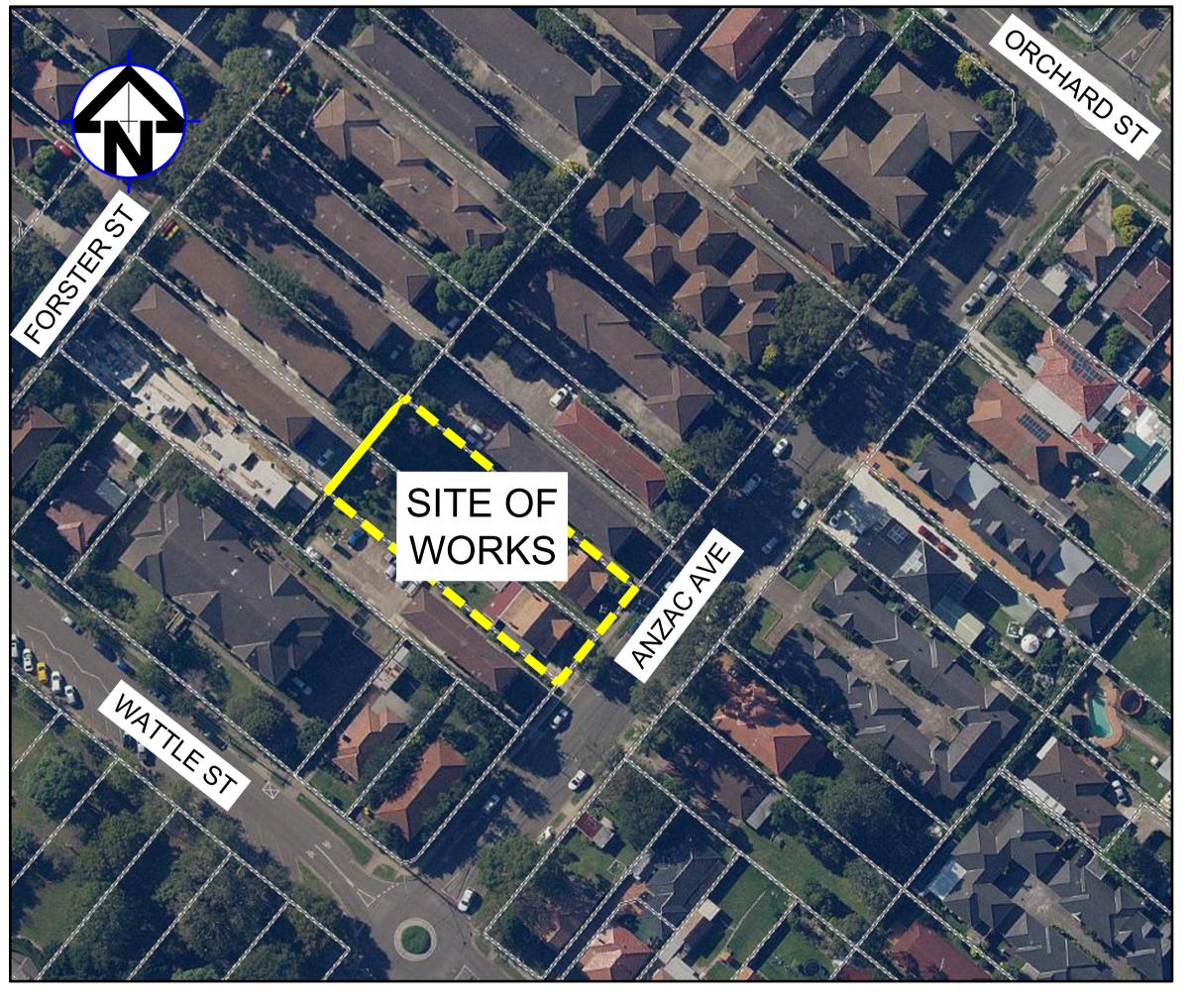
PROPOSED BOARDING HOUSE 85-87 ANZAC AVENUE, WEST RYDE **STORMWATER CONCEPT DESIGN**





PREPARED BY:

SGC Consulting Engineers Suite 5.03, Level 5 156 Pacific Highway St. Leonards, NSW 2065 T: +61 2 8883 4239 Email: office@sgce.com.au Web: www.sgce.com.au

LOCALITY PLAN NOT TO SCALE COPYRIGHT OF SIXMAP, VERSION

ARCHITECT:



