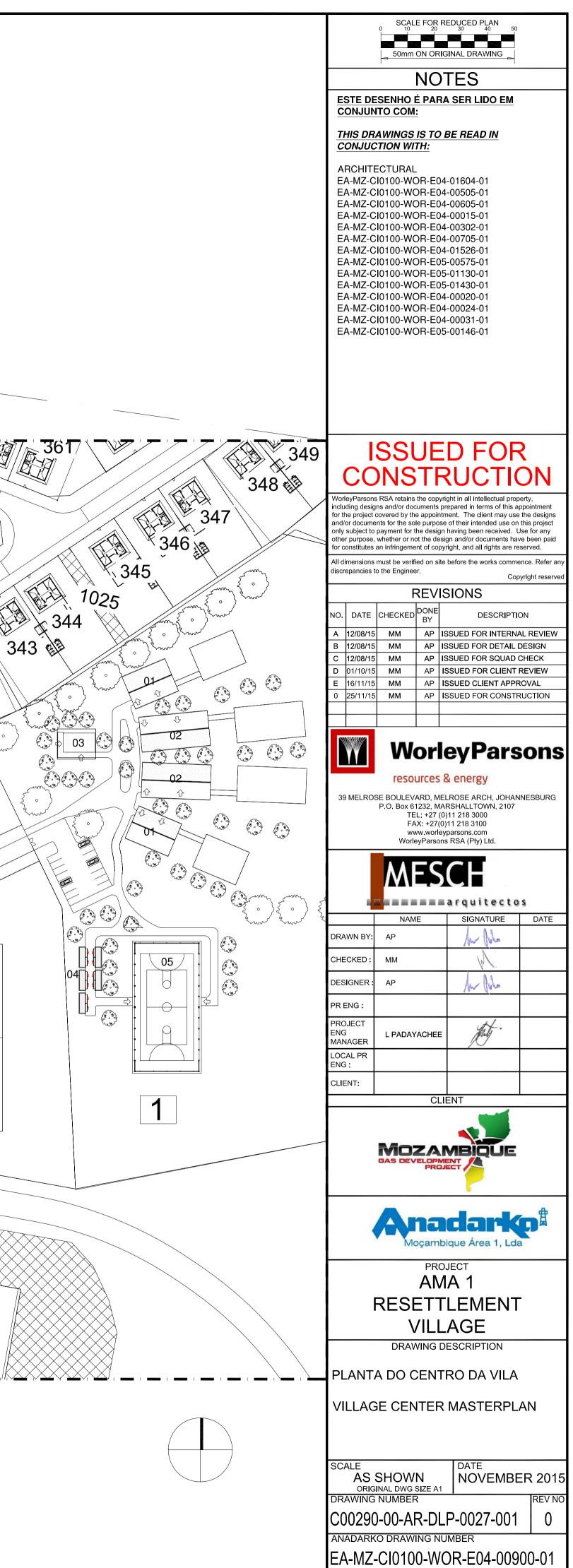


337· 298 ∲ 297 1022 F ·· / 339 339 340 296 1 / 282 282 - 283 , 1023 341 H-M E-[≯] 295 ∰ → 294 ∧ / 284 / 285 / ₹ 286 287 E Real of the second seco 1024 T 293 E |_*₹*] 7 260 261 ALL. H / 259 / 258 , R-F 292 4-292 1015 H-13 288 1016 E-289 EE ∖ **291** ์ [×] 290 Ê 249 257 250 256 255 E 251 254 252 Minn "**25**3 8 0 1013 246 9 E13 210 ± 209 四 208 一 207 日 207 हीय 206 - 205 ছায় 204 203 / 間 202章 201 回 団 186 - 187 188 HA (7) Mercado (8) Paragem de Transportes Publicos 6 Posto Policial (9) Campo Desportivo **Public Sports Field Police Station** Market Bus Stop

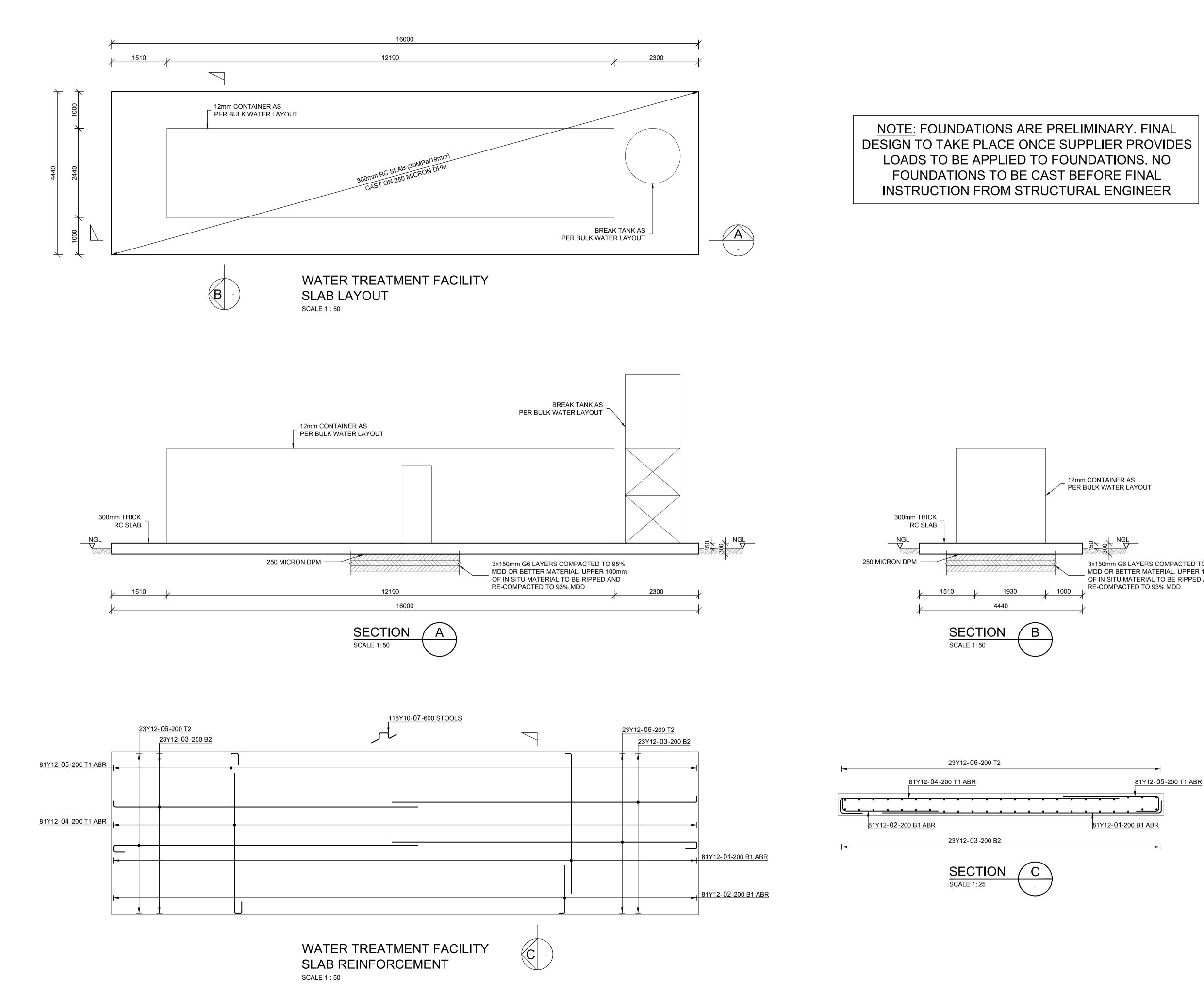


| | | Mozambique Gas Development | |
|--|---------------------------|----------------------------|--|
| | Resettlement Plan | | |
| | Annex I: Construction dra | awings | |
| | Rev. 1 | Rev Date: 27-May-16 | |

23. WATER





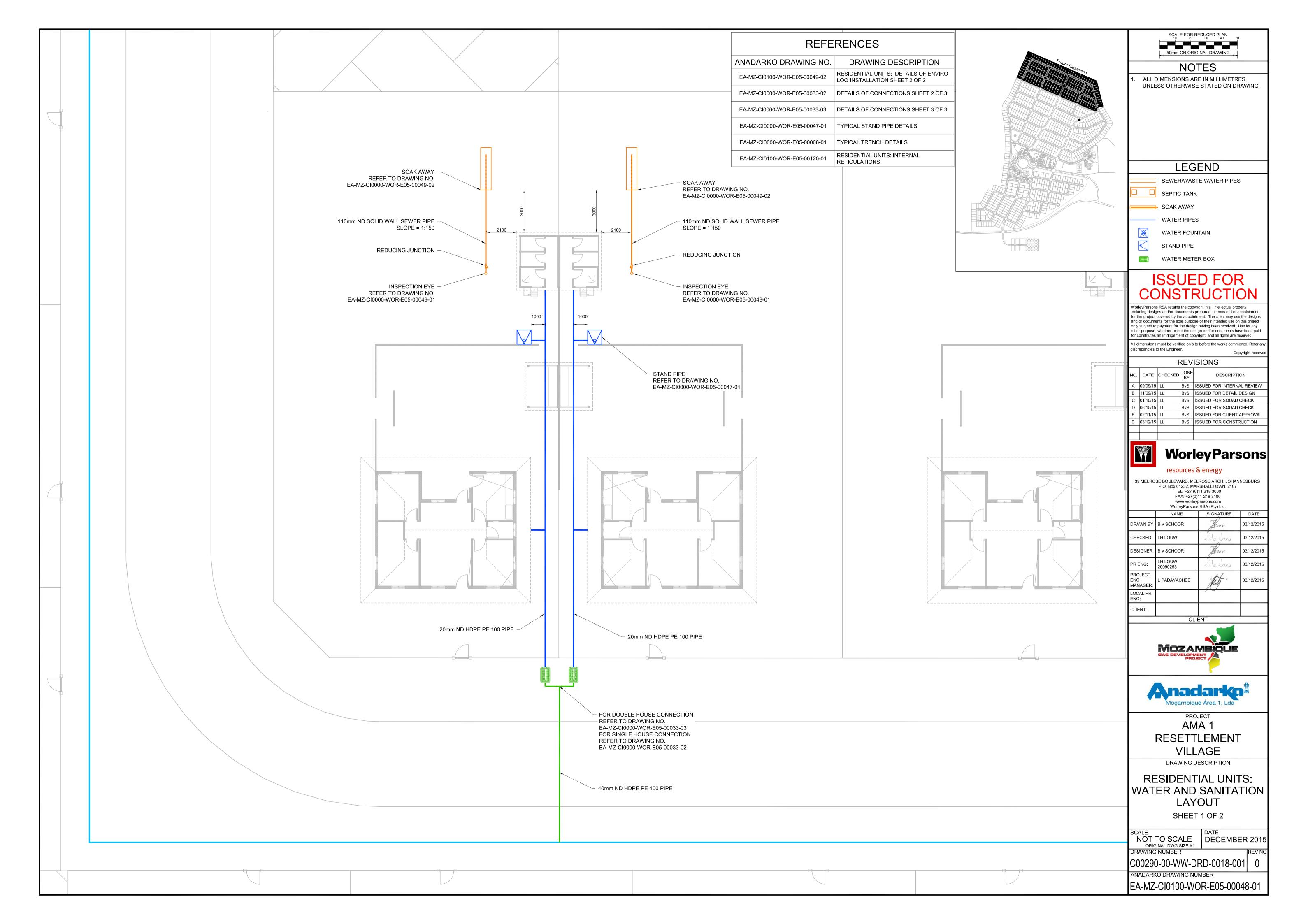


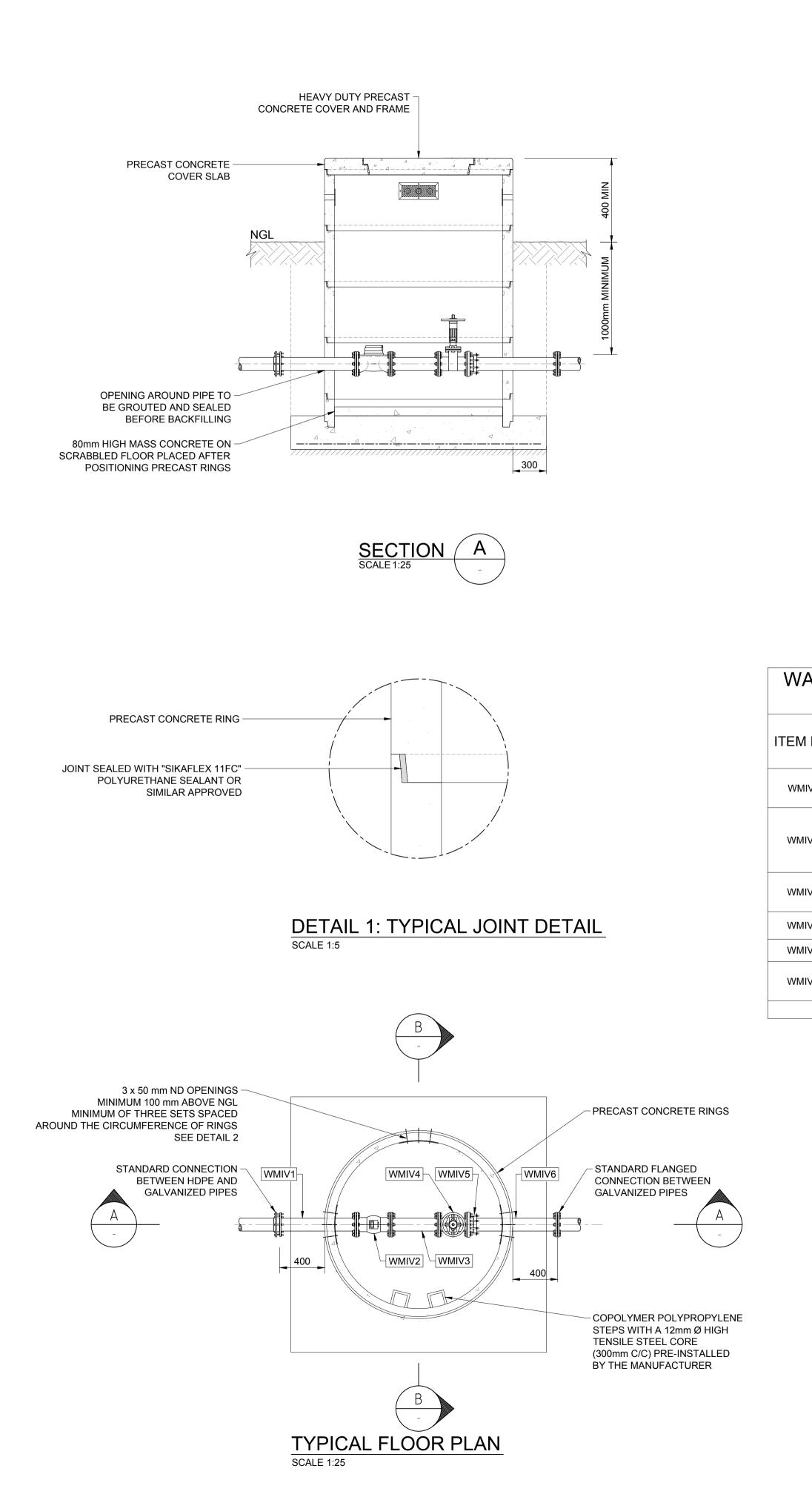
3x150mm G6 LAYERS COMPACTED TO 95% MDD OR BETTER MATERIAL. UPPER 100mm OF IN SITU MATERIAL TO BE RIPPED AND

