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DO NOT SCALE

NOTES

CONNECTIONS FROM WPC TO BE LAID AT 1/40 MINIMUM AND 1/10 MAXIMUM GRADIENTS WHERE CONSTRUCTED UNDER THE BUILDING

LOCATION SIZE AND SETTING OUT OF ALL RAINWATER AND WASTE PIPE CONNECTIONS REFER TO THE RELEVANT ARCHITECT'S DRAWING FOR DESIGN PURPOSES THESE HAVE BEEN ASSUMED

SUITABLY SIZED PETROL INTERCEPTORS MUST COMPLY WITH THE REQUIREMENTS OUTLINE IN PPG3 THESE INCLUDE SILT STORAGE CAPACITY AND HIGH LEVEL HYDROCARBON ALARM WIRED BACK TO A MANNED OFFICE

ALL EXISTING DRAINAGE LEVELS ARE TO BE CONFIRMED BY THE CONTRACTOR AND THE ENGINEER NOTIFIED BEFORE ANY DRAIN RUNS ARE CONSTRUCTED

ALL MANHOLE/CHAMBER COVER LEVELS ARE APPROXIMATE AND SHALL BE ADJUSTED ON SITE TO SUIT THE PROPOSED FINISHED LEVELS

THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD ANY EXISTING LIVE DRAINAGE BE FOUND WITHIN THE SITE BOUNDARY SERVING ADJACENT PROPERTIES

ALL EXISTING DRAINAGE WITHIN THE SITE NOT REQUIRED FOR THE NEW DEVELOPMENT SHALL BE ABANDONED
DRAINS AND SEWER LESS THAN 1.500m DEEP WHICH ARE IN OPEN GROUND SHOULD AS FAR AS IS PRACTICABLE BE FULLY REMOVED
ALL OTHER PIPES SHOULD BE SEALED AT BOTH ENDS AND AT ANY POINT OF CONNECTION, AND BE GROUT FILLED TO ENSURE THAT RATS CANNOT GAIN ACCESS
LARGER PIPES 225Ø OR ABOVE SHOULD BE GROUT FILLED TO PREVENT SUBSIDENCE OR DAMAGE TO BUILDINGS OR SERVICES IN THE EVENT OF COLLAPSE

SEWER AND DRAIN TESTING

ALL SEWERS AND DRAINS CONSTRUCTED AS PART OF THE CONTRACT SHALL BE TESTED AFTER THEY ARE JOINTED AND BEFORE ANY CONCRETE OR BACKFILLING IS COMMENCED, OTHER THAN SUCH AS MAY BE NECESSARY FOR STRUCTURAL STABILITY WHILST UNDER TEST

TESTING SHALL BE IN ACCORDANCE WITH SFA AND BS EN 1610

TESTING OF PIPES UP TO AND INCLUDING 750mm NOMINAL DIAMETER SHALL BE BY MEANS OF AN AIR OR WATER TEST.
FOR PIPES LARGER THAN 750mm NOMINAL DIAMETER A VISUAL EXAMINATION SHALL BE CARRIED OUT

A FURTHER TEST SHALL BE CARRIED OUT AFTER THE BACKFILLING IS COMPLETE

ADDITIONAL TESTING MAYBE REQUIRED AS INSTRUCTED BY THE WATER COMPANY AND/OR HIGHWAYS INSPECTOR/REPRESENTATIVE

AIR TESTS SHALL BE CARRIED OUT IN ACCORDANCE WITH SFA SECTION 5.7.4 AND BS EN 1610

WATER TESTS SHALL BE CARRIED OUT IN ACCORDANCE WITH SFA SECTION 5.7.5 AND BS EN 1610

VISUAL INSPECTIONS (CCTV SURVEY) SHALL BE CARRIED OUT BY A QUALIFIED AND APPROVED CONTRACTOR, AND IN ACCORDANCE WITH THE "WSA/FWR MODEL CONTRACT DOCUMENT FOR SEWER CONDITION INSPECTIONS"

THE FOUL WATER RISING MAIN SHALL BE PRESSURE TESTED BY THE M&E CONTRACTOR AND CERTIFICATION PROVIDED TO THE WATER COMPANY
A REPRESENTATIVE FROM THE WATER COMPANY MAY NEED TO BE PRESENT DURING THE TESTING THE CONTRACTOR SHALL LIAISE WITH THE WATER COMPANY INSPECTOR AS TO THERE REQUIREMENTS

