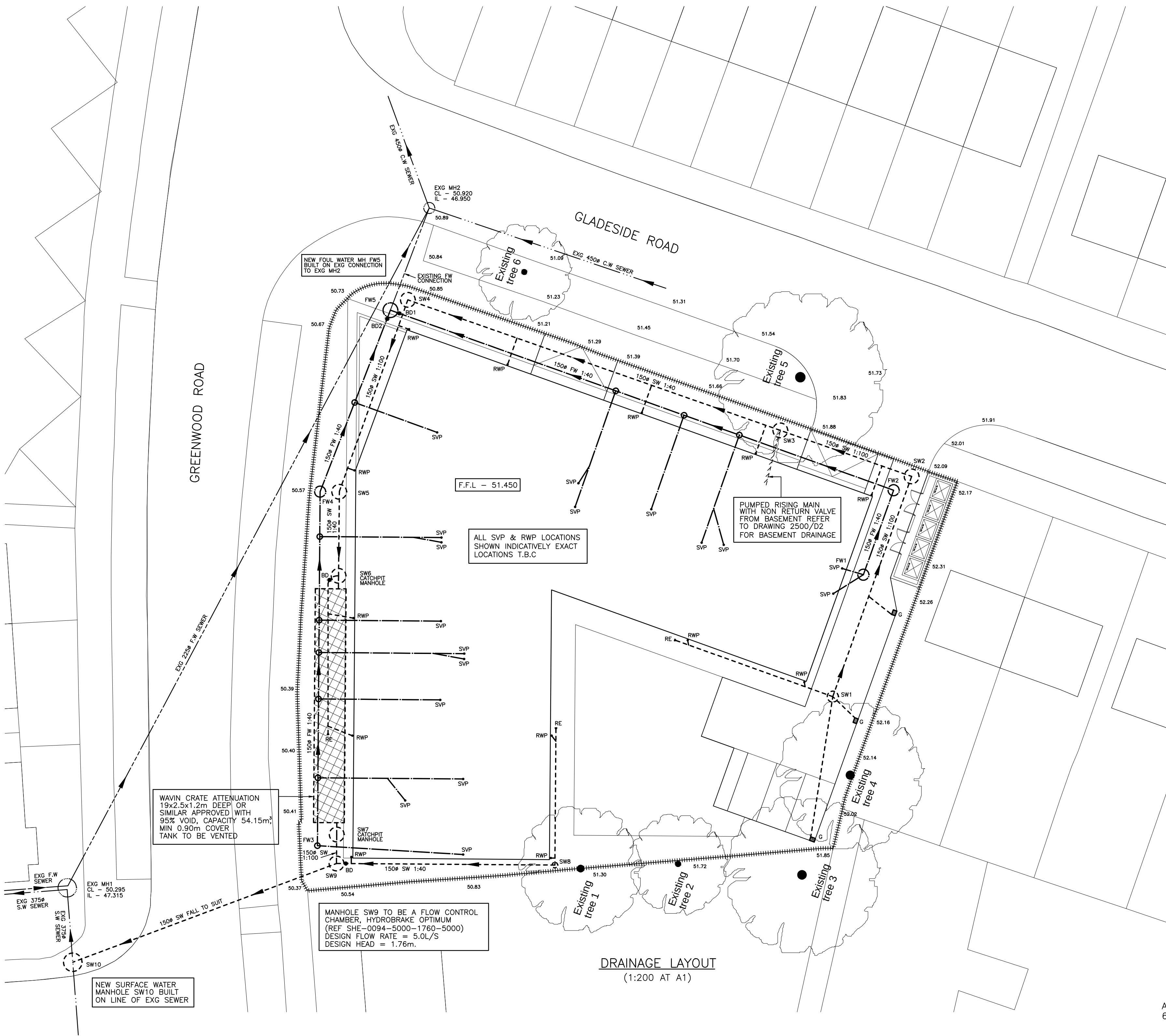
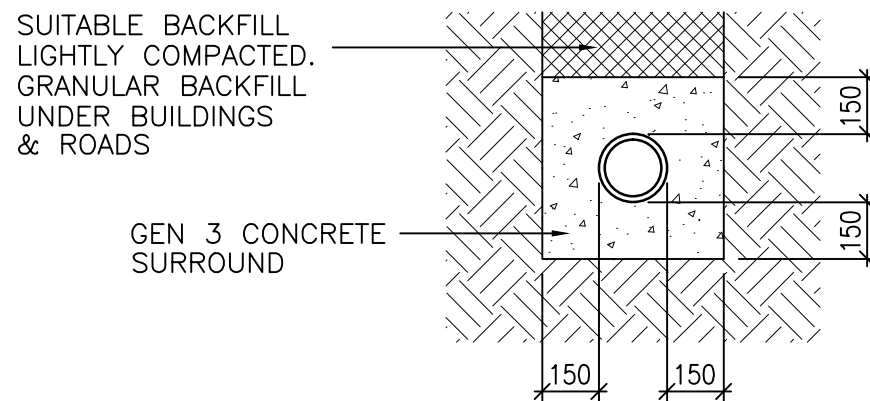


