

NOTES

1. ALL MATERIAL AND DIMENSIONS MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST STANDARD SPECIFICATIONS FOR ROADWORK (LATEST EDITIONS ARE IN ALL CAPS).
 2. ALL DIMENSIONS ARE IN MILLIMETERS.
 3. DO NOT SCALE FROM THESE DRAWINGS.
 4. ALL DIMENSIONS MUST BE CHECKED AND APPROVED BY THE ENGINEER.
 5. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROADWORK (LATEST EDITIONS ARE IN ALL CAPS).
 6. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE PROJECT'S DRAWINGS/APPENDICES.
- ROADS:**
1. REFER TO BE AS PER STANDARD DRAWING T-10 AND B-10 SECTION 10 OF VOLUME 1 OF THE STANDARD SPECIFICATIONS FOR ROADWORK (LATEST EDITIONS ARE IN ALL CAPS).
 2. REFER TO THE SOUTH AFRICAN ROAD REGULATIONS OF THE SOUTH AFRICAN ROAD TRAFFIC ACT (ACT 93 OF 1988).
 3. VERTICAL AND HORIZONTAL ALIGNMENT TO REMAIN UNLESS OTHERWISE SPECIFIED.
 4. ALL DIMENSIONS MUST BE CHECKED AND APPROVED BY THE ENGINEER.



AMENDMENTS

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|---------------------|-----|
| 1 | 20.05.08 | ISSUED FOR APPROVAL | WJV |
| 2 | 26.03.06 | ISSUED FOR APPROVAL | WJV |
| 3 | 06.03.06 | ISSUED FOR APPROVAL | WJV |
| 4 | 20.05.08 | ISSUED FOR APPROVAL | WJV |
| 5 | 20.05.08 | ISSUED FOR APPROVAL | WJV |
| 6 | 20.05.08 | ISSUED FOR APPROVAL | WJV |
| 7 | 20.05.08 | ISSUED FOR APPROVAL | WJV |
| 8 | 20.05.08 | ISSUED FOR APPROVAL | WJV |
| 9 | 20.05.08 | ISSUED FOR APPROVAL | WJV |
| 10 | 20.05.08 | ISSUED FOR APPROVAL | WJV |
| 11 | 20.05.08 | ISSUED FOR APPROVAL | WJV |
| 12 | 20.05.08 | ISSUED FOR APPROVAL | WJV |
| 13 | 20.05.08 | ISSUED FOR APPROVAL | WJV |
| 14 | 20.05.08 | ISSUED FOR APPROVAL | WJV |
| 15 | 20.05.08 | ISSUED FOR APPROVAL | WJV |
| 16 | 20.05.08 | ISSUED FOR APPROVAL | WJV |
| 17 | 20.05.08 | ISSUED FOR APPROVAL | WJV |
| 18 | 20.05.08 | ISSUED FOR APPROVAL | WJV |
| 19 | 20.05.08 | ISSUED FOR APPROVAL | WJV |
| 20 | 20.05.08 | ISSUED FOR APPROVAL | WJV |

LEGEND:

- NEW HEADWALL
- NEW STORMWATER RETICULATION
- FUTURE STORMWATER RETICULATION

REFERENCES:

- TO BE READ IN CONJUNCTION WITH DWG. 8785/310 (GENERAL ARRANGEMENT OF INTERNAL ROADS)
- TO BE READ IN CONJUNCTION WITH DWG. 8785/315 (GENERAL ARRANGEMENT OF STORMWATER CONDUITS)
- 8785/320 (GENERAL ARRANGEMENT OF EXTERNAL ROADS)

CONSULTANTS DETAIL

SIVEST
ENGINEERING DIVISION

51 Westport Road
Bronkhorstspruit, Office
P.O. Box 29271, Bronkhorstspruit 2128
Phone: (+27 11) 803 6844
Fax: (+27 11) 803 7272
e-mail: info@sivest.co.za
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RECORD DRAWING (AS BUILT)