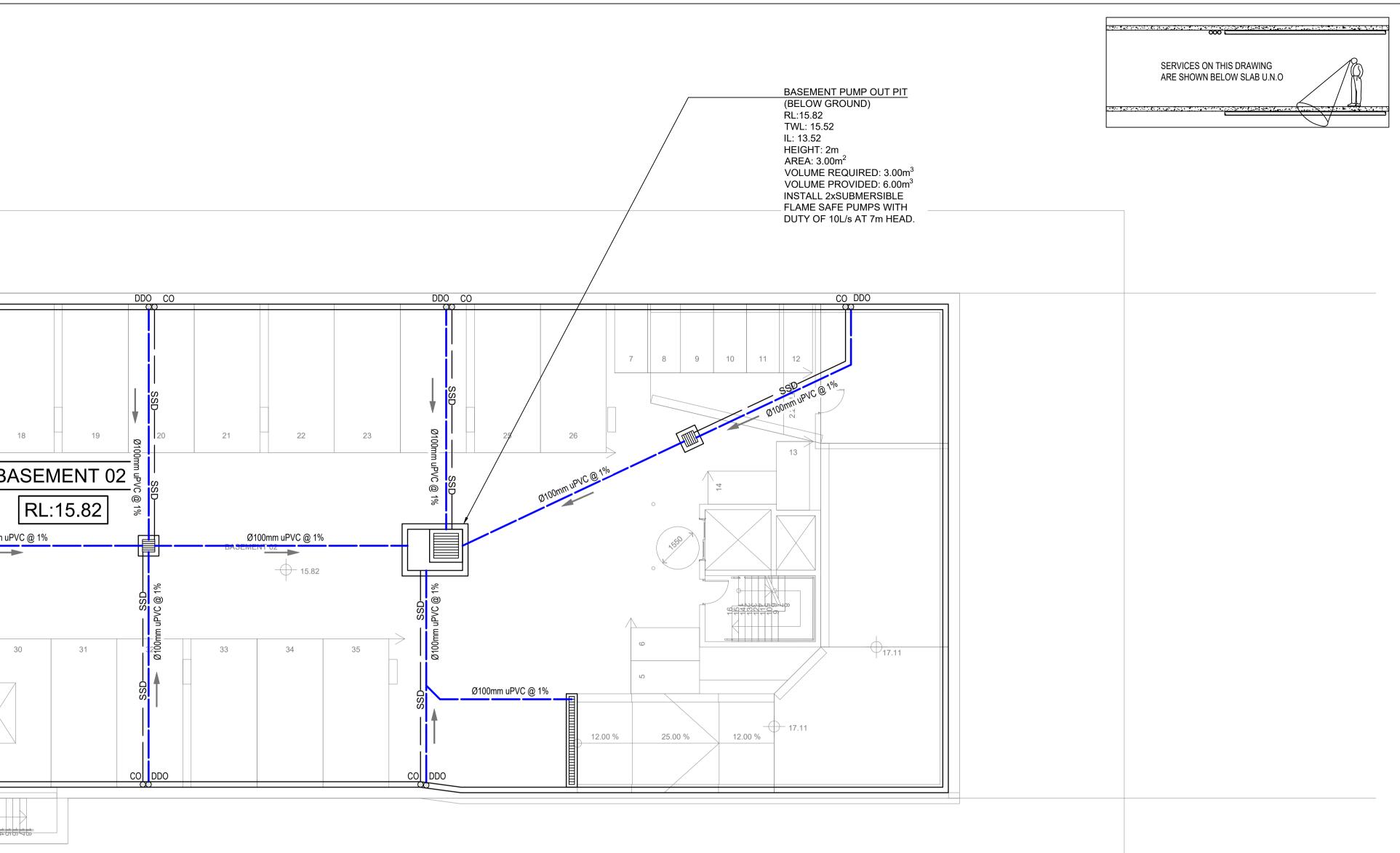
| | DRAWINGS LIST | | | | | | | |
|--------------|---------------|---|-----|--|--|--|--|--|
| SHEET No. | DWG No. | TITLE | REV | | | | | |
| 1 | SW100 | COVER SHEET | А | | | | | |
| 2 | SW200 | STORMWATER CONCEPT DESIGN - BASEMENT PLAN | А | | | | | |
| 3 | SW201 | STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN | А | | | | | |
| 4 | SW202 | STORMWATER CONCEPT DESIGN - ROOF PLAN | А | | | | | |
| 5 | SW300 | STORMWATER CONCEPT DESIGN - DETAILS SHEET | А | | | | | |

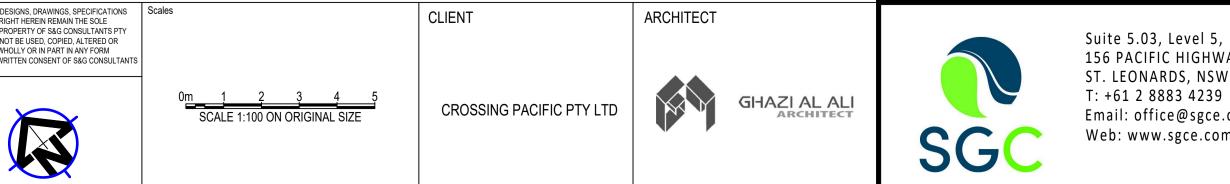
CLIENT:

CROSSING PACIFIC PTY LTD

| | | | | | | 13 | 14 SSD Ø100mr | 15 15 15 15 15 15 15 15 15 15 | 17 BA Ø100mm uP\ |
|---|--|---|----------------------------------|--|---|--|---------------------------------------|--|------------------------|
| - | | | | | | 27 | 28 | CO SSD M100mm uPVC @ 1% | |
| NOTE: NOMINTED PUMP TO BE ZE EQUIVALANT TO BE INSTAL MANUFACTURERS SPECIFIC ALL SUBSOIL DRAINAGE (SE DISH DRAIN OUTLETS (DDC | LED AS PER CATIONS. SD) TO BE 11 D) TO BE Ø10 | 00AG ANI 0mm U.N |) ALL | PUMP NOT All STORMWATER P ZONE 2 FLAME SAFE CONSULTANT'S REQ SURFACES ARE TO E INLET PIT (GSIP) AND 1% MIN. FOR UNCOV | UMPS TO BE TO ELECTRIC UIREMENTS. GRADI | NG NO | | | |
| PUMP-OUT PI INSTALL WITH THE FOLLOW - 900SQ HEAVY DUTY STEE AND MAINTENANCE PURPO -CONFINED SPACE SIGN AN PUBLIC AWARENESS AND W -STEP IRONS. REFER TO DI -PUMPOUT PIT CONTROL B MANUFACTURERS SPECIFI CONFIRMED WITH ARCHITE -PUMPS TO OPERATE IN AL INCREASE LIFESPAN -INSTALL VISIBLE FLASHING PUMP FAILURE -INSTALL DRN 300/2/65 A1D SOLUTIONS OR SIMILAR 3 F OUTFLOW FOR 7m HEAD | VING ITEMS: EL GRATED L DSES. BOVE PUMP WARNING. ETAILS. BOX (CTRL) T ICATIONS. LO ECT. LTERNATE M G LIGHT SYS | ID FOR A OUT PIT I OCATION: ODE TO | FOR S TO BE CASE OF TER | FOR COVERED AREA FOR COVERED AREA BASEMENT DRAINAG GEOTECHNICAL INVE DESIGN OF WALLS A IF EXCESSIVE GROU TABLE IS ENCOUNTE STORMWATER ENGIN REASSESS BASEMEN | AS PER AS28 INICAL E DESIGN SU ESTIGATION A ND SLABS. NDWATER SE RED DURING NEER IS TO B | ND AT 0.5% M 390. BJECT TO ND STRUCTU EPAGE OR W BULK EXCAV E NOTIFIED T | /IN. JRAL /ATER /ATION; O | | |

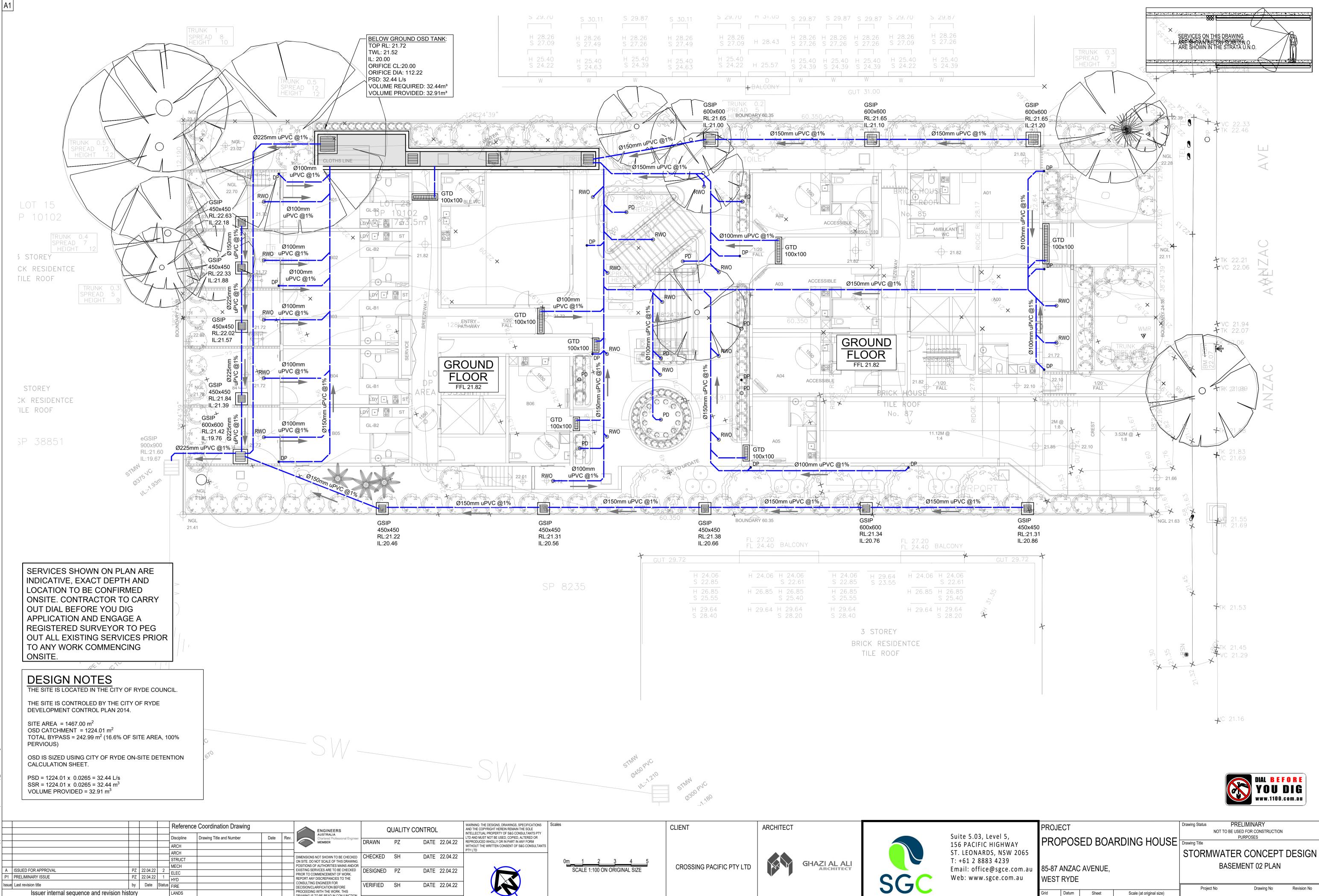
sCAD\bp_5SW2 SGC\AppData\Local A ISSUED FOR APPROVAL P1 PRELIMINARY ISSUE Issue Last revision title Issue 1-preliminary 4-tender A ISSUED FOR APPROVAL





