

IF IN DOUBT ASK.

G2 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND ALL INFORMATION ISSUED BY THE SUPERINTENDENT DURING THE COURSE OF THE CONTRACT.

G3 ALL LEVELS ARE AHD DERIVED.

G4 CO-ORDINATES ARE LOCAL AS PER CROSS SOLUTIONS DETAIL SURVEY.

G5 ALL SET OUT SHALL BE AS PER ARCHITECTS DRAWINGS (UNO)

G6 ALL DIMENSIONS AND RADII ARE EXPRESSED IN METRES (UNO).

G7 DRAWINGS SHALL NOT BE SCALED.

G8 EXISTING CONTOURS, LEVELS AND FEATURES SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY AND ARE BASED ON SURVEY DRAWINGS AND DATA PROVIDED BY CROSS SOLUTIONS

G9 ALL DIMENSIONS RELEVANT TO SETTING OUT, SURFACE LEVELS AND INVERT LEVELS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE SUPERINTENDENT.

G10 THE CONTRACTOR SHALL ENSURE THAT ALL WORKS ARE MAINTAINED IN A SAFE AND STABLE CONDITION AND THAT ADEQUATE PROTECTION AGAINST EROSION AND SILTATION IS IN PLACE.

G11 WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT SAA STANDARDS AND THE REQUIREMENTS OF COUNCIL AND OTHER AUTHORITIES SHALL BE MAINTAINED.

G12 GRADE EVENLY BETWEEN LEVELS SHOWN EXCEPT WHERE LEVELS INDICATE VERTICAL CURVES.

G13 THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION PROTECTION AND SEDIMENT CONTROL FOR THE WORKS AS SPECIFIED AND TO THE SATISFACTION OF THE SUPERINTENDENT.

G14 CONFIRM ALL EXISTING LEVELS WHERE APPROPRIATE. IF LEVELS ARE DIFFERENT TO INDICATED CONFIRM COURSE OF ACTION WITH ENGINEER.

G15 ALL WORKS TO COMPLY WITH FNQROC STANDARDS AND DEVELOPMENT MANUAL.

C1 THE SITE SHALL BE CLEARED ONLY TO THE EXTENT NECESSARY TO PERMIT CONSTRUCTION OF THE PERMANENT  
WORKS U.N.O.

C2 AREAS TO BE USED FOR STOCKPILING EXCESS EXCAVATED MATERIALS SHALL BE CLEARED AND STRIPPED OF  
TOPSOIL AND OTHER UNSUITABLE MATERIAL.

C3 ALL ITEMS NOMINATED ON THE DRAWINGS TO BE REMOVED ARE TO BE DISPOSED OF OFF SITE. REMOVED  
VEGETATION IS TO HAVE ALL ROOTS GRUBBED OUT AND DISPOSED OF OFF SITE. ALL OFFSITE DISPOSAL IS AT  
CONTRACTORS EXPENSE.

C4 REFER TO THE LANDSCAPE PLAN FOR ALL TREES THAT ARE TO BE REMOVED AND DETAILS ON REMOVAL.

|     |                                                                                                                                |
|-----|--------------------------------------------------------------------------------------------------------------------------------|
| DC1 | TOPSOIL STOCKPILES ARE TO BE WATERED AND LIGHTLY COMPACTED TO ENSURE MINIMAL DUST DISTURBANCE PRIOR TO RESPREADING.            |
| DC2 | SITE TO BE KEPT MOIST AT ALL TIMES TO ENSURE DUST CONTROL.                                                                     |
| DC3 | UNCOMPLETED WORKS ARE TO BE WATERED AND ROLLED AT THE END OF EACH WORKING DAY TO ENSURE A FIRM SEALED SURFACE TO CONTROL DUST. |
| DC4 | HYDROSEEDING IS REQUIRED TO BE MAINTAINED THROUGH THE REMAINDER OF THE CONSTRUCTION PERIOD TO ENSURE DUST AND EROSION CONTROL. |
| DC5 | ALL OPEN DRAINS TO BE FULLY TURFED IMMEDIATELY UPON COMPLETION.                                                                |