DATE: 2017-05-22
DRAWN BY: M. LE NANTRE
CHECKED BY: R. D. HIRST
SCALE: 1:150

GENERAL ARRANGEMENT OF STORMWATER RETICULATION

P.O. BOX 40
BRONKHORSTSPRUIT 1020
TEL: (013) 932 6333
FAX: (013) 935 1311

KUNGWINI LOCAL MUNICIPALITY

INFRASTRUCTURE PROVISION

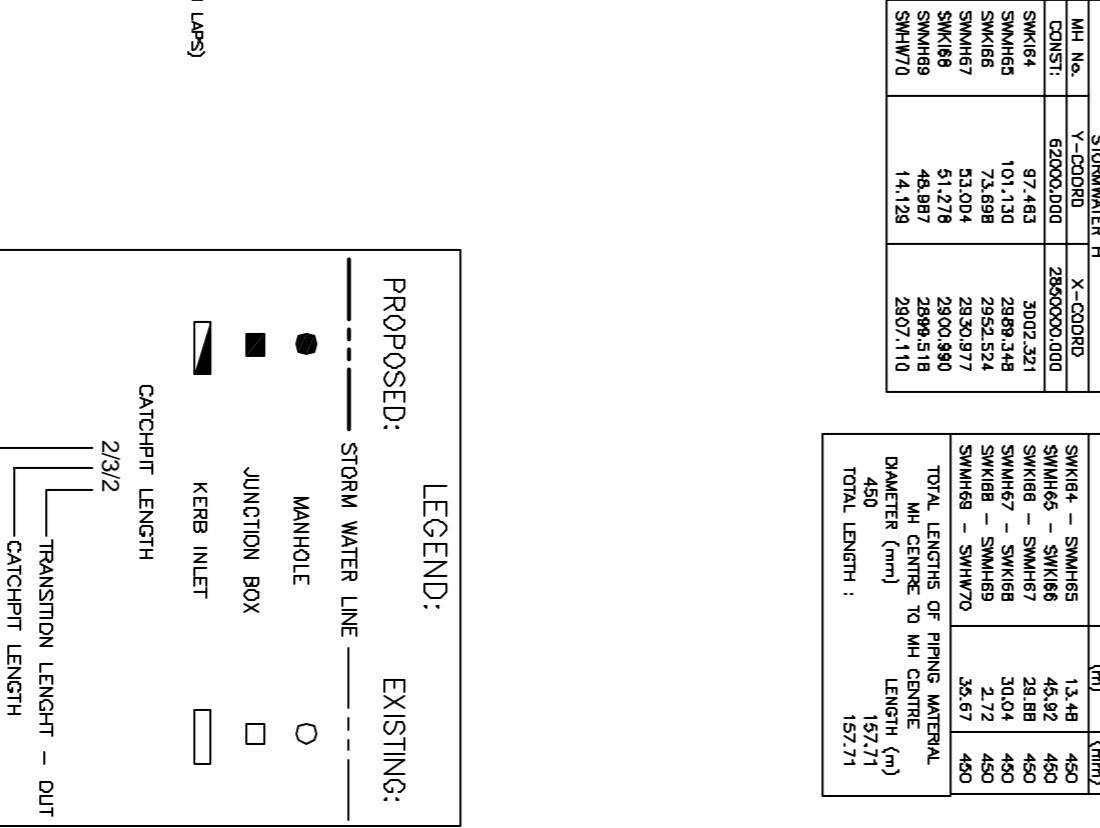
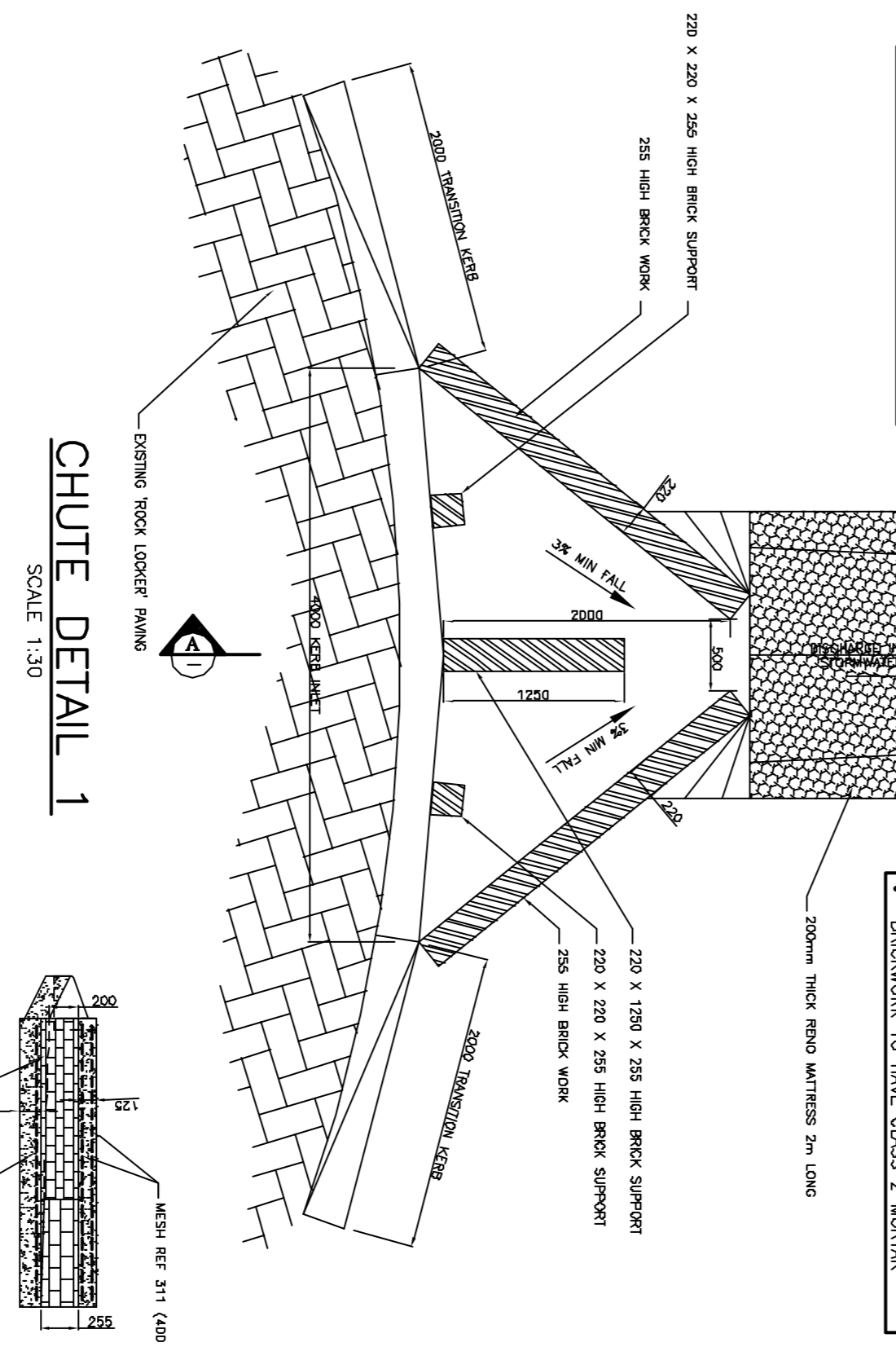