| | | | | | - | | | |
|---------------|-------|--------|---------|--------------------------|----------------|-------|-------------|-------------|
| | PROJE | СТ | | | Drawing Status | | LIMINARY | |
| , | | DUC | | RDING HOUSE | | | JRPOSES | |
| NAY | FINO | F 00 | | | Drawing Title | | | |
| W 2065 | | | | | STORM | VATER | CONCEPT | DESIGN |
| e.com.au | 85-87 | ANZAC | AVENUE, | | | BASEM | ENT 02 PLAN | |
| om.au | WEST | RYDE | | | | | | |
| | | | | | Project N | 0 | Drawing No | Revision No |
| | Grid | Datum | Sheet | Scale (at original size) | | | ũ | _ |
| 1 118 222 530 | - | A.H.D. | 2 OF 5 | 1:100 @ A1 | 20220 | 028 | SW200 | A |





XREF's: CAD FIL

1-preliminary

4-tender

2-development application

5-construction

DRAWING IS TO BE READ IN CONJUNCTIO

WITH THE SPECIFICATIONS AND OTHER

CONSULTANTS' DRAWINGS.

APPROVED SH

DATE 22.04.22

CIVIL

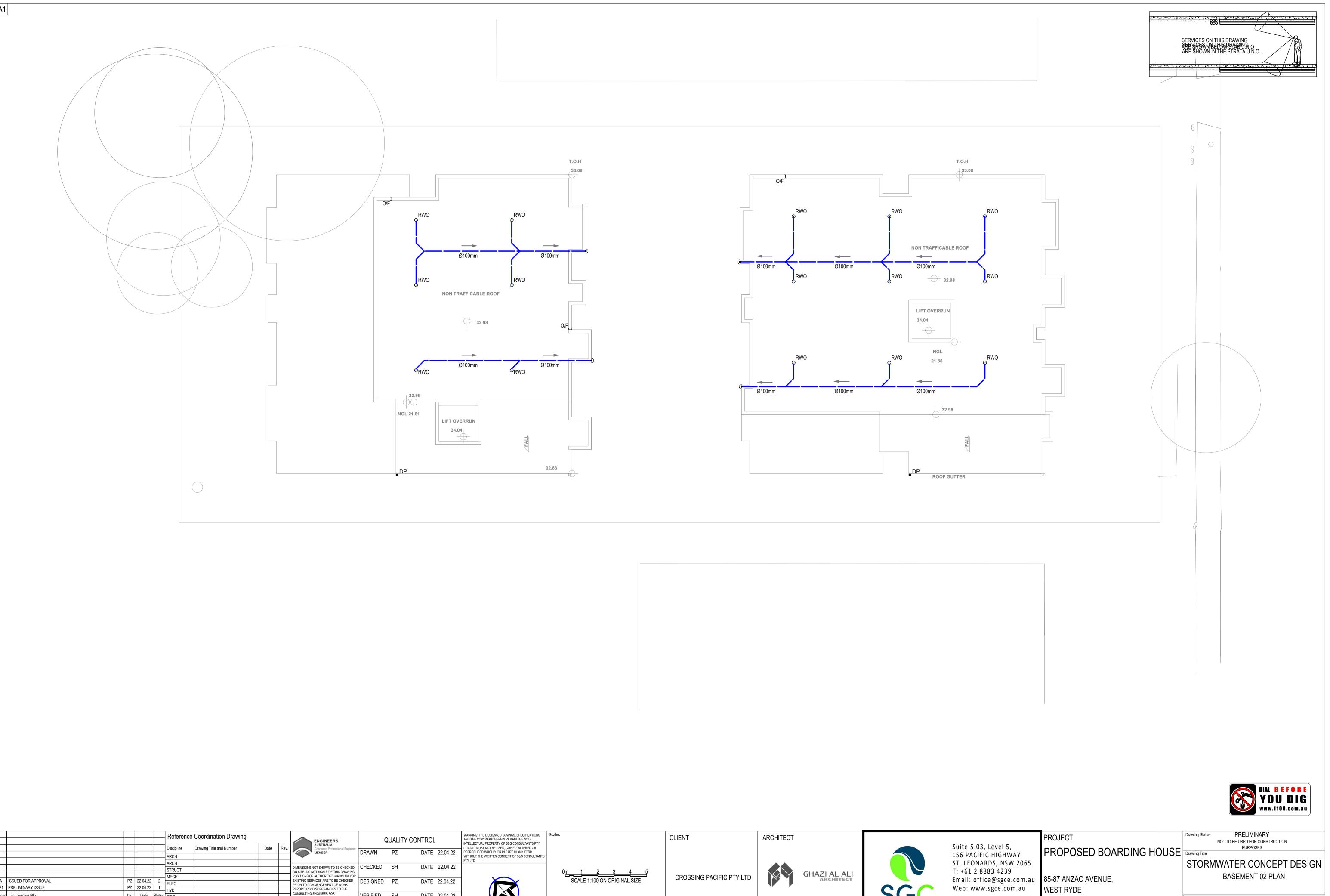
SURVEY

3-construction certificate

6-other

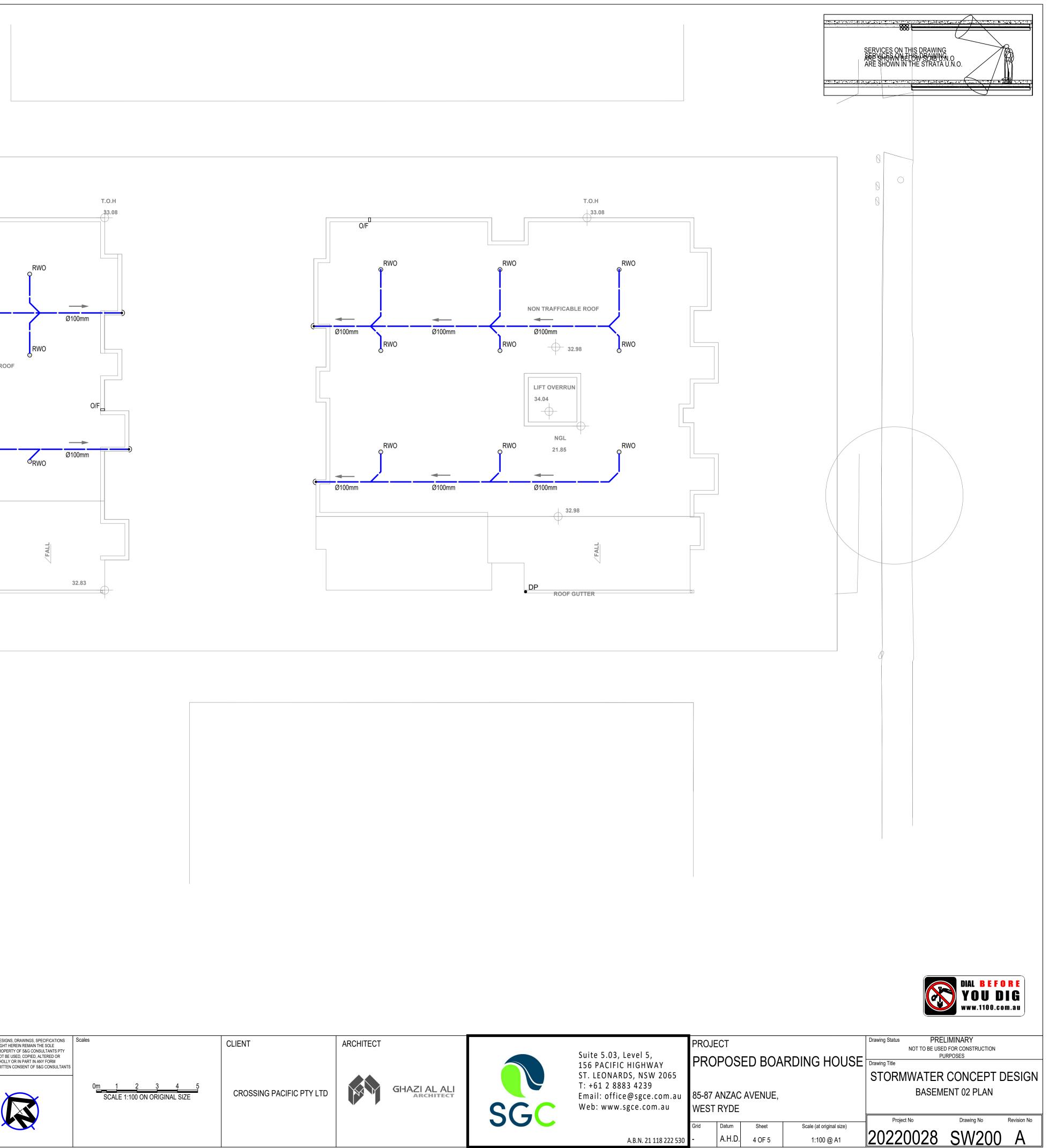
| 5, WAY 5W 2065 | proje PRO | | ED BOA | RDING HOUSE | Drawing Title | TO BE USEI PU | | DESIGN | |
|------------------------|-----------------|--------|---------|--------------------------|---|------------------|--------------|-------------|--|
| 9 e.com.au om.au | 85-87 / WEST | | AVENUE, | | STORMWATER CONCEPT DESIGN BASEMENT 02 PLAN | | | | |
| | Grid | Datum | Sheet | Scale (at original size) | Project No | 00 | Drawing No | Revision No | |
| 21 118 222 530 | - | A.H.D. | 3 OF 5 | 1:100 @ A1 | 202200 | 28 | <u>SW200</u> |) A | |





