

CONSTRUCTION MANAGEMENT PLAN

for

RESIDENTIAL DEVELOPMENT AT HARRAS DYKE FARM,
HARRAS MOOR, WHITEHAVEN, CUMBRIA

on behalf of

THOMAS ARMSTRONG (CONSTRUCTION) LTD

Date: 06/05/2024

Issue: 0.00

PLANNING BACKGROUND

1. Planning reference number and description

- 1.1. Outline Planning Permission was granted by Copeland Borough Council on 2nd August 2017, comprising two separate (but clearly related) approvals:
 - 1.1.1. Application ref 4/16/2416/001 was an Outline Application for 10 No residential dwellings (Phase 1) on land to the frontage of Harras Road, Harras Moor, Whitehaven.
 - 1.1.2. Application ref 4/16/2415/001 was an Outline Application for Residential Development up to 100 Dwellings (Phase 2) on land at Harras Moor, Whitehaven.
- 1.2. Two separate Reserved Matters Approvals were subsequently granted by Copeland Borough Council on 30th September 2022:
 - 1.2.1. Application ref 4/21/2196/OR1 relates to Phase 1.
 - 1.2.2. Application ref 4/21/2195/OR1 relates to Phase 2.
- 1.3. Thereafter, Cumberland Council (as statutory successor to Copeland Borough Council), approved two separate s73 applications on 28th March 2024. These s73 applications sought to alter housetypes, remove parking courts and change the housing mix as previously approved by Reserved Matters Applications noted in para 1.2 above:
 - 1.3.1. Application 4/24/2036/OB1 varies Phase 1 (RMA application ref 4/21/2196/OR1).
 - 1.3.2. Application 4/24/2035/OB1 varies Phase 2 (RMA application ref 2/21/2195/OR1).
- 1.4. This document relates to relevant planning conditions of both Phases 1 and 2 of the development, with reference to each being noted separately where appropriate.

2. Planning Conditions

- 2.1. The approved planning documents contains the following planning conditions requiring/related to a Construction Management Plan:

Outline Planning Permission - Appn ref 4/16/2416/001 (Phase 1)

Condition 5

There shall be no vehicular access to, or egress from the site other than via the approved access as illustrated on plan reference number A102248/C002, unless otherwise agreed by the Local Planning Authority. [Note: this plan was superseded by approved drawings within the RM and s73 applications, but the intent of this condition remains relevant.]

Condition 8

No development shall take place until a construction method statement has been submitted to and approved in writing by the local planning authority. The approved statement shall be adhered to throughout the construction period. The statement shall include:

- *the means of access for demolition and construction traffic;*
- *the loading and unloading of plant and materials;*

- the storage of plant and materials used in construction, including measures to prevent silt and other containments entering surface water drains and a scheme for recycling/disposing of waste resulting from construction works.

Condition 9

No construction work associated with the development hereby approved shall be carried out outside of the hours of 07.30 hours-18.00 hours Monday-Saturday, nor at any time on Sundays and bank holidays, unless otherwise agreed in writing by the local planning authority.

Outline Planning Permission - Appn ref 4/16/2415/001 (Phase 2)

Condition 5

There shall be no vehicular access to, or egress from the site other than via the approved access, unless otherwise agreed by the Local Planning Authority.

Condition 10

No development shall take place until a construction method statement has been submitted to and approved in writing by the local planning authority. The approved statement shall be adhered to throughout the construction period. The statement shall include:

- the means of access for demolition and construction traffic;
- the loading and unloading of plant and materials;
- the storage of plant and materials used in construction, including measures to prevent silt and other containments entering surface water drains and a scheme for recycling/disposing of waste resulting from construction works.

Condition 11

No construction work associated with the development hereby approved shall be carried out outside of the hours of 07.30 hours-18.00 hours Monday-Saturday, nor at any time on Sundays and bank holidays, unless otherwise agreed in writing by the local planning authority.

s73 Permissions - Appn ref 4/24/2036/0B1 (Phase 1) and Appn ref 4/24/2035/0B1 (Phase 2) both contain the following planning conditions:

Condition 4

Development must be undertaken in accordance with the conclusions and mitigation measures set out within the Phase II: Ground Investigation Report, written by GEO Environmental Engineering, received 3rd January 2023 at all times.

Condition 5

No development must commence (including any earthworks) until details of the means of ensuring the water mains that are laid within the site boundary are protected from damage as a result of the development have been submitted to and approved by the Local Planning Authority in writing. The details must include a survey of the exact location of the water mains (line and depth) and outline the potential impacts on the water mains from construction activities and the impacts post completion of the development and identify mitigation measures, including a timetable for implementation, to protect and

prevent any damage to the water mains both during construction and post completion of the development. Any mitigation measures must be implemented in full in accordance with the approved details.

Condition 6

All hard and soft landscaping works must be carried out in accordance with the approved details. The works must be carried out in the first planting season following the completion of the development. Any trees/shrubs which are removed, die, become severely damaged or diseased within five years of their planting must be replaced in the next planting season with trees/shrubs of similar size and species to those originally required to be planted unless the Local Planning Authority gives written consent to any variation.

Condition 7

Artificial lighting used within the development must confirm to requirements to meet the Obtrusive Light Limitations for Exterior Lighting Installations contained within the Institute of Light Engineers Guidance Notes for the Reduction of Obtrusive Lighting GN01 dated 2005.

Condition 9

The existing stone wall which fronts onto Harras Road shall be retained as part of the development.

- 2.2. In addition to those planning conditions noted in 2.1 above, the following planning conditions require relevant information to be submitted and approved by the Local Planning Authority prior to commencement of development:

Outline Planning Permission - Appn ref 4/16/2416/001 (Phase 1)

- Condition 6: carriageways, footways, footpaths and cycleways.
- Condition 7: ramps to junctions for wheelchairs and pushchairs.
- Condition 10: a programme of archaeological works.
- Condition 11: a scheme for disposal of foul and surface water.
- Condition 12: a surface water drainage scheme.
- Condition 13: a foul water drainage scheme.