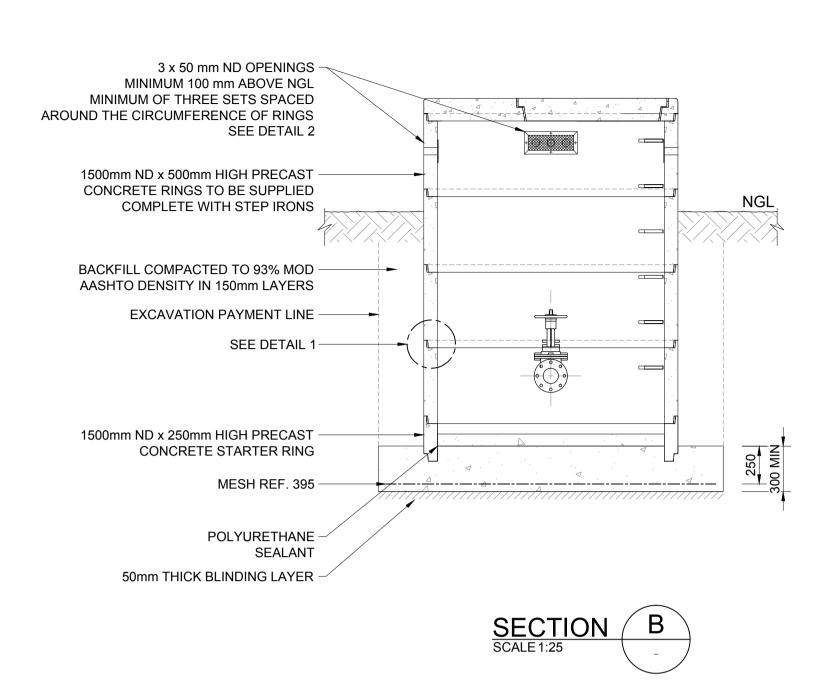
SCALE FOR REDUCED PLAN NOTES REFER TO STRUCTURAL GENERAL NOTES EA-MZ-CI0000-WOR-B18-00001-01 REFER TO BULK WATER DRAWING EA-MZ-CI0000-WOR-E04-00071-01 **REFER TO BENDING SCHEDULE 38** ON DRAWING EA-MZ-CI0100-WOR-E05-00066-01 **ISSUED FOR** CONSTRUCTION WorleyParsons RSA retains the copyright in all intellectual property, including designs and/or documents prepared in terms of this appointment for the project covered by the appointment. The client may use the designs and/or documents for the sole purpose of their intended use on this project only subject to payment for the design having been received. Use for any other purpose, whether or not the design and/or documents have been pai or constitutes an infringement of copyright, and all rights are reserved. All dimensions must be verified on site before the works commence. Refer a discrepancies to the Engineer. Copyright reserv REVISIONS DESCRIPTION . DATE CHECKED TS NR ISSUED FOR INTERNAL REVIEW A 12/10/1 TS NR ISSUED FOR DETAIL DESIGN B 15/10/15 TS NR ISSUED FOR SQUAD CHECK 15/10/15 TS NR ISSUED FOR CLIENT REVIEW 15/10/15 TS NR ISSUED FOR CLIENT APPROVAL TS NR ISSUED FOR CONSTRUCTION **WorleyParsons** resources & energy 39 MELROSE BOULEVARD, MELROSE ARCH, JOHANNESBURG P.O. Box 61232, MARSHALLTOWN, 2107 TEL: +27 (0)11 218 3000 FAX: +27(0)11 218 3100 www.worleyparsons.com WorleyParsons RSA (Pty) Ltd. SIGNATURE DATE NAME Rebinson DRAWN BY: N ROBINSON 03/12/15 Bryde CHECKED T SNYDERS 03/12/15 Bryde 03/12/15 DESIGNER T SNYDERS PR ENG : I ROBINSON 03/12/15 PROJECT Auto 03/12/15 ENG MANAGER PADAYACHEE LOCAL PR ENG : CLIENT: CLIENT MOZAMBIQUE Anadarko Noçambique Área 1, Lda PROJECT AMA 1 RESETTLEMENT VILLAGE DRAWING DESCRIPTION WATER TREATMENT FACILITY: **REINFORCEMENT AND** FOUNDATION DETAILS SCALE AS SHOWN ORIGINAL DWG SIZE A1 DEC 2015

C00290-00-ST-DRD-0029-001 ANADARKO DRAWING NUMBER EA-MZ-CI0000-WOR-E05-00059-01

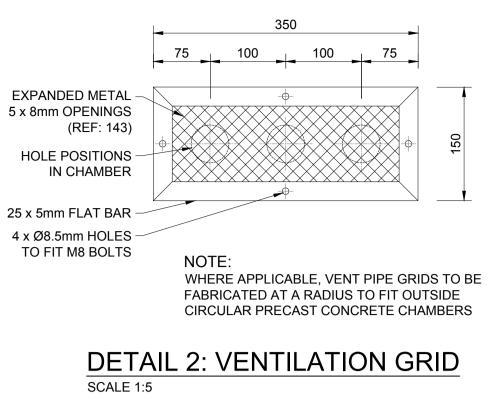
DRAWING NUMBER







| ATER METER AND ISOLATING VALVE INSTALLATION FOR 110mm ND PIPES PER CHAMBER | | | | | |
|---|---|-----|------------|-----------------------------|--|
| M No. | DESCRIPTION | QTY | FLANGES | PRESSURE RATING (BAR) | |
| MIV1 | 100mm ND x \pm 685mm LONG HDGMS PIPE WITH BOTH ENDS FLANGED. | 1 | TABLE 1600 | - | |
| MIV2 | 100mm ND FLANGED ELECTROMAGNETIC WATER METER WITH READING UNIT AND SCREEN MOUNTED ON METER. THE METER MUST BE CAPABLE OF MEASURING FLOWS OF BETWEEN 10 m ³ /h and 45 m ³ /h. | 1 | TABLE 1600 | 16 | |
| MIV3 | 100mm ND x ±430mm LONG HDGMS PIPE WITH BOTH ENDS FLANGED. | 1 | TABLE 1600 | - | |
| MIV4 | 100mm ND FLANGED RESILIENT SEATED GATE VALVE. | 1 | TABLE 1600 | 16 | |
| MIV5 | 100mm ND DISMANTLING JOINT. | 1 | TABLE 1600 | 16 | |
| MIV6 | 100mm ND x \pm 730mm LONG HDGMS PIPE WITH ONE END FLANGED. LENGTH TO SUIT DISMANTLING JOINT. | 1 | TABLE 1600 | - | |
| PLEASE NOTE THAT 'HDGMS' STANDS FOR HOT DIPPED GALVANIZED MILD STEEL | | | | | |



| | | 11012 | • | | |
|----------|---|--------------------------|-----------------------|--|--|
| | ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN. | | | | |
| 2 | PIPE MATERIA | L: MAIN LINES AS PER L | ONGITUDINAL SECTIONS. | | |
| . | UNLESS OTHERWISE STATED, THE FOLLOWING SHALL APPLY TO ALL STEEL PIPES AND SPECIALS: | | | | |
| | PIPE ND (mm) | PIPE WALL THICKNESS (mm) | SPECIFICATION | | |
| | 50 | 3.910 | ASTM A106 GRADE B | | |
| | 80 | 5.490 | ASTM A106 GRADE B | | |
| | 100 | 6.020 | ASTM A106 GRADE B | | |
| | 150 | 7.110 | ASTM A106 GRADE B | | |
| | 200 | 5.000 | API 5L GRADE X42 | | |
| | 250 | 5.000 | API 5L GRADE X42 | | |
| | 350 | 6.000 | API 5L GRADE X42 | | |
| | 400 | 6.000 | API 5L GRADE X42 | | |

- 4. CORROSION PROTECTION: WALLS AND OUTSIDE CHAMBERS (SOIL), TO BE TAPE WRAPPED. 5. CONCRETE:
- STRENGTH REQUIREMENT AT 28 DAYS: STRUCTURAL CONCRETE GRADE 30/19 MPa BLINDING AND MASS CONCRETE FILLING GRADE 15/19 MPa FINISHES:
- EXCEPT INSIDE CHAMBERS. REFER TO THE SPECIFICATIONS. SMOOTH: ALL SURFACE FINISHES NOT CLASSIFIED AS "ROUGH" ABOVE SHALL BE CLASSIFIED AS "SMOOTH". REFER TO THE SPECIFICATIONS.
- ALL EXPOSED EDGES TO HAVE 20 x 20mm CHAMFERS. 6. ALL STEEL BOLTS AND NUTS AND ANCHOR BOLTS INTO CONCRETE SHALL BE STAINLESS STEEL GRADE 304.



| ANADARKO DRAWING NO. | DRAWING DESCRIPTION |
|-------------------------------|--|
| EA-MZ-CI0000-WOR-E04-00072-01 | STORAGE AND TREATMENT FACILITIES |
| EA-MZ-CI0000-WOR-E05-00044-01 | DETAILS OF GROUND LEVEL STORAGE FACILITY AND PIPEWORK |
| EA-MZ-CI0000-WOR-E05-00045-01 | DETAILS OF ELEVATED STORAGE FACILITY |

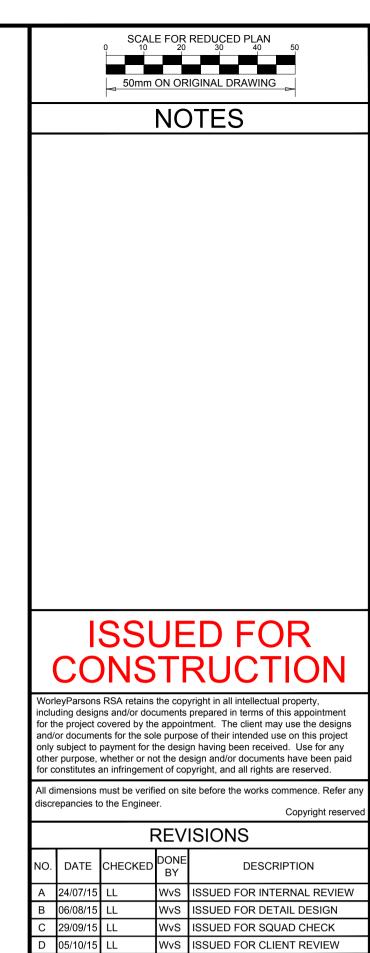
NON-SLIP FINISH -LIFTING HOLES -- -0-HEAVY DUTY PRECAST CONCRETE MANHOLE COVER AND FRAME



NOTES

STEEL PIPES, SPECIALS AND FLANGES PASSING THROUGH CHAMBER

ROUGH: CONCEALED SURFACES BELOW FINISHED GROUND LEVEL,



| | Copyright reserved | | | | |
|-----|--------------------|---------|------------|----------------------------|--|
| | REVISIONS | | | | |
| NO. | DATE | CHECKED | DONE BY | DESCRIPTION | |
| А | 24/07/15 | LL | WvS | ISSUED FOR INTERNAL REVIEW | |
| В | 06/08/15 | LL | WvS | ISSUED FOR DETAIL DESIGN | |
| С | 29/09/15 | LL | WvS | ISSUED FOR SQUAD CHECK | |
| D | 05/10/15 | LL | WvS | ISSUED FOR CLIENT REVIEW | |
| Е | 06/11/15 | LL | WvS | ISSUED FOR CLIENT APPROVAL | |
| 0 | 03/12/15 | LL | WvS | ISSUED FOR CONSTRUCTION | |
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WorleyParsons

resources & energy

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| DESIGNER: | LH LOUW | ~ ? 26. Louw | 03/12/2015 | |
|----------------------------|---------------------|--------------|------------|--|
| PR ENG: | LH LOUW 20090253 | - 126. Louw | 03/12/2015 | |
| PROJECT ENG MANAGER: | L PADAYACHEE | July. | 03/12/2015 | |
| LOCAL PR ENG: | | | | |
| CLIENT: | | | | |
| CLIENT | | | | |





AMA 1 RESETTLEMENT VILLAGE DRAWING DESCRIPTION

DETAILS OF WATER METER AND ISOLATING VALVE INSTALLATION AND CHAMBER

| SCALE AS SHOWN ORIGINAL DWG SIZE A1 | DECEMBER | 2015 | |
|---|----------|------|--|
| DRAWING NUMBER REV I | | | |
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| ANADARKO DRAWING NUMBER | | | |
| EA-MZ-CI0000-WOR-E05-00035-01 | | | |

COORDINATE TABLE

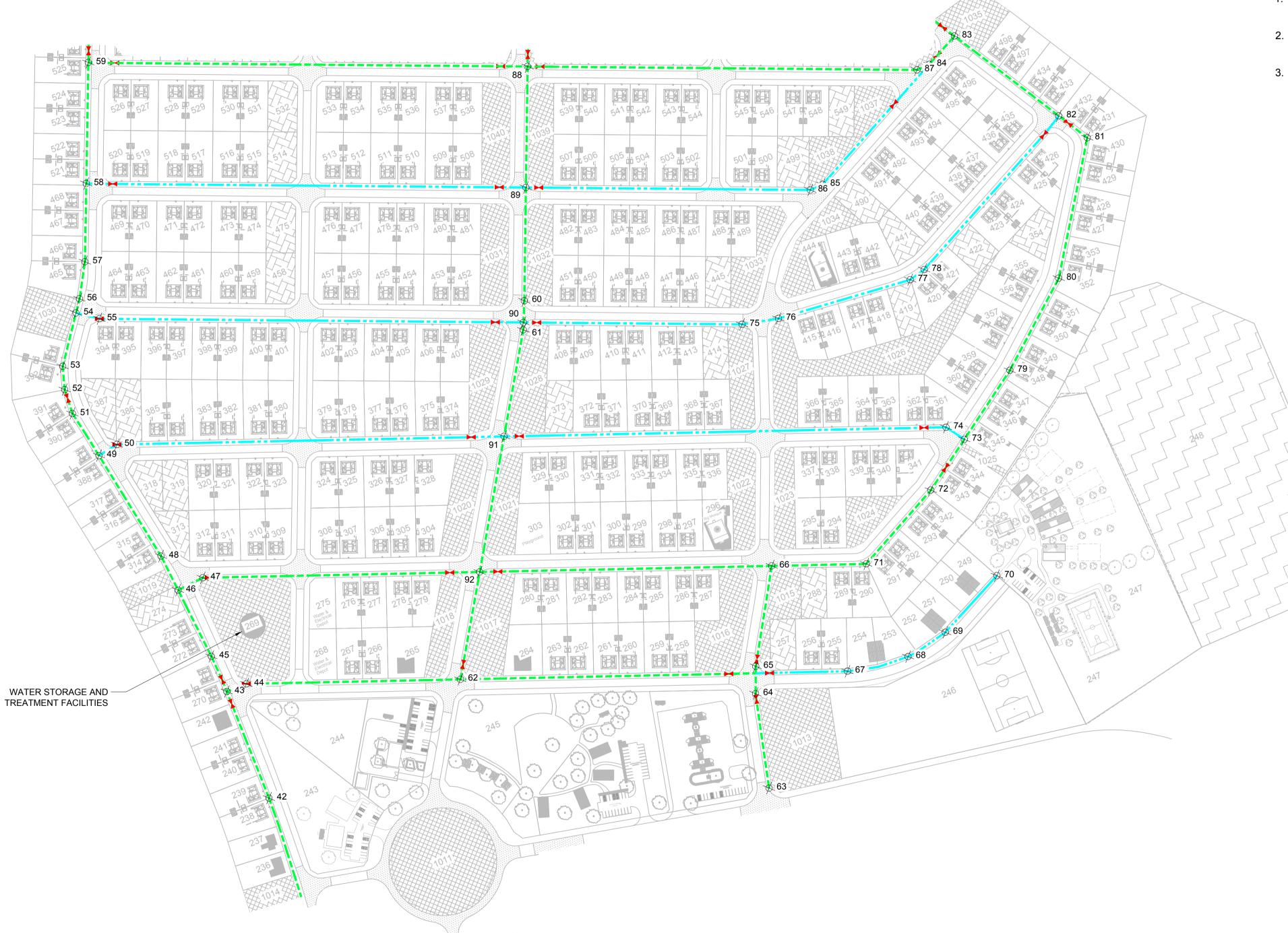
| POINT | Y | Х |
|-------|------------|-------------|
| 42 | 662875.999 | 8801321.111 |
| 43 | 662877.847 | 8801411.073 |
| 44 | 662894.371 | 8801410.734 |
| 45 | 662877.392 | 8801441.258 |
| 46 | 662873.496 | 8801499.328 |
| 47 | 662895.131 | 8801500.780 |
| 48 | 662871.493 | 8801529.177 |
| 49 | 662857.158 | 8801620.800 |
| 50 | 662873.499 | 8801623.357 |
| 51 | 662850.768 | 8801659.307 |
| 52 | 662852.431 | 8801679.004 |
| 53 | 662858.056 | 8801696.443 |
| 54 | 662883.927 | 8801731.070 |

