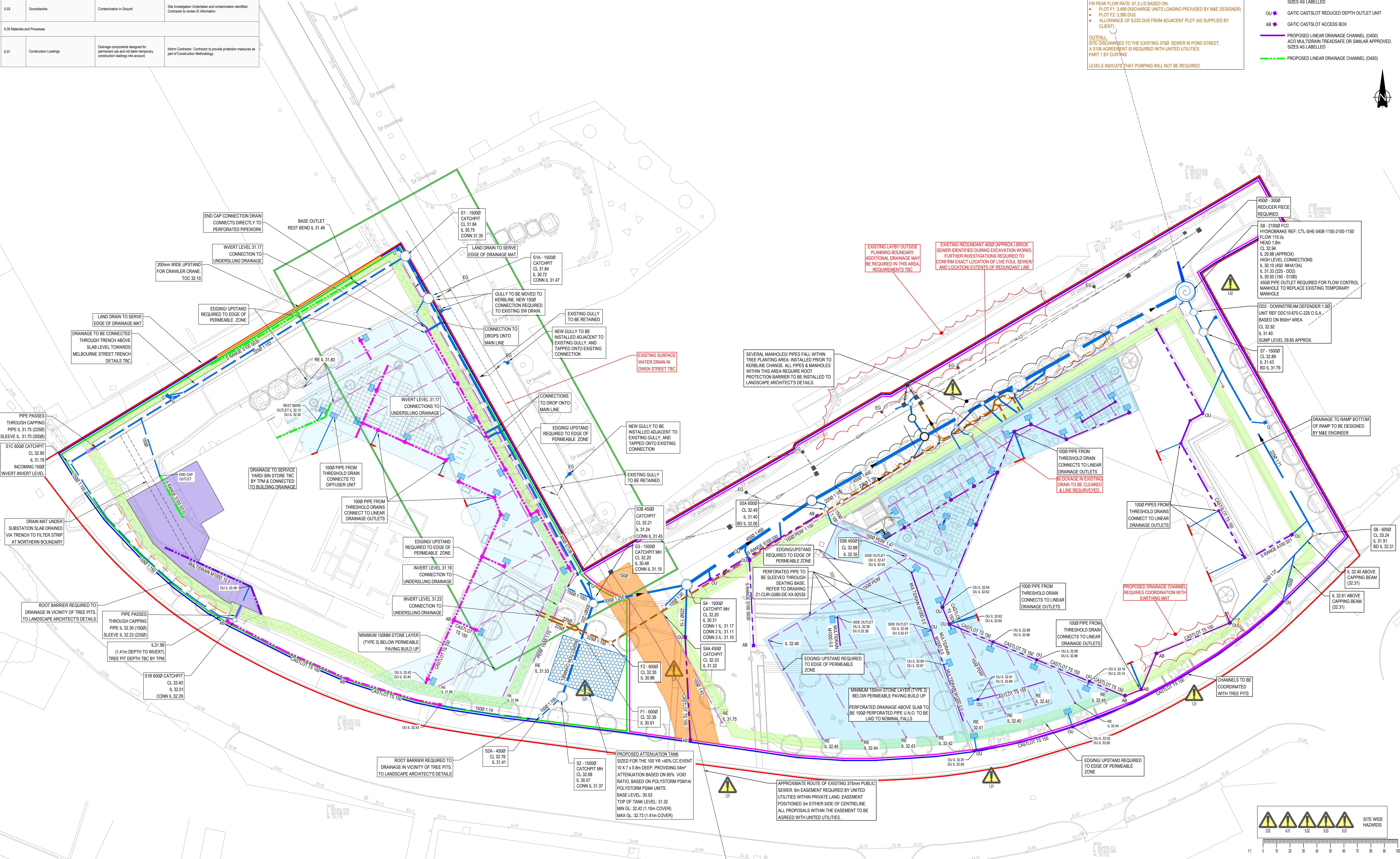


RESIDUAL HAZARD REGISTER (RELATES TO CIVIL/STRUCTURAL MATTERS ONLY) MUST BE READ IN CONJUNCTION WITH CURTINS RESIDUAL HAZARD REGISTER 08069-CUR-ZX-XX-HA-X-0001 HAZARDS THAT WOULD BE OBVIOUS TO A COMPETENT CONTRACTOR HAVE NOT BEEN INDICATED ON THIS DRAWING. SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED, THE CONTRACTOR SHOULD NOTIFY ALL RELEVANT PROJECT TEAM MEMBERS.			
HAZARD REGISTER			
Hazard Ref	Item (Feature, Element or Activity)	Potential Hazard Identified	Action (Information to Assist Control)
3.00 Existing Bored & Overhead Services			
3.01	Existing OU Combined public sewers on site	Damage to pipes during site basement works	CCTV Survey unlikely to accurately position due to depth of sewer (10m away to be investigated prior to piling - during proof of rig works to locate)
3.02	Existing Live Services	Existing Live Services - particularly if services are to be retained through development	Carry out additional surveys and investigations to locate and protect the services in coordination with Services Engineer/Safety Undertakers
4.00 Demolition of Existing Structures/ Site Clearance			
4.01	Site Clearance	Contaminated Land	Contractor to review specific site investigation report and determine what measures are required for removing spoil from site.
5.00 Excavations and Foundations			
5.01	Deep Excavation for attenuation tank	Excavation collapse/instability	Contractor method statements considering adequate support for excavations. Sequencing of works to be considered.
5.02	Groundworks	Ground Gas	Undertake Site Investigation to identify potential contamination in the ground
5.03	Groundworks	Contamination in Ground	Site Investigation Undertaken and contamination identified. Contractor to review SI Information.
6.00 Materials and Processes			
6.01	Construction Loadings	Drainage components designed for permanent use and not taken temporary construction loadings into account	Inform Contractor. Contractor to provide protection measures as part of Construction Methodology.



