RISK ASSESSMENT

EXISTING SERVICES:

NO DETAILS RECEIVED FROM CLIENT SITE BELIVED TO BE FREE FROM SERVICES OTHER THAN IN THE FOOTWAYS AND CARRIAGEWAYS AT THE SITE ENTRANCE. THE POTENTIAL AREA FOR CONFLICT IS THEREFORE THE CONSTRUCTION OF THE ROAD ACCESS AND OUTFALL SEWERS WHICH MAY INTERFERE WITH UTILITY PIPES- RISK OF ELECTROCUTION, RISK OF EXPLOSION, RISK OF FLOOD.

EXISTING GROUND CONDITIONS:

In general, the exploratory holes at the site encountered topsoil overlying clayey sand, silty sand or sandy clay. Those were recorded to be overlying medium dense silty sand or soft silty/sandy clay or soft sandy clayey silt. A band of peat was encountered as well between 7m and 9.30m bwgl. Peat in turn is underlain by stiff to very stiff clay

Groundwater / perched groundwater levels at the site are likely to be subject to seasonal variations associated with rainfall etc. Based on the above, it is considered unlikely that dewatering or other forms of water management will be required for shallow short-term excavations across the majority of the site.

GASSING -Methane present in the deep peat becoming less obvious in higher horizons

TRENCH STABILITY - Variable to poor subject to water ingress

CONTAMINATION - No specific precautions identified

SITE WIDE ELEMENTS

THE WORKS ARE NOT WITHIN THE IMMEDIATE PROXIMITY OF SHOPS SCHOOLS OTHER COMMUNITY FACILITIES BUT ARE IN PROXIMITY TO OTHER OCCUPIED DWELLINGS ON THE SURROUNDING ROADS>

SEWERS / DRAINS - PUBLIC SEWERS EXIST IN THE ROAD NETWORK SURROUNDING THE SITE

HIGHWAYS - THE SITE GAINS ACCESS ONLY FROM YORK GARDENS

TOPOGRAPHY - THE SITE IS FLAT. A LARGE DEEP DITCH IS PRESENT ALONG THE SITES NORTHERN BOUNDARY AND REPRESENTS A FALL FROM HEIGHT RISK

RISK TO EXISTING STRUCTURES - NO STRUCTURES AT RISK OF UNDER CUTTING FROM ROAD AND SEWER WORKS

ADDITIONAL RISKS -
THE SITE HAS MANY LARGE MATURE TREES WHICH COULD FORM POTENTIAL FALL HAZARDS IF THEIR ROOT SYSTEMS ARE INTERFERED WITH OR EXCAVATIONS REMOVE GROUND SUPPORT.

IDENTIFIED UNAVOIDABLE HAZARDS OR WORK SEQUENCES:

CONTACT WITH LIVE UTILITY SERVICES DURING ACCESS CONSTRUCTION AND OUTFALL SEWER CONSTRUCTION.

PLANT AND DELIVERY MOVEMENTS ON SITE AND WITHIN CONSTRAINED SITE ACCESS AREA.

THE GENERAL TRAFFIC LEVEL ON THE ADJACENT ROADS, AND THE EXTENT TO WHICH TURNING CONSTRUCTION PLANT MAY CAUSE INCREASED ACCIDENT POTENTIAL.

ADVERSE TOPOGRAPHY- RISKS TO PLANT AND MATERIAL STABILITY.

WATER INGRESS INTO EXCAVATIONS FROM PERCHED LENSES.

TRENCH SUPPORT ADEQUATE TO DEAL WITH EXCAVATIONS THROUGH MADE GROUND AND VARIABLE SOIL PROFILES.

TRENCH CONTROL REQUIRED TO DEAL WITH WATER BEARING STRATA.

GASSING RISK

WORKING IN CONFINED SPACES. SPECIFIC RISKS IN ALL TRENCHES , AND ESPECIALLY WITHIN DEEP ON SITE SEWERS AND CONNECTIONS TO EXISTING SEWERS. RISK OF ELEVATED CO_2 RISK OF SUDDEN WATER OR FLOWING SOLIDS OR GASEOUS INGRESS. KNOWN METHANE PRESENCE

DISEASE AND CONTAMINATION RISK ASSOCIATED WITH CONTACT WITH EXISTING SEWERAGE.

DISEASE RISK ASSOCIATED WITH WORKS ADJACENT TO WATERCOURSES (LEPTOSPIROSIS).