COORDINATE TABLE

| POINT | Y | Х |
|-------|------------|-------------|
| 55 | 662899.139 | 8801719.706 |
| 56 | 662890.781 | 8801740.244 |
| 57 | 662905.980 | 8801765.386 |
| 58 | 662930.771 | 8801821.638 |
| 59 | 662969.084 | 8801908.575 |
| 60 | 663212.066 | 8801603.505 |
| 61 | 663202.460 | 8801582.784 |
| 62 | 663050.634 | 8801348.868 |
| 63 | 663240.871 | 8801176.268 |
| 64 | 663259.836 | 8801248.756 |
| 65 | 663268.348 | 8801268.476 |
| 66 | 663310.481 | 8801336.289 |
| 67 | 663333.202 | 8801236.970 |
| | | |

COORDINATE TABLE

| POINT | Y | Х |
|-------|------------|-------------|
| 68 | 663381.532 | 8801229.170 |
| 69 | 663415.870 | 8801235.420 |
| 70 | 663470.422 | 8801260.768 |
| 71 | 663379.459 | 8801308.992 |
| 72 | 663448.642 | 8801342.726 |
| 73 | 663488.342 | 8801369.297 |
| 74 | 663478.718 | 8801383.676 |
| 75 | 663362.490 | 8801520.198 |
| 76 | 663390.627 | 8801513.324 |
| 77 | 663497.733 | 8801501.327 |
| 78 | 663510.969 | 8801504.475 |
| 79 | 663542.282 | 8801405.398 |
| 80 | 663605.705 | 8801457.281 |
| · | | • |



| COORDINATE TABL | E |
|-----------------|---|
| | |

| POINT | Y | Х |
|-------|------------|-------------|
| 81 | 663669.091 | 8801550.209 |
| 82 | 663655.083 | 8801574.748 |
| 83 | 663603.919 | 8801664.309 |
| 84 | 663577.000 | 8801651.415 |
| 85 | 663463.306 | 8801596.937 |
| 86 | 663452.777 | 8801596.725 |
| 87 | 663566.471 | 8801651.203 |
| 88 | 663285.751 | 8801772.079 |
| 89 | 663247.697 | 8801685.033 |
| 90 | 663204.902 | 8801588.052 |
| 91 | 663156.143 | 8801511.424 |
| 92 | 663097.285 | 8801420.742 |

REF

ANADARKO DRAWING NO.

- EA-MZ-CI0000-WOR-E04-00065-01 EA-MZ-CI0000-WOR-E04-00073-01 EA-MZ-CI0000-WOR-E04-00074-01 EA-MZ-CI0000-WOR-E04-00075-01 EA-MZ-CI0000-WOR-E11-00002-01
- EA-MZ-CI0000-WOR-E05-00066-01

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| -01 | GENERAL LAYOUT | | 1. | WATE | | | DTES TO BE INSTALLEI | D |
| -01 | WATER RETICULATION LAYOUT | r | | 2 ME | TRES FRO | OM S | TAND BOUNDARY RESERVE. | |
| -01 | WATER RETICULATION KEY PL | | | | | | | |
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| -01 | WATER RETICULATION LAYOUT | | | | | | | |
| -01 -01 | DETAILS OF ISOLATING VALVE AND CHAMBER: WATER RETICU NETWORK DETAILS OF THRUST BLOCKS F AND BENDS | JLATION | | | | | | |
| -01 | TYPICAL TRENCH DETAILS | | | | | | | |
| | GEND: | | | | | | | |
| 1. | 90mm ND HDPE PE100 PN 10 WATER PIPELINE | | | | | | | |
| 2. | 63mm ND HDPE PE100 PN 10 WATER PIPELINE | | | | | | | |
| 3. | ISOLATING VALVE AND CHAMBER | | _ | | SSI | JF | | <u>२</u> |
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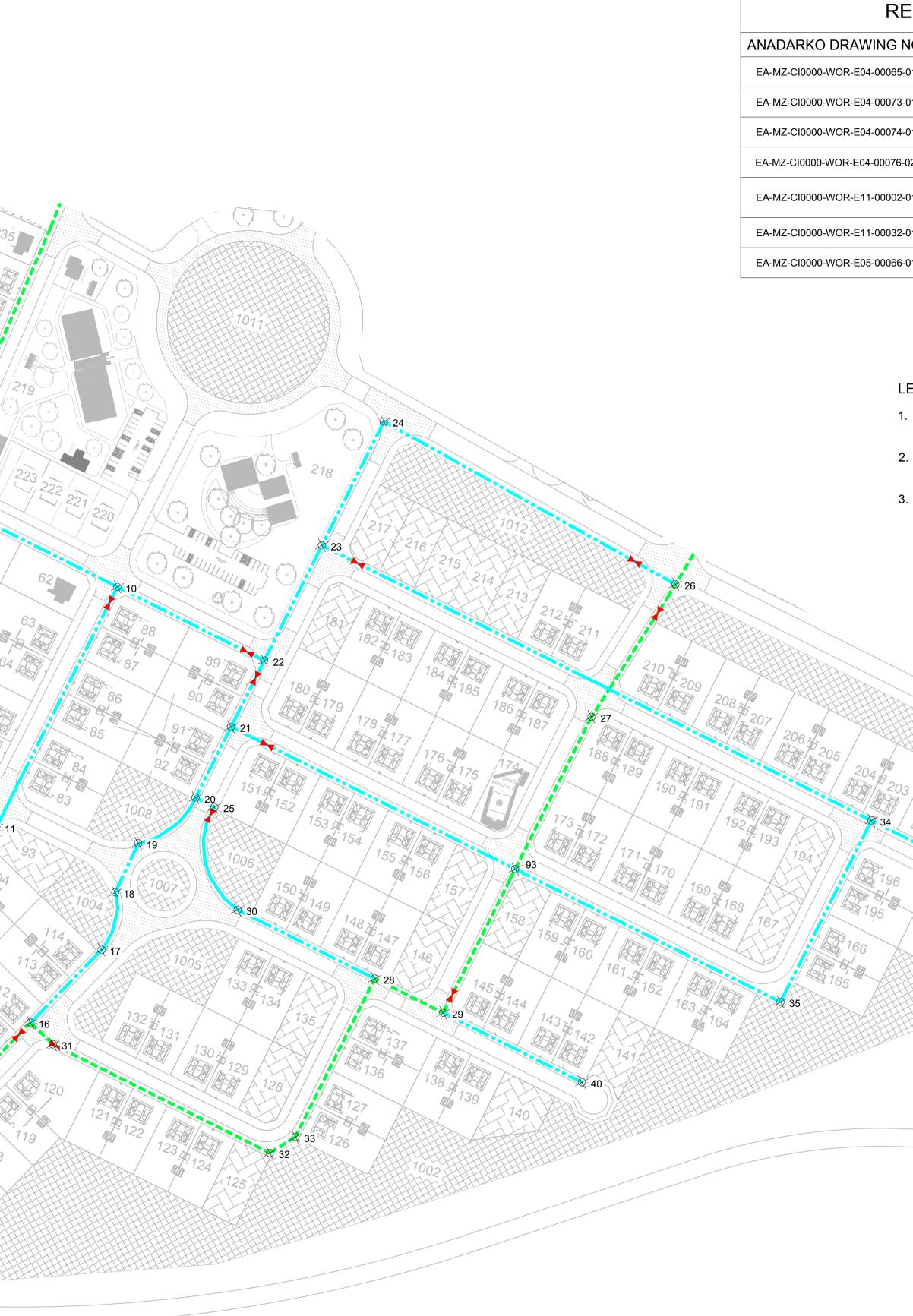


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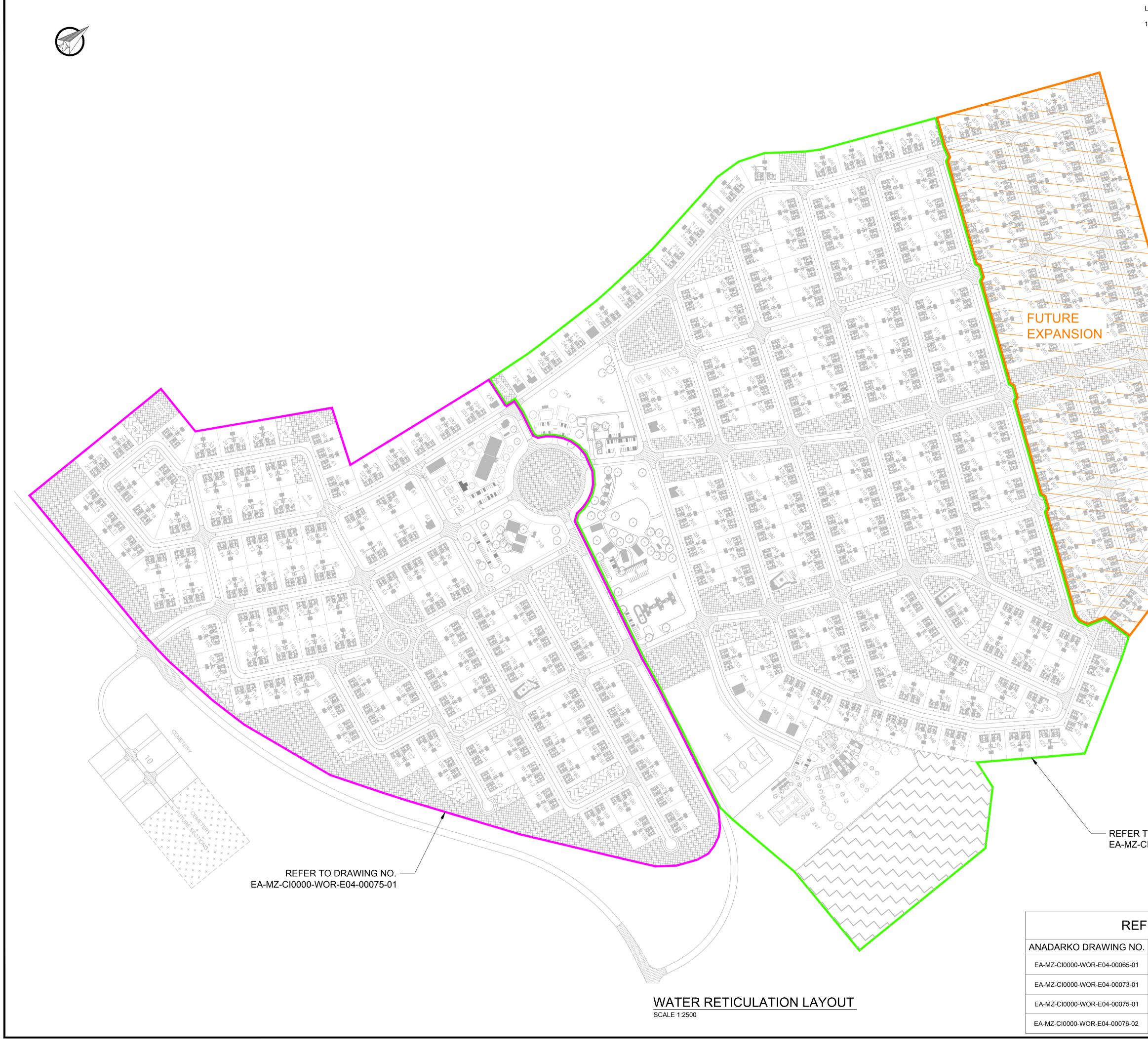
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|-------|------------|-------------|
| POINT | Y | X |
| 24 | 663064.951 | 8801192.490 |
| 25 | 663036.778 | 8800974.208 |
| 26 | 663235.086 | 8801153.847 |
| 27 | 663212.485 | 8801075.040 |
| 28 | 663142.419 | 8800911.878 |
| 29 | 663181.788 | 8800904.796 |
| 30 | 663063.544 | 8800926.088 |
| 31 | 662990.831 | 8800831.482 |
| 32 | 663115.576 | 8800809.008 |
| 33 | 663126.022 | 8800820.863 |
| 34 | 663368.055 | 8801064.287 |
| 35 | 663349.232 | 8800959.972 |
| 36 | 662849.061 | 8801074.381 |
| 37 | 662838.984 | 8801014.001 |
| 38 | 662820.231 | 8800956.758 |
| 39 | 662795.789 | 8800710.365 |
| 40 | 663261.547 | 8800890.416 |
| 41 | 663441.128 | 8801051.122 |
| 93 | 663196.691 | 8800987.454 |

| COO | RDINATE | TABLE |
|-------|------------|-------------|
| POINT | Y | Х |
| 1 | 662850.855 | 8801089.102 |
| 2 | 662827.257 | 8800973.495 |
| 3 | 662740.931 | 8801003.503 |
| 4 | 662658.229 | 8800852.679 |
| 5 | 662602.232 | 8800852.679 |
| 6 | 662602.232 | 8800746.645 |
| 7 | 662719.519 | 8800746.737 |
| 8 | 662757.930 | 8800817.437 |
| 9 | 662748.041 | 8800822.272 |
| 10 | 662955.761 | 8801070.220 |
| 11 | 662930.544 | 8800931.953 |
| 12 | 662833.444 | 8800780.512 |
| 13 | 662846.874 | 8800773.944 |
| 14 | 662917.813 | 8800739.257 |
| 15 | 662924.818 | 8800741.532 |
| 16 | 662976.443 | 8800839.095 |
| 17 | 663001.284 | 8800886.042 |
| 18 | 662999.691 | 8800916.845 |
| 19 | 663003.990 | 8800944.806 |
| 20 | 663025.973 | 8800976.156 |
| 21 | 663033.312 | 8801016.888 |
| 22 | 663040.182 | 8801055.014 |
| 23 | 663052.108 | 8801121.208 |





| NO. | ERENCES | | | SCALE F | OR | REDUCED PLAN 30 40 5 | 0 |
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| JUNI. | 1 | | | 50mm ON | N ORI | | - |
| | DRAWING DESCRIPTION | | | N | 10 | TES | |
| 5-01 5-01 | GENERAL LAYOUT WATER RETICULATION LAYOUT | 1. | 2 ME | | / ST | TO BE INSTALLE AND BOUNDARY RESERVE. | |
| -01 | WATER RETICULATION KEY PLAN | | | | | | |
| -02 | WATER RETICULATION LAYOUT SHEET 2 OF | 2 | | | | | |
| 2-01 | DETAILS OF ISOLATING VALVE INSTALLATIO AND CHAMBER: WATER RETICULATION NETWORK | N | | | | | |
| -01 | DETAILS OF THRUST BLOCKS FOR T-PIECES AND BENDS | | | | | | |
| 6-01 | TYPICAL TRENCH DETAILS | | | | | | |
| _EGI | END: | | | | | | |
| | 0mm ND HDPE PE100 N 10 WATER PIPELINE | | | | | | |
| | 3mm ND HDPE PE100 N 10 WATER PIPELINE | | | | | D FOF | |
| | SOLATING VALVE AND HAMBER | inclu for th and/ only othe for c | ding desig ne project or docume subject to r purpose, onstitutes | ns and/or docum covered by the a ents for the sole p payment for the whether or not the an infringement of | nents p ppoint ourpos design he des of cop | right in all intellectual pro prepared in terms of this ment. The client may us e of their intended use o n having been received. sign and/or documents ha yright, and all rights are n | appointment se the designs n this project Use for any ave been paid reserved. |
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| | 41 | F | | NAME | | SIGNATURE | DATE |
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LEGEND:

