071 38E9

NOTES

25. PACKAGE PUMPING STATION(S) TO BE BY SPECIALIST SUPPLIER OR EQUIVALENT. FOR INSTALLATION GUIDANCE REFER TO MANUFACTURERS INSTALLATION GUIDE. FOR THE FOUL PUMPING STATION(S) TO BE SPECIFIED BY THE ARCHITECT, A THREE PHASE ELECTRICITY SUPPLY IS REQUIRED TO PROVIDE POWER TO THE CONTROL PANEL OF THE PUMPING STATION. THE CONTROL PANEL MUST BE FIXED TO A SUITABLE WALL/STRUCTURE WITHIN 10m OF THE PROXIMITY OF THE PUMPED STATION. IF INTERNAL IT LOCATED WITHIN A HEATED, TILE, CONTROL PANEL MAY BE POSITIONED ON A WALL. LOCKABLE ISOLATION SWITCH TO BE PROVIDED ADJACENT TO THE CONTROL PANEL AS REQUIRED TO ACCOMMODATE BOTH DEVICE. AN INFORMATIVE NOTICE PLACED ADJACENT TO THE ISOLATION SWITCH, THE CONTROL PANEL SYSTEMS IN THE EVENT OF THE PUMP ALARM SOUNDING OR WARNING LIGHT FLASHING PLEASE CONTACT THE NUMBER BELOW

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NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALIST SUB-CONTRACTORS DRAWINGS AND THE SPECIFICATION.

2. ALL PRIVATE DRAINAGE IS TO BE IN ACCORDANCE WITH BS EN 752-4 AND ALL RELEVANT SECTIONS OF APPROVED DOCUMENT H OF THE BUILDING REGULATIONS (2000 EDITION).

3. ALL ADOPTED SEWERS IS TO BE IN ACCORDANCE WITH WRAPPS FOR ADOPTABLE SEWERS (LATEST EDITION) AND FOR PRIVATE SEWERS (THE WATER UNDER ORDER) AND THE LOCAL HIGHWAY AUTHORITY REQUIREMENTS WHERE APPROPRIATE.

4. WHERE DRAINAGE PIPEWORK IS TO BE FLEXIBLE P JOINTED (EXTRA STRENGTH VITRIFIED CLAY) IT SHALL BE TO BS EN 295 - 1 REPRODUCTS SUPPLIED BY ESPAG LTD.

5. WHERE DRAINAGE PIPEWORK IS PLASTIC i.e. PVC-U IT SHALL BE TO BS EN 1401-1 (CLASS SN4 ORMA OR EQUIVALENT.

6. ALL CONCRETE PIPEWORK SHALL BE TO BS EN 1916 AND BS8001-1, MANHOLES AND FITTINGS SHALL BE TO BS EN 1917 PARTS 3 AND 4 AND BS EN 1917.

7. WHERE DRAINS PASS THROUGH FOUNDATIONS OR CONNECT TO MANHOLES, THE PIPE SHALL BE SUPPORTED BY A CONCRETE BEDDING UNDER THE BASE OF THE STRUCTURE AND WITHIN A DISTANCE 600mm TO FORM A SOLIDER PIER.

8. WHERE PIPES PASS THROUGH SCREEN WALLS, FOOTINGS OR RETAINING WALLS, LINTELS ARE TO BE PROVIDED.

9. WHERE PIPELINES PASS WITHIN 1m OF BUILDINGS OR WALLS THE FOUNDATIONS ARE TO BE TAKEN DOWN BELOW THE BOTTOM OF THE TRENCH.

10. WHERE DEPTH TO INVERT DOES NOT EXCEED 600mm AND THE PIPE SIZE DOES NOT EXCEED 150mm, THE PIPE SHALL BE BEDDED IN PEA GRAVEL OR SIMILAR MATERIAL (EG. SOFT SAND, CRUSHED TAR PAVING OR PRECAST CONCRETE MANHOLES) AND TO BE LIMED.