OTHER DISCIPLINE DRAWING REFERENCES

THE DESIGN OF THIS SCHEME HAS BEEN DESIGNED IN ACCORDANCE WITH THE BELOW DRAWINGS AND INFORMATION.

TOPOGRAPHICAL SURVEY REF: 11072_001B.1 TO 3 REV B. BY N.D. OLIVER, DATED DEC 2022

CCTV SURVEY: SURVEY BY INWS DATED JUNE 2023

UNITED UTILITIES RECORDS: UURS-ORD-275621, DATED APRIL 2021

STRUCTURAL ENGINEERS DRAWING REF: 1798-F2-DP2-G200-PL-00-2625 REV 001 CAPPING BEAM GA 1799-F2-DP2-G200-PL-02-2610 REV 001 FOUNDATION GA

ARCHITECTS DRAWING REF: 10334-F1-SHP-G200-PL-GRD-001 REV 003 F1 GA GROUND FLOOR 10334-F2-SHP-G200-PL-GRD-001 REV 001 F2 GA GROUND FLOOR 10334-F1-SHP-G200-PL-GRD-001 REV 001 F1 STRUCTURAL COORDINATION GROUND FLOOR 10334-F2-SHP-G200-PL-GRD-001 REV 001 STRUCTURAL LAYOUT GROUND FLOOR

LANDSCAPE ARCHITECTS DRAWING REF: Z1-SOY-GT10-PL-XX-101 REV P1 LANDSCAPE GA (F1) Z1-SOY-GT10-PL-XX-101 REV P1 LANDSCAPE GA (F2)

M&E ENGINEERS DRAWING REF: F2-FUT-G580-PL-GRD-001 REV P2 LEVEL 00 ABOVE GROUND DRAINAGE F2-FUT-G580-PL-01-001 REV P4 LEVEL 01 ABOVE GROUND DRAINAGE F2-FUT-G580-PL-02-001 REV P2 LEVEL 02 ABOVE GROUND DRAINAGE

DESIGN PHILOSOPHY

SURFACE WATER DESIGN
THE DESIGN PROVIDES CAPACITY UP TO THE 100 YEAR + 40% CLIMATE CHANGE EVENT.
SW FLOW RATE: 115m³ (BASED ON 50% REDUCTION OF EXISTING 1-YEAR BROWNFIELD FLOW RATE)

EXISTING DRAINAGE
THE EXISTING DRAINAGE WITHIN POND STREET DISCHARGES TO THE EXISTING COMBINED SEWER IN OWEN STREET.
AS PART OF THE WORKS, THE EXISTING DRAINAGE WILL BE DIVERTED TO THE PROPOSED DRAINAGE NETWORK, FROM EXISTING MANHOLES SWM4 & 6. THIS WILL ALLOW FOR THE TREATMENT & SUSTAINABLE DISCHARGE OF THE POND STREET DRAINAGE, WHICH DISCHARGES INTO THE RIVER MEDLOCK.

ATTENUATION
APPROXIMATE STORAGE REQUIREMENT 54m³ PROVIDED WITHIN CELLULAR STORAGE.
FURTHER ATTENUATION IS PROVIDED WITHIN PERMEABLE PAVING SUB-BASE & OVERSIZED PIPEWORK.

OUTFALL
SITE DISCHARGES TO THE EXISTING 3000 OUTFALL INTO THE RIVER MEDLOCK. NO PERMITS ARE REQUIRED, AS THERE ARE NO PROPOSALS TO CHANGE THE OUTFALL.