1. FUTURE EXPANSION



SCALE FOR REDUCED PLAN 10 20 30 40 5 50mm ON ORIGINAL DRAWING

NOTES

ISSUED FOR CONSTRUCTION

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| А | 13/08/15 | LL | WvS | ISSUED FOR INTERNAL REVIEW |
| В | 03/09/15 | LL | WvS | ISSUED FOR DETAIL DESIGN |
| С | 22/09/15 | LL | WvS | ISSUED FOR SQUAD CHECK |
| D | 05/10/15 | LL | WvS | ISSUED FOR CLIENT REVIEW |
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WorleyParsons

WvS ISSUED FOR CONSTRUCTION

resources & energy

| 39 MELRO | SE BOULEVARD, MEL P.O. Box 61232, MAF TEL: +27 (0) FAX: +27(0) www.worley WorleyParsons | RSHALLTOWN, 2107 11 218 3000 11 218 3100 parsons.com | NESBURG |
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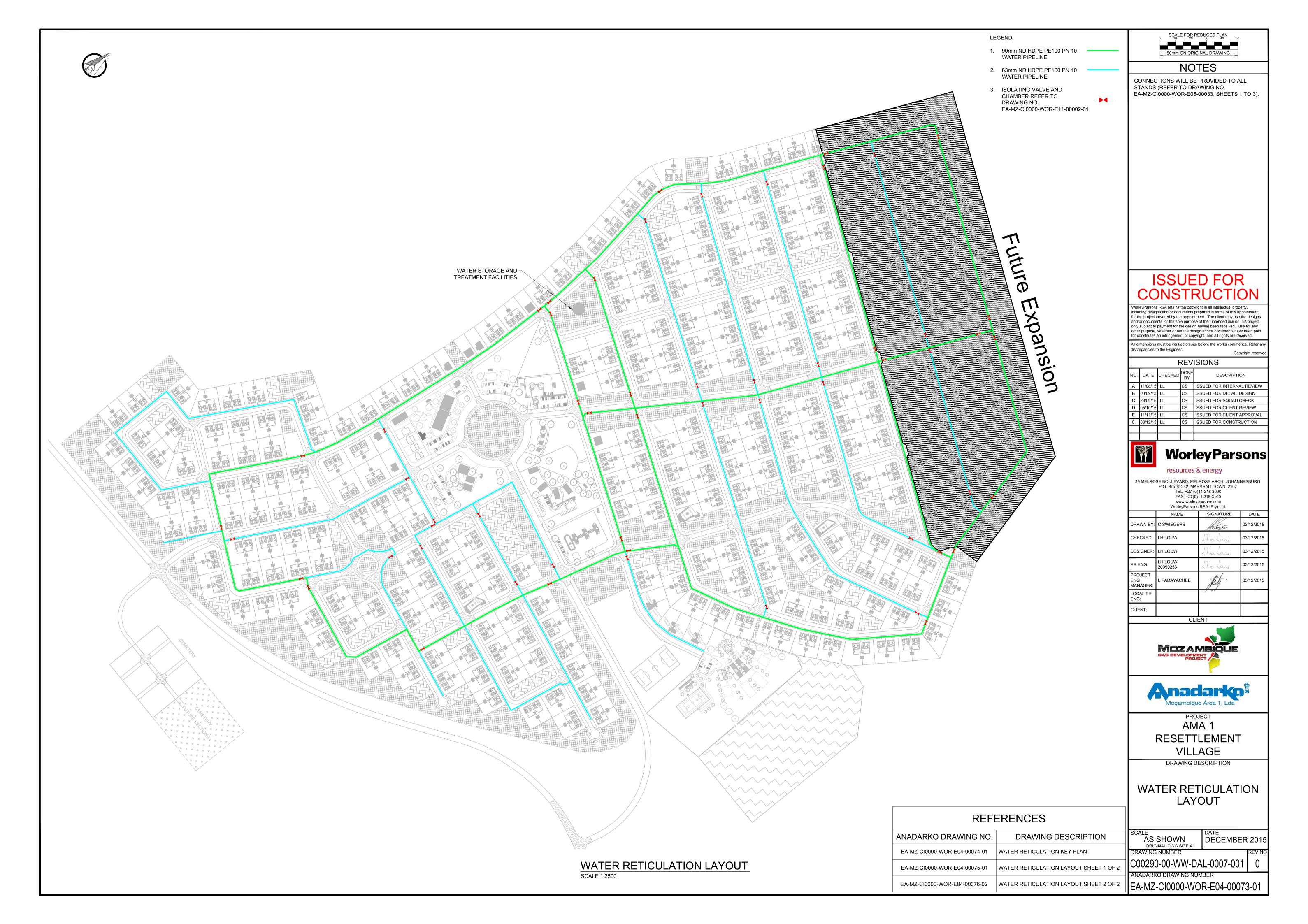
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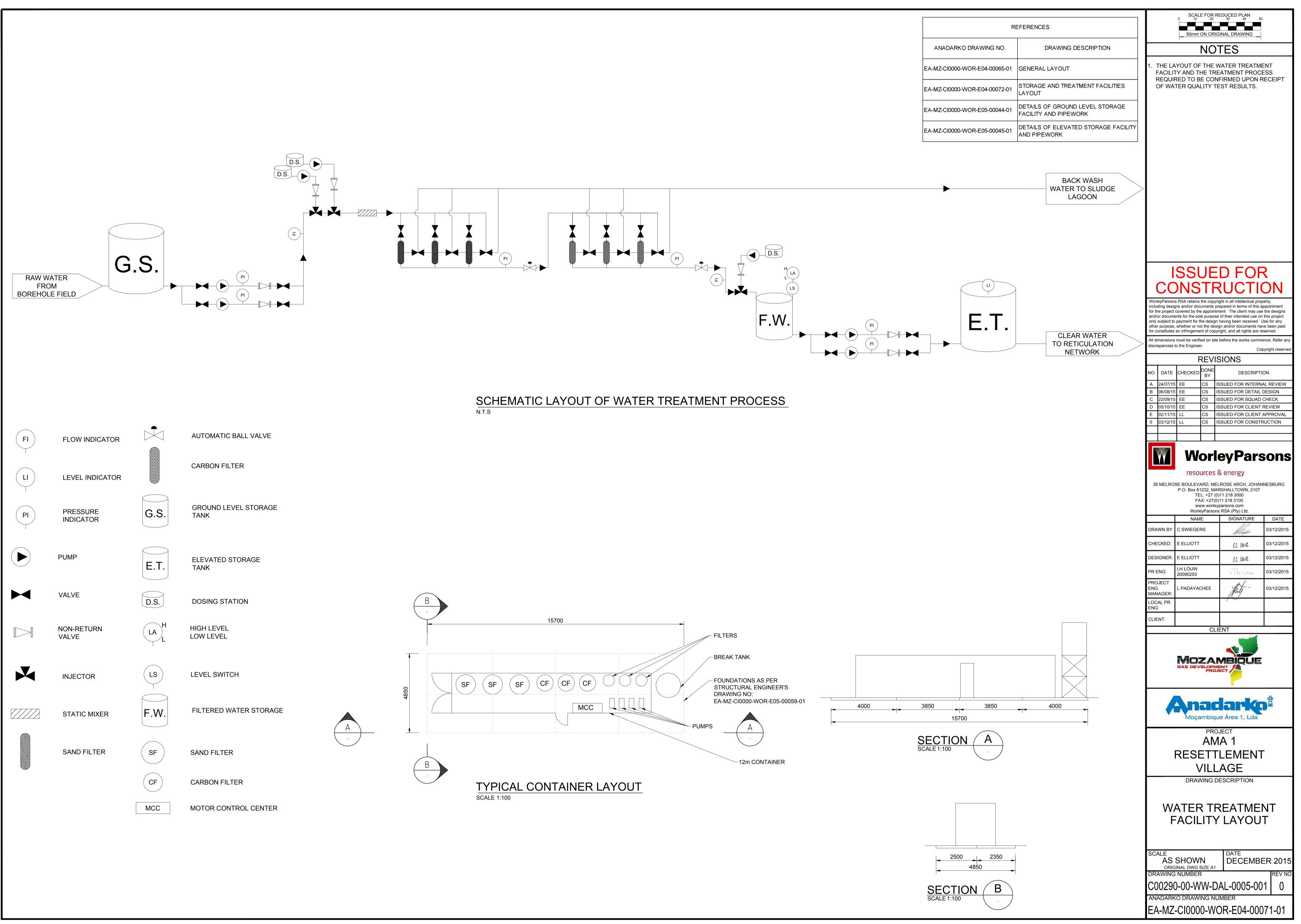
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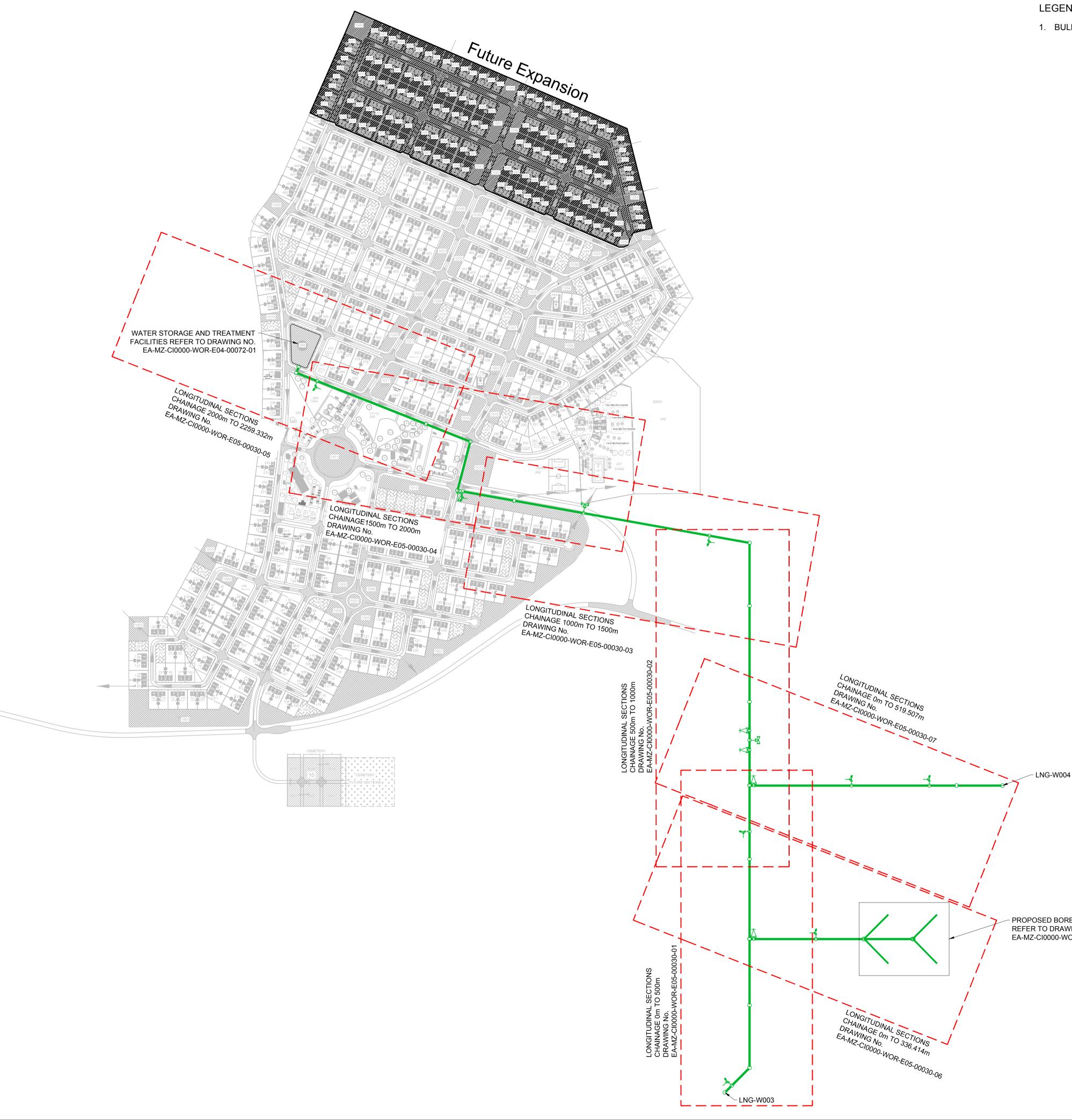
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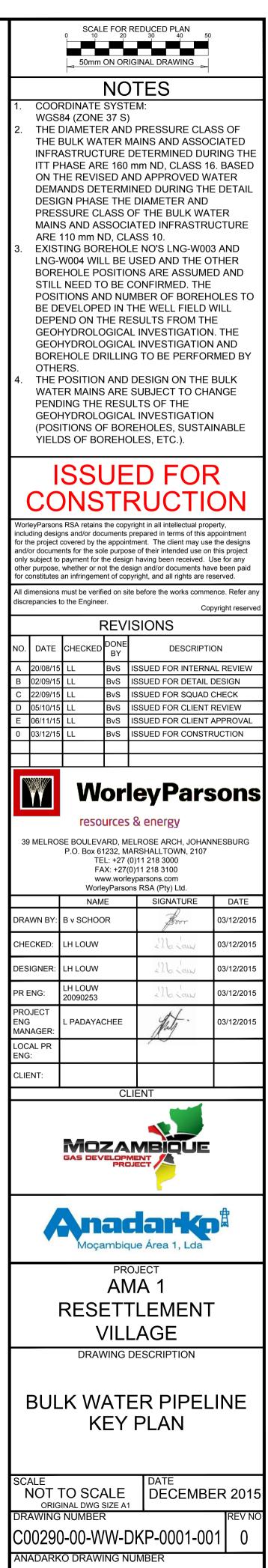