Outline Planning Permission - Appn ref 4/16/2415/001 (Phase 2)

- Condition 6: carriageways, footways, footpaths and cycleways.
- Condition 8: ramps to junctions for wheelchairs and pushchairs.
- Condition 13: a programme of archaeological works.
- Condition 14: a scheme for provision of affordable housing.
- Condition 15: a scheme for disposal of foul and surface water.
- Condition 16: a surface water drainage scheme.
- Condition 17: a foul water drainage scheme.
- Condition 18: a condition survey of the existing connection to the ordinary watercourse.

S73 Permissions - Appn ref 4/24/2036/OB1 (Phase 1) and Appn ref 4/24/2035/OB1 (Phase 2) both contain the following planning conditions:

Condition 3: highway adoption and management company areas.

It should be noted that DEVELOPMENT MUST NOT COMMENCE PRIOR TO FORMAL DISCHARGE OF ALL PRE-COMMENCEMENT PLANNING CONDITIONS. Therefore, you should seek confirmation that these planning conditions have been discharged before proceeding with any construction activity. For the avoidance of doubt, this does not prevent ground investigation activity.

- 2.3. Additionally, prior to commencement of any superstructure, each s73 Permission requires the following planning conditions to be formally discharged:

Condition 8: samples and details of materials for external surfaces.

It should be noted that COMMENCING DWELLING SUPERSTRUCTURES MUST NOT TAKE PLACE PRIOR TO COMPLIANCE WITH THESE PLANNING CONDITIONS. Therefore, you should seek confirmation that these planning conditions have been discharged before proceeding with construction of any building superstructure.

- 2.4. Additionally, prior to occupation of dwellings, each s73 Permission requires compliance with the following planning conditions:

Condition 7

No dwellings shall be occupied until the approved estate roads including footways and cycleways to serve such dwellings have been constructed in all respects to base course level and street lighting where it is to form part of the estate road has been provided and brought in to full operational use.

It should be noted that OCCUPATION OF DWELLINGS MUST NOT TAKE PLACE PRIOR TO COMPLIANCE WITH ALL PRE-OCCUPATION PLANNING CONDITIONS. Therefore, you should ensure compliance with these planning conditions before allowing occupation of each dwelling.

- 2.5. This Construction Management Plan ("CMP") takes account of the requirements of those planning conditions noted in 2.1 above. Construction must be carried out in accordance with this CMP at all times.
- 2.6. A copy of this CMP is to be kept on site at all times together with records of monitoring, complaints and resulting actions taken (if any).
- 2.7. All contractors' personnel will be formally inducted onto site and this CMP will form part of that induction process. Records of all inducted personnel shall be kept on site for the duration of the project.

PROJECT DETAILS

3. Site Address

3.1. The address of the site is:

Site at Harras Dyke Farm, Harras Moor, Whitehaven, Cumbria.

3.2. The development name, specific street addresses and respective postcodes will be confirmed in the future.

4. Project description and overview

4.1. The project involves:

- 4.1.1. Residential development in accordance with details approved by the Planning Approval(s).
- 4.1.2. Construction may be undertaken in a single phase, or multiple phases as shown on the attached Site Management Plan (Appendix A).
- 4.1.3. An existing public footpath (Footpath No 431022) crosses the site as shown on the Site Management Plan. An application to divert this public footpath is awaiting determination. Subject to approval of such diversion application, the new diverted route is shown to the southern and eastern perimeter of the site, as shown on the Site Management Plan. A temporary footpath diversion order may be required during construction of the development.
- 4.1.4. Infrastructure to be installed includes a minor road network and a foul/surface water/SuDS network, both connecting to existing infrastructure at the boundary of the site.
- 4.1.5. Existing utility infrastructure is to remain in place and will be protected during the works (as agreed with the relevant utility owner/operator). Existing land drainage routes from adjacent land to the north and east will be maintained and amendments to the existing land drainage network will be carried out to ensure it continues to operate effectively post-development of the site.
- 4.1.6. New utility networks (electricity, water, telecoms and, potentially, gas) will be provided and public open space(s) will be laid out.
- 4.1.7. These serve a development of 90 No new dwellings, many with garages, that have private front and rear gardens.
- 4.1.8. Off-site works are anticipated to be limited to foul drainage and utility connections, plus minor s278 works along the site frontage.

SITE MANAGEMENT MEASURES

5. Working Hours and Good Neighbour practices

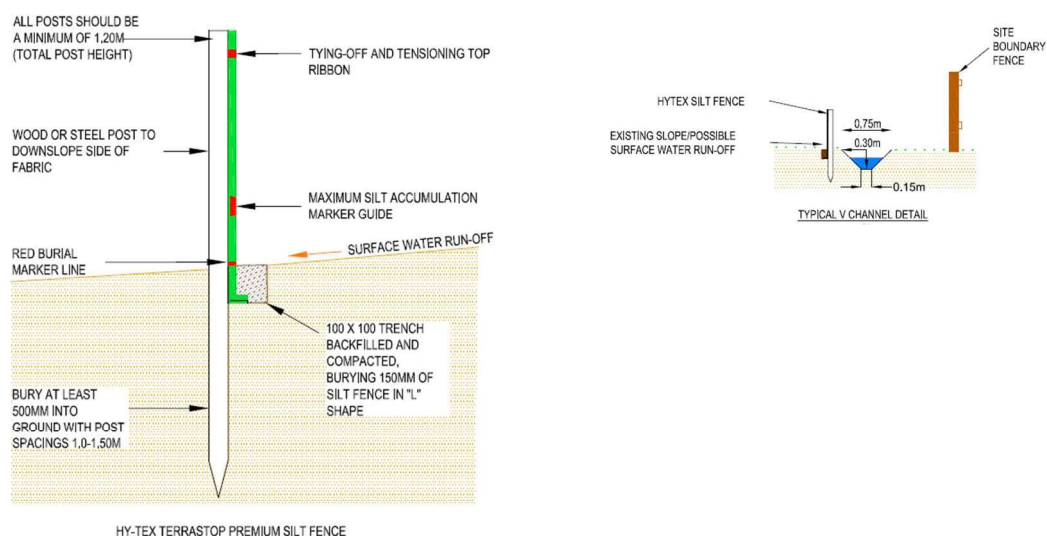
- 5.1. Unless otherwise agreed in writing by the Local Planning Authority, working hours for the site shall be limited to:
- 07:30 to 18:00 on Monday to Saturdays.
 - No working on Sundays or Bank Holidays.
- 5.2. For the avoidance of doubt, no loading and/or unloading of plant and materials shall take place outside of working hours.
- 5.3. Vehicles and mechanical plant shall not operate or be switched on and left to idle (eg for the purposes of defrosting or warming up) outside of working hours.