|     |                                                                                                                                                                                                                                                                                                                                                                  |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SC1 | IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT THE SITE AND SURROUNDING AREAS FROM DAMAGE RESULTING FROM STORMWATER RUNOFF. TEMPORARY DIVERSION DRAINS AND OR OTHER DRAINAGE CONTROL DEVICES ARE TO BE IMPLEMENTED BY THE CONTRACTOR DURING CONSTRUCTION TO MINIMISE THE EFFECTS OF WEATHER.                                                                    |
| SC2 | CONTROL WILL BE VIA THE INSTALLATION OF SILT FENCING, CATCH DRAINS, HAYBALE BARRIERS AND SEDIMENT PONDS.                                                                                                                                                                                                                                                         |
| SC3 | TOPSOIL STOCK-PILES ARE TO BE LOCATED IN AREAS CLEAR OF SERVICING, WATERCOURSES, ROAD AND DRAINAGE WORKS AND PROVIDED WITH SILT FENCING ON THEIR DOWNSTREAM SIDE.                                                                                                                                                                                                |
| SC4 | DURING THE PROJECTS CONSTRUCTION, ALL PITS ARE TO BE BLOCKED OFF AT THE SURFACE AND RUNOFF FLOWS ARE TO BE DIRECTED TO THE SEDIMENT PONDS WHERE CONTAMINATED WATERS CAN BE TREATED UNTIL THE SURROUNDING LANDSCAPE HAS BEEN STABILISED TO THE SATISFACTION OF THE SITE SUPERINTENDENT. ONLY ON THE COMPLETION OF WORKS ARE THE SEDIMENT PONDS ARE TO BE REMOVED. |
| SC5 | REFER TO IPWEAQ STD DWG No. D-0040 AND D-0041 FOR FURTHER DETAILS.                                                                                                                                                                                                                                                                                               |
| SC6 | ALL BATTERS TO BE STABILISED WITHIN 10 DAYS OF COMPLETION OF BULK EARTHWORKS (eg. HYDROMULCHING, TURFING etc.).                                                                                                                                                                                                                                                  |
| SC7 | SURROUNDING CARRIAGEWAYS TO BE KEPT CLEAN OF ANY MATERIAL CARRIED ONTO ROADWAY BY CONSTRUCTION VEHICLES FROM SITE.                                                                                                                                                                                                                                               |
| SC8 | THE CONTRACTOR SHALL PROVIDE A STORMWATER MANAGEMENT PLAN FOR APPROVAL PRIOR TO STARTING WORKS.                                                                                                                                                                                                                                                                  |

A SOILS INVESTIGATION REPORT OF THE SITE HAS BEEN CARRIED OUT BY DOUGLAS PARTNERS. THE CONTRACTOR SHALL ALLOW FOR A REGISTERED GEOTECHNICAL CONSULTANT TO INSPECT THE SITE ONCE THE CLEARING, GRABBING AND DEMOLITION WORKS IS COMPLETED TO CONFIRM AN 'M' CLASS SITE IS ACHIEVED. BULK EARTHWORKS IS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF AS 3798 AND THE GEOTECHNICAL REPORT.

REMOVE ALL VEGETATION, ORGANIC TOPSOIL, AND OTHER DELETERIOUS MATERIAL AND DISPOSE OF ALL SUCH MATERIAL OFF SITE. EXCAVATE AND TRIM THE BUILDING OR PAVEMENT PLATFORMS AS REQUIRED. THE CONTRACTOR SHALL ALLOW TO REMOVE TOPSOIL AND REPLACE WITH COMPACTED ENGINEERED FILL UNDER ALL STRUCTURES, HARDSTANDS, ETC.

THE CONTRACTOR SHALL ALLOW TO PAY ALL ASSOCIATED COSTS TO ENGAGE AN APPROVED GEOTECHNICAL CONSULTANT TO CARRY OUT ALL INSPECTIONS, TESTING AND CERTIFICATIONS AS NECESSARY OF THE EARTHWORKS SHOWN IN THE DOCUMENTATION.