| XREF's: \$? CAD FILE: C:\Users\PeterSGC\AppData\Local\Temp\BricsCAD\bp_5SW20 源 ッ > | 5SW20 | |
|---|--------------------------|---|
| XREF's: \$? CAD FILE: C:\Users\PeterSGC\AppData\Loc [ᇙ 고) > | al\Temp\BricsCAD\bp_{ | |
| XREF's: \$? CAD FILE: C:\Users\PeterSGC\AppData\ 惑 [| Loc | |
| XREF's: \$? CAD FILE: C:\Users\PeterSGC\AppDa [] [] [] [] [] [] [] [] [] [] [] [] [] | ata/ | |
| XREF's: \$? CAD FILE: C:\Users\PeterSGC\Ap [종 ၂ > | ğ | |
| XREF's: \$? CAD FILE: C:\Users\PeterSGC 평 년 동 | Ap | |
| XREF's: \$? CAD FILE: C:\Users\PeterSo | С С | |
| XREF's: \$? CAD FILE: C:\Users\Pete 第 ਗ਼ ୭ | ŝrŝ | |
| XREF's: \$? CAD FILE: C:\Users\F 종 균 ୭ | bete | |
| XREF's: \$? CAD FILE: C:\Use 37 4 | rs/F | A |
| XREF's: \$? CAD FILE: C:\\ 37 | Jse | P |
| CAD FILES | C: | |
| | XREF's: \$' CAD FILE: | |

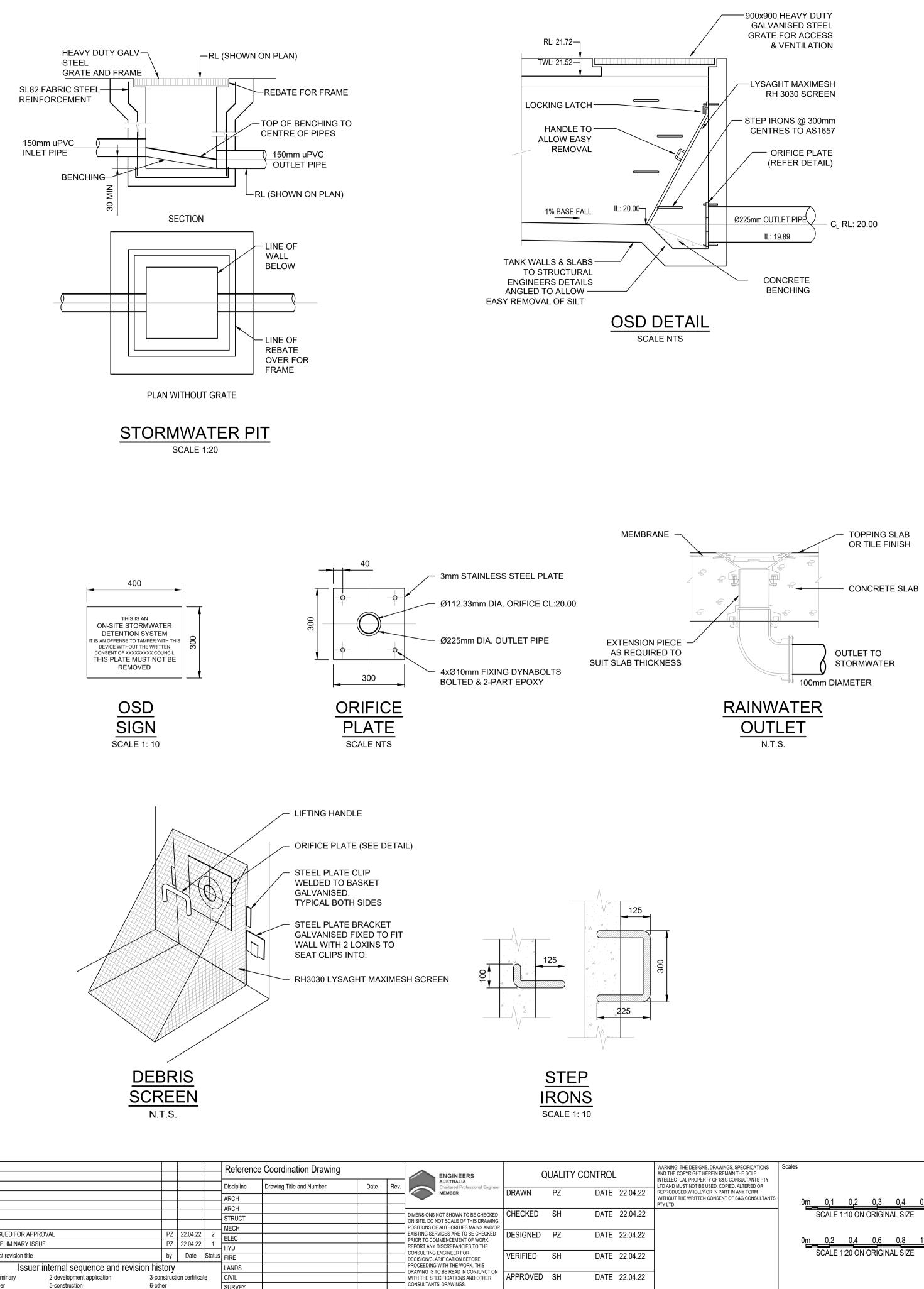
| | | | | | Reference | e Coordination Drawing | | - | ENGINEERS | G | UALITY | CONTROL | | WARNING: THE DESIGNS AND THE COPYRIGHT HE INTELLECTUAL PROPER |
|-------|--|-------|----------------|--------|----------------|--------------------------|------|-----|--|----------|--------|---------|----------|---|
| | | | | | Discipline | Drawing Title and Number | Date | Rev | AUSTRALIA Chartered Professional Engineer MEMBER | DRAWN | PZ | ΠΔΤΕ | 22.04.22 | LTD AND MUST NOT BE U |
| | | | | | ARCH | | | | | | 12 | DAIL | 22.04.22 | WITHOUT THE WRITTEN PTY LTD |
| | | | | | ARCH STRUCT | | | | DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING. | CHECKED | SH | DATE | 22.04.22 | |
| A | ISSUED FOR APPROVAL | PZ | 22.04.22 | 2 | MECH | | | | POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED | DESIGNED | PZ | DATE | 22.04.22 | |
| P1 | PRELIMINARY ISSUE | PZ | 22.04.22 | 1 | HYD | | | | PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE | | | | - | · · · · · · · · · · · · · · · · · · · |
| Issue | Last revision title | by | Date | Status | FIRE | | | | CONSULTING ENGINEER FOR DECISION/CLARIFICATION BEFORE | VERIFIED | SH | DATE | 22.04.22 | |
| | Issuer internal sequence and revision his | story | | | LANDS | | | | PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION | | | | | |
| | -preliminary 2-development application 3-col -tender 5-construction 6-oth | | tion certifica | ate | CIVIL | | | | WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS. | APPROVED | SH | DATE | 22.04.22 | |
| 4. | -נפוועפו ט-כטוואנועכנוטוז ט-טו | | | | SURVEY | | | | | | | | | |