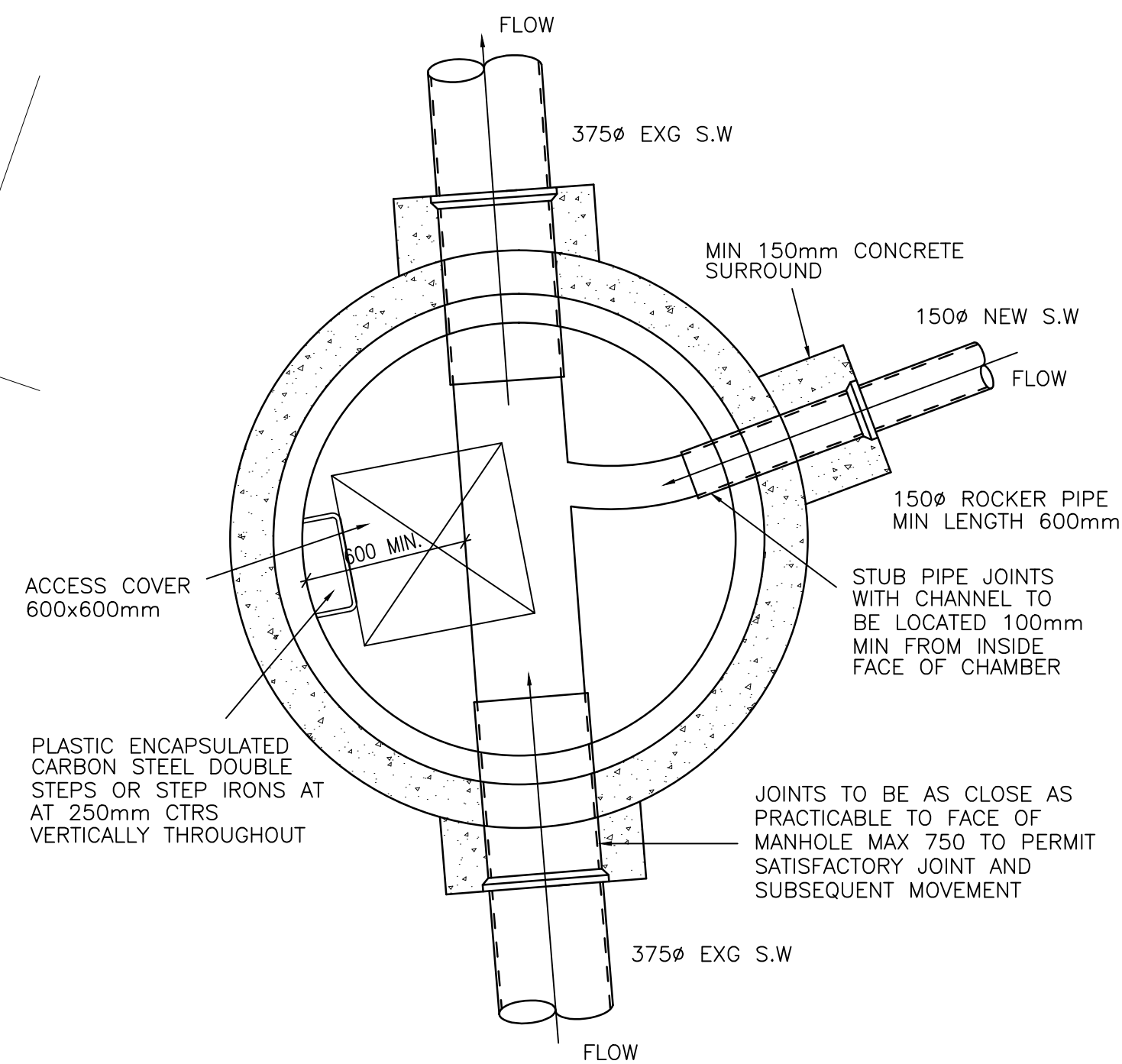
KEY	
○ RWP	RAIN WATER PIPE
◻ RE	RODDING EYE
■ G	GULLY
○ SVP	SOIL VENTILATION PIPE
---	SURFACE WATER DRAIN
---	FOUL WATER DRAIN
---	EXG COMBINED WATER DRAIN
---	EXG SURFACE WATER DRAIN
---	EXG FOUL WATER DRAIN
=====	SITE BOUNDARY