COSHH CONTROL MEASURES REQUIRED FOR ROAD AND SEWERAGE CONSTRUCTION RISK OF BURN, CHEMICAL BURN, CONTAMINATION, DISEASE, ASPHYXIATION, POISONING .

GENERAL NOTES

1. THE CONTRACTOR SHALL CHECK ALL TIE INS FOR LINE AND LEVEL WITH EXISTING BEFORE COMMENCING ANY WORKS SHOULD ANY ERRORS BE FOUND, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY IN WRITING. IT IS ESSENTIAL THAT ALL PIPE CONNECTIONS ARE CHECKED FOR LINE, LEVEL AND DIAMETER PRIOR TO COMMENCING WORKS, AS DATA ON THESE PIPELINES HAS BEEN OBTAINED FROM A VARIETY OF SOURCES WHICH MAY NOT BE NECESSARILY ACCURATE OR COMPLETE.
2. THE DEPICTION OF ANY SERVICE APPARATUS ON THIS DRAWING HAS BEEN OBTAINED FROM THIRD PARTY SOURCES, AND IS NOT NECESSARILY ACCURATE OR COMPLETE. AT NO TIME DOES THE INFERRED POSITION ON THE DRAWING ABSOLVE THE CONTRACTOR FROM TAKING ALL NECESSARY STEPS TO LOCATE SERVICE PLANT IN ACCORDANCE WITH THE METHODS SUGGESTED BY THE RELEVANT AUTHORITY. STEPHEN DAYKIN CONSULTING LTD WILL ACCEPT NO CLAIMS WHATSOEVER IN RESPECT OF ANY LOSSES OR DAMAGE CAUSED IN-RESPECT OF SUCH APPARATUS, HOWEVER CAUSED.
3. SEWERS TO BE CONSTRUCTED IN ACCORDANCE WITH THE W.S.A PUBLICATION "SEWERS FOR ADOPTION", 6TH EDITION AND COMMON WATER COMPANY ADDENDUM AND STW SPECIFIC ADDENDUM.
4. ALL LATERAL DRAINAGE CONNECTIONS TO THE PUBLIC SEWER SHALL BE 150MM DIAMETER UNLESS OTHERWISE SPECIFIED .
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXECUTE THE WORKS AT ALL TIMES IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE 1974 HEALTH AND SAFETY AT WORK ACT, AND THE 2015 CDM REGULATIONS. THE CONTRACTOR WILL BE DEEMED TO HAVE ALLOWED FOR FULL COMPLIANCE WITH THE SAME WITHIN HIS RATES, INCLUDING FULL LIAISON WITH THE PRINCIPAL DESIGNER.
6. FOR DETAILS OF CARRIAGEWAY CONSTRUCTION REFER TO THE 30 SERIES PROJECT DRAWINGS.
7. FOR DETAILS OF SEWER CONSTRUCTION REFER TO THE 40 SERIES PROJECT DRAWINGS.

KEY:

- ADOPTABLE SECTION 104 FOUL SEWER AND MANHOLE (F1)
- ADOPTABLE SECTION 104 STORM SEWER AND MANHOLE (S1)
- STORM / FOUL — FIRST OFF MANHOLE DEPTH LESS THAN 2M 450MM DIAMETER PPIC NON-MAN ENTRY SYSTEM
- STORM / FOUL — FIRST OFF MANHOLE DEPTH GREATER THAN 2M CONCRETE MANHOLE DIMENSIONED AS 2015 BUILDING REGULATIONS PART H TABLE 12 MIN 1200 DIAMETER AS SUBSCRIPT NOTE 7
- PEDESTRIAN DROPPED CROSSING COMPRISING 2No. DROPPER KERBS AND 2No. DROPPED KERBS
- PEDESTRIAN DROPPED CROSSING COMPRISING 2No. DROPPER KERBS AND 2No. DROPPED KERBS WITH TACTILE PAVING

rev	description	date	initial
C	Amended in line with client mark-ups (26.08.22)	5-9-22	EN
B	Minor amendments to garage levels to assist external works	1-9-22	EN
A	Infrastructure re-designed to Aug 22 scheme	22-8-22	SWD

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Stephen W Daykin I.Eng MICE MCIHT

client: gleeson

project: Proposed residential development at York Gardens, Gosberton

title: ENGINEERING LAYOUT

drawn	date
SD	14.10.21
scale	size
1:500	A1

purpose of issue: PRELIMINARY

dwg no. E827-10 rev. C

1/500 SCALE BAR 0 10 20 30 40 50 60