THE GEOTECHNICAL ENGINEER SHALL PROVIDE ALL SERVICES AS REQUIRED TO SATISFY LEVEL 1 SUPERVISION AS SPECIFIED IN AS3798. THE CONTRACTOR SHALL PROVIDE DETAILS OF ALL TESTING TO THE ENGINEER PROGRESSIVELY THROUGHOUT THE WORKS AND NOTIFY THE ENGINEER OF ANY NON CONFORMANCES. ALL NON CONFORMING WORK IS TO BE RECTIFIED AT THE CONTRACTOR'S EXPENSE. PROOF ROLL THE EXPOSED SUBGRADE IN THE PRESENCE OF A GEOTECHNICAL ENGINEER TO IDENTIFY ANY SOFT SPOTS. THESE AREAS MUST BE INSPECTED BY THE GEOTECHNICAL ENGINEER TO ASSESS EXTENT. SOFT SPOTS SHALL BE EXCAVATED AND REPLACED WITH SELECT GRANULAR BACKFILL COMPACTED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS TO COMPACTION AS NOTED. FOLLOWING THE COMPLETION OF THE EARTHWORKS AND INSTALLATION OF FOOTINGS AND SERVICES THE CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT SIGNED BY AN RPEQ STATING THAT ALL EARTHWORKS AND FOUNDATION MATERIAL SUPPORTING FOOTINGS COMPLIES WITH THE REQUIREMENTS OF THE DOCUMENTATION AND AS3798.

PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR IS TO IDENTIFY AND BE SATISFIED OF THE CORRECT LOCATIONS OF ALL EXISTING SERVICES WHETHER INDICATED OR NOT ON THE PLANS. ANY DAMAGE TO EXISTING SERVICES IS TO BE RECTIFIED AS SOON AS POSSIBLE AT THE CONTRACTORS EXPENSE.

FILL MATERIAL SHALL BE EITHER IMPORTED SELECT MATERIAL OR EXISTING EXCAVATED SOILS ( IF APPROVED BY THE GEOTECHNICAL ENGINEER & FREE OF ORGANIC MATERIAL). IMPORTED FILL MATERIAL SHALL BE LOW PLASTICITY, GRANULAR FILL HAVING THE FOLLOWING CHARACTERISTICS:-

- MINIMUM CBR 15%
- PLASTICITY INDEX <15%
- % PASSING 0.075mm SIEVE <25%

FILL MATERIAL SHALL BE COMPACTED IN MAXIMUM 200mm THICK LAYERS (COMPACTED THICKNESS) TO 98% STANDARD DRY DENSITY RATIO IN ACCORDANCE WITH AS1298 U.N.O.

FILL SHALL BE COMPACTED AND MAINTAINED AT MOISTURE CONTENTS AT PLACEMENT WITHIN THE RANGE OF PLUS 2% TO MINUS 2% OF STANDARD OPTIMUM MOISTURE CONTENT.

THE MINIMUM FREQUENCY OF TESTING FILL COMPACTION SHALL BE IN ACCORDANCE WITH TABLE 8.1 OF AS3798 FOR TYPE 2 EARTHWORKS AND TOWNSVILLE CITY COUNCIL REQUIREMENTS. WHICH EVER IS GREATER.

ALL EXCAVATED BATTERS AND FILL EMBANKMENTS ARE TO BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER.

REFER TO STRUCTURAL DRAWINGS FOR DETAILED EXCAVATION AND ALSO REFER TO ARCHITECT'S, LANDSCAPE ARCHITECT AND HYDRAULIC ENGINEER FOR OTHER REQUIREMENTS.