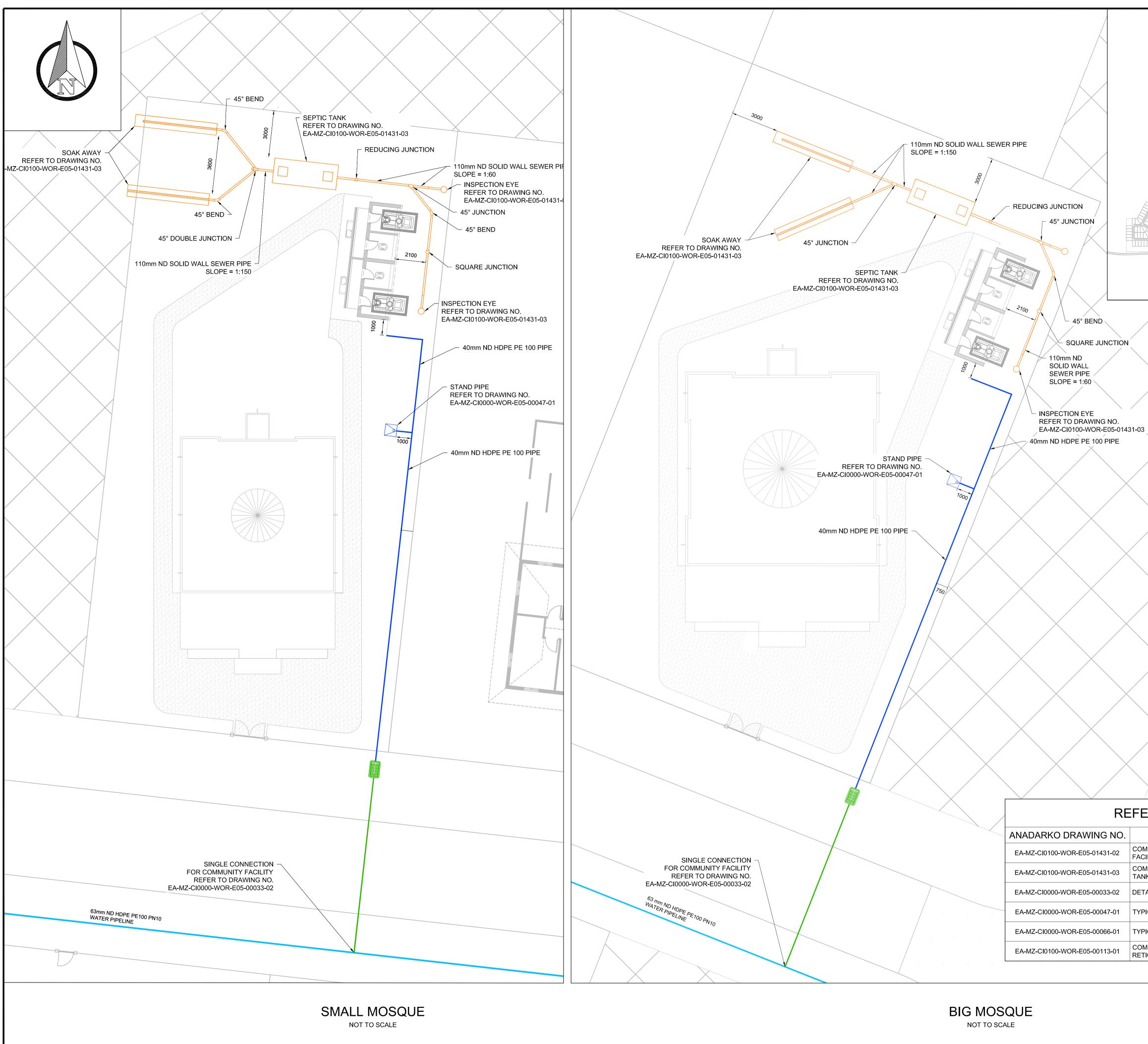
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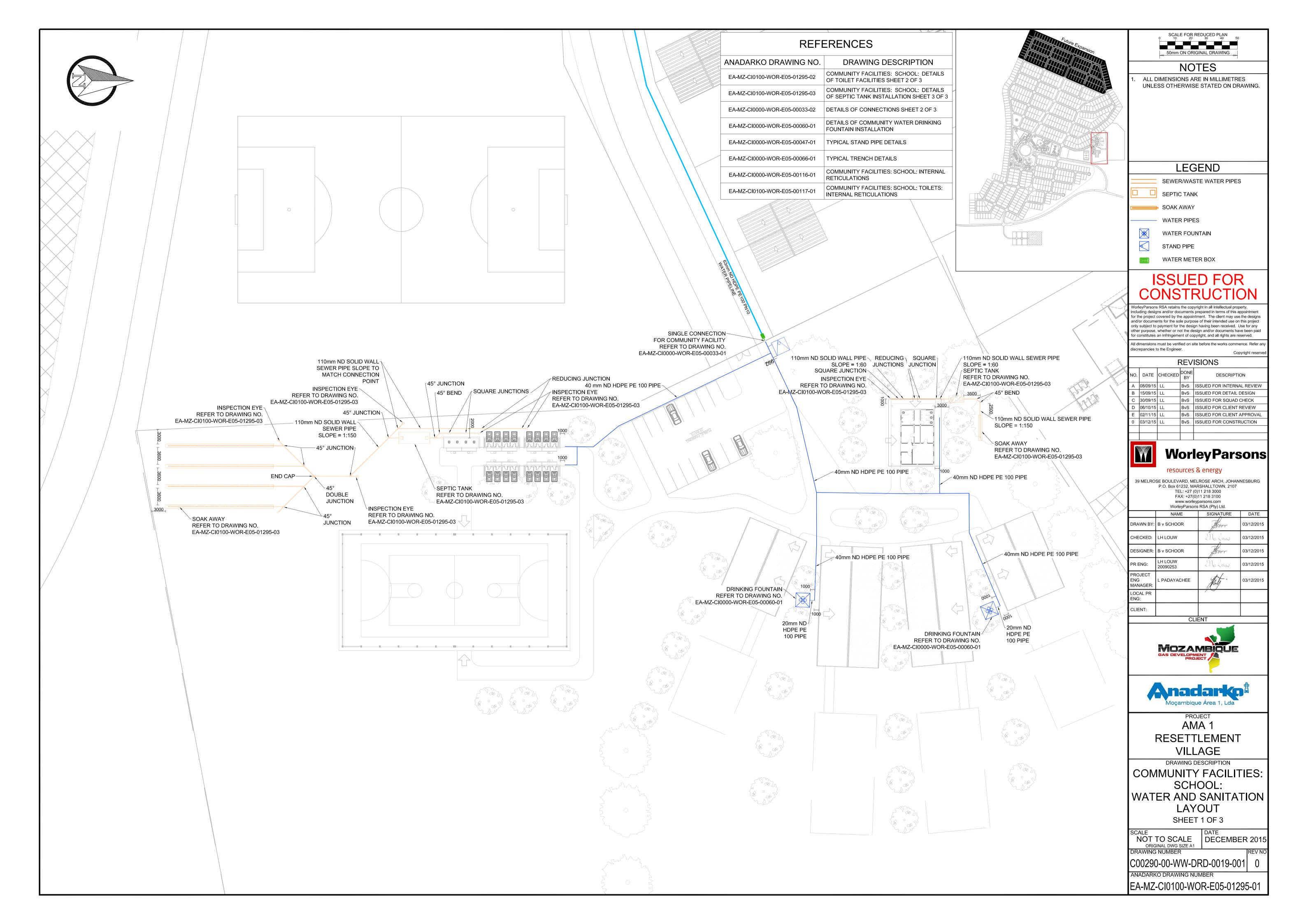


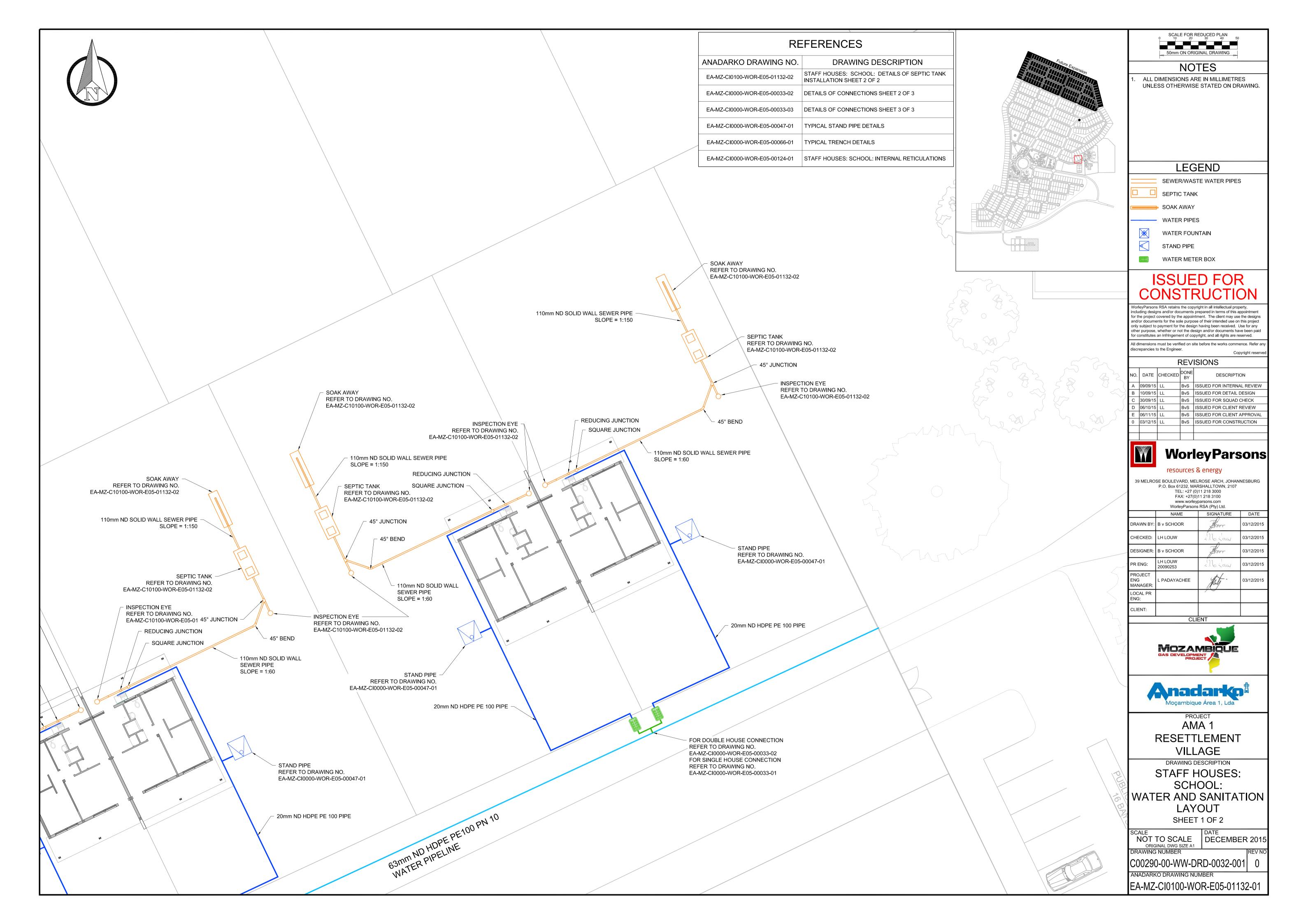
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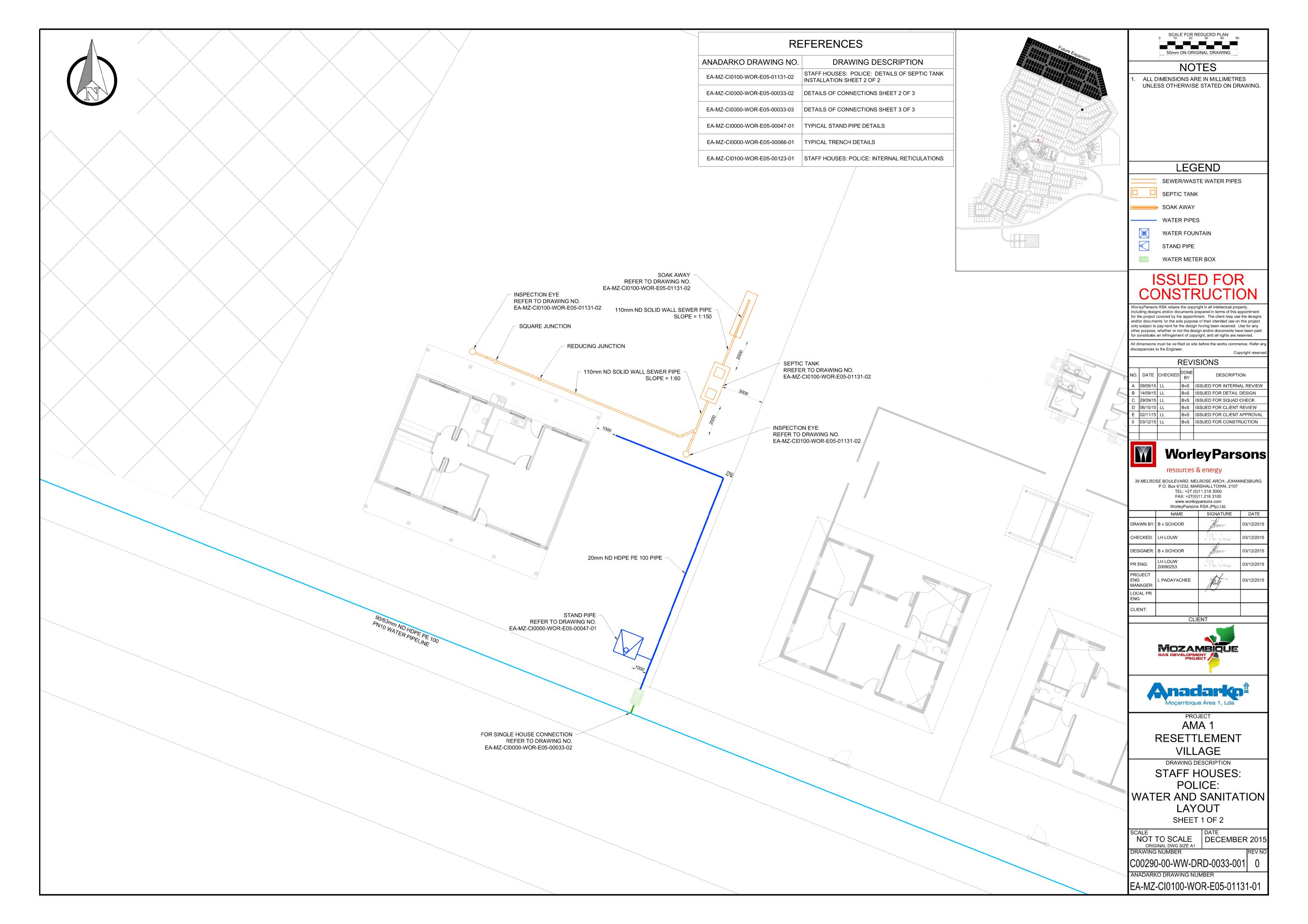
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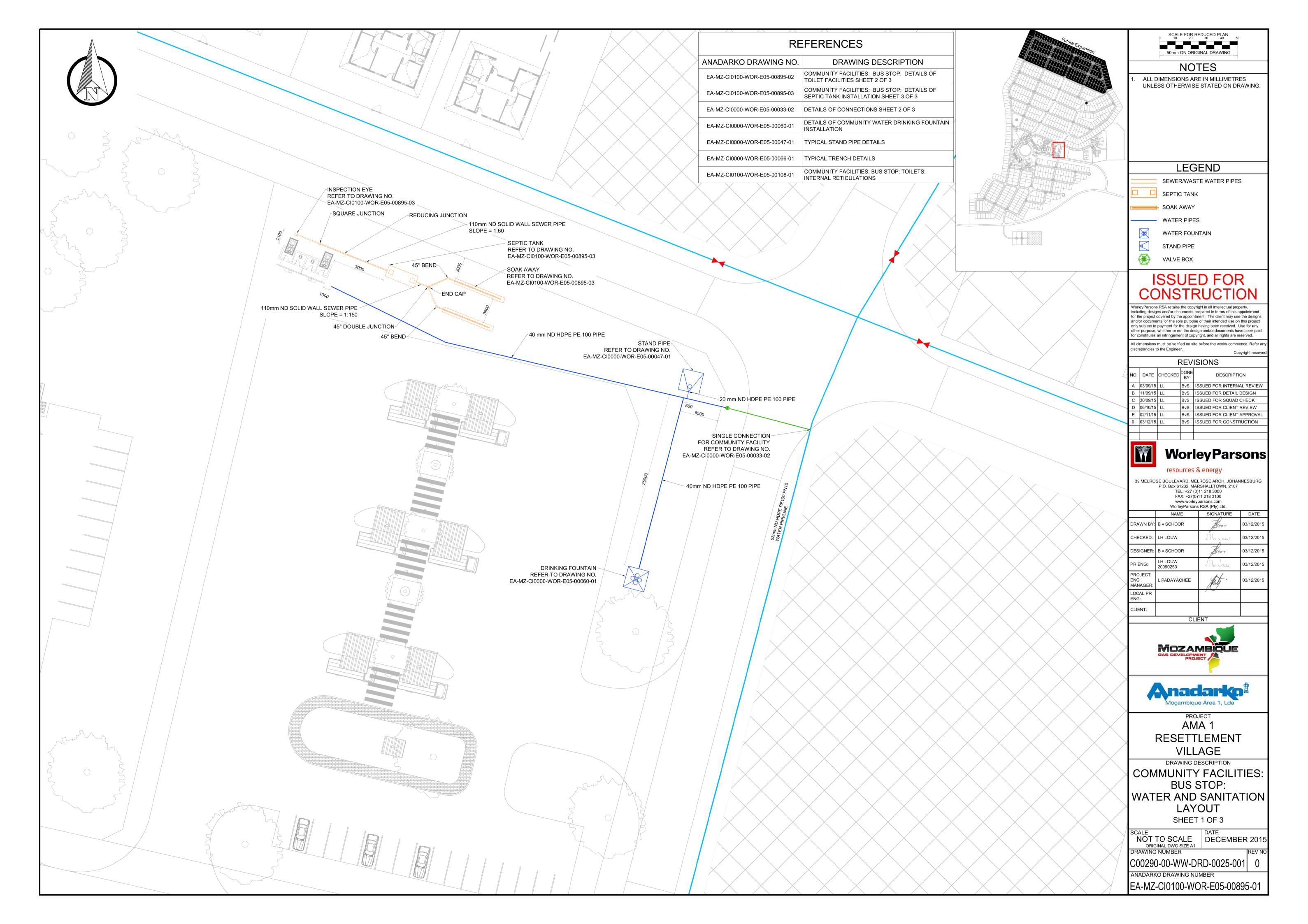