11. WHERE CONNECTIONS ARE TO BE MADE TO EXISTING MANHOLES (SIGNORES, INVERT LEVELS, PIPE SIZES AND ORIENTATION SHOULD BE CHECKED PRIOR TO CONSTRUCTION OF THE WORKS AND ANY VARIANCE REPORTED TO THE ENGINEER IMMEDIATELY.

12. WHERE PIPELINES CROSS, EACH IS TO BE SURROUNDED WITH GRADE ST4 MASS CONCRETE FOR A DISTANCE NOT LESS THAN 1m CENTRED ON THE CROSSING POINT. THE PIPE WITHIN THE CONCRETE SHALL BE ENCASED AS NECESSARY TO ACCOMMODATE THE NEXT SUMMER PIPE SIZE.

13. GRADE ST4 MASS CONCRETE BED AND SURROUNDS IS TO BE PROVIDED WHERE THE EFFECTIVE COVER TO THE CROWN OF THE ADOPTED PIPELINE IS LESS THAN 0.6m IN ROADS AND 0.3m IN GARDENS. WHERE THE EFFECTIVE COVER TO PRIVATE DRAINAGE DROPS BELOW THE MASS CONCRETE BED AND SURROUNDS IS TO BE APPROVED WHERE THE EFECTIVE COVER TO THE CROWN OF THE PIPE(S) IS LESS THEN 0.6m IN ROADS AND 0.45m IN SOFT LANDSCAPE AREAS.

14. 'EFFECTIVE COVER' IS THE **MINIMUM** DEPTH OF COVER OVER THE PIPE CROWN AT ANY TIME DURING THE CONSTRUCTION PROCESS.

15. ALL ADOPTED DRAINS AND SEWERS TO BE LOCATED A MINIMUM OF 1.2m WITHIN PUBLIC OPEN SPACE UNLESS SPECIFICALLY DEFINED AS OTHERWISE WITH RELEVANT PROTECTIVE MEASURES.

16. THE CONTRACTOR IS TO ENSURE THAT PROTECTIVE MEASURES ARE TAKEN TO ENSURE THAT THE PUBLIC SEWERS ARE NOT DAMAGED BY THE WORKS AND REPAIRS MADE BY OWNERS IN FOLLOW UP ACTIVITIES ON NEW COMPLETED AROUND BUILDINGS.

17. DRAWING ANNOTATION IS AS FOLLOWS:
AC - DENOTES POLYPROPYLENE OR VITRIFIED CLAY ACCESS CHAMBER DEPTH EXCEEDING 1000mm, SIZE AS NOTED ON DRAWING (DEPTH TO INVERT)
IC - DENOTES POLYPROPYLENE INSPECTION CHAMBER DEPTH NOT EXCEEDING 1000mm, SIZE PER NOTE ON DRAWING (DEPTH TO INVERT)
SP - DENOTES PLASTIC SOAKAWAY SUPER DECK, POLYPROPYLENE OR PCC WITH DEPTH EXCEEDING 1200mm OR SHALLOWER LONGER PIPE SIZES EXCEED 150mm DIAMETER.
ANNOTATIONS ARE INDICATIVE ONLY AND FINAL DEPTHS ARE TO BE CHECKED ON SITE PRIOR TO INSTALLATION.

18. THE TOP RUN OF ENCLOPRIVATE FOUL DRAINAGE NETWORK IS TO BE LAID TO FALLS OF 1:40 UNLESS STATED OTHERWISE AND THE PIPE IS TO BE VENTED TO ATMOSPHERE IN ACCORDANCE WITH APPROVED DOCUMENT H.

19. ALL SURFACE WATER DRAINAGE TO BE 100mm DIA. LAID AT A GRADIENT NO SLACKER THAN 1:80, AND ALL FOUL WATER DRAINAGE TO BE 100mm DIA. UNLESS STATED OTHERWISE.

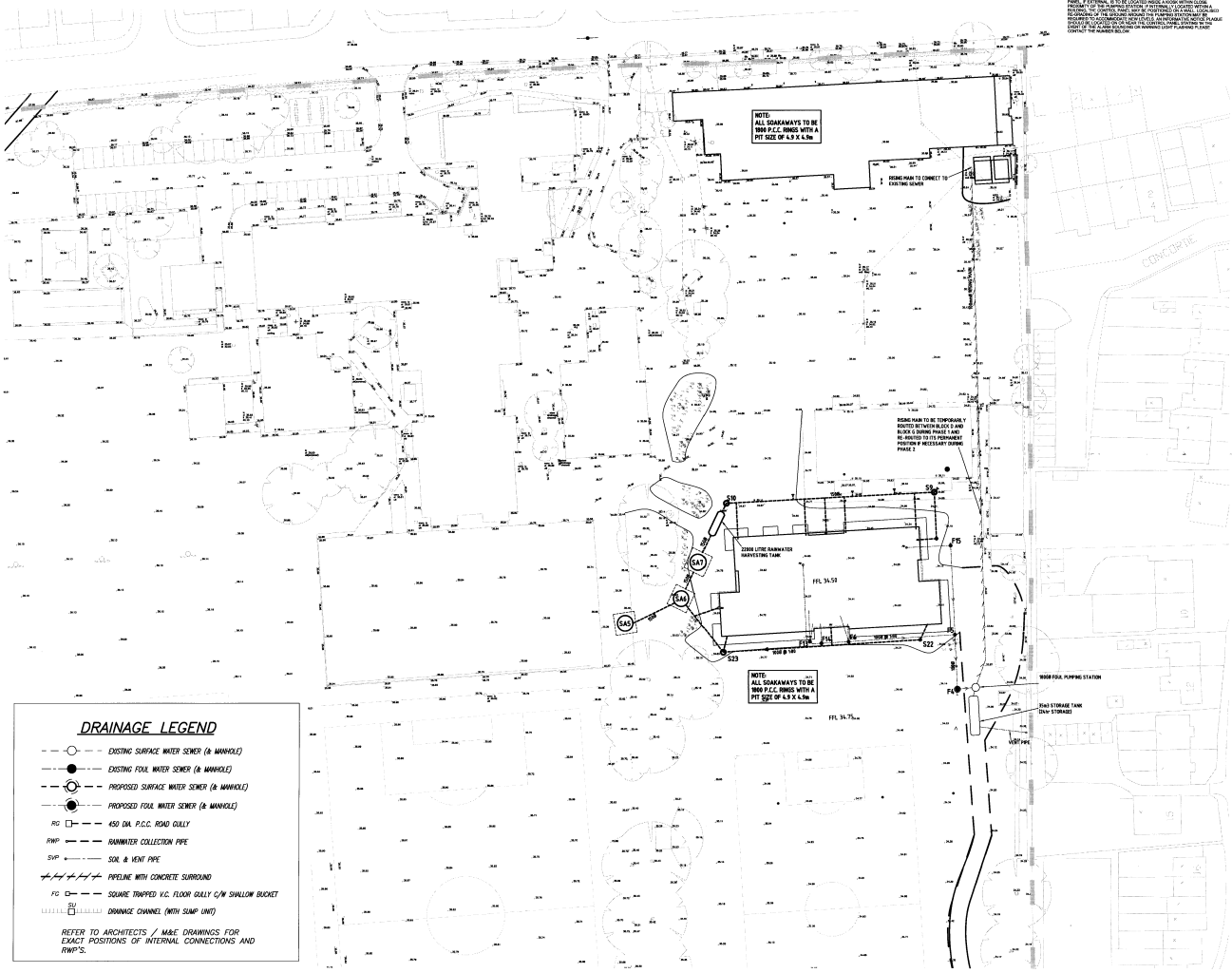
20. THE CONTRACTOR IS TO ENSURE THAT ALL PATHWORK CONNECTIONS ARE MADE TO THE SOAKAWAYS AS SHOWN OR NOTED THE MAIN CHANNEL IN THE DIRECTION OF THE MANHOLES WHERE NECESSARY AN BENDS ARE TO BE USED TO ENSURE THE CONNECTION IS MADE TO THE MAIN CHANNEL. THE SUITABLE SUPPORT SHOULD BE GIVEN TO THE PIPE WORK ON SLOPES. CONNECTIONS ARE ARRANGED OUTSIDE THE CHAMBER TO BE ABLE TO DIVERT FLOWS DOWN THE MAIN CHANNEL WITHOUT FLOODING THE CHAMBER. WHERE THE PIPE IS SMALLER THAN THE MAIN CHANNEL, A TRANSITION PIECE WHERE PIPE IS THE MAIN CHANNEL FLOW SHALL BE FROM ANY CONNECTIONS WITH WCS TO ENSURE A FLUSH THROUGH THE MAIN CHANNEL IS ACHIEVED.

21. THE CONTRACTOR IS TO ENSURE THAT WHEN PROTOPIPES CONNECTED TO THE MAIN CHANNEL THE PIPE WORK IS SUITABLY ORIENTATED SUCH THAT THE MAINTFLOW IS THROUGH THE MAIN CHANNEL OF THE MAIN CHANNEL. THIS SHOULD BE ACHIEVED BY INCORPORATING LONG RADIUS BENDS OUTSIDE THE MAIN CHANNEL.

22. ANY CONNECTION INTO A PUBLIC SEWER IS TO BE INSPECTED BY THE LOCAL WATER AUTHORITY AND CARRIED OUT FULLY IN ACCORDANCE WITH THEIR APPROVED PROCEDURES. THE CONTRACTOR IS TO ENSURE THAT THE APPROPRIATE CONNECTION TO A PUBLIC SEWER FORMS WATERTIGHT ALL NECESSARY TASK.

23. THE CONTRACTOR IS TO ALLOW FOR OBTAINING THE APPROPRIATE ROAD OPENING LICENCE FROM THE LOCAL HIGHWAY AUTHORITY AND PAYING ALL FEES ASSOCIATED WITH THE WORKS. THE WORKS ARE TO BE CARRIED OUT CONSISTENT ALL REINSTATEMENT WORKS WITHIN THE PUBLIC HIGHWAY ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HIGHWAY AUTHORITY.

24. THE CONTRACTORS ATTENTION IS DRAWN TO THE NEED TO ENSURE THAT ANY TRENCHES EXCAVATED THROUGH PREVIOUS 2 COMPACTED FILLED AREAS ARE BACKFILLED AND COMPACTED TO ENSURE THAT ANY SUBSEQUENTLY AROUND THE OUTSIDE OF BUILDINGS CONTRACTORS TO ENSURE UNEQUALISED DIFFERENTIAL SETTLEMENT DOES NOT OCCUR.



DRAINAGE LEGEND

- EXISTING SURFACE WATER SEWER (& MANHOLE)
- EXISTING FOUL WATER SEWER (& MANHOLE)
- PROPOSED SURFACE WATER SEWER (& MANHOLE)
- PROPOSED FOUL WATER SEWER (& MANHOLE)
- RG — 450 DIA. P.C.C. ROAD GULLY
- RWP — RAINWATER COLLECTION PIPE
- SVP — SOIL & VENT PIPE
- PIPELINE WITH CONCRETE SURROUND
- FG — SQUARE TRAPPED V.C. FLOOR GULLY C/W SHALLOW BUCKET
- SU — DRAINAGE CHANNEL (WITH SUMP UNIT)

REFER TO ARCHITECTS / M&E DRAWINGS FOR EXACT POSITIONS OF INTERNAL CONNECTIONS AND RWP'S.

Rev	Amendments	Drn	Chkd	Date
Rev.	Amendment	Drn	Chkd	Date

Drg Status: Preliminary

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Client/Architect: **Uxbridge High School ADP**

Project: **Uxbridge High School**

LONDON BOROUGH OF HILLINGDON
20 DEC 2007
PLANNING & CONSERVATION

Title: **Proposed Drainage Layout Plan PHASE 1**

Scales	A1 1:500	A3 1:1000
Reviewed Scheme	Date	
Reviewed Final	Date	

Project No.	Drg No.	Rev.
L061031	900	P1