A.H.D. 4 OF 5

1:100 @ A1





EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE

VERIFIED SH

APPROVED SH

CONSULTING ENGINEER FOR DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS

DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER

CONSULTANTS' DRAWINGS.

DATE 22.04.22

DATE 22.04.22

DATE 22.04.22

P1 PRELIMINARY ISSUE

Issuer internal sequence and revision history

6-other

SURVEY

2-development application

5-construction

DRAI

ALL PIPES 100mm AN MINIMUM 300mm

ALL DRAIN WITH RUE

BACKFILL HEAVY DU PIT GRATE

ALL PITS S

ALL PITS S

TOP OF B Ø100 SUB PROVIDED

COMPRES 20MPa AT

ISOLATED

ALL TREN STORMW REQUIRE

AUTH

- 1. IT IS PRIC FOU
- 2. ALL FEN
- 3. SMO AND
- 4. IT IS WAF ALL REQ
- 5. NO T WRI
- 6. THE PAVI MINI

| AINAGE NOTES: | | | LEGEND |
|--|--|-----------------|-----------------------------------|
| PES TO BE LAID ON 75mm SAND BED WITH THE | BARRELS FULLY SUPPORTED | | |
| AND 150mm DIAMETER PIPES TO BE LAID ON N | /INIMUM 1% GRADE | | |
| M DEPTH OF COVER FOR PIPES NOT SUBJECT | TO VEHICULAR LOADING TO BE | · · | EXISTING BOUNDARY |
| AINAGE PIPES LAID UNDER PAVEMENT SHALL UBBER RING JOINTS | BE REINFORCED CONCRETE | | STORMWATER LINE |
| LL TRENCHES WITH COMPACTED SAND OR AF | PROVED AGGREGATE MATERIAL | | STORMWATER LINE TO RAINWATER TANK |
| DUTY GRATES AND COVERS ARE TO BE PROV | IDED IN TRAFFICABLE AREAS | SSD | SUBSOIL LINE |
| ATE TO BE TYPE WELDLOK OR APPROVED EQU | JIVALENT | SWRM | STORMWATER RISING MAIN |
| S SHALL BE PROVIDED WITH A LOCKING CLIP | | HL HL | HIGH LEVEL STORMWATER LINE |
| S SHALL BE MAINTAINED REGULARLY | | | |
| BENCHING SHALL BE TO THE HALF OF THE O | UTLET PIPE DIAMETER | OF | OVERFLOW LINE |
| UBSOIL DRAINAGE PIPE 3000mm LONG WRAPP DED ADJACENT TO INLET PIPES | ED IN FABRIC SOCK TO BE | | GRATED SURFACE INLET PIT |
| ESSIVE STRENGTH fc FOR CAST IN SITU CONC AT 28 DAYS | CRETE TO BE A MINIMUM OF | | JUNCTION PIT |
| ED JOINTS TO BE PROVIDED TO ISOLATE CON | CRETE PAVEMENTS FROM PITS | | GRATED TRENCH DRAIN |
| ENCH GRATES PROVIDED SHALL HAVE A MINI | MUM CLEAR WIDTH OF 200mm | | OVERLAND FLOW PATH |
| WATER DRAINAGE CONNECTIONS TO THE MA REMENTS AND THE SATISFACTION OF LOCAL C | | ©RWO | RAINWATER OUTLET |
| | | oco | CLEAR OUT POINT |
| HORITY STORMWATER | <u>RNOTES:</u> | DDO Ø | DISH DRAIN OUTLET |
| IS THE CONTRACTOR'S RESPONSIBILITY TO C RIOR TO COMMENCEMENT OF WORKS AND TO | | PD Ø | PLANTER DRAIN |
| OUND TO THE SUPERINTENDANT. | | | CAP |
| LL SET OUT DIMENSIONS ARE TO FACE OF KE ENCE/BOLARD/PIPE. | RB, CENTERLINE OF | 1.01 | PIT TAG/NUMBER |
