Metric

# DRAINAGE DETAIL SHEET - STP 0126(4)S

## SUMMARY OF ESTIMATED QUANTITIES

| STATION km + m | STATION km + m | POS. | ASKEW | INLET / OUTLET TYPE | | DITCH | | PIPE | | PIPE ARCH | | | ALLOWABLE OPTIONS | | | | | | PIPE ELBOW | ES | CB | PRCCDT | DEPTH DI | CONC CL B | REINF STEEL | GRATE | CHAN ELEV | CRM | TRENCH EXCAVATION | | COMM EXC | UNC CHAN EXC | STRUCT EXCAV | GRAN BKFILL STRUCT | GRAN BORR | EROS MATT | STONE FILL | | GEO-TEXTILE | MARKER POSTS | | (#) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | INLET | OUTLET | IN | OUT | D mm | L m | SPAN mm | RISE mm | L m | PCCSP mm | CAAP mm | RCP CL | CSP mm | CPEP SL | CPEP ✓ | NO. DEG | EA. | EA. | | mm | $m^3$ | kg | TYPE | EA. | $m^3$ | EARTH $m^3$ | ROCK $m^3$ | $m^3$ | $m^3$ | $m^3$ | $m^3$ | $m^3$ | $m^3$ | $m^3$ | TYPE | MAT. $m^2$ | LT ea. | RT ea. | | |
| 11+907 | 11+927 | LT | – | RCP | – | YES | YES | 375 | 20.0 | – | – | – | – | – | III | – | – | – | – | – | – | – | – | – | – | – | – | 16.5 | – | – | – | – | – | – | – | – | II | – | – | – | 22 | – |
| 12+110 | 12+112 | LT/RT | – | HDW | HDW | – | – | 750 | 13.2 | – | – | – | – | – | III | – | – | – | – | – | – | – | 6.2 | 14.8 | – | – | – | 15.6 | – | – | – | – | – | – | – | 28.8 | II | 48.0 | – | – | 23 | – |
| 12+200 | 12+200 | LT/RT | – | CB | CB | – | – | 600 | 10.9 | – | – | – | – | – | III | – | – | – | – | – | 1 | – | – | – | B | – | – | 30.9 | – | – | – | – | – | – | – | – | – | – | – | – | 24 | – |
| 12+200 | 1+040 | RT/LT | – | CB | CB | – | – | 600 | 34.3 | – | – | – | – | – | III | – | – | – | – | – | 1 | – | – | – | E | – | – | 126.9 | – | – | – | – | – | – | – | – | – | – | – | – | 24A | – |
| 1+040 | 1+040 | LT | – | CB | HDW | – | – | 750 | 3.6 | – | – | – | – | – | III | – | – | – | – | – | 1 | – | 2.6 | 7.4 | E | – | – | 47.2 | – | – | – | – | – | – | – | 12.0 | II | 20.0 | – | – | 24B | |
| 12+280 | 12+280 | LT/RT | – | CB | CB | – | – | 600 | 9.2 | – | – | – | – | – | III | – | – | – | – | – | 1 | – | – | – | B | – | – | 24.9 | – | – | – | – | – | – | – | – | – | – | – | – | 25A | – |
| 12+280 | 1+040 | RT/LT | – | CB | CB | – | – | 600 | 46.8 | – | – | – | – | – | III | – | – | – | – | – | 1 | – | – | – | E | – | – | 150.8 | – | – | – | – | – | – | – | – | – | – | – | – | 25B | – |
| 12+449 | 12+463 | LT/RT | – | ES | HDW | YES | YES | 900 | 21.5 | – | – | – | – | – | III | – | – | – | – | 1 | – | – | 3.6 | 7.4 | – | – | – | 34.6 | – | – | – | – | – | – | – | 55.2 | II | 92.0 | – | – | 27 | – |
| 12+580 | 12+600 | LT | – | ES | CB | YES | – | 750 | – | – | – | – | – | – | – | – | 19.4 | – | – | 1 | – | – | – | – | – | – | – | 22.0 | – | – | – | – | – | – | – | – | – | – | – | – | 28 | – |
| 12+600 | 12+600 | LT/RT | – | CB | HDW | NO | YES | 750 | – | – | – | – | – | – | – | – | 16.2 | – | – | – | 1 | – | – | 2.6 | 7.4 | B | – | – | 35.4 | – | – | – | – | – | – | – | 38.4 | II | 64.0 | – | – | 28A | – |
| 12+781 | 12+781 | RT | – | CB | CB | YES | YES | 600 | – | – | – | – | – | – | – | – | 79.8 | – | – | – | 1 | – | – | – | – | B | – | – | 296.9 | – | – | – | – | – | – | – | – | – | – | – | – | 29B | – |
| 12+781 | 12+781 | LT/RT | – | CB | HDW | – | YES | 600 | 13.7 | – | – | – | – | – | – | – | 2.5 | – | – | – | 1 | – | – | 2.0 | 5.6 | B | – | – | 35.8 | – | – | – | – | – | – | – | 7.2 | I | 24.0 | – | – | 29D | – |
| 12+636 | 12+644 | LT | – | RCP | – | YES | YES | 450 | 8 | – | – | – | – | – | III | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 30 | – |

DATUM

VERTICAL NGVD 1929

HORIZONTAL NAD 1927

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THE LOUIS BERGER GROUP, INC.

PROJECT: **GRAFTON--ROCKINGHAM, ROUTE 121**

PROJECT NO. : **STP 0126(4)S**

DESIGN FILE NAME:

IPARM FILE NAME:

SURVEYED BY:

SQUAD LEADER:

PLOT DATE: 12/08/03

SURVEY DATE:

DRAWN BY:

SHEET: 7 OF 116