



KEY

- SITE BOUNDARY
- EXPOSED BRICKWORK
- RETAINED HEIGHT
- RETAINED HIGHWAY
- EXISTING EXTERIOR STAIRS
- MAJOR CONTOUR
- MINOR CONTOUR
- PROPOSED ORIENT
- EXTENDING LEVELS
- PROPOSED SUDS FEATURE
- EXISTING ADOPTED SURFACE WATER
- EXISTING ADOPTED FOUL WATER
- PROPOSED ADOPTED SURFACE WATER
- PROPOSED ADOPTED FOUL WATER
- PROPOSED ADOPTED HIGHWAY DRAIN
- PROPOSED EASEMENT
- PROPOSED FLOW CONTROL
- PROPOSED CATCHPIT
- PROPOSED ADOPTED HIGHWAY GULLY
- PROPOSED PRIVATE SURFACE WATER
- PROPOSED PRIVATE PERMEABLE DRAINING GULLY
- PROPOSED PRIVATE FLOW WATER PIP
- PROPOSED PRIVATE SW ACCESS CHAMBER (3000)
- PROPOSED 0.3M CATCHPIT
- DRAINAGE CHANNEL
- PROPOSED PRIVATE FOUL WATER
- PROPOSED PRIVATE FOUL WATER PIP
- PROPOSED PRIVATE SW ACCESS CHAMBER (3000)