6. Surface water management measures

- 6.1. During the construction process, surface water run-off from site will be controlled to mitigate against flooding of adjacent properties and prevent siltation or contamination of the downstream drainage network/watercourses. The following measures will be considered and installed where necessary:

Interception Channels and Silt Fences

- 6.2. Silt laden run-off can be expected from any areas of exposed soil, aggregate or rock. This run-off must be intercepted and treated to prevent it leaving site or entering the drainage network. Temporary V-shaped interception channels with a silt fence located on the inner side, where appropriate, will be installed within the vicinity of above ground drainage routes to remove suspended silts and solids before they enter drainage networks/watercourses. Interception channels will discharge to existing drains. Indicative details are shown below:



- 6.3. Channels should have a longitudinal gradient of no less than 1:100 towards the outlet, be vegetated as soon as practical to assist with reducing flow velocity and sediment removal, and discharge into a silt trap prior to a connection to the downstream surface water network.
- 6.4. Weekly inspections of silt fencing and channels will be undertaken with appropriate removal and disposal of collected silts.

Offsite watercourses

- 6.5. Daily visual inspections of the existing surface water drains will be undertaken to ensure the protection of adjacent and downstream watercourses.

Topsoil Removal

- 6.6. Topsoil will remain in place for as long as possible and will be stripped using a phased approach to reduce surface water run-off and allow natural infiltration. Where possible, topsoil will be placed in proposed garden and landscaped areas at the earliest opportunity to reduce surface water run-off.

Stockpiles

- 6.7. Stockpiles of materials will not be located in close proximity to existing drainage ditches or proposed surface water attenuation features and will be bunded.
- 6.8. Subsoils will be covered with topsoil to prevent wash off of fine sediments.
- 6.9. Topsoil will be allowed to establish vegetation to minimize surface water run-off.

Foundations & Excavations

- 6.10. Surface water that has collected in local low spots (such as excavations or plot foundations) will be allowed to infiltrate to ground naturally if possible. Where pumping is required, surface water will be pumped and spread onto an adjacent area of topsoiled landscaping and be allowed to infiltrate or run-off naturally.

Road Gullies

- 6.11. Gully bags will be installed in every road gully on the development to capture suspended solids and to prevent them from entering the surface water drainage system.
- 6.12. Road gullies will be monitored on a weekly basis to ensure that any silt build up is stored in the trapped area of the gully and is not overflowing into the drainage system.

Sewer Cleaning

- 6.13. New sewers will be jetted clean prior to connection to the surface water outfall to prevent silt and construction debris from entering the surface water network.

Road Cleaning

- 6.14. The Site Manager will ensure a mechanical road sweeping machine is used to clean all new and existing roads both on the development and in the area of the site access to ensure that material and sediment is not deposited onto roads and washed into gullies on and in the vicinity of the site.

Foul Water

- 6.15. Foul water from temporary site facilities shall, preferably, connect directly to the existing foul sewer network via an approved temporary connection. Where this is not possible, foul water shall drain to a suitable storage tank and will be removed from site at regular intervals by a suitably licensed operator.

Maintenance

- 6.16. Inspections of surface water drainage systems are to be undertaken by site representatives and include, but are not limited to, the following;
- Daily inspection of on-site watercourses/channels to ensure any contaminants are prevented from discharge further downstream.
 - In the event of a spillage or contaminated water entering the network, surface water should be contained locally within the immediate drainage system and prevented from leaving the site. Contaminated water should be disposed of in a controlled manner to either a foul sewer (with UU's prior agreement) or removed from site by a suitably licensed operator.
 - Weekly inspections and maintenance of surface water drainage systems to ensure they are free of silt and construction debris.
 - Weekly inspections and maintenance of all road gullies (including gully bags) to check silt levels and ensure no silt or debris is entering the drainage system.
 - Weekly inspection and maintenance of discharge points, outfall structures, flow controls, silt trap manholes and any temporary features such as interception ditches and silt fences.
- 6.17. A record of inspection and maintenance regimes shall be kept at all times and made available at the request of the Local Planning Authority/Lead Local Flood Authority.

7. Protection of existing United Utilities underground water mains

Generally

- 7.1. Large diameter high pressure water mains exist under this site. They are protected by legal rights/obligations and all construction operatives should be made aware that working in vicinity of these water mains also carries significant health & safety implications, as any potential damage could be lethal to those working close by. Additionally, the volume of water these pipes carry is huge and damage to properties caused by uncontrolled water from damaged pipes is likely to be significant. EXTREME

CAUTION IS THEREFORE NECESSARY WHEN WORKING IN CLOSE PROXIMITY TO EXISTING WATER MAINS.

- 7.2. The location and depth of existing UU assets (comprising a 350mm dia spun iron water main and a 400mm dia PE water main within the southern site boundary broadly running parallel to Harras Road, and a 600mm dia PE water main within the eastern site boundary broadly running parallel to Red Lonning) have previously been verified via 'trial-pitting' undertaken in conjunction with Joe Potts of United Utilities during September 2021. A copy of the survey drawing is attached at Appendix B.
- 7.3. A 'water main protection zone' is to be implemented along the entire length of each water main and extending a minimum of 5m on both sides of each water main. For the avoidance of doubt, United Utilities has legal rights to enter upon the water main protection zone for the purposes of managing and maintaining their assets.
- 7.4. Prior to construction commencing on site, including any works associated with provision of either temporary access as noted below, the location of existing water mains and the extent of the water main protection zone shall be marked at ground level by use of suitable markers. Those markers shall be retained in position for the duration of the works. These markers may only be moved temporarily for the purposes of approved construction activities and shall be reinstated as soon as practically possible once those activities have been undertaken.
- 7.5. The site layout has been designed to minimise impact upon existing water mains by generally avoiding excavation works within the water main protection zone. Nevertheless, drainage routes cross the water mains at 7 No locations and utilities cross beneath the main site access. These locations are identified on RG Parkins drwg no K40340-40 (see Appendix C). The water main protection zone is highlighted yellow on that drawing.
- 7.6. All construction activities within the water main protection zone involving excavation shall be subject to an approved 'permit to dig' protocol, as set out in Appendix D.
- 7.7. For the avoidance of doubt, these additional control measures apply only to proposed works within the extent of the water main protection zone. They do not apply to proposed activities outside the water main protection zone.
- 7.8. It should be noted that standard health & safety requirements and control measures apply to all proposed works whether they are inside or outside of the water main protection zone.

Temporary works protection measures (main and secondary accesses)

- 7.9. Temporary access to site is restricted to two locations, being:
 - 7.9.1. The main (permanent) site access off Harras Road, and;
 - 7.9.2. A secondary emergency vehicle access ("EVA") also being located off Harras Road.
- 7.10. Within the water main protection zone, no excavation other than removal of topsoil shall take place to form either temporary access without obtaining prior written approval from United Utilities to proposed asset protection measures. Removal of topsoil and

construction of temporary access(es) shall be subject to the approved permit to dig protocol (see Appendix D).

- 7.11. Materials placed to form temporary access roads shall be inert, free of deleterious materials and suitable for use in road construction. Granular fill materials shall be placed on the subsoil formation, rolled in 150mm layers using a non-vibrating roller and brought to required level(s).
- 7.12. In the absence of any temporary (or permanent) tarmac running surface, temporary ground protection mats should be laid on the surface of temporary access roads across the full extent of the water main protection zone.

United Utilities asset protection measures (activities other than formation of main and secondary accesses)

- 7.13. Other than for the construction of temporary access roads as noted above, no excavation other than removal of topsoil shall take place within the water main protection zone without obtaining prior written approval from United Utilities to proposed asset protection measures. Removal of topsoil shall be subject to the approved permit to dig protocol (see Appendix D).
- 7.14. UU asset protection measures are in addition to permit to dig protocols and are to be completed prior to commencement of relevant works. They comprise:
 - 7.14.1. Initial contact with United Utilities.
 - 7.14.2. Submission of permit to dig information in accordance with the protocol in Appendix D.
 - 7.14.3. Written approval from United Utilities to the proposed works (either with or without appropriate conditions).
- 7.15. Works subject to UU asset protection measures must be carried out in strict accordance with UU written approval.

8. Contractor/Visitor Access and Parking (please refer to the Site Management Plan in Appendix A)

- 8.1. Wherever possible, contractors shall reduce the volume of contractor vehicles on site by taking steps to encourage shared and efficient use of essential work vehicles and discouraging frivolous use of unnecessary work vehicles or private transport.
- 8.2. Access to the development site shall be limited to the route shown on the Site Management Plan. Please note that, for construction of the foul sewer, utility connections and s278 works, construction activity will also take place in the Off-site Construction Zone as indicated on the Site Management Plan.
- 8.3. Contractors shall only park in the designated parking area shown on the Site Management Plan.
- 8.4. Visitors associated with construction of the project will park within designated parking areas and then report immediately to the Site Office where their attendance on site shall be recorded by the site management team.

- 8.5. Visitors interested in viewing and/or purchasing a dwelling on the completed scheme will be directed to the site show home area which will include designated Visitor parking bays.
- 8.6. Owners/occupiers of dwellings on completed parts of the scheme will have safe access routes from the public highway utilising newly constructed roads within the scheme that are to be designed and built to adoptable standards and brought into use, in appropriate phases, prior to occupation. Completed dwellings will have appropriate parking provision.

9. Plant and Materials – loading, unloading and storage

- 9.1. All loading and unloading of plant or materials must take place within the site boundary or, if appropriate, within the Off-site Construction Zone, and not in the public highway. Delivery vehicles shall drive onto site (or, if appropriate, into the Off-site Construction Zone) via the designated Construction Access(es) as shown on the Site Management Plan and must not park or stop on the public highway.
- 9.2. Loading and unloading of plant will take place in designated areas only, as shown on the Site Management Plan.
- 9.3. Loading and unloading of materials will take place either within the designated materials handling/storage area or, within the loose material storage area or, where appropriate, directly to the relevant dwelling/plot. If appropriate, materials may also be delivered directly into the Off-site Construction Zone.
- 9.4. Loading and unloading of materials will utilise mechanical lifting equipment (such as all-terrain forklift trucks, tipping vehicles, wheeled excavators and crane) in addition to manual methods. Such mechanical lifting equipment, whilst efficient, can also be noisy and contractors should have due regard to this when selecting the most appropriate method of loading/unloading (i.e. loading should take place swiftly and with as little noise and disturbance to neighbours as possible).

10. Site Security

- 10.1. The perimeter of the site shall be secured by a 'Heras' type temporary fencing system that is appropriately secure and stable for site and weather conditions. This temporary fence shall be checked prior to the end of each workday and shall be retained in full operation for as long as it reasonably possible, taking into account sale, occupation and access to completed dwellings. When it is reasonable and appropriate to do so, temporary perimeter site fencing shall be replaced with permanent plot boundary fencing, so long as said permanent fencing provides adequate security from unauthorised intruders.
- 10.2. The perimeter of the Off-site Construction Zone shall also be secured using a 'Heras' type temporary fencing system. It shall be managed and maintained to the same standards as the site perimeter fence referred to in the preceding paragraph.
- 10.3. As specific dwellings on the scheme are sold and occupied, it will be necessary to remove the temporary perimeter security fence to sold plots and simultaneously erect temporary 'heras-type' security fencing between completed and 'under-construction' areas of the scheme. The Site Manager shall manage this in accordance with current industry practice.

- 10.4. The contractor may erect solid hoarding around its plant and material storage areas as shown on the Site Management Plan. Such areas may also incorporate security lighting and security alarm systems (including CCTV systems).

11. Measures to control the emissions of dust and dirt (including wheel wash facilities)

- 11.1. For clarity, the following dust and dirt control measures also cover other emissions to Air, such as fumes and smoke.
- 11.2. All plant and equipment shall be maintained in accordance with manufacturer's recommendations to ensure emissions to atmosphere are minimised.
- 11.3. Engines of plant, machinery and vehicles shall be turned off at all times when not in use.
- 11.4. Stored materials liable to dust generation shall be dampened down, covered with tarpaulin, or otherwise contained as far as reasonably possible.
- 11.5. Drop heights from plant and machinery will be minimised and water suppression sprays will be used where necessary.
- 11.6. All vehicles carrying dusty materials shall be securely covered.
- 11.7. Dust and dirt will be minimised through Elimination – Substitution – Isolation – Control measures. This will be done by shutting plant down when not in use to eliminate the problem. It may be necessary to substitute plant or methods to improve outcomes. If excessive dust remains a problem, then the problem should be isolated by moving plant to another area of site away from neighbours. If the plant cannot be moved anywhere else, then it is appropriate to control matters by erecting screens or enclosures.
- 11.8. Prior to starting any works which would create excessive dust and/or dirt, site management will notify neighbours of the expected nature and duration of those activities.
- 11.9. Basic precautions to minimise dust generated on site include using covered waste skips, water suppression, segregation and exclusion using impermeable barriers. Excessive dirt (such as mud) can be reduced by carrying out dirt generating activities in appropriate weather conditions.
- 11.10. Temporary haul roads will usually be of hardcore/crushed material construction and will be sprayed regularly when appropriate to minimise dust. If they have a bound surface, it will be swept on a regular basis as determined by the Site Manager, based on site conditions. This approach will assist in keeping vehicles relatively clean and significantly reduce the likelihood of dust/dirt on roads in the immediate vicinity of the site.
- 11.11. Cleaning of permanent surfaced roads will be carried out on a minimum weekly basis by a contracted road sweeper, with frequency increased as determined by the Site Manager based on site conditions. Swept areas will extend beyond site to include site entrances and existing highway(s) in the immediate vicinity of the site affected by site traffic. Additional sweeping may be required depending on specific site operations (eg import/export of excavated materials) and prevailing weather conditions.

- 11.12. Wheel washing facilities (i.e. a pressure washer) will be available at the site compound and a designated wash area is shown on the Site Management Plan).
- 11.13. Site management will monitor dust/dirt production at regular intervals during the day and record their findings, with records to be kept on file in the site office. These records must be made available to the Local Planning Authority on request.
- 11.14. All vehicles will enter/exit site via the designated access points as shown on the Site Management Plan.
- 11.15. Loose materials will be stored on site and will be closely monitored to reduce the potential for airborne dust. Imported fill materials will be placed directly into final position when reasonably possible. In prolonged periods of dry weather, reasonable measures will be taken to suppress dust by water spraying.
- 11.16. Where small tools are used, appropriate dust suppression will be utilised in accordance with best practice and relevant H&S protocols. Cutting and Grinding on site should be kept to a minimum but where necessary, it should be carried using equipment fitted with silencers and water suppression devices.
- 11.17. In the event of a complaint about dust/dirt however received, the Site Manager is responsible for following the complaint through to resolution and initiating any necessary corrective action. Appropriate and reasonable remedial action will be taken to address complaints and the Site Manager will check and verify that the corrective action has been successful and to what degree. The complainants shall be notified of corrective measures and a record kept on site. The file shall be available for inspection by the Local Planning Authority on request.

12. Waste Management

- 12.1. There shall be NO waste burnt on site.
- 12.2. At all times, there shall be an appropriate means of waste disposal in place. This will usually be one or more covered skips located as shown on the Site Management Plan. Where possible, designated skips for recyclable waste shall be available.
- 12.3. Appropriate waste transfer and/or disposal documentation shall be made available for the Local Planning Authority on request.
- 12.4. All waste materials on site shall be adequately secured to prevent unnecessary and unsightly dispersal of materials around the site, public areas (streets, SuDS areas and open spaces) and into the wider environment.
- 12.5. Waste materials shall not be stored on site for unnecessary or unreasonably prolonged periods and should be removed from site as soon as reasonably practicable.

13. Traffic and transport routes to/from site

- 13.1. The site is directly accessed from Harras Road, which directly abuts the southern site boundary. See Site Management Plan for further details.

- 13.2. It is proposed to implement a temporary 'site' speed limit of 10mph for vehicles travelling through the site during construction, increasing to a 20mph limit in occupied sections of the development when roads/footways/streetlighting are fully operational. Drivers should also drive appropriately for site conditions and be vigilant of children and other pedestrians who may be present. It is noted that roads within occupied sections of the development will not have a final wearing course until the overall development is complete and, consequentially, that ironwork to access chambers and gullies will be raised. This assists in calming traffic speeds through temporary horizontal and vertical deflection in addition to temporary speed signage.

14. Existing Ground Conditions

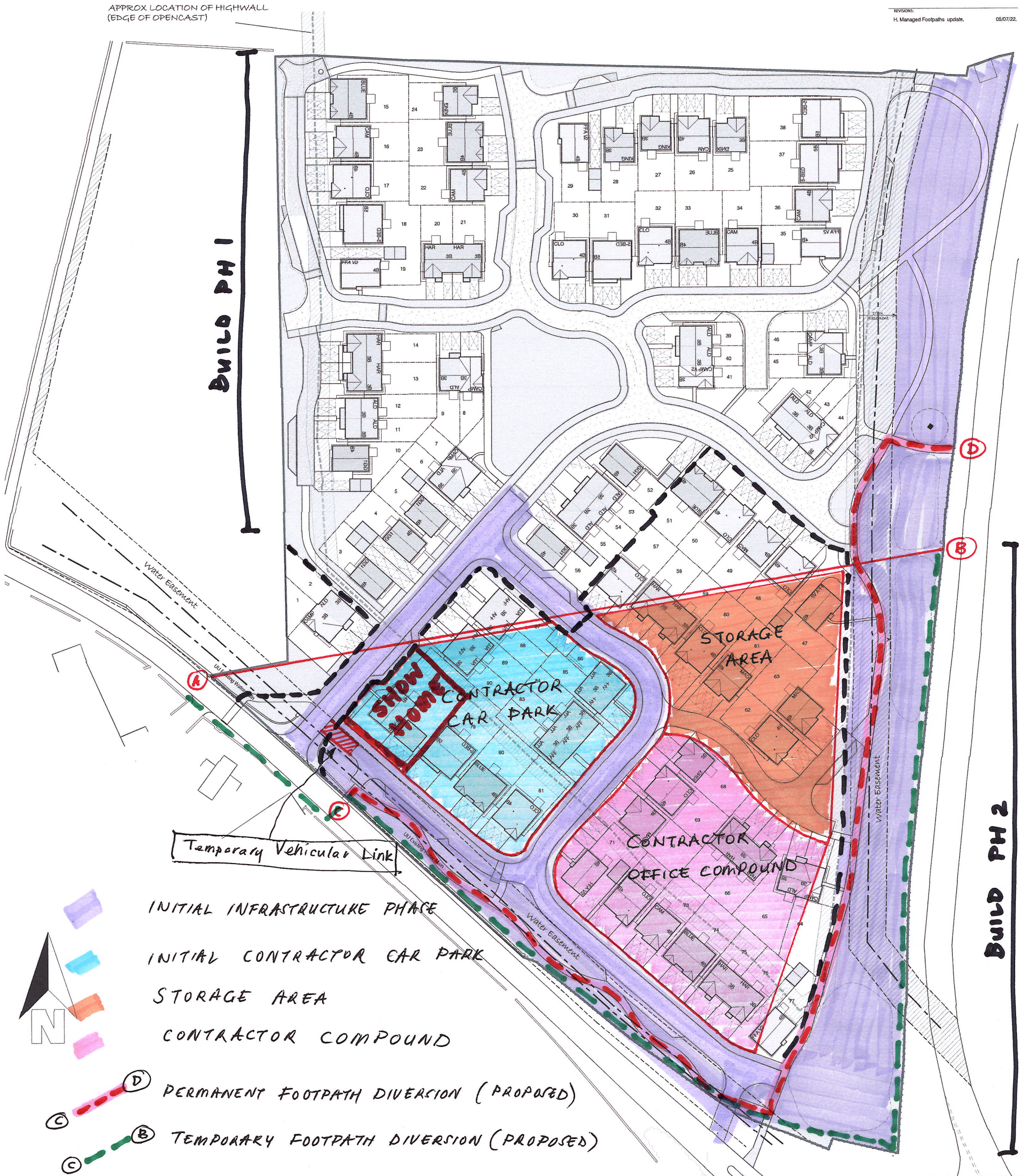
- 14.1. Please refer to separate Phase 2 (Intrusive) Ground Investigation documents for further details.

15. Existing Archaeological Conditions

- 15.1. In discussion with the Council's Archaeological Officer (Jeremy Parsons), it is acknowledged that this site is previously disturbed ground, and its archaeological potential is therefore limited. On this basis, an application to discharge archaeologically related planning conditions without further archaeological investigation is to be submitted and will be supported by the Council's Archaeological Officer.

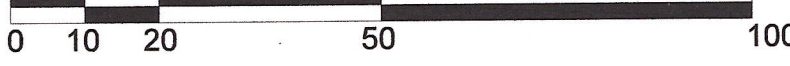
APPENDICES

APPENDIX A – SITE MANAGEMENT PLAN

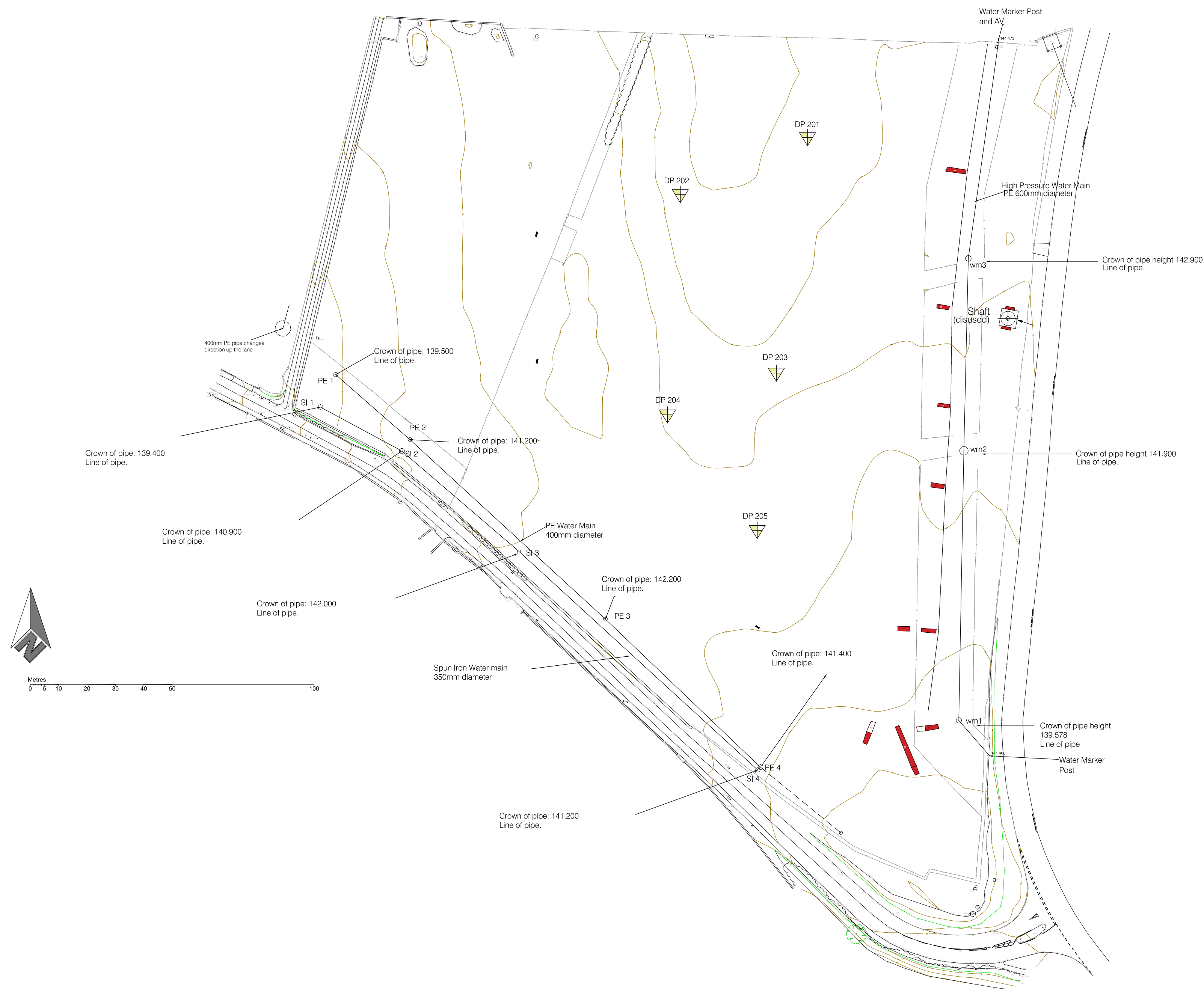


Mix Schedule				SQ M	SQ Ft	Units	Total SQ M	Total SQ Ft
JIA	JIA (AFF)	3-Bed	Semi / Terr	83.2	896	9	749	8060
ALD	ALDER	3-Bed	Semi / Terr	85.7	922	14	1200	12915
CAMP V2	CAMPION	3-Bed	Semi / CT	97.4	1048	7	682	7339
HAR	HAREBELL	3-Bed	Semi	102.2	1100	10	1022	11001
KING	KINGCUP	3-Bed	Det	102.2	1100	5	511	5500
GG1	GG1	4-Bed	Det	116.0	1249	6	696	7492
CAM	CAMPBOR	4-Bed	Det	128.5	1383	10	1285	13827
FFA	FFA	4-Bed	Det / CT	140.2	1509	7	981	10564
CLO	CLOVER	4-Bed	Det	143.7	1547	11	1581	17015
BLUE	BLUEBELL	4-Bed	Det	159.6	1718	6	958	10308
5-BED	5-BED	5-Bed	Det	175.4	1888	5	877	9439
				Totals		90	10,541	113,460
				No	%			
3 Bed Semi				Total	40	44		
3 Bed Detached				Total	5	6		
4 Bed Detached				Total	40	44		
5 Bed Detached				Total	5	6		
				Total	90	100		

CONSTRUCTION
MANAGEMENT
PLAN



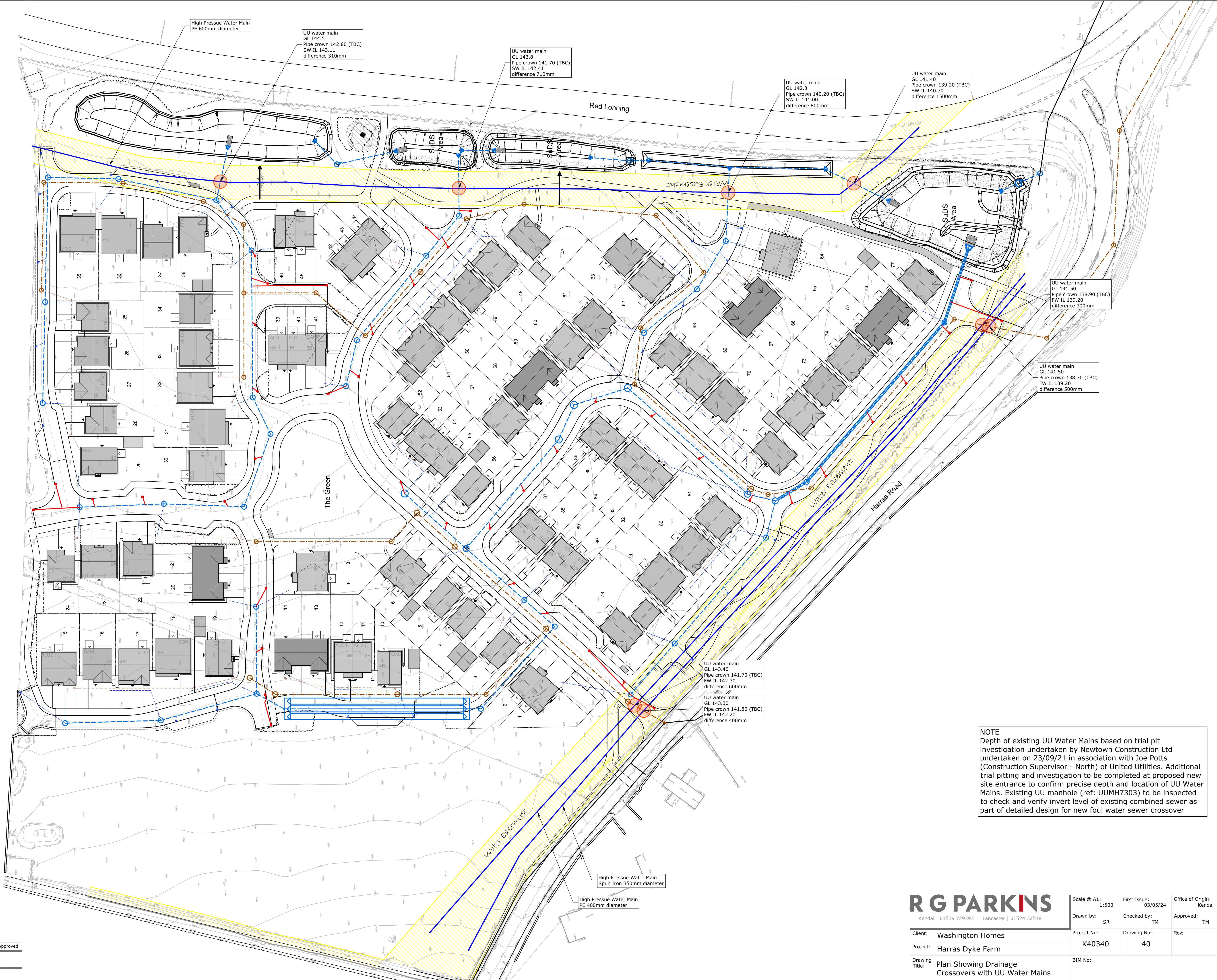
APPENDIX B – UU SURVEY DRAWING



Site at
Harras Dyke Farm
Whitehaven, Cumbria.

