467             .          .     Q7002C
                .          .          .
                .          .          .
472             .       HC22............
                .          V
                .          V
475             .        R22
                .          .
                .          .
478             .          .     Q7001B
                .          .          .
                .          .          .
483          HC23........................
                .
                .
488             .          .<-------    DIV4
486             .      RDIV4
                .          V
                .          V
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
489          .     RRDIV4
             .         .
             .         .
494          .         .------->   DIV5
492          .     DDIV4
             .         V
             .         V
497          .     RDIV5
             .         .
             .         .
502          .         .         .<-------   DIV3
500          .         .     RDIV3
             .         .         V
             .         .         V
503          .         .    Q7001A ***
             .         .         V
             .         .         V
509          .         .    R7001A
             .         .         .
             .         .         .
512          .         .         .     Q7001C
             .         .         .          .
             .         .         .          .
517        HCB.................................
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 14

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
100 year, 24 hour Storm
Drainage Area 7

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q7034	154	12.50
ROUTED TO	R7034	148	12.50
HYDROGRAPH AT	Q7033	52	12.83
HYDROGRAPH AT	Q7035	80	12.50
ROUTED TO	R7035	78	12.50
3 COMBINED AT	C1	263	12.50
ROUTED TO	R1	254	12.50
HYDROGRAPH AT	Q7032A	82	12.67
2 COMBINED AT	C2	330	12.50
ROUTED TO	R2A	328	12.67
ROUTED TO	R2B	321	12.67
HYDROGRAPH AT	Q7044	181	12.50
ROUTED TO	R7044	177	12.50
HYDROGRAPH AT	Q7043	21	12.67
2 COMBINED AT	C3	196	12.50
ROUTED TO	R3	192	12.67
HYDROGRAPH AT	Q7042	235	12.67
2 COMBINED AT	C4	427	12.67
ROUTED TO	R4	423	12.67
HYDROGRAPH AT	Q7041	40	13.17
3 COMBINED AT	C5	774	12.67
ROUTED TO	R5	747	12.67
HYDROGRAPH AT	Q7040	40	12.67
2 COMBINED AT	C6	787	12.67
ROUTED TO	R6	770	12.67
HYDROGRAPH AT	Q7039	67	12.67
2 COMBINED AT	C7	837	12.67
ROUTED TO	R7	825	12.67
HYDROGRAPH AT	Q7038	51	12.67
2 COMBINED AT	C8	875	12.67
HYDROGRAPH AT	Q7050	182	12.67
ROUTED TO	R7050	177	12.67
HYDROGRAPH AT	Q7049	49	12.83
2 COMBINED AT	C1	225	12.67
ROUTED TO	R1	220	12.83
HYDROGRAPH AT	Q7051	98	13.00
ROUTED TO	R7051	95	13.00
HYDROGRAPH AT	Q7048	110	14.00
3 COMBINED AT	C2	348	12.83
ROUTED TO	R2	347	13.00
HYDROGRAPH AT	Q7047	169	12.67
2 COMBINED AT	C3	448	12.83
HYDROGRAPH AT	Q7046	203	12.67

* Note: Refer to Hydrology Exhibit Sheets 1,2 and 3 of 7.

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q7045	159	12.67
HYDROGRAPH AT	Q7037	167	12.67
ROUTED TO	R7037	163	13.00
HYDROGRAPH AT	Q7036	185	12.67
2 COMBINED AT	C1	330	12.67
HYDROGRAPH AT	Q7002D	57	12.67

* Note: Refer to Hydrology Exhibit Sheets 1,2 and 3 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
INPUT
LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

 NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

 11       Q7034
              V
              V
 22       R7034
              .
              .
 25           .       Q7033
              .           .
              .           .
 30           .           .       Q7035
              .           .           V
              .           .           V
 35           .           .       R7035
              .           .           .
              .           .           .
 38         C1.......................
              V
              V
 41         R1
              .
              .
 44           .      Q7032A
              .           .
              .           .
 50         C2............
              V
              V
 53         R2A
              V
              V
 56         R2B
              .
              .
 59           .       Q7044
              .           V
              .           V
 64           .       R7044
              .           .
              .           .
 67           .           .       Q7043
              .           .           .
              .           .           .
 73           .          C3............
              .           V
              .           V
 76           .          R3
              .           .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                .          .
79              .          .      Q7042
                .          .          .
                .          .          .
85              .         C4............
                .          V
                .          V
88              .         R4
                .          .
                .          .
91              .          .      Q7041
                .          .          .
                .          .          .
96             C5........................
                V
                V
99             R5
                .
                .
102             .      Q7040
                .          .
                .          .
108            C6............
                V
                V
111            R6
                .
                .
114             .      Q7039
                .          .
                .          .
120            C7............
                V
                V
123            R7
                .
                .
126             .      Q7038
                .          .
                .          .
132            C8............
                .
                .
135             .      Q7050
                .          V
                .          V
142             .      R7050
                .          .
                .          .
145             .          .      Q7049
                .          .          .
                .          .          .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
150          .        C1............
             .         V
             .         V
153          .        R1
             .         .
             .         .
156          .         .      Q7051
             .         .          V
             .         .          V
161          .         .      R7051
             .         .         .
             .         .         .
164          .         .         .      Q7048
             .         .         .         .
             .         .         .         .
169          .        C2......................
             .         V
             .         V
172          .        R2
             .         .
             .         .
175          .         .      Q7047
             .         .         .
             .         .         .
182          .        C3............
             .         .
             .         .
185          .         .      Q7046
             .         .         .
             .         .         .
192          .         .         .      Q7045
             .         .         .         .
             .         .         .         .
199          .         .         .         .      Q7037
             .         .         .         .         V
             .         .         .         .         V
205          .         .         .         .      R7037
             .         .         .         .         .
             .         .         .         .         .
208          .         .         .         .         .      Q7036
             .         .         .         .         .         .
             .         .         .         .         .         .
214          .         .         .         .        C1............
             .         .         .         .         .
             .         .         .         .         .
217          .         .         .         .         .      Q7002D
```

(AAA) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 14

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
100 year, 24 hour Storm
Drainage Area 8

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q800	31	12.50
HYDROGRAPH AT	Q801C	321	12.50
HYDROGRAPH AT	Q801A	422	12.67
HYDROGRAPH AT	Q802B	52	13.00
ROUTED TO	R802B	51	13.17
2 COMBINED AT	C2	461	12.67
HYDROGRAPH AT	Q802A	95	12.67
HYDROGRAPH AT	Q803A	219	12.67
ROUTED TO	R803A	213	12.67
HYDROGRAPH AT	Q803B	106	12.67
ROUTED TO	R803B	101	12.67
HYDROGRAPH AT	Q806	41	12.83
2 COMBINED AT	C3	140	12.67
HYDROGRAPH AT	Q804A	41	12.83
ROUTED TO	R804A	39	13.00
ROUTED TO	R804A	39	13.17
HYDROGRAPH AT	Q804B	38	12.67
HYDROGRAPH AT	Q805	223	12.67
ROUTED TO	R805	209	12.67
2 COMBINED AT	C0	235	12.83
HYDROGRAPH AT	Q807	61	13.17
2 COMBINED AT	C4	289	12.83
HYDROGRAPH AT	Q808	36	12.50
ROUTED TO	R808	34	12.67
HYDROGRAPH AT	Q809	54	12.50
ROUTED TO	R809	54	12.67
2 COMBINED AT	C7	88	12.67
HYDROGRAPH AT	Q810	10	12.67
ROUTED TO	R810	10	12.83
HYDROGRAPH AT	Q811	90	13.00
3 COMBINED AT	C5	175	12.67
ROUTED TO	RC5	174	12.83
2 COMBINED AT	C6	464	12.83
HYDROGRAPH AT	Q812A	317	12.50
HYDROGRAPH AT	Q812B	113	12.50
HYDROGRAPH AT	Q813	33	12.67
HYDROGRAPH AT	Q814	44	12.67

* Note: Refer to Hydrology Exhibit Sheet 1 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
INPUT
LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

 NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

 10        Q800
             .
             .
 21          .      Q801C
             .         V
             .         V
 26          .      Q801A ***
             .         .
             .         .
 32          .         .     Q802B
             .         .        V
             .         .        V
 37          .         .     R802B
             .         .        .
             .         .        .
 40          .        C2............
             .         .
             .         .
 43          .         .     Q802A
             .         .        .
             .         .        .
 48          .         .        .     Q803A
             .         .        .        V
             .         .        .        V
 54          .         .        .     R803A
             .         .        .        .
             .         .        .        .
 57          .         .        .        .     Q803B
             .         .        .        .        V
             .         .        .        .        V
 63          .         .        .        .     R803B
             .         .        .        .        .
             .         .        .        .        .
 66          .         .        .        .        .       Q806
             .         .        .        .        .         .
             .         .        .        .        .         .
 71          .         .        .        .       C3............
             .         .        .        .        .
             .         .        .        .        .
 74          .         .        .        .        .      Q804A
             .         .        .        .        .         V
             .         .        .        .        .         V
 79          .         .        .        .        .      R804A
             .         .        .        .        .         V
             .         .        .        .        .         V
 82          .         .        .        .        .      R804A
             .         .        .        .        .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                                                                  .
85                                                                .   Q804B
                                                                  .     V
                                                                  .     V
90                                                                .   Q805 ***
                                                                  .     V