- ADDITIONAL HEALTH & SAFETY NOTES**
- CONTRACTOR SHALL BE AWARE OF GENERAL CONSTRUCTION RISKS TO PREVENT SLIPS, TRIPS AND FALLS AND TAKE NECESSARY PRECAUTIONS WITHOUT SPECIAL INSTRUCTION.
 - CONTRACTOR TO PROVIDE TRENCH SUPPORTS AS APPROPRIATE AND ENSURE THAT PLANT REMAINS A SAFE DISTANCE FROM TRENCHES PRIOR TO INSTALLING DRAINAGE.
 - THE THAT EXCAVATIONS ARE OPEN IN SITE SHOULD BE KEPT TO A MINIMUM AND ALL TRENCHES SHOULD BE SURROUNDED BY A BARRIER.
 - CONTRACTOR TO ENSURE THAT EXISTING SERVICES ARE NOT DAMAGED BY ANY WORKS.
 - CONTRACTOR TO MAKE SURE THAT ALL WORKERS ARE AWARE OF ASSOCIATED DANGERS TO HEALTH SUCH AS FACILITIES AND PROTECTIVE CLOTHING TO BE PROVIDED AS REQUIRED.
 - OPEN TRENCHES MUST BE COVERED WITH LOAD BEARING MATERIALS AND SURROUNDED WITH BARRIER.
- PREREQUISITES**
- CONTRACTOR TO OBTAIN ALL SERVICE RECORDS PRIOR TO WORK COMMENCING.
 - SERVICE RECORDS TO BE RETURNED TO PRIOR TO WORK COMMENCING. CONTRACTOR TO PROCEED WITH CAUTION AND SERVICES TO BE LOCATED BY HAND DIG AND PROTECTED ACCORDINGLY.
- DETAILED NOTES**
- CONTRACTOR TO ENSURE RELEVANT MEASURES ARE TAKEN TO KEEP PLANT AND PEOPLE A SAFE DISTANCE FROM STEEP SLOPES DURING THE WORKS.
 - CONTRACTOR TO ENSURE THAT PROCEDURES ARE IN PLACE TO KEEP PLANT AND PEOPLE A SAFE DISTANCE FROM WORKING PLANT WHERE NECESSARY.
 - CONTRACTOR TO REFER TO DRAINAGE INVESTIGATION REPORT FOR CONTAMINATION TESTS AND TO PROVIDE ADEQUATE WASTE FACILITIES AND PROTECTIVE CLOTHING AS REQUIRED.
- DRAINAGE NOTES**
- ALL PIPES 1000 UNLESS OTHERWISE STATED.
 - ALL PRIVATE TO ADOPTABLE CONNECTIONS FOR UNLESS OTHERWISE STATED.
 - ALL PIPES IN TRAFFICED AREAS TO HAVE SAND COVERS CONCRETE SURROUND.
 - ALL INTERNAL PLUT DRAINAGE REQUIRES COMPLIANCE WITH THE CONSTRUCTION INFORMATION WHEN FEELING IN THE CONSTRUCTION DESIGN & MANAGEMENT REGULATIONS.
 - A CONTEMPORARY CONTRACTOR SHOULD BE AWARE OF NORMAL. WORK INVOLVING THE CONSTRUCTION PHASES. HOWEVER ADDITIONAL PRECAUTIONS WILL NEED TO BE CONSIDERED FOR THE FOLLOWING ITEMS:
 - SAFE METHODS AND SYSTEMS OF WORK REMAIN THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE IDENTIFIED IN THE CONSTRUCTION PHASE PLAN. THE CONSTRUCTION PHASE PLAN MUST BE IN PLACE PRIOR TO THE START OF ANY MOBILIZATION OR SITE WORKS.
 - RESIDUAL RISKS THAT HAVE BEEN IDENTIFIED AND CANNOT BE REDUCED BY ARE AS FOLLOWS:
 - A) NONE IDENTIFIED.
 - B) IF ANY PARTY USING THE DRAWING CONSIDERS THAT THERE ARE ADDITIONAL RISKS THAT HAVE NOT BEEN IDENTIFIED ABOVE, THEN THE ENGINEER SHOULD BE NOTIFIED.
- DESIGN NOTES**
- ALL WORKS TO COMPLY WITH CURRENT VERSION OF THE FOLLOWING DOCUMENTS:
 - DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)
 - SPECIFICATION FOR HIGHWAY WORKS (SPEL)
 - LOCAL AUTHORITY DESIGN GUIDE AND SPECIFICATION
 - PRIOR TO COMMENCING WORKS THE CONTRACTOR SHOULD INVESTIGATE AND LOCATE AS NECESSARY ANY STATUTORY UNDERGROUND EQUIPMENT WITHIN THE NEW ACCESS AND DISCUSS REQUIREMENTS FOR LOWERING/RELOCATION AND PROTECTION WITH THE LOCAL AUTHORITY.
 - ALL WORKS WITHIN THE PUBLIC HIGHWAY TO MEET LOCAL AUTHORITY REQUIREMENTS.
 - CONTRACTOR TO APPLY FOR ROAD OPENING NOTICES TO THE LOCAL AUTHORITY PRIOR TO WORK COMMENCING.
 - CONTRACTOR TO ALLOW FOR ADEQUATE TIME TO BE UNDERTAKEN IN AGREEMENT WITH LOCAL AUTHORITY HIGHWAY ENGINEER PRIOR TO WORK COMMENCING.
 - PROPOSED LEVELS HAVE BEEN BASED ON THE EXISTING TOPOGRAPHICAL SURVEY PROVIDED BY THE CLIENT.
 - PROPOSED DRAWING BASED ON THE LATEST ARCHITECTURAL LAYOUT PROVIDED BY THE CLIENT.
 - PROPOSED DRAWING SHALL BE IN A HIGH RESOLUTION. A GEOTECHNICAL ENGINEER TO BE CONTACTED TO CONFIRM REQUIREMENTS.
- DRAINAGE NOTES**
- ALL ADOPTABLE DRAINAGE WORKS AND MATERIALS TO BE IN ACCORDANCE WITH CODE FOR ADOPTABLE DRAINAGE WORKS AND MATERIALS (CDAWM) AND THE LOCAL AUTHORITY'S STANDARDS/REQUIREMENTS/ADDITIONAL TO THE MECHANICAL AND ELECTRICAL SPECIFICATION (M&E) AND THE LOCAL AUTHORITY'S STANDARDS/REQUIREMENTS/ADDITIONAL TO THE MECHANICAL AND ELECTRICAL SPECIFICATION (M&E).
 - MANHOLE COVERS SHALL HAVE A CLEAR OPENING OF 600MM AND SHALL BE CLASS 2 OR 3 IN ENDS WITH TONGUE AND GROOVE JOINTS AND BE SURROUNDED BY A 150MM DEEP CURB VALVE NOT AVAILABLE. ROAD CONSTRUCTION DETAIL. SUBJECT TO CONFIRMATION OF CDAWM VALUES. CONTRACTOR TO ALLOW FOR ADEQUATE TIME TO BE UNDERTAKEN IN AGREEMENT WITH LOCAL AUTHORITY HIGHWAY ENGINEER PRIOR TO WORK COMMENCING.
 - PROPOSED LEVELS HAVE BEEN BASED ON THE EXISTING TOPOGRAPHICAL SURVEY PROVIDED BY THE CLIENT.
 - PROPOSED DRAWING BASED ON THE LATEST ARCHITECTURAL LAYOUT PROVIDED BY THE CLIENT.
 - PROPOSED DRAWING SHALL BE IN A HIGH RESOLUTION. A GEOTECHNICAL ENGINEER TO BE CONTACTED TO CONFIRM REQUIREMENTS.

SUBJECT TO LOCAL AUTHORITY & WATER AUTHORITY APPROVAL

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHK	REV
1	24/03/2024	ISSUE	NA	AL	01

SCHEMATIC

RWO Civil Structures Geoenvironmental

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CLIENT: GLEESON HOMES

PROJECT: HARRAS MOOR WHITEHAVEN

TITLE: ENGINEERING LAYOUT SHEET 3 OF 8

PROJECT No: 24339 DISCIPLINE: CIVIL SCALE: @ AO 1:250

DRAWING No: 24339-RWO-XX-XX-DR-C-0006

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