LEVELS INDICATE THAT PUMPING WILL NOT BE REQUIRED

POLLUTION TREATMENT/ SUSTAINABLE DRAINAGE
A PROPORTION OF THE HARDSTANDING AREA IS SERVED BY PERMEABLE PAVING.
CARRIAGEWAY DRAINAGE ARE CONNECTED TO PETROL INTERCEPTORS. THE INTERCEPTORS ARE OVERSIZED TO ACCOMMODATE PLOT F1 SURFACE WATER RUNOFF.

ALTERNATIVE WATER QUALITY TREATMENT OPTIONS ARE BEING EXPLORED.
INFILTRATION IS NOT CONSIDERED APPROPRIATE FOR THIS SCHEME.

FOUL WATER DESIGN
FW PEAK FLOW RATE: 61.3 L/S BASED ON:
• PLOT F1: 3,490 DISCHARGE UNITS LOADING PROVIDED BY M&E DESIGNER
• PLOT F2: 3,380 DUS
• ALLOWANCE OF 8,033 DUS FROM ADJACENT PLOT (AS SUPPLIED BY CLIENT)

OUTFALL
SITE DISCHARGES TO THE EXISTING 3750 SEWER IN POND STREET. A S100 AGREEMENT IS REQUIRED WITH UNITED UTILITIES. PART 1 BY CURTINS

LEVELS INDICATE THAT PUMPING WILL NOT BE REQUIRED

- KEY:
- RED LINE PLANNING BOUNDARY
 - SITE OWNERSHIP BOUNDARY (OFFSET INSIDE REDLINE FOR CLARITY)
 - PHASE 1 BOUNDARY (OFFSET INSIDE OWNERSHIP FOR CLARITY)
 - PHASE 2 BOUNDARY (OFFSET INSIDE OWNERSHIP FOR CLARITY)
 - EXISTING PUBLIC COMBINED SEWER (APPROXIMATE LOCATION)
 - EXISTING PRIVATE SW SEWER
 - EXISTING PRIVATE FW SEWER
 - PROPOSED SURFACE WATER DRAINAGE
 - PROPOSED PERFORATED SURFACE WATER (PERMEABLE SUB-BASE) CAPPING BEAM DRAIN
 - PROPOSED FOUL WATER DRAINAGE
 - PERMEABLE SUB-BASE EXTENTS
 - PROPOSED ATTENUATION TANK
 - PROPOSED SURFACE WATER GULLY
 - EXISTING SURFACE WATER GULLY TO BE RETAINED
 - BACKDROP CONNECTION
 - PROPOSED LINEAR DRAINAGE CHANNEL (D400) GATIC CASTSLOT TREADSAFE OR SIMILAR APPROVED, SIZES AS LABELLED
 - GATIC CASTSLOT REDUCED DEPTH OUTLET UNIT
 - GATIC CASTSLOT ACCESS BOX
 - PROPOSED LINEAR DRAINAGE CHANNEL (D400) ADD MULTIDRAIN TREADSAFE OR SIMILAR APPROVED, SIZES AS LABELLED
 - PROPOSED LINEAR DRAINAGE CHANNEL (D400)

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DESIGN BASED ON TOPOGRAPHICAL SURVEY INFORMATION AVAILABLE AT THE TIME OF DESIGN.
- DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- ALL DIMENSIONS ARE IN METRES AND LEVELS IN METRES ABOVE ORDNANCE DATUM UNLESS OTHERWISE NOTED.
- FOR DRAINAGE NOTES, REFER TO DRAWING Z1-CUR-G580-PL-GRD-92510.
- FOR MANHOLE SCHEDULE, REFER TO DRAWING Z1-CUR-G580-PL-XX-92520.

C01	ISSUED FOR CONSTRUCTION	28/07/25	JC	ATL
P04	UPDATED TO NEW LA PLAN & LEVELS	04/04/25	JC	ATL
P03	UPDATE TO LATEST LAYOUTS	09/09/24	ATL	ATL
P02	DRAFT ISSUE FOR COMMENT	13/09/23	ATL	CO
P01	ISSUED FOR STAGE 3 PLANNING CONDITIONS	28/07/23	KS	CO

Rev: Description: Date: By: Chkd:

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CR

CONSTRUCTION

Project: PLOT F, GREAT JACKSON STREET

Dwg Title: PROPOSED DRAINAGE LAYOUT

Drawn By: KS	Designed By: KS	Checked By: CG
Project No: 078524	Date: 25/07/23	Scales @ A0: 1/250
Project Code: Z1-CUR-	Originator: G580- PI - GRD - 92500	Revision: C01