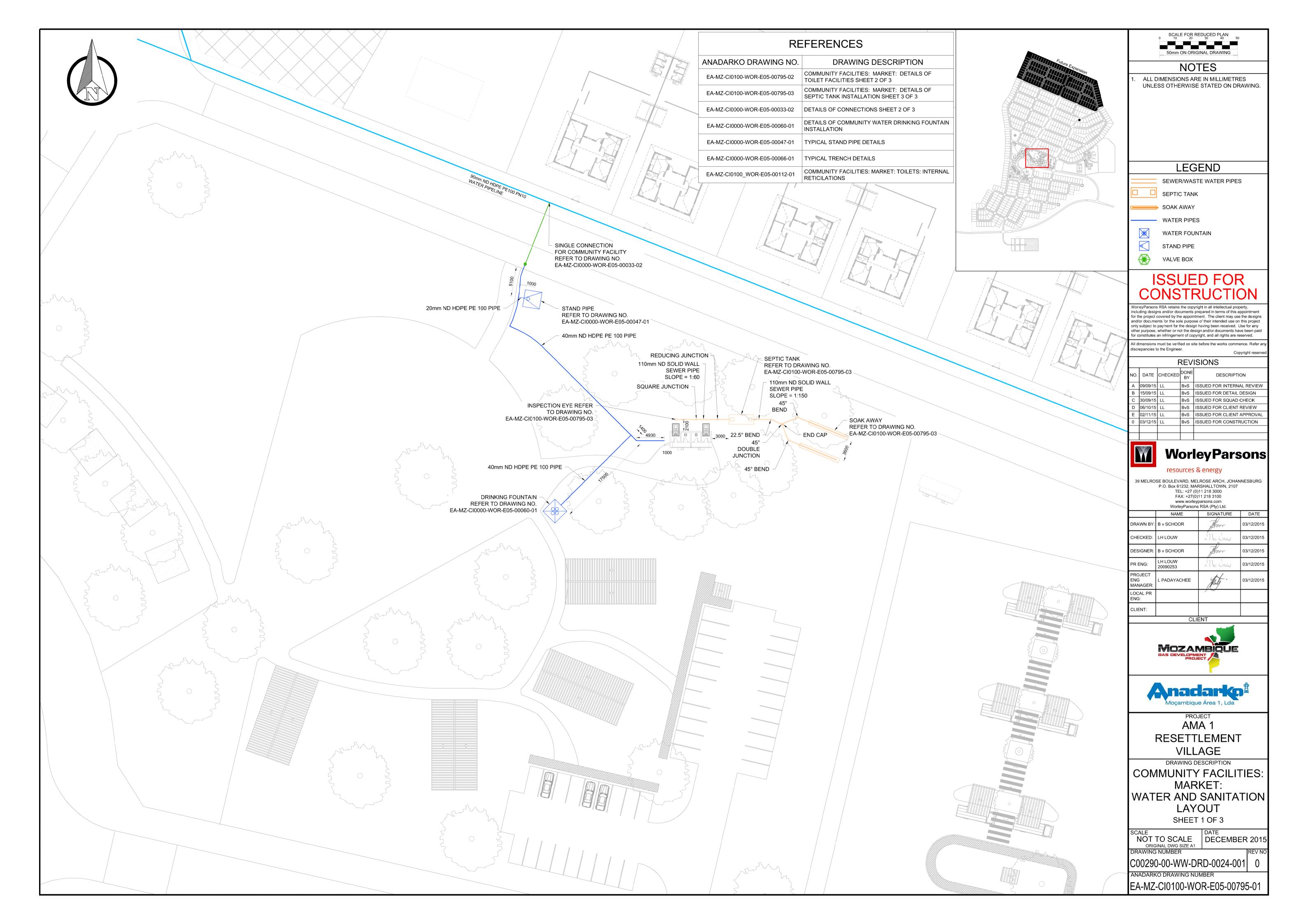
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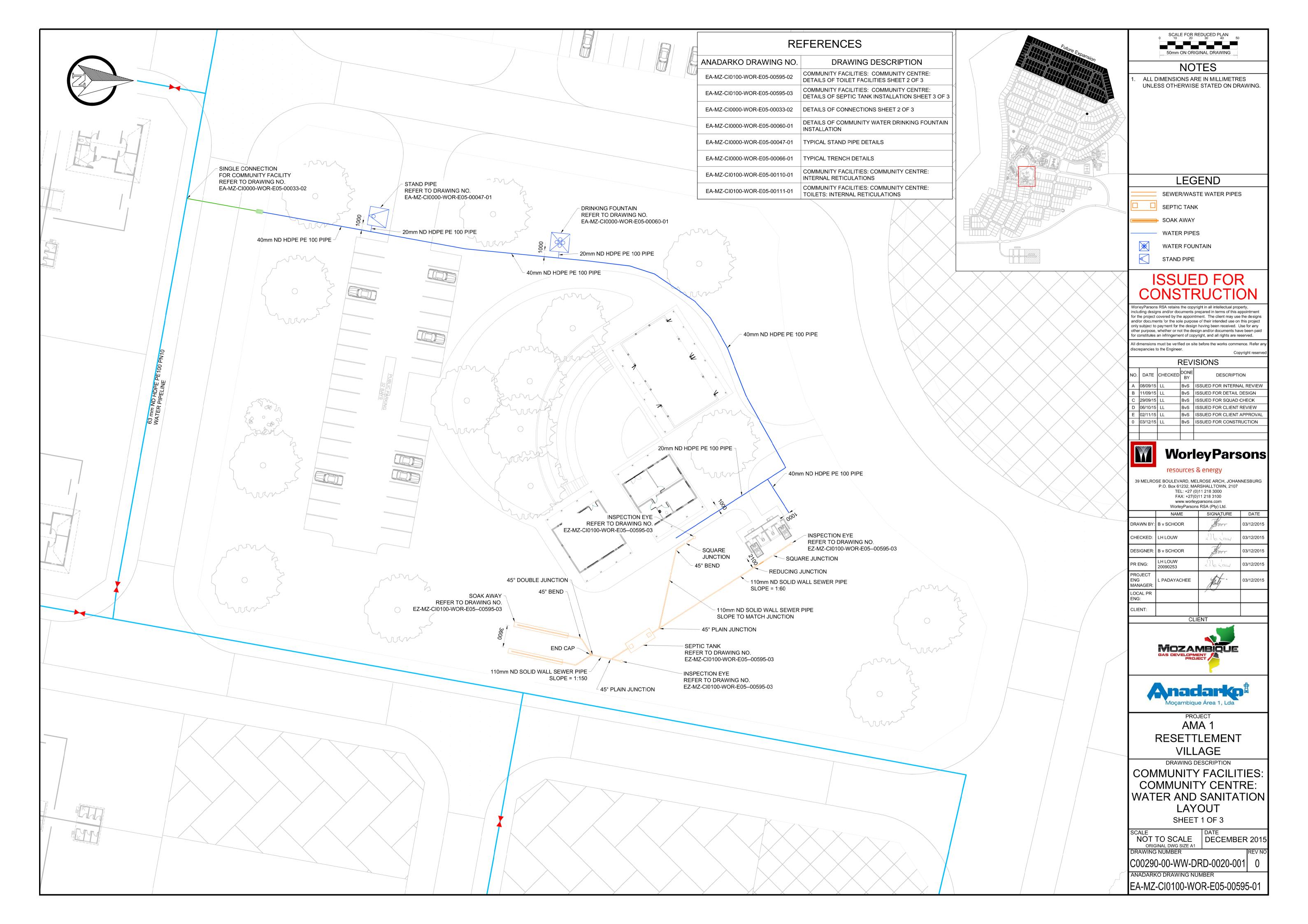