                                                                  .     V
96                                                                .   R805
                                                                  .     .
                                                                  .     .
99                                                                C0............
                                                                  .
                                                                  .
102                                                               .   Q807
                                                                  .     .
                                                                  .     .
107                                                               C4............
                                                                  .
                                                                  .
110                                                               .   Q808
                                                                  .     V
                                                                  .     V
115                                                               .   R808
                                                                  .     .
                                                                  .     .
118                                                               .     .     Q809
                                                                  .     .       V
                                                                  .     .       V
123                                                               .     .     R809
                                                                  .     .       .
                                                                  .     .       .
126                                                               .   C7..........
                                                                  .     .
                                                                  .     .
129                                                               .     .     Q810
                                                                  .     .       V
                                                                  .     .       V
134                                                               .     .     R810
                                                                  .     .       .
                                                                  .     .       .
137                                                               .     .       .       Q811
                                                                  .     .       .         .
                                                                  .     .       .         .
142                                                               .   C5......................
                                                                  .     V
                                                                  .     V
145                                                               .   RC5
                                                                  .     .
                                                                  .     .
148                                                               C6............
                                                                  .
                                                                  .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
151          .          .          .          .          .          .      Q812A
             .          .          .          .          .          .          .
             .          .          .          .          .          .          .
156          .          .          .          .          .          .          .      Q812B
             .          .          .          .          .          .          .          .
             .          .          .          .          .          .          .          .
161          .          .          .          .          .          .          .          .      Q813
*** HEC1 ERROR 5 *** TOO MANY HYDROGRAPHS. COMBINE MORE OFTEN.
             .          .          .          .          .          .          .          .
             .          .          .          .          .          .          .          .
167          .          .          .          .          .          .          .          .      Q814
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

Table 14

Bell Road Project Drainage Study
Runoff Summary
for
Existing Conditions
100 year, 24 hour Storm
Drainage Area 8

OPERATION	LOCATION	PEAK FLOW (CFS)	TIME OF PEAK (HRS)
HYDROGRAPH AT	Q815A	105	13.00
ROUTED TO	R815A	104	13.00
HYDROGRAPH AT	Q815B	23	13.33
ROUTED TO	R815B	23	13.50
HYDROGRAPH AT	Q815C	189	12.83
2 COMBINED AT	C1	202	12.83
HYDROGRAPH AT	Q817	117	12.67
ROUTED TO	R817	109	12.67
HYDROGRAPH AT	Q820	30	12.67
ROUTED TO	R820	30	13.00
HYDROGRAPH AT	Q816	233	12.50
3 COMBINED AT	C2	356	12.67
HYDROGRAPH AT	Q818	53	12.67
HYDROGRAPH AT	Q819	73	12.67
HYDROGRAPH AT	Q822	26	12.67
HYDROGRAPH AT	Q821	153	12.67
HYDROGRAPH AT	Q823	154	12.67
HYDROGRAPH AT	Q824	38	12.67
HYDROGRAPH AT	Q825	55	12.67
HYDROGRAPH AT	Q826	67	12.50

* Note: Refer to Hydrology Exhibit Sheet 1 of 7.

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
INPUT
 LINE     (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

 NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

 10       Q815A
             V
             V
 21       R815A
             .
             .
 24          .      Q815B
             .         V
             .         V
 29          .      R815B
             .         .
             .         .
 32          .         .      Q815C
             .         .         .
             .         .         .
 37          .         C1............
             .         .
             .         .
 40          .         .      Q817
             .         .         V
             .         .         V
 46          .         .      R817
             .         .         .
             .         .         .
 49          .         .         .      Q820
             .         .         .         V
             .         .         .         V
 54          .         .         .      R820
             .         .         .         .
             .         .         .         .
 57          .         .         .         .      Q816
             .         .         .         .         .
             .         .         .         .         .
 62          .         .         C2.......................
             .         .         .
             .         .         .
 65          .         .         .      Q818
             .         .         .         .
             .         .         .         .
 70          .         .         .         .      Q819
             .         .         .         .         .
             .         .         .         .         .
 76          .         .         .         .         .      Q822
             .         .         .         .         .         .
             .         .         .         .         .         .
 82          .         .         .         .         .         .      Q821
             .         .         .         .         .         .         .
```

Bell Road Project Drainage Study
SCHEMATIC DIAGRAM OF STREAM NETWORK
for
Table 14

```
                .         .         .         .         .         .         .
  88            .         .         .         .         .         .         .      Q823
                .         .         .         .         .         .         .        .
                .         .         .         .         .         .         .        .
  94            .         .         .         .         .         .         .        .      Q824
*** HEC1 ERROR 5 *** TOO MANY HYDROGRAPHS. COMBINE MORE OFTEN.
                .         .         .         .         .         .         .        .
                .         .         .         .         .         .         .        .
 100            .         .         .         .         .         .         .        .      Q825
*** HEC1 ERROR 5 *** TOO MANY HYDROGRAPHS. COMBINE MORE OFTEN.
                .         .         .         .         .         .         .        .
                .         .         .         .         .         .         .        .
 106            .         .         .         .         .         .         .        .      Q826
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION