

5.2m

KEY

- Approximate site boundary
- Existing surface water drain
- Proposed surface water drain
- Proposed foul water drain
- Proposed domestic foul drain
- Proposed fire water drain
- Proposed linear drainage channel
- Proposed PCC Type B manhole
- Proposed PCC Type C
- ▲ Proposed PCC headwall
- ▲ Road gully

IF YOU HAVE A QUERY CALL US
 SCALING FROM THIS DRAWING OR OBTAINING DIMENSIONS ELECTRONICALLY MAY NOT PROVIDE ACCURATE INFORMATION AND SHOULD BE AVOIDED. WORK ONLY FROM FIGURED DIMENSIONS.

GENERAL NOTES

DRAWINGS AND SPECIFICATIONS: This drawing is to be read in conjunction with all relevant Architects, Engineers and Specialists drawings together with the specification.

DRAINAGE NOTES

DRAINAGE STANDARDS: All private drainage works shall be in accordance with Building Regulations Document Part H. All adoptable drainage works shall be in accordance with Sewers for Adoption 7th Edition and statutory undertaker's requirements.

ABOVE GROUND DRAINAGE: RWP/SVP drainage positions shown on Craddys drawings, upon which the below ground drainage is designed, are based upon the positions provided to us by the Architect and these are to be set out on the Architect's floor plans unless agreed otherwise. If above ground drainage positions change then Craddys will need to be informed of these changes in writing and the changes in position clearly noted or highlighted on a drawing, i.e. using revision clouds, with relevant CAD files provided to Craddys below ground drainage drawings to be updated. Note that should these changes occur following Craddys issue of Construction status drawings then there is a risk of the contractor undertaking above works.

LAYING DRAINAGE: It is recommended that all drains be laid starting from the downstream connection to the existing network and working upstream to and through the new development.

DRAINAGE PIPE SIZES: All foul water drains to be 100mm diameter unless noted otherwise. All surface water drains to be 150mm U.N.O.

MANHOLE COVER LEVELS: All manhole & inspection chamber cover levels are to be adjusted to suit the Architect's proposed finished surface levels. If the cover levels proposed in the drainage schedules vary from proposed surface level by more than 100mm, Contractor to notify Craddys.

C D M - SIGNIFICANT HAZARDS

THE FOLLOWING HEALTH AND SAFETY HAZARDS ARE IDENTIFIED BY THE DESIGNER AS ABNORMAL IN PURSUANCE OF THE CURRENT CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS.

RISKS DURING CONSTRUCTION:
 • TBC

OPERATION / MAINTENANCE RISKS:
 • TBC

RISKS DURING DEMOLITION / DECOMMISSIONING / DISMANTLING / ALTERATIONS:
 • TBC

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY COMPETENT & ADEQUATELY RESOURCED CONTRACTOR(S) WORKING TO SAFE SYSTEMS OF WORK.

B	SILO FIRE SCENARIO REMOVED	RJH	16.12.20
A	FIRST ISSUE	RJH	16.12.20
REV	REVISION DETAILS	BY	DATE

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PROJECT TITLE
**FUEL PELLET PROCESSING FACILITY
 PLOT 5 PROTOS
 RUNCORN**

DRAWING TITLE
**PROPOSED DRAINAGE
 STRATEGY LAYOUT**

CLIENT
NPA FUELS C/O SIMEC ATLANTIS

STATUS
PRELIMINARY

SCALE AT A1	DRG SIZE	DRAWN	CHECKED	APPROVED
1:500	A1	RJH	CSD	CSD

JOB NO.	DRAWING NUMBER	REV
12210	12210-0050	B

Class 1 full retention interceptor / separator to treat runoff from car parking, entrance / weighbridge and quarantine area. To be fitted with vent and alarm system

Surface water connection to off-site ditch (provided by others). Penstock valve to be provided in upstream chamber to isolate drainage system in emergency / pollution incident

End product storage area floor slab drainage, to be controlled by penstock or alarm system in pump station (may be linked to fire alarm):
 - normal operation: discharge to below ground effluent tank with alarm, to be removed by tanker for off-site treatment
 - fire scenario: fire water to be pumped to bunkers in main processing building

Surface water connection to off-site ditch (provided by others). Penstock valve to be provided in upstream chamber to isolate drainage system in emergency / pollution incident

Class 1 full retention interceptor / separator to treat runoff from access roads. To be fitted with vent and alarm system

Class 1 full retention interceptor / separator to treat runoff from access roads. To be fitted with vent and alarm system

Surface water connection to off-site ditch (provided by others). Penstock valve to be provided in upstream chamber to isolate drainage system in emergency / pollution incident

Quarantine area drainage to be controlled by penstock system in manhole:
 - normal operation (no material on area): discharge to surface water network
 - quarantine operation: discharge to below ground effluent tank, to be removed by tanker
 - fire scenario: fire water effluent tank overflow to storage bunker

Effluent tank with high level alarm to receive non-domestic effluent from workshop area, to be removed by tanker for off-site treatment

Package wastewater treatment plant (PWT) to BS EN 12566 for treatment of domestic effluent from welfare area. To be discharged to off-site surface water network under general binding rules for small sewage discharges to surface water (<5m³ per day)

Bunker fire scenario: fire to be suppressed with foam, subsequent effluent to be removed by tanker for off-site treatment

Class 1 full retention interceptor / separator to treat runoff from access roads and truck entry/exit manoeuvring area. To be fitted with vent and alarm system

Surface water connection to off-site ditch (provided by others). Penstock valve to be provided in upstream chamber to isolate drainage system in emergency / pollution incident

Minimal process water to be collected and re-used / tankered off-site and / or lost to evaporation

Off-site attenuation storage (provided by others) within Ecology Area B, final discharge to Manchester Ship Canal via ditch network and pumping stations