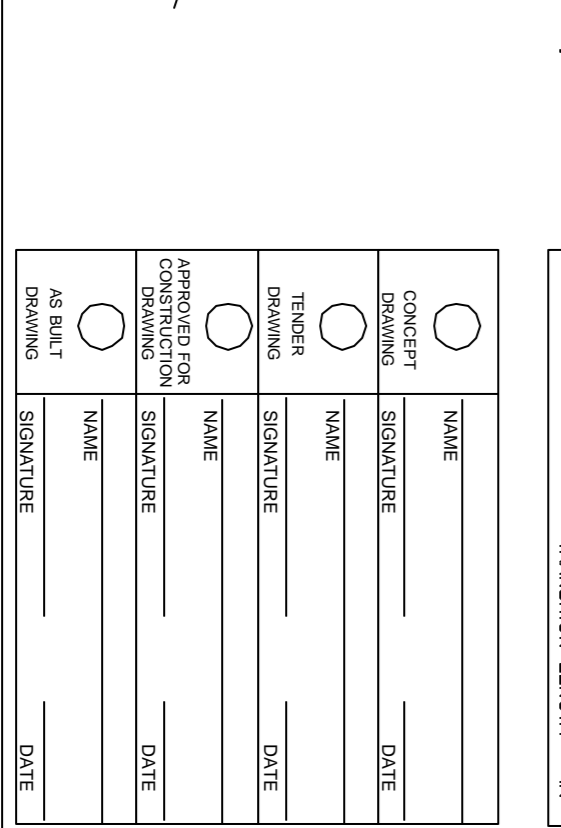
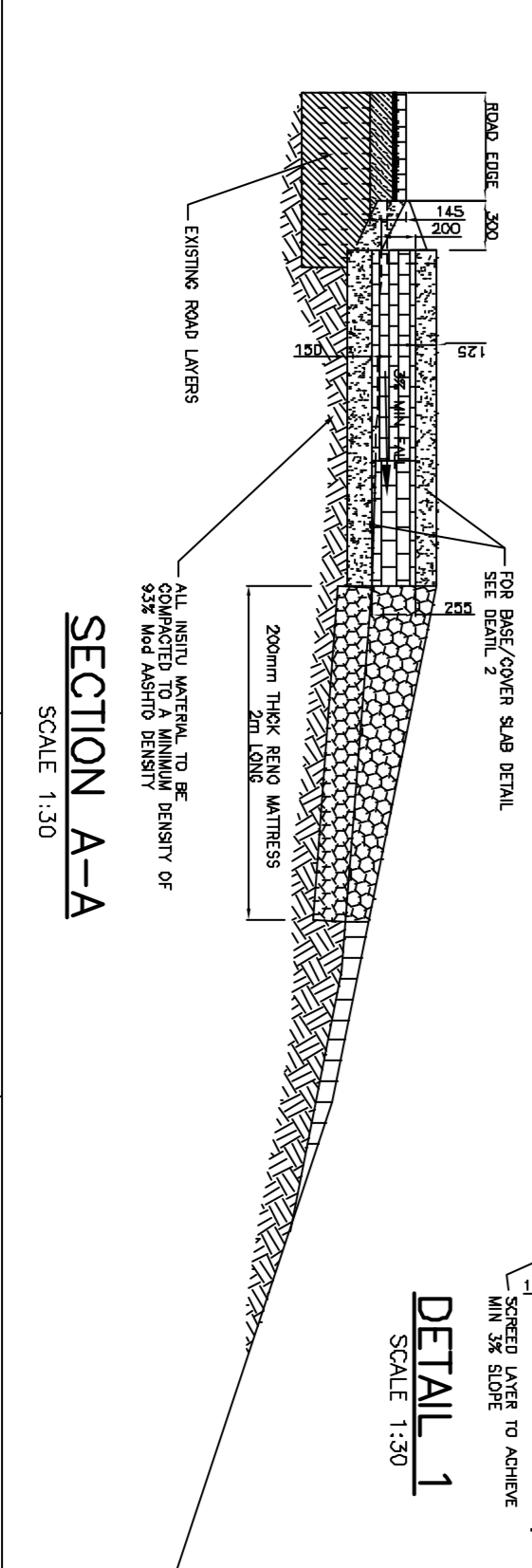
DRAWN BY: M. LE NANTRE
CHECKED BY: R. D. HIRST
SCALE: 1:150