PRIOR TO COMMENCEMENT OF WORK CONFIRM ALL BULK EXCAVATION LEVELS WITH THE ARCHITECT. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT THE SITE AND SURROUNDING AREAS FROM DAMAGE RESULTING FROM STORMWATER RUNOFF. TEMPORARY DIVERSION DRAINS AND OR OTHER DRAINAGE CONTROL DEVICES ARE TO BE IMPLEMENTED BY THE CONTRACTOR DURING CONSTRUCTION TO MINIMISE THE EFFECTS OF WEATHER.

ALL DISTURBED AREAS SHALL BE GRASSED AS A MINIMUM. REFER TO ARCHITECT AND LANDSCAPE ARCHITECT DRAWINGS .

D1 STORMWATER DRAINAGE PIPES SHALL BE RCP-CLASS 4 RRJ WITH APPROVED NO-FINES COLLARS.  
D2 BEDDING SHALL BE TYPE HS2 AS SPECIFIED IN AS3725.  
D3 PIPELAYING SHALL COMMENCE AT THE DOWNSTREAM END OF THE WORKS AT ALL TIMES.  
D4 GRADE PIPES AT 1% MINIMUM U.N.O.  
D5 STORMWATER PITS SHALL BE IN ACCORDANCE WITH IPWEAQ STANDARDS DRAWINGS.  
D6 ALL FINISHED SURFACE LEVELS ARE BASED ON INVERT OF CHANNEL LEVEL.  
D7 PIPELAYING SHALL COMMENCE AT THE DOWNSTREAM END OF THE WORKS AT ALL TIMES.  
D8 OUTLETS TO KERBS AND CONNECTIONS TO EXISTING PITS AND PIPES SHALL BE FULLY GROUTED AND FINISHED NEATLY AND EVENLY.

## ENERGY SERVICE PROVIDERS



AGL



origin



ERON  
ENERGY



energenx

NOTE: SERVICE LOCATIONS ARE APPROXIMATE ONLY FROM PROVIDERS PLANS. LOCATIONS ARE TO BE CONFIRMED PRIOR TO START OF CONSTRUCTION. PHONE DBYD SERVICE LOCATIONS ON **1100** FOR DETAILS.