KEY

- EXISTING FW DRAINS /SEWERS
- EXISTING SW DRAINS/SEWERS
- PROPOSED FW DRAINS/SEWERS
- PROPOSED SW DRAINS/SEWERS
- PROPOSED FW MANHOLE
- PROPOSED SW MANHOLE
- DRAINS TO BE ABANDONED
- RWP (***Ø) — PROPOSED RAINWATER DOWN PIPE SIZE & LOCATION TBC, BY OTHERS
- RG — PROPOSED TRADITIONAL TYPE ROAD GULLY WITH 150Ø OUTLET PIPE
- WPC — PROPOSED WASTE PIPE CONNECTION SIZE & LOCATION TBC, BY OTHERS (* DENOTES WC CONNECTED)
- PROPOSED DRAINAGE CHANNEL SPECIFICATION AS NOTED ON PLAN LAYOUT
- PROPOSED KERB DRAINAGE SYSTEM SPECIFICATION AS NOTED ON PLAN LAYOUT

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP IS TO COMPLY WITH JPG CONSULTANTS STANDARD SPECIFICATION & ALL RELEVANT BRITISH & EUROPEAN STANDARDS.

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, M & E CONSULTANTS AND JPG CONSULTANTS DRAWINGS.

3. ANY DISCREPANCIES SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY SO THAT CLARIFICATION CAN BE SOUGHT PRIOR TO COMMENCEMENT OF WORKS.

DRAINAGE NOTES

1. ALL BUILDING DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BS EN 752:2008 DRAINAGE AND SEWER SYSTEMS OUTSIDE BUILDINGS, THE CURRENT BUILDING REGULATIONS AND THE LOCAL AUTHORITY BUILDING CONTROL SPECIFICATIONS AND REQUIREMENTS.

2. ANY DRAINAGE TO BE PUT FORWARD FOR ADOPTION EITHER WITHIN THE SITE OR OUTSIDE SHALL BE CONSTRUCTED TO SEWERS FOR ADOPTION LATEST EDITION AND ANY SPECIFIC REQUIREMENTS OF THE ADOPTING SEWERAGE/WATER AUTHORITY.

3. THE LOCATION, SIZE AND DEPTH OF ALL EXISTING DRAINS/SEWERS AND SERVICES SHALL BE ESTABLISHED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORKS ON SITE. ANY DISCREPANCIES FROM THE INFORMATION INDICATED ON THESE DRAWINGS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

4. THE CONTRACTOR SHALL ALLOW FOR THE PROTECTION, TEMPORARY AND PERMANENT SUPPORT AND DIVERSION WORKS AS NECESSARY, TO ALL EXISTING SERVICES TO THE SATISFACTION OF THE UTILITY COMPANIES.

5. THE CONTRACTOR SHALL ALLOW FOR DEALING WITH SURFACE WATER RUN OFF INTO EXCAVATIONS AND FROM GROUNDWATER BY MEANS OF SUMPS, PUMPING AND DE WATERING AS APPROPRIATE, IN ORDER TO KEEP THE EXCAVATION AS REASONABLY DRY AS POSSIBLE DURING THE CONSTRUCTION OF THE WORKS.

6. ALL LEVELS AND DIMENSIONS SHALL BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORKS. ANY DISCREPANCIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

7. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS IN LINE WITH CURRENT LEGISLATION WHEN WORKING IN/NEAR CONFINED SPACES, DEEP EXCAVATIONS AND MACHINERY.

8. THE CONTRACTOR SHALL ALLOW FOR OBTAINING ALL APPROVALS FROM THE RELEVANT AUTHORITIES WHEN WORKING IN THE PUBLIC HIGHWAY AND ON THE SEWERAGE SYSTEM.

9. THE CONTRACTOR SHALL SUITABLY PROTECT PEDESTRIANS AND VEHICLES FROM WORKING AREAS.

10. ALL PIPES SHALL BE LAID WITH LEVEL SOFFITS AND ALL MANHOLE/INSPECTION CHAMBER INVERT LEVELS SHOWN ARE FOR THE OUT GOING PIPE (UNLESS OTHERWISE INDICATED IN THE DRAWING).
PIPE RUNS SHALL BE LAID TO THE INVERT LEVELS AS DETAILED ON THE CONTRACT DRAWINGS.
(NOTE THAT ALL PIPE GRADIENTS INDICATED ON THE DRAWINGS ARE APPROXIMATE).

11. ALL RAINWATER PIPES AND INTERNAL FOUL DRAIN CONNECTIONS POINTS ARE TO BE SIZED & POSITIONED AS SHOWN ON THE ARCHITECTS DRAWINGS.
THE CONTRACTOR SHALL SUPPLY SUITABLE ADAPTORS AT PROPOSED GROUND LEVELS OR FINISHED FLOOR LEVEL TO ALLOW CONNECTION OF THE ABOVE GROUND DRAINAGE SYSTEM.
(DETAILS OF THE ABOVE GROUND DRAINAGE SYSTEM AND ADAPTORS ALL BY OTHERS).