ROADS AND STORMWATER DIVISION

TUGER VALLEY EXTENSION 10

GENERAL ARRANGEMENT OF STORMWATER RETICULATION

DRAWING NO. 4
SCALE: 1:150
DATE: 1:150



COORDINATE LIST

| LINE NO. | Y-COORDINATE | X-COORDINATE |
|----------|--------------|--------------|
| 1 | 6100000.00 | 2850000.00 |
| 2 | 6100000.00 | 2850000.00 |
| 3 | 6100000.00 | 2850000.00 |
| 4 | 6100000.00 | 2850000.00 |
| 5 | 6100000.00 | 2850000.00 |
| 6 | 6100000.00 | 2850000.00 |
| 7 | 6100000.00 | 2850000.00 |
| 8 | 6100000.00 | 2850000.00 |
| 9 | 6100000.00 | 2850000.00 |
| 10 | 6100000.00 | 2850000.00 |
| 11 | 6100000.00 | 2850000.00 |
| 12 | 6100000.00 | 2850000.00 |
| 13 | 6100000.00 | 2850000.00 |
| 14 | 6100000.00 | 2850000.00 |
| 15 | 6100000.00 | 2850000.00 |
| 16 | 6100000.00 | 2850000.00 |
| 17 | 6100000.00 | 2850000.00 |
| 18 | 6100000.00 | 2850000.00 |
| 19 | 6100000.00 | 2850000.00 |
| 20 | 6100000.00 | 2850000.00 |
| 21 | 6100000.00 | 2850000.00 |
| 22 | 6100000.00 | 2850000.00 |
| 23 | 6100000.00 | 2850000.00 |
| 24 | 6100000.00 | 2850000.00 |
| 25 | 6100000.00 | 2850000.00 |
| 26 | 6100000.00 | 2850000.00 |
| 27 | 6100000.00 | 2850000.00 |
| 28 | 6100000.00 | 2850000.00 |
| 29 | 6100000.00 | 2850000.00 |
| 30 | 6100000.00 | 2850000.00 |
| 31 | 6100000.00 | 2850000.00 |
| 32 | 6100000.00 | 2850000.00 |
| 33 | 6100000.00 | 2850000.00 |
| 34 | 6100000.00 | 2850000.00 |
| 35 | 6100000.00 | 2850000.00 |
| 36 | 6100000.00 | 2850000.00 |
| 37 | 6100000.00 | 2850000.00 |
| 38 | 6100000.00 | 2850000.00 |
| 39 | 6100000.00 | 2850000.00 |
| 40 | 6100000.00 | 2850000.00 |
| 41 | 6100000.00 | 2850000.00 |
| 42 | 6100000.00 | 2850000.00 |
| 43 | 6100000.00 | 2850000.00 |
| 44 | 6100000.00 | 2850000.00 |
| 45 | 6100000.00 | 2850000.00 |
| 46 | 6100000.00 | 2850000.00 |
| 47 | 6100000.00 | 2850000.00 |
| 48 | 6100000.00 | 2850000.00 |
| 49 | 6100000.00 | 2850000.00 |
| 50 | 6100000.00 | 2850000.00 |
| 51 | 6100000.00 | 2850000.00 |
| 52 | 6100000.00 | 2850000.00 |
| 53 | 6100000.00 | 2850000.00 |
| 54 | 6100000.00 | 2850000.00 |
| 55 | 6100000.00 | 2850000.00 |
| 56 | 6100000.00 | 2850000.00 |
| 57 | 6100000.00 | 2850000.00 |
| 58 | 6100000.00 | 2850000.00 |
| 59 | 6100000.00 | 2850000.00 |
| 60 | 6100000.00 | 2850000.00 |
| 61 | 6100000.00 | 2850000.00 |
| 62 | 6100000.00 | 2850000.00 |
| 63 | 6100000.00 | 2850000.00 |
| 64 | 6100000.00 | 2850000.00 |
| 65 | 6100000.00 | 2850000.00 |
| 66 | 6100000.00 | 2850000.00 |
| 67 | 6100000.00 | 2850000.00 |
| 68 | 6100000.00 | 2850000.00 |
| 69 | 6100000.00 | 2850000.00 |
| 70 | 6100000.00 | 2850000.00 |
| 71 | 6100000.00 | 2850000.00 |
| 72 | 6100000.00 | 2850000.00 |
| 73 | 6100000.00 | 2850000.00 |
| 74 | 6100000.00 | 2850000.00 |
| 75 | 6100000.00 | 2850000.00 |
| 76 | 6100000.00 | 2850000.00 |
| 77 | 6100000.00 | 2850000.00 |
| 78 | 6100000.00 | 2850000.00 |
| 79 | 6100000.00 | 2850000.00 |
| 80 | 6100000.00 | 2850000.00 |
| 81 | 6100000.00 | 2850000.00 |
| 82 | 6100000.00 | 2850000.00 |
| 83 | 6100000.00 | 2850000.00 |
| 84 | 6100000.00 | 2850000.00 |
| 85 | 6100000.00 | 2850000.00 |
| 86 | 6100000.00 | 2850000.00 |
| 87 | 6100000.00 | 2850000.00 |
| 88 | 6100000.00 | 2850000.00 |
| 89 | 6100000.00 | 2850000.00 |
| 90 | 6100000.00 | 2850000.00 |
| 91 | 6100000.00 | 2850000.00 |
| 92 | 6100000.00 | 2850000.00 |
| 93 | 6100000.00 | 2850000.00 |
| 94 | 6100000.00 | 2850000.00 |
| 95 | 6100000.00 | 2850000.00 |
| 96 | 6100000.00 | 2850000.00 |
| 97 | 6100000.00 | 2850000.00 |
| 98 | 6100000.00 | 2850000.00 |
| 99 | 6100000.00 | 2850000.00 |
| 100 | 6100000.00 | 2850000.00 |