ALL INTERNAL SVP'S TO HAVE RODDING ACCESS POINT	ALL SURFACE WATER BRANCH DRAINS TO BE 100mmØ AT 1:100 FALL U.N.O.
ALL EXTERNAL DOORS WITH A LEVEL ACCESS TO HAVE A THRESHOLD DRAIN	ALL FOUL WATER BRANCH DRAINS TO BE 100mmØ AT 1:40 FALL U.N.O.
ALL GULLY POSITIONS SHOWN INDICATIVELY	ALL INTERNAL DRAINAGE RUNS ARE DIAGRAMATIC & CAN BE ADJUSTED TO SUIT



PIPE CONCRETE ENCASEMENT DETAIL
(1:20 AT A1)

UNDER HIGHWAY OR CONCRETE HARDSTANDING WHERE DEPTH < 0.90m
UNDER CAR PARK WHERE DEPTH < 0.75m
UNDER BUILDING LINE ANY DEPTH
DEPTH REFERS TO DISTANCE FROM SURFACE FINISH TO TOP OF PIPE
FOR CLAY/CONCRETE PIPES ONLY



PLAN ON MANHOLE SW10
(1:20 AT A1)
(1500mm Ø MANHOLE RINGS)

FOUL WATER MANHOLES						
CHAMBER	COVER LEVEL	INVERT LEVEL	DEPTH	MANHOLE TYPE	DIAMETER	BACK DROP
FW1	51.850	50.600	1.250	PC RINGS	0.900	
FW2	52.070	50.380	1.690	PC RINGS	0.900	
FW3	50.510	49.910	0.600	P.P.I.C	0.450	
FW4	50.640	49.200	1.440	PC RINGS	0.900	
FW5	50.830	47.045	3.785	PC RINGS	0.900	BD1=49.295 BD2=48.785

SURFACE WATER MANHOLES						
CHAMBER	COVER LEVEL	INVERT LEVEL	DEPTH	MANHOLE TYPE	DIAMETER	BACK DROP
SW1	51.560	50.195	1.365	PC RINGS	0.900	
SW2	52.000	50.000	2.000	PC RINGS	1.200	
SW3	T.B.C	49.885	T.B.C	PC RINGS	1.200	
SW4	50.800	49.095	1.705	PC RINGS	1.200	
SW5	50.600	48.930	1.670	PC RINGS	1.200	
SW6 CATCHPIT MH	50.500	48.760	1.740	PC RINGS	1.200	BD=49.790
SW7 CATCHPIT MH	50.450	47.690	2.760	PC RINGS	1.200	
SW8	51.100	50.100	1.000	P.P.I.C	0.450	
SW9	50.430	47.665	2.765	PC RINGS	1.200*	BD=49.655
SW10	T.B.C	T.B.C	T.B.C	PC RINGS	1.500	

CATCHPIT MANHOLE - P.C.C CHAMBER WITH 300mm SUMP BELOW LOWEST PIPE INVERT (DEPTH IN TABLE INDICATES LOWEST INVERT)
* - INDICATES MANHOLE DIAMETER MAY INCREASE TO SUIT FLOW CONTROL

NOTES

- All work to be in accordance with Sewers for Adoption latest Edition and BS 8000 Pt 14 Code of Practice for below ground drainage.
- The sizes of manholes stated are minimum. If two or more pipes enter the manhole the chamber size must be sufficient to accommodate adequate benching. All pipes built into the manhole invert should be installed with soffits level.
- The Contractor shall give at least one working days notice to the Engineer to allow opportunity to examine any formation or witness any testing.
- All soft spots to be removed from bottom of excavations and to be refilled to formation level with the same material as permanent works which rest in it.
- All concrete and concrete products shall be constructed with sulphate resistance cement.
- Unless noted otherwise all manhole/chamber covers to be ductile iron to BS EN 124 D400
- Unless noted otherwise all mortar to be class 1 1:3 cement : sand.
- Cut ends of reinforced concrete pipes are to be treated with epoxy resin paint/mortar.
- Construction joints in concrete surround must not be within 150mm of chamber ring joints.
- All drainage products to be kitemark approved tested.
- Gully gratings shall be end hinged & ductile iron, BS EN 124 Class C250

C	13.10.23	SW SYSEM REVISED. CM1 REMOVED. EXG DRAINS REVISED/ADDED. SW10 DETAIL ADDED.	D.J.W
B	04.04.23	DRAINAGE RUNS & OUTFALLS REVISED.	D.J.W
A	25.11.22	MH SW7 & BASEMENT PUMPED MAIN ADDED.	D.J.W
rev	date	revisions	initials

client	CHALLENGER GROUP
project	PROPOSED DEVELOPMENT GREENWOOD ROAD, WYTHENSHAW
drawing	DRAINAGE LAYOUT

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drawn D.Whittaker	date 14.11.22
scale AS NOTED	checked
contract no. 2500	drawing no. D1 c