| MOOTH ALL TRANSITIONS BETWEEN NEW AND ND ALIGNMENT. |) EXISTING WORK IN BOTH LEVEL | © ^{RH} | RAINHEAD |
| IS THE CONTRACTOR'S RESPONSIBILITY TO F ARNING SIGNS, TRAFFIC DIVERSIONS AND TH LL WORKS TO COMPLY WITH OCCUPATIONAL | E LIKE DURING CONSTRUCTION. HEALTH AND SAFETY | ● | DOWNPIPE DROP |
| EQUIREMENTS AND OTHER RELEVANT AUTHO | | \boxtimes | NON RETURN VALVE |
| O TREES SHALL BE REMOVED, CUTBACK OR F /RITTEN INSTRUCTION FROM THE SUPERINTE | | × | WALL PENETRATION |
| HE CONTRACTOR SHALL PROVIDE CERTIFICA AVEMENT THICKNESS FROM A NATA REGISTE | RED TESTING AUTHORITY. | ● DP | DOWNPIPE |
| IINIMUM THREE TESTS PER LAYER AS FOLLOW PIPE BACKFILL SELECT FILL | DENSITY INDEX 75 95% STANDARD | | DOWNPIPE SPREADER |
| SELECT FILL (LESS THAN 300mm BELOW BASE COURSE) BASE COURSE | 98% MODIFIED 100% MODIFIED | | WARNING LIGHT |
| HE AUSPEC SPECIFICATION SHALL BE THE SP | ECIFICATION FOR THESE WORKS. | ◆ RL00.00 | SPOT LEVEL |
| | | × KSA.5A | EXISTING SPOT LEVEL |
| | | | ROOF OUTLINE |
| | | · · · · · · | BASEMENT OUTLINE |
| | | ·/// | FENCE LINE |
| | | | |
| | | | |

7. THE

| ENS, DRAWINGS, SPECIFICATIONS I HEREIN REMAIN THE SOLE ERTY OF S&G CONSULTANTS PTY 3E USED, COPIED, ALTERED OR LY OR IN PART IN ANY FORM EN CONSENT OF S&G CONSULTANTS | Scales 0m 0,1 0,2 0,3 0,4 0,5 SCALE 1:10 ON ORIGINAL SIZE 0m 0,2 0,4 0,6 0,8 1,0 SCALE 1:20 ON ORIGINAL SIZE SCALE 1:20 ON ORIGINAL SIZE 0 <td< td=""><td>CLIENT CROSSING PACIFIC PTY LTD</td><td>ARCHITECT</td><td>GHAZI AL ALI ARCHITECT</td><td>SGC</td><td>Suite 5.03, Level 5, 156 PACIFIC HIGHWAY ST. LEONARDS, NSW 2 T: +61 2 8883 4239 Email: office@sgce.co Web: www.sgce.com.</td></td<> | CLIENT CROSSING PACIFIC PTY LTD | ARCHITECT | GHAZI AL ALI ARCHITECT | SGC | Suite 5.03, Level 5, 156 PACIFIC HIGHWAY ST. LEONARDS, NSW 2 T: +61 2 8883 4239 Email: office@sgce.co Web: www.sgce.com. |
|---|--|------------------------------------|-----------|---------------------------|-----|---|
| | | | | | | |

| | 1 | | | | Drawing Status | DDE | LIMINARY | |
|---------------|-------|--------|---------|--------------------------|----------------|-----|--------------------|-------------|
| | PROJE | ECT | | | , ° | | D FOR CONSTRUCTION | |
| , | | | | | | | JRPOSES | |
| ŇAY | ΙΡΚΟ | POS | ED ROA | RDING HOUSE | Drawing Title | | | |
| W 2065 | | | | | | | | |
| 9 | | | | | | | | |
| e.com.au | 85-87 | ANZAC | AVENUE, | | | DET | AILS SHEET | |
| om.au | WEST | | | | | | | |
| | 0.11 | | | | Project No | | Drawing No | Revision No |
| | Grid | Datum | Sheet | Scale (at original size) | | 200 | 014/000 | • |
| 1 118 222 530 | - | A.H.D. | 5 OF 5 | AS SHOWN | 202200 |)28 | <u>SW300</u> | A |