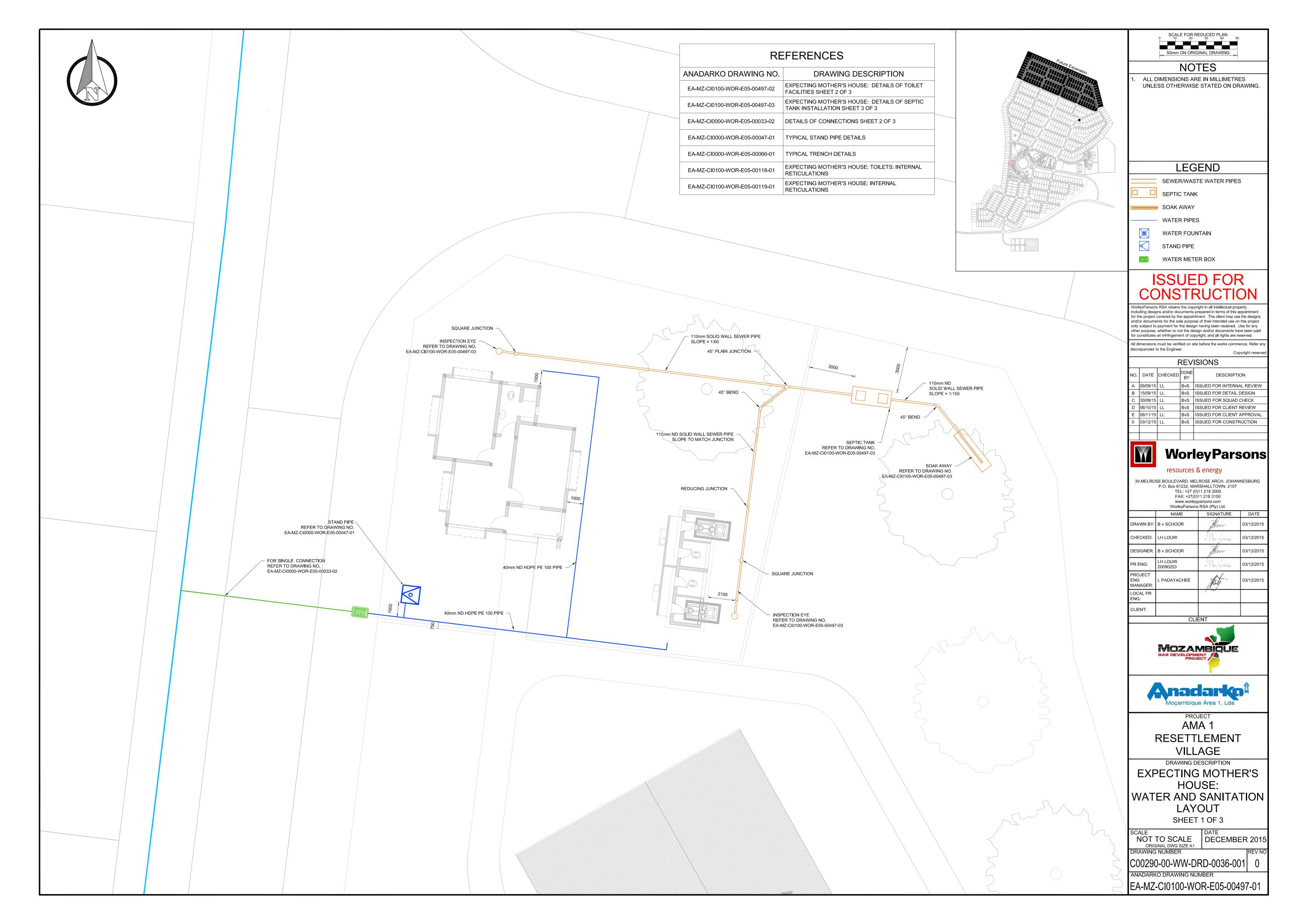




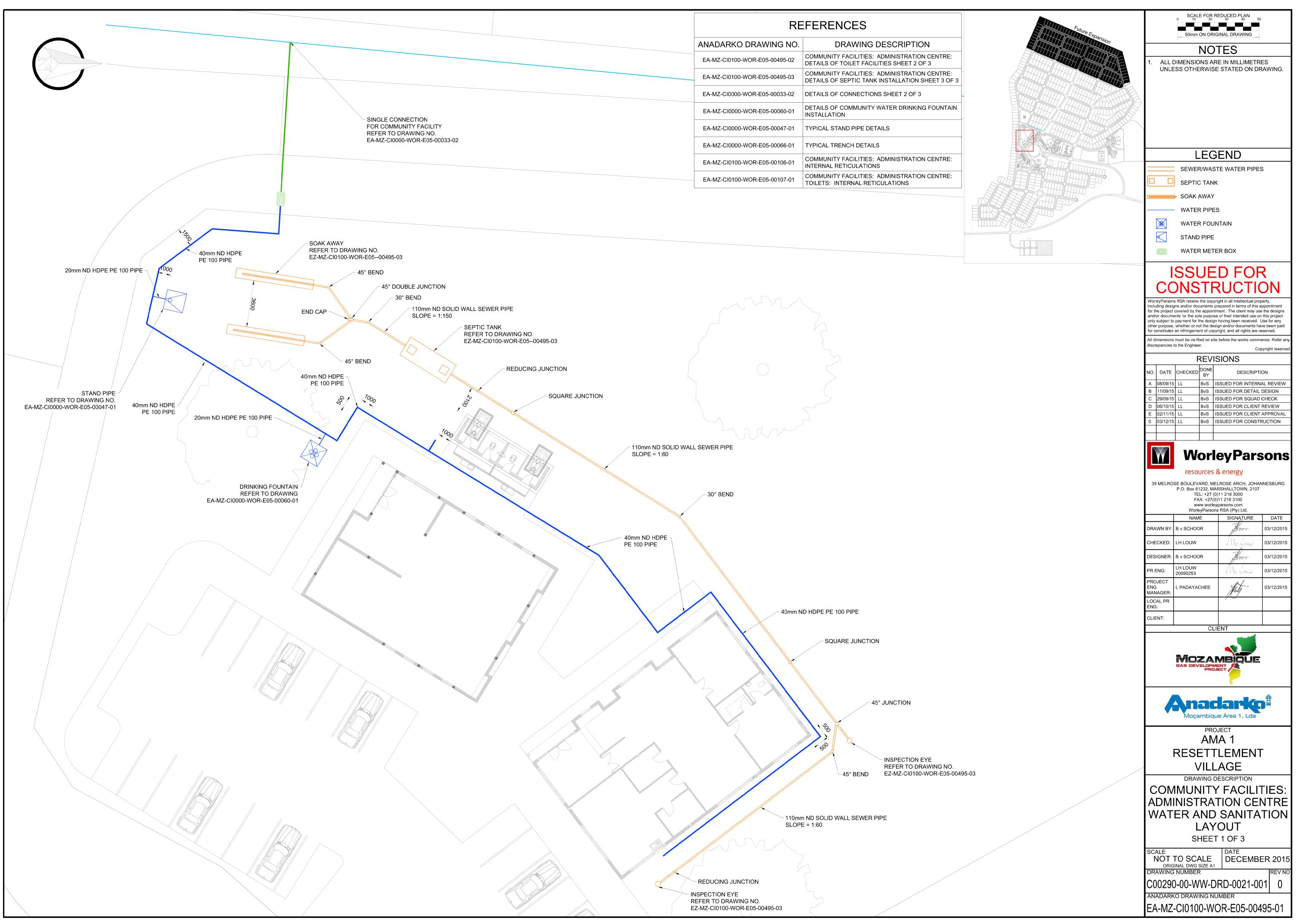




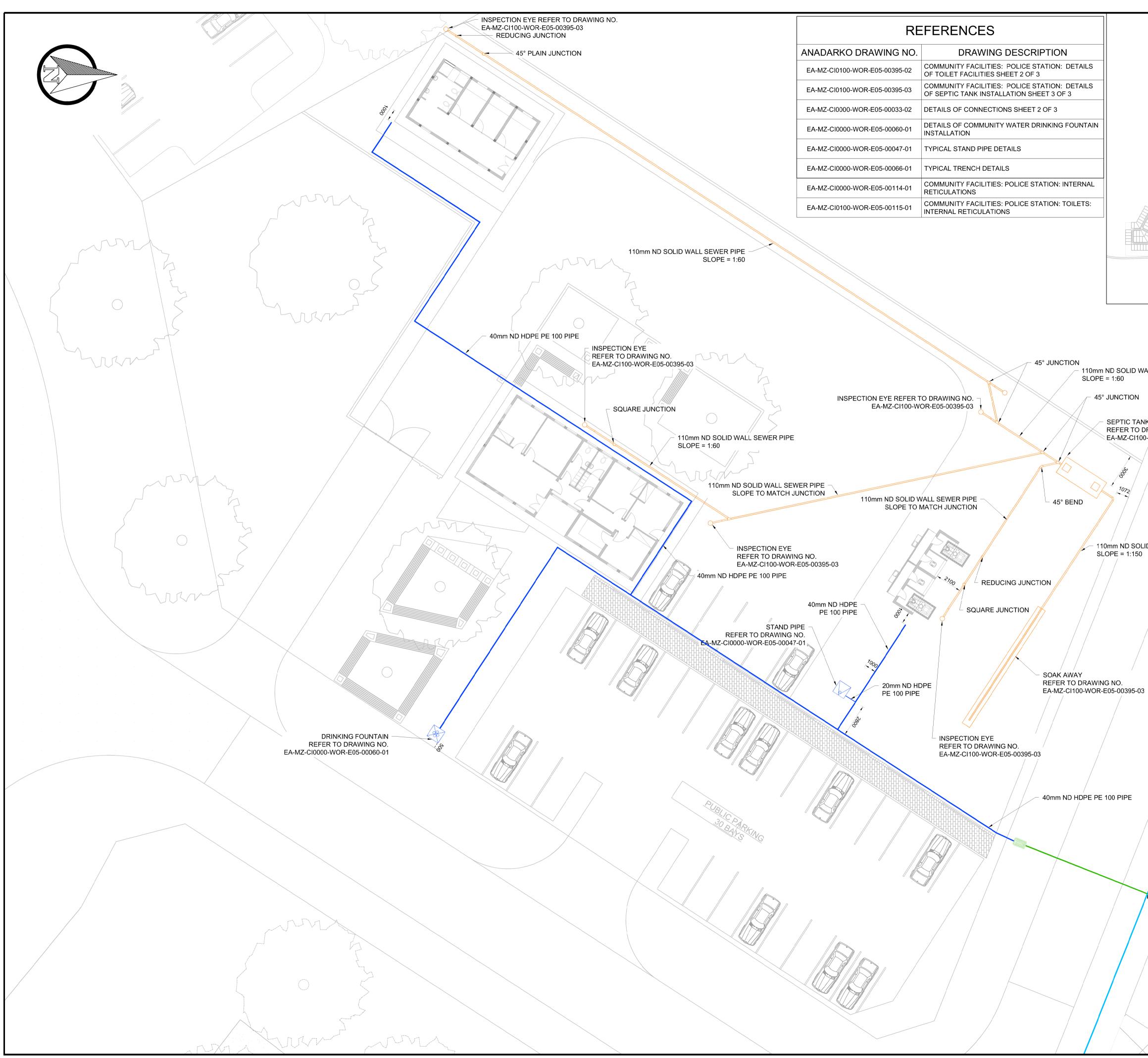




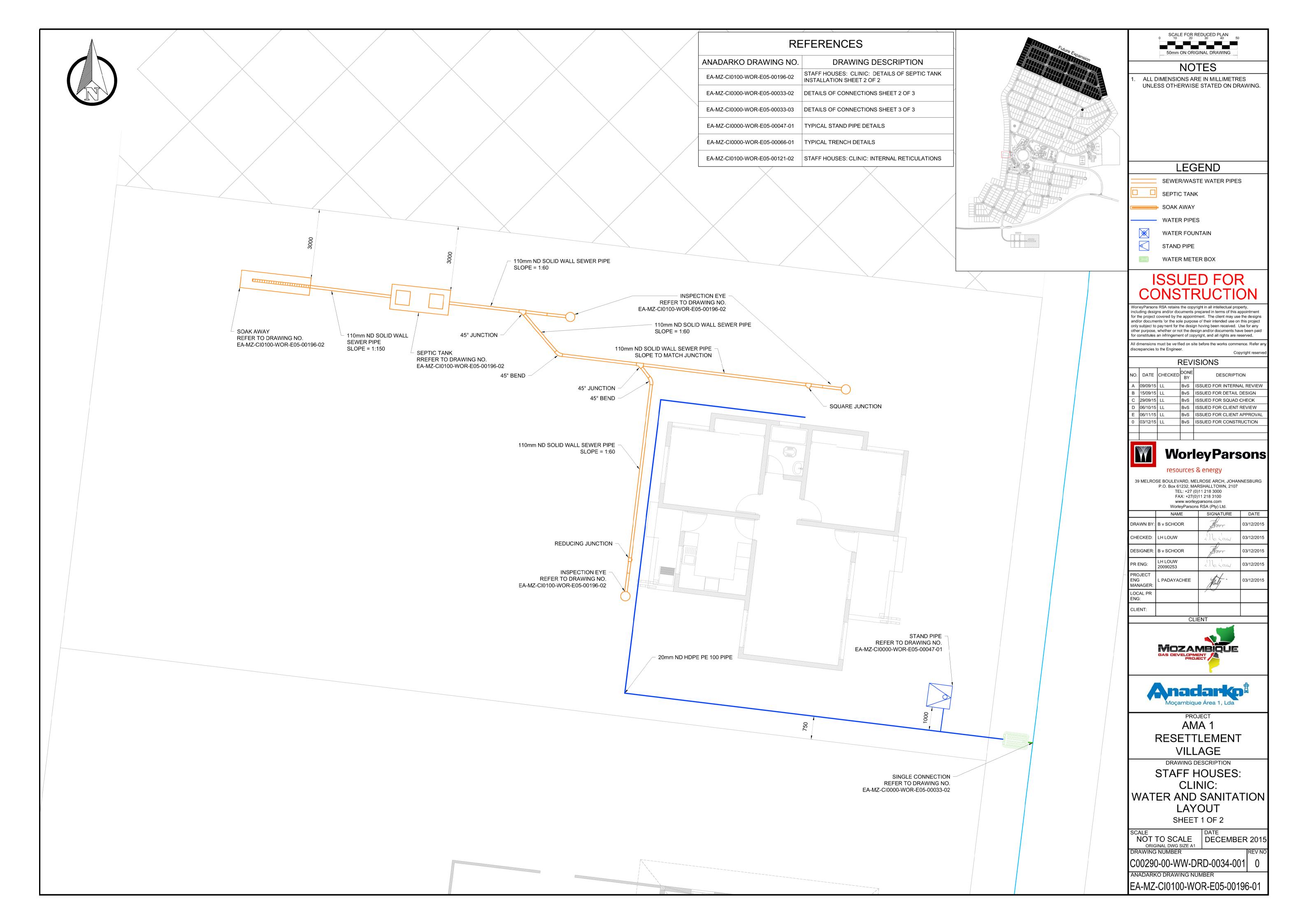


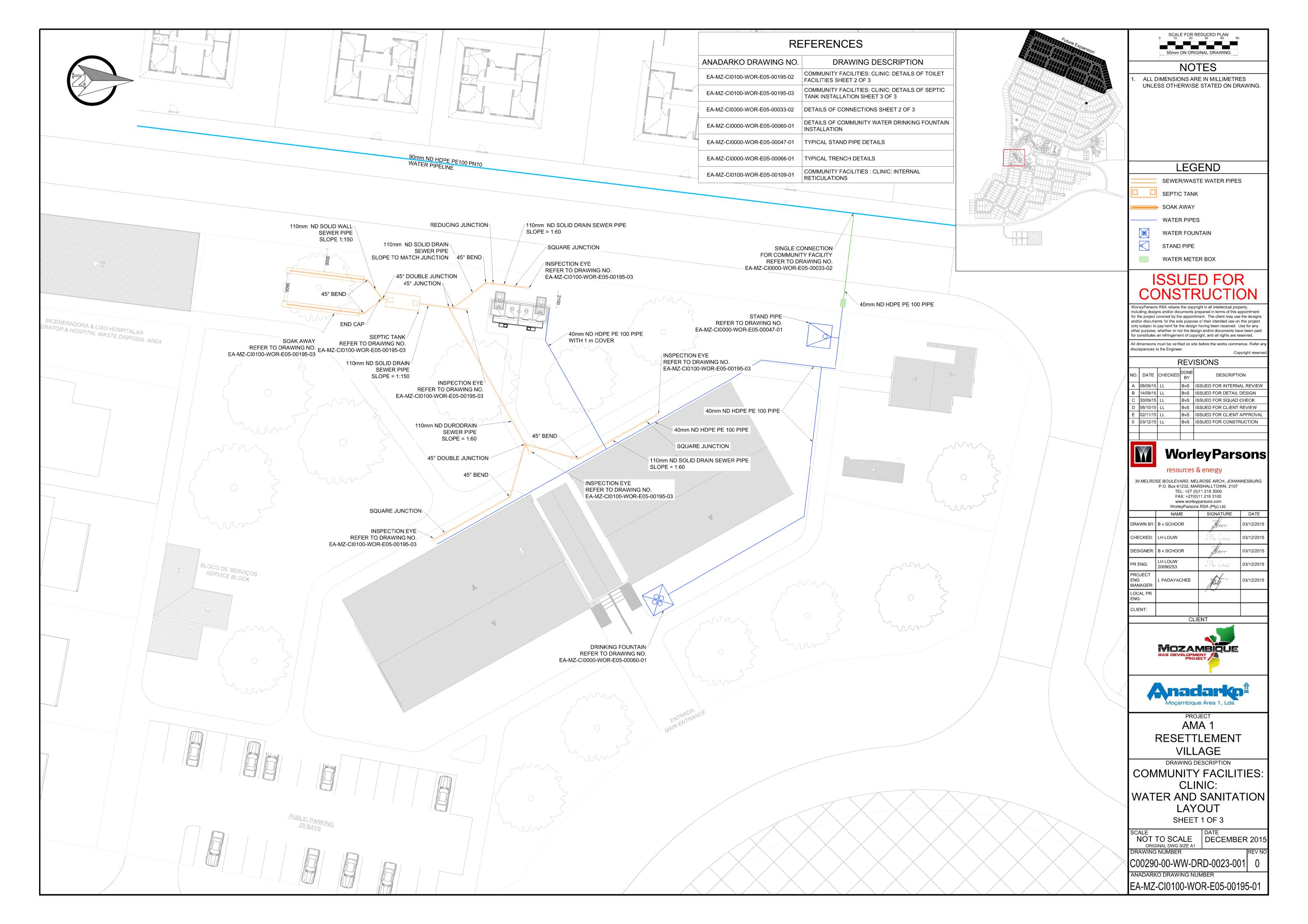


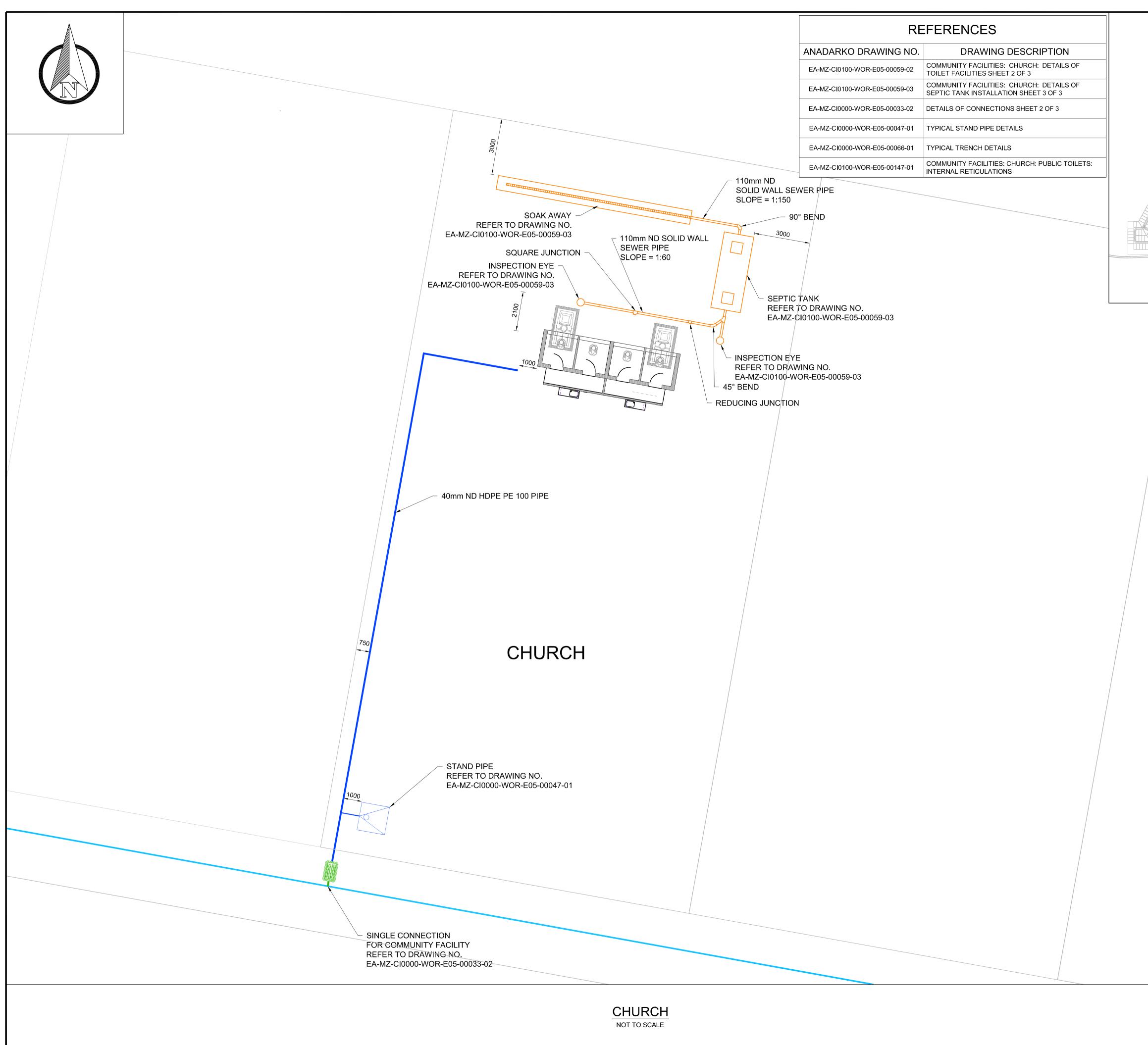
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| EA-MZ-CI0000-WOR-E05-00033-02 | DETAILS OF CONNECTIONS SHEET 2 OF 3 |
| EA-MZ-CI0000-WOR-E05-00060-01 | DETAILS OF COMMUNITY WATER DRINKING FOUNTAIL |
| EA-MZ-CI0000-WOR-E05-00047-01 | TYPICAL STAND PIPE DETAILS |
| EA-MZ-CI0000-WOR-E05-00066-01 | TYPICAL TRENCH DETAILS |
| EA-MZ-CI0100-WOR-E05-00106-01 | COMMUNITY FACILITIES: ADMINISTRATION CENTRE: INTERNAL RETICULATIONS |
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TYPE 3A POLYMER CONCRETE \sim VALVE BOX TO SANS 1882 WITH CHAIN FIXED TO COVER AND FRAME

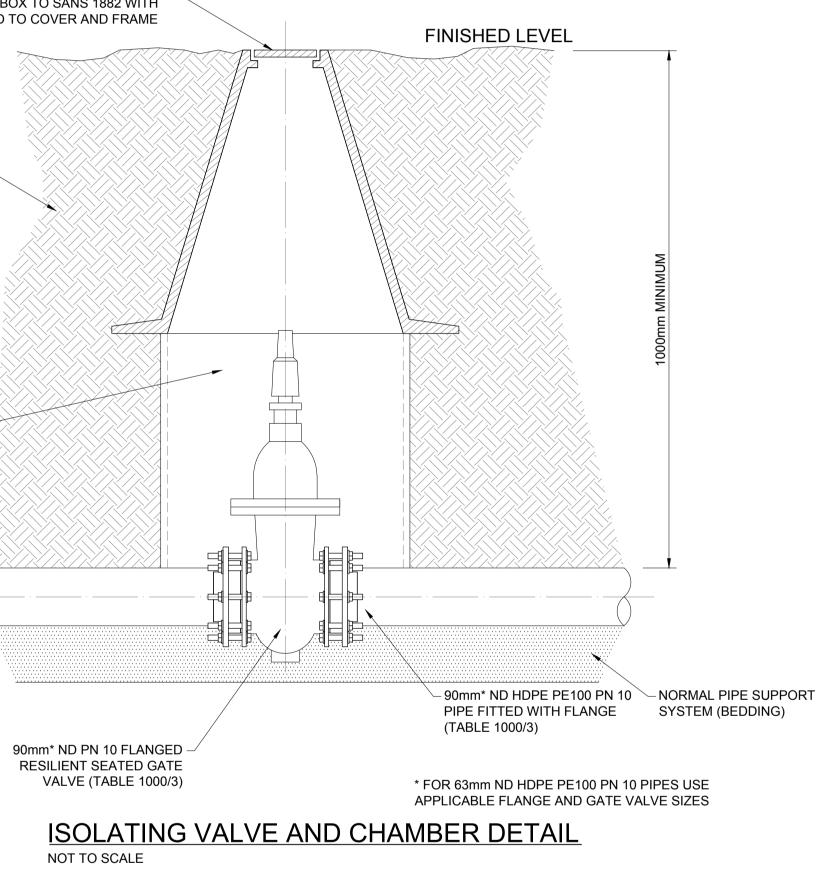
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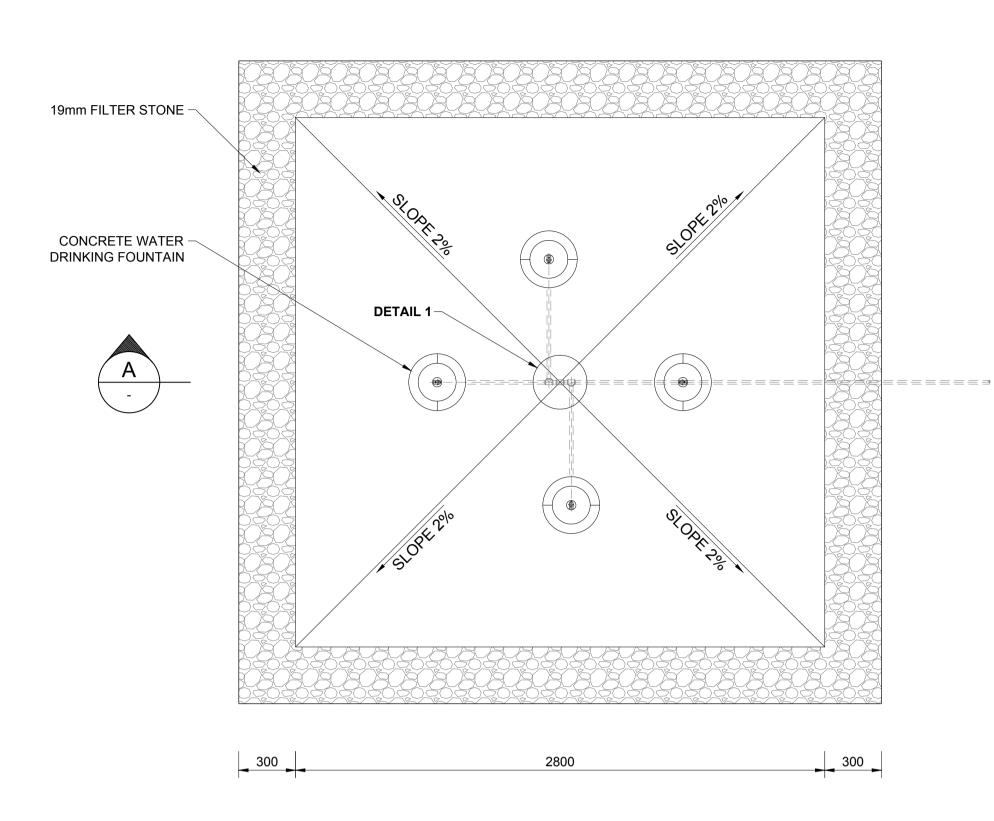
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| | REFERENCES | | SCALE F | OR REDUCED PLAN | 50 |
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| | WATER RETICULATION KEY PLAN | | | | |
| | WATER RETICULATION LAYOUT SHEET 1 OF 2 | | | | |
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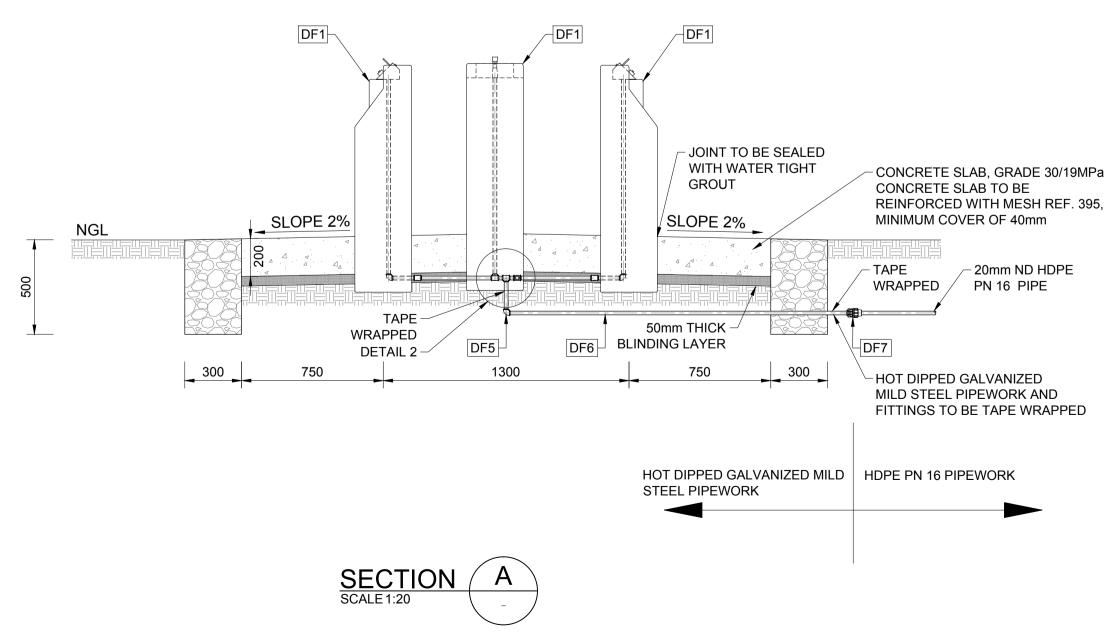
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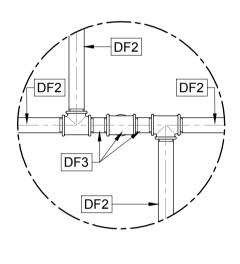
PLAN VIEW OF WATER DRINKING FOUNTAIN FOR COMMUNITY FACILITIES SCALE 1:20



Α -

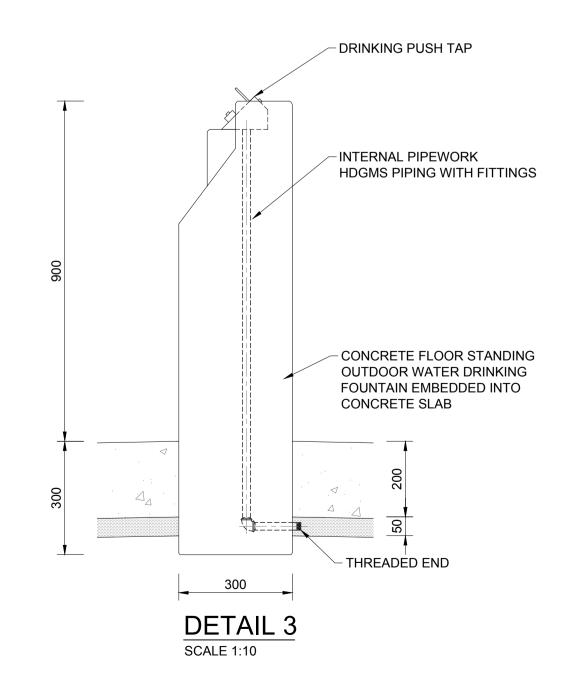