PIPE DATA LIST

| LINE NO. | START (M) | END (M) | DIAMETER (mm) | LENGTH (m) |
|----------|-----------|---------|---------------|------------|
| 1 | 0.00 | 10.00 | 400 | 10.00 |
| 2 | 10.00 | 20.00 | 400 | 10.00 |
| 3 | 20.00 | 30.00 | 400 | 10.00 |
| 4 | 30.00 | 40.00 | 400 | 10.00 |
| 5 | 40.00 | 50.00 | 400 | 10.00 |
| 6 | 50.00 | 60.00 | 400 | 10.00 |
| 7 | 60.00 | 70.00 | 400 | 10.00 |
| 8 | 70.00 | 80.00 | 400 | 10.00 |
| 9 | 80.00 | 90.00 | 400 | 10.00 |
| 10 | 90.00 | 100.00 | 400 | 10.00 |
| 11 | 100.00 | 110.00 | 400 | 10.00 |
| 12 | 110.00 | 120.00 | 400 | 10.00 |
| 13 | 120.00 | 130.00 | 400 | 10.00 |
| 14 | 130.00 | 140.00 | 400 | 10.00 |
| 15 | 140.00 | 150.00 | 400 | 10.00 |
| 16 | 150.00 | 160.00 | 400 | 10.00 |
| 17 | 160.00 | 170.00 | 400 | 10.00 |
| 18 | 170.00 | 180.00 | 400 | 10.00 |
| 19 | 180.00 | 190.00 | 400 | 10.00 |
| 20 | 190.00 | 200.00 | 400 | 10.00 |
| 21 | 200.00 | 210.00 | 400 | 10.00 |
| 22 | 210.00 | 220.00 | 400 | 10.00 |
| 23 | 220.00 | 230.00 | 400 | 10.00 |
| 24 | 230.00 | 240.00 | 400 | 10.00 |
| 25 | 240.00 | 250.00 | 400 | 10.00 |
| 26 | 250.00 | 260.00 | 400 | 10.00 |
| 27 | 260.00 | 270.00 | 400 | 10.00 |
| 28 | 270.00 | 280.00 | 400 | 10.00 |
| 29 | 280.00 | 290.00 | 400 | 10.00 |
| 30 | 290.00 | 300.00 | 400 | 10.00 |
| 31 | 300.00 | 310.00 | 400 | 10.00 |
| 32 | 310.00 | 320.00 | 400 | 10.00 |
| 33 | 320.00 | 330.00 | 400 | 10.00 |
| 34 | 330.00 | 340.00 | 400 | 10.00 |
| 35 | 340.00 | 350.00 | 400 | 10.00 |
| 36 | 350.00 | 360.00 | 400 | 10.00 |
| 37 | 360.00 | 370.00 | 400 | 10.00 |
| 38 | 370.00 | 380.00 | 400 | 10.00 |
| 39 | 380.00 | 390.00 | 400 | 10.00 |
| 40 | 390.00 | 400.00 | 400 | 10.00 |

LEGEND:

- PROPOSED: STORM WATER LINE
- EXISTING: MANHOLE
- JUNCTION BOX
- KEBAB INLET
- CATCHPIT LENGTH
- TRANSITION LENGTH - OUT
- TRANSITION LENGTH - IN