**DIAL**  
BEFORE YOU DIG



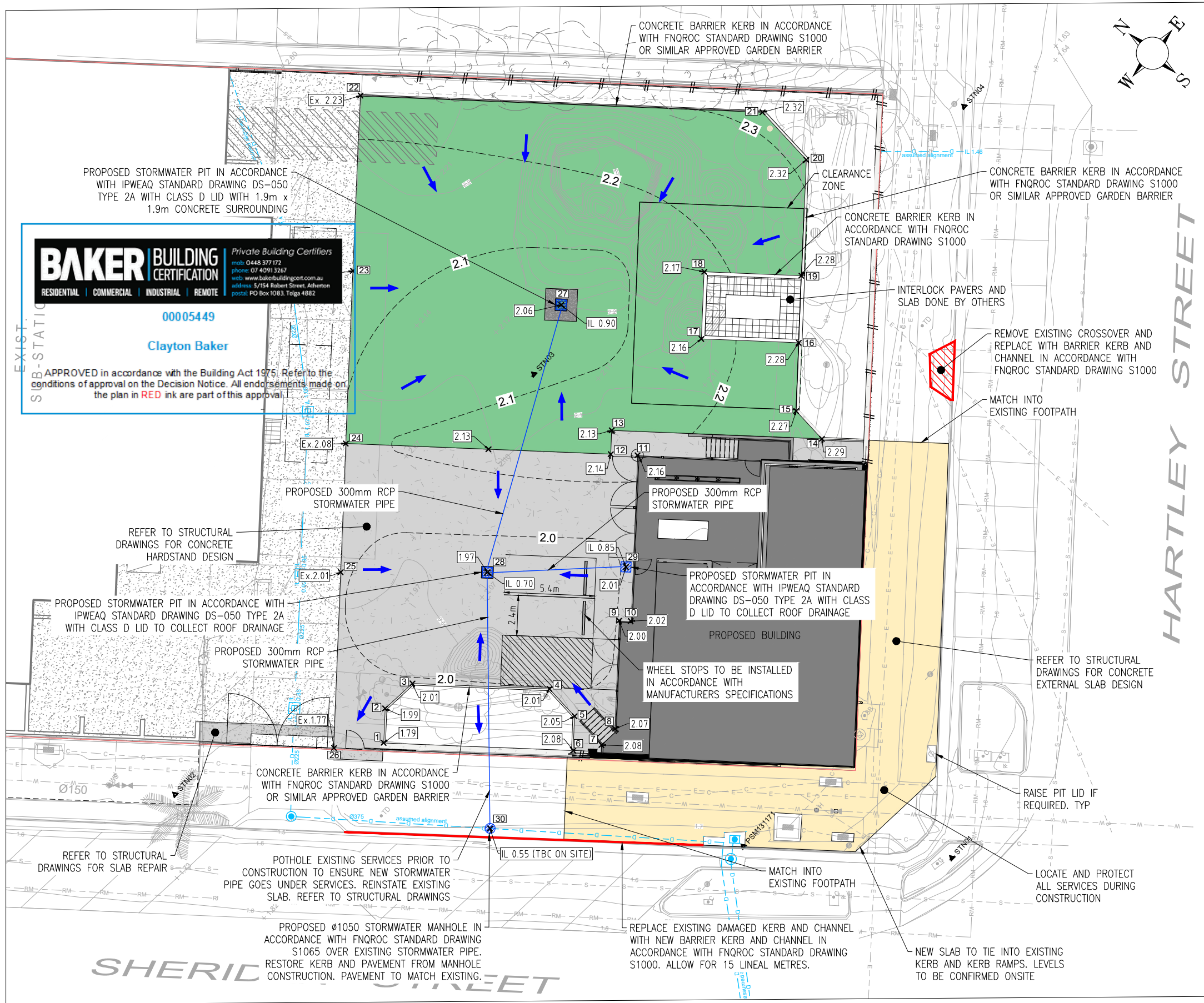
## **SERVICE LOCATIONS**

It is the responsibility of the Foreman to contact the relevant service authorities to ascertain the exact location of services prior to construction.

**SAFETY IN CONSTRUCTION**

CONSTRUCTION ACTIVITY CAN BE HAZARDOUS. POTENTIAL SAFETY HAZARDS CONSIDERED BY THE DESIGNERS TO HAVE A HIGHER RISK THAN NORMAL CONSTRUCTION ACTIVITY ARE IDENTIFIED WITH APPROPRIATE NOTES ON THESE DRAWINGS. IT SHOULD BE NOTED THAT DESIGNERS HAVE A LOWER UNDERSTANDING OF THE RISKS INVOLVED IN CONSTRUCTION COMPARED WITH THAT OF A COMPETENT CONTRACTOR. IT IS THEREFORE ESSENTIAL THAT AN ADEQUATE SAFETY PLAN FOR THE WORKS IS PREPARED BY THE CONTRACTOR. SAFETY PLANS ARE TO BE PREPARED IN COMPLIANCE WITH THE STATUTORY REQUIREMENTS. THE DESIGNERS MAY NOT BE AWARE OF ALL SAFETY RISKS AND HAZARDS INVOLVED IN THIS PROJECT AND THE ABSENCE OF COMMENT DOES NOT IMPLY THAT THERE ARE ONLY LOW LEVEL RISKS OF HAZARDS INVOLVED IN THE PROJECT. APPROPRIATE WORK METHOD STATEMENTS ARE TO BE PREPARED FOR ANY HIGH RISK ACTIVITY BY THE CONTRACTOR. THE DESIGNERS ARE AVAILABLE TO BE CONSULTED WHEN REQUIRED CONCERNING THEIR AREA OF CONTROL WITH REGARD TO SAFETY PLANS.