Drawing:
Survey of depth / alignment of existing
UU underground water mains (via trial
pitting).

APPENDIX C – RG PARKINS DRWG NO K40340-40



NOTE
Depth of existing UU Water Mains based on trial pit investigation undertaken by Newtown Construction Ltd undertaken on 23/09/21 in association with Joe Potts (Construction Supervisor - North) of United Utilities. Additional trial pitting and investigation to be completed at proposed new site entrance to confirm precise depth and location of UU Water Mains. Existing UU manhole (ref: UUMH7303) to be inspected to check and verify invert level of existing combined sewer as part of detailed design for new foul water sewer crossover

R G PARKINS
Kendal | 01539 729393 Lancaster | 01524 32548

Client: **Washington Homes**
Project: **Harras Dyke Farm**
Drawing Title: **Plan Showing Drainage Crossovers with UU Water Mains**

Scale @ A1: 1:500	First Issue: 03/05/24	Office of Origin: Kendal
Drawn by: SR	Checked by: TM	Approved: TM
Project No: K40340	Drawing No: 40	Rev:
BIM No:		

Rev	Description	Date	Revised by	Checked by	Approved
	Planning				
Do not scale from this drawing					

APPENDIX D – PERMIT TO DIG PROTOCOL

These procedures apply to any excavation within the water main protection zone as highlighted yellow on the RG Parkins drwg no K40340-40 (refer to Appendix C).

No excavation, other than removal of topsoil, shall take place within the water main protection zone unless a Permit to Dig Notice has been issued by the Site Manager following the protocols below. An example Permit to Dig Notice is attached to this document.

1. The request for a permit to dig is to be made immediately prior to carrying out excavation works within the water main protection zone. This is to ensure that excavation works within the water main protection zone are closely controlled/supervised.
2. The permit request shall be made by the person in charge of the excavation to the Site Manager and shall be accompanied by:
 - a. Evidence that a review of all existing service/utility drawings within the proposed working area has taken place.
 - b. Evidence that a CAT scan/survey of the proposed working area has taken place.
 - c. Evidence that existing services/utilities are marked on the ground.
 - d. A method statement and risk assessment(s) clearly identifying the risks associated with working in close proximity to the existing water mains and setting out a step-by-step approach to protecting the water main and undertaking the proposed works.
 - e. Evidence that the person in charge of the excavation and all operatives and all plant operators who will be involved in carrying out the excavation are suitably qualified and fully conversant with safe digging practice and avoidance of underground services. A written log listing those who are authorised to work within the excavation is required, and it should be signed by each individual to acknowledge their understanding of both the risks and the proposed works.
 - f. Evidence of compliance with any specific United Utilities requirements (eg notification, presence of UU site inspection/supervision, etc).
3. The Site Manager shall only issue a Permit to Dig Notice when satisfied with all matters noted above.
4. The Site Manager shall monitor the works to ensure they are being carried out in strict accordance with the Permit to Dig Notice.
5. At completion of the authorised works, the person in charge of the excavation shall inspect the works in conjunction with the Site Manager prior to closure of the Permit to Dig Notice. The Permit to Dig Notice should only be closed once all works are satisfactorily completed. Once the Permit to Dig Notice is closed, it cannot be reopened and, if further works are required, a new Permit to Dig Notice shall be requested in accordance with this protocol.
6. Should it be necessary, the Site Manager shall withdraw the Permit to Dig Notice where they deems it is either (i) unable or unsafe to proceed in accordance with the approved documents or (ii) there is a breach of compliance with those approved documents. In such circumstances and if required, a new Permit to Dig Notice shall be requested in accordance with this protocol.

GD12 Permit to dig

Work must not start until Sections A, B and C of this permit have been completed and signed by authorised persons.

Company name		Project title	
Location		Contract no.	
Section A. Project details (To be completed by project or package manager)			
Contractor			
Date and time issued		Completion date	
Supervisor in charge of works (Print name)		Operatives (Print name)	
Brief description of works			
Section B. Precautions to be taken before work is carried out (To be completed by the supervisor in charge of the works)			
Essential procedures	Yes	No	Comments
1. Contract drawings and details issued by the client or otherwise obtained.	☐	☐	
2. Drawings show the location, type and status of underground services.	☐	☐	
3. Live services made dead as far as possible or necessary.	☐	☐	
4. Work area surveyed by a competent person, using appropriate detection equipment to confirm the exact location of underground services.	☐	☐	
5. Location of services marked on the ground.	☐	☐	
6. Valid method statement and risk assessment in place.	☐	☐	
7. Method statement and risk assessment explained to the operatives carrying out the work.	☐	☐	
8. Person in charge of the excavation is fully conversant with the principles of safe digging and/or avoidance of underground services.	☐	☐	
9. All operatives familiar with safe excavation practices.	☐	☐	
10. If plant is being used, operator is competent and familiar with safe excavation practices.	☐	☐	
11. State type, serial number and calibration test date of cable avoidance equipment used.	☐	☐	
Confirmation by contractor's supervisor: I confirm that the precautions specified above will be complied with and I will ensure that the persons carrying out the work, described above, are fully briefed on the safe method of work.			
Name		Position	
Signature		Date	
Confirmation by operator(s): I understand the precautions to be taken in carrying out the works.			
Name		Position	
Signature		Date	

GD12 Permit to dig *continued*

Section C. Completion of work

(To be completed by the supervisor in charge of the works)

I am satisfied that:

- the excavation has been backfilled and the surface reinstated*
- the work is completed and the area has been left in a safe condition*
- the work area is clear of operatives and all equipment*
- the utility company(ies) has been informed that services made dead may now be reactivated*.

I am **not** satisfied that the work has been completed satisfactorily; the additional work described below must be completed before this permit may be cancelled*.

* Delete as appropriate

Name		Position		Signature		Date	
------	--	----------	--	-----------	--	------	--

Additional work that is necessary to enable this permit to be cancelled

Section D. Cancellation of permit

(To be completed by the supervisor in charge of the works)

I am satisfied that all work has been completed and this permit is now cancelled.

Name		Position		Signature		Date	
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