12. UPON COMPLETION OF THE DRAINAGE WORKS THE CONTRACTOR SHALL CLEAN ALL DRAIN RUNS BY JETTING AND REMOVE ALL DEBRIS FROM SITE.
NO DEBRIS SHALL BE PERMITTED TO ENTER THE PUBLIC SEWER AND/OR WATERCOURSE SYSTEM.
ONCE THE DRAINAGE SYSTEM HAS BEEN FULLY CLEANED OUT A CCTV CAMERA CONDITION SURVEY SHALL BE UNDERTAKEN TO ALL CONSTRUCTED DRAINAGE AND SEWER PIPES WITH THE FOOTAGE ISSUED TO THE ENGINEER FOR VIEW.
THE AS BUILT INVERT AND COVER LEVELS SHALL BE RECORDED BY THE CONTRACTOR AND PASSED ON

TO THE ENGINEER FOR REVIEW.

MANHOLE SCHEDULE

MH REF.	EASTINGS	NORTHINGS
FWMH-101	433479.190	399845.493
FWMH-105	433510.187	399857.266
FWMH-201	433292.829	399770.578
FWMH-202	433331.804	399780.137
FWMH-203	433332.722	399778.360
FWMH-204	433338.691	399766.811
FWMH-205	433359.323	399777.005
FWMH-301	433248.553	399725.822
FWMH-301	433251.551	399801.271
FWMH-302	433250.390	399722.268
FWMH-302	433283.003	399740.418
FWMH-303	433244.804	399722.052
FWMH-304	433237.972	399719.947
FWMH-305	433230.593	399712.037
FWMH-401	433176.265	399656.649
FWMH-402	433178.102	399653.096
FWMH-403	433181.418	399646.680
FWMH-404	433175.492	399630.922
FWMH-405	433186.596	399636.661
FWMH-406	433183.612	399642.435
FWMH-407	433179.309	399677.431
FWMH-408	433199.589	399687.881
SWMH-101	433445.425	399825.970
SWMH-102	433493.359	399855.907
SWMH-201	433292.897	399816.113
SWMH-202	433311.263	399780.579
SWMH-203	433318.259	399761.843
SWMH-204	433329.070	399780.775
SWMH-205	433329.890	399764.796
SWMH-206	433370.652	399783.859
SWMH-207	433390.178	399793.890
SWMH-301	433213.393	399706.772
SWMH-302	433235.973	399717.471
SWMH-303	433256.420	399749.830
SWMH-304	433283.171	399744.116
SWMH-305	433280.416	399749.446
SWMH-306	433269.157	399788.654
SWMH-307	433287.523	399753.119
SWMH-401	433129.189	399607.559
SWMH-402	433158.789	399619.718
SWMH-403	433190.770	399636.247
SWMH-404	433176.077	399664.675
SWMH-405	433197.073	399678.124
SWMH-406	433191.334	399689.228
SWMH-407	433143.543	399750.983
SWMH-408	433178.595	399734.862
SWMH-409	433183.186	399725.978
SWMH-410	433191.451	399709.988
SWMH-411	433187.778	399717.095
SWMH-412	433178.006	399712.044
SWMH-413	433193.552	399695.381
SWMH-501	433199.441	399701.574

REV	DESCRIPTION	DATE	BY
G	LAND DRAINAGE ADDED AS PER CONTRACTORS REQUEST	31.07.19	JH
F	DRAINAGE UPDATED TO SUIT REVISION OF UNIT 2 FINISHED FLOOR LEVEL MANHOLE SETTING OUT TABLE ADDED	24.06.19	JH
E	DRAWING UPDATE IN LINE WITH CONTRACTORS PROPOSAL AND VE MEETING ON 01.05.2019	10.05.2019	JDM
D	SUBSTATION ROOF DRAINAGE ADDED AND DUPLICATE MH REF. AMENDED	03.04.2019	JDM
C	CONSTRUCTION ISSUE	28.03.2019	JDM
B	CONTRACT ISSUE	01.02.2019	KR
A	INITIAL ISSUE	24.08.2018	JDM

Job Title
WENTWORTH WAY,
TANKERSLEY

Drawing Title
FW AND SW DRAINAGE LAYOUT
UNIT 2

CONSTRUCTION

Architect
KPP

JPG
www.jpg.group
Leeds: 0113 263 1155 | London: 020 7947 4148

Checked	Date	Scale		Drawn
	AUG 2018	1:200	A0	JDM

Drawing No 4776-2-D1 G