| | DRINKING FOUNTAIN DET | ۹IL | |
|-------------|--|---------|-----------------------------|
| ITEM No. | DESCRIPTION | QTY | PRESSURE RATING (BAR) |
| DF1 | CONCRETE FLOOR STANDING OUTDOOR DRINKING FOUNTAIN, COMPLETE WITH INTERNAL PIPEWORK AND DRINKING PUSH TAP (REFER TO DETAIL 3), EMBEDDED INTO CONCRETE SLAB | 4 | - |
| DF2 | 20mm ND HDGMS PIPE, 375mm LONG, THREADED AT BOTH ENDS | 4 | - |
| DF3 | 20mm ND HDGMS EQUAL T-PIECE | 3 | - |
| DF4 | 20mm ND HDGMS PIPE, 150mm LONG, THREADED BOTH ENDS | 1 | - |
| DF5 | 20mm ND HDGMS FEMALE THREADED BSP ELBOW | 1 | - |
| DF6 | 20mm ND HDGMS SUPPLY PIPE, THREADED AT BOTH ENDS, 1 800 mm LONG | 1 | - |
| DF7 | 20mm ND x $\frac{3}{4}$ " HDPE TO HDGMS FEMALE ADAPTOR | 1 | 16 |
| PL | EASE NOTE THAT 'HDGMS' STANDS FOR HOT DIPPED GALVAN | IZED MI | LD STEEL |

| FERENCES |
|---|
| DRAWING DESCRIPTION |
| COMMUNITY FACILITIES: SCHOOL: WATER AND SANITATION LAYOUT SHEET 1 OF 3 |
| COMMUNITY FACILITIES: COMMUNITY CENTRE: WATER AND SANITATION LAYOUT SHEET 1 OF 3 |
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| COMMUNITY FACILITIES: CLINIC: WATER AND SANITATION LAYOUT SHEET 1 OF 3 |
| COMMUNITY FACILITIES: MARKET: WATER AND SANITATION LAYOUT SHEET 1 OF 3 |
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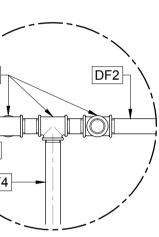
DETAIL 1 SCALE 1:5

DF2 DF4



/- 20mm ND HDPE WRAPPED / PN 16 PIPE

HOT DIPPED GALVANIZED MILD STEEL PIPEWORK AND FITTINGS TO BE TAPE WRAPPED



DETAIL 2 SCALE 1:5

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