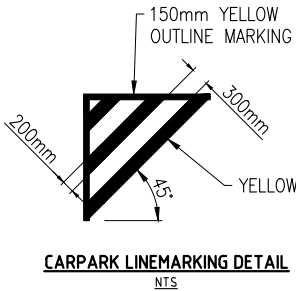
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LEGEND

- EXISTING CONCRETE DRIVEWAY
- PROPOSED CONCRETE HARDSTAND (REFER STRUCTURAL DRAWINGS)
- EXISTING TURNAROUND AREA TO REMAIN
- PROPOSED BUILDING
- PROPOSED CONCRETE EXTERNAL SLAB (REFER STRUCTURAL DRAWINGS)
- EXISTING WATER SERVICE
- EXISTING SEWER LINE
- EXISTING RISING MAIN
- EXISTING DRAINAGE SERVICE
- EXISTING ELECTRICAL SERVICE
- EXISTING TELECOMMUNICATIONS SERVICE
- PROPERTY BOUNDARY
- EXISTING CONTOUR LINE
- DESIGN CONTOUR LINE
- PROPOSED DRAINAGE PIPES AND PIT
- SETOUT POINT NUMBER
- STORMWATER OVERLAND FLOW DIRECTION
- DESIGN SURFACE LEVEL
- STORMWATER DRAINAGE INVERT LEVEL

| SETOUT POINTS |            |             |
|---------------|------------|-------------|
| PT No.        | EASTING    | NORTHING    |
| 1             | 369731.555 | 8128125.158 |
| 2             | 369733.129 | 8128126.464 |
| 3             | 369735.328 | 8128126.253 |
| 4             | 369740.548 | 8128119.961 |
| 5             | 369740.343 | 8128117.764 |
| 6             | 369738.773 | 8128116.446 |
| 7             | 369740.166 | 8128115.418 |
| 8             | 369741.402 | 8128115.474 |
| 9             | 369746.348 | 8128119.610 |
| 10            | 369746.795 | 8128119.071 |
| 11            | 369754.407 | 8128125.385 |
| 12            | 369753.392 | 8128126.609 |
| 13            | 369754.483 | 8128127.514 |
| 14            | 369762.488 | 8128117.864 |
| 15            | 369762.698 | 8128120.114 |
| 16            | 369765.822 | 8128122.722 |
| 17            | 369762.119 | 8128127.189 |
| 18            | 369765.203 | 8128129.733 |
| 19            | 369768.900 | 8128125.276 |
| 20            | 369774.231 | 8128129.682 |
| 21            | 369774.589 | 8128133.514 |
| 22            | 369759.310 | 8128151.993 |
| 23            | 369751.232 | 8128145.332 |
| 24            | 369743.304 | 8128138.769 |
| 25            | 369737.401 | 8128133.866 |
| 26            | 369729.347 | 8128127.156 |
| 27            | 369758.031 | 8128134.757 |
| 28            | 369743.243 | 8128127.363 |
| 29            | 369749.006 | 8128121.437 |
| 30            | 369732.001 | 8128117.032 |



| Rev. | Date     | Description      | Des. | Verif. | Appd. |
|------|----------|------------------|------|--------|-------|
| 1    | 30.01.23 | FOR CONSTRUCTION | AR   | BL     | ML    |



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|          |    |      |          |
|----------|----|------|----------|
| Drawn    | AR | Date | 14.10.22 |
| Checked  | GS | Date | 14.10.22 |
| Designed | AR | Date | 14.10.22 |
| Verified | BL | Date | 14.10.22 |
| Approved |    | Date |          |

Client **ENERGY QUEENSLAND LIMITED (EQL)**  
Project **CAIRNS CITY OTHF**  
**38 HARTLEY STREET, CAIRNS CITY QLD 4870**  
**LOT 2 ON RP738082**  
Title **CIVIL WORKS PLAN**

|                |                         |      |       |          |
|----------------|-------------------------|------|-------|----------|
| Status         | <b>FOR CONSTRUCTION</b> |      |       |          |
| Datum          | AHD                     | Date | Scale | AS SHOWN |
| Drawing Number | Q22035-CI-02            |      |       | Revision |
|                |                         |      |       | 1        |