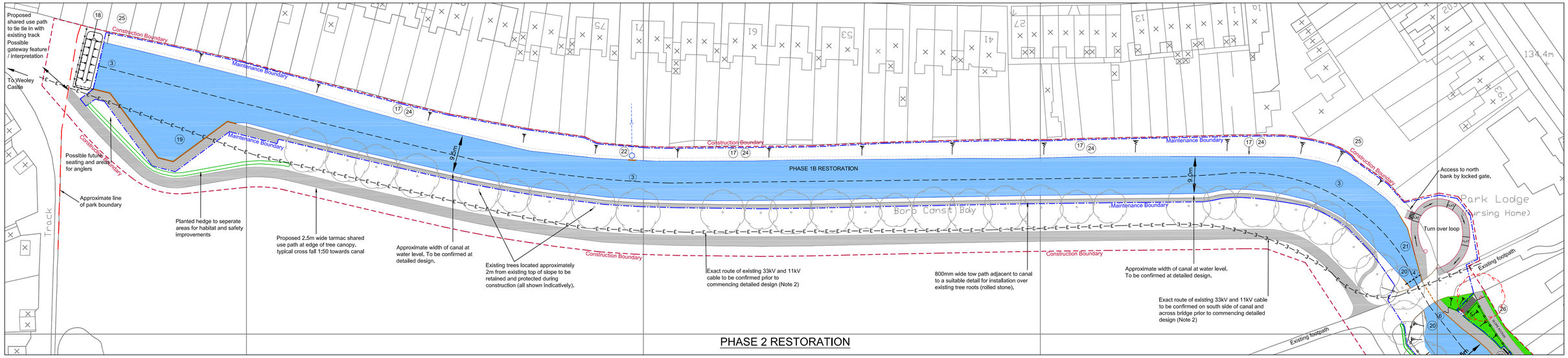
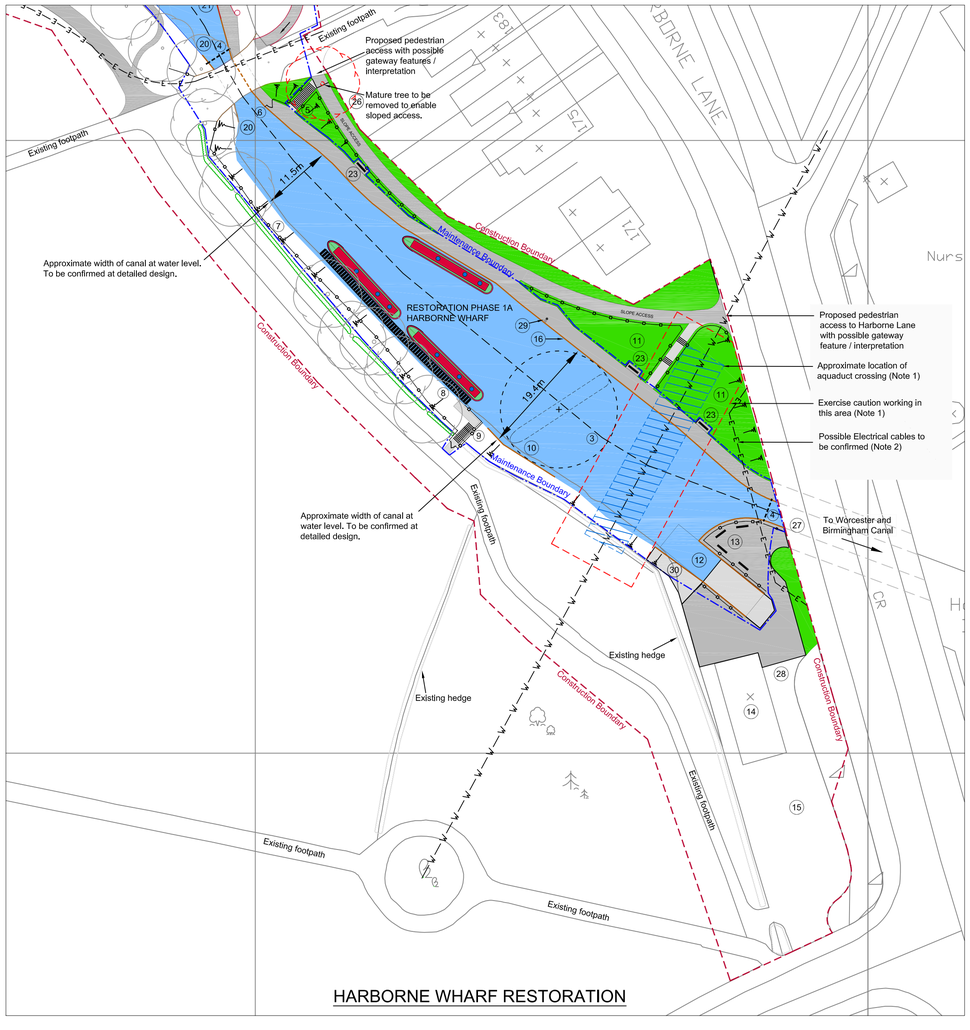
ATKINS



PHASE 2 RESTORATION



HARBORNE WHARF RESTORATION

NOTES

Constraints (discussed in detail in report)

1. The approximate route (centre line) of the water supply aqueduct is marked crossing the wharf. This structure has been drawn to scale based on as built drawings ,however, the exact location shall be confirmed prior to detailed design. The four 1.1m diameter cast iron pipes are surrounded by concrete. Works must be designed and carried out with caution in this area and the concrete surround must not be affected by the works. Severn Trent Water shall be consulted on works in this area. The as-built information for the aqueduct will be included in an appendix to the Outline Design Report.
2. Prior to detailed design a cable avoidance tool and trial holes shall be used on the west side of the bridge to confirm if any electrical cables have been laid in this area. Atkins requested that Central Networks confirm the presence of these on site but this has not been done. A cable avoidance tool and trial pits shall also be used on the southern side of the canal (phase 2), as drawings indicate that an 11kV and 33kV cable are present in this area. These cables have been jointed in many locations along their length suggesting that both cables are in a poor condition.
3. Information Provided by Severn Trent Water indicates that a surface water sewer has been laid in the bed of the former canal. This is omitted from the drawings for clarity, however, this starts close to the proposed wharf winding and continues to the western park boundary. It is assumed that the surface water sewer east of 71 Reservoir Road was designed to drain to the pipe between 71 and 75 Reservoir Road. It is assumed that the sewer to the west of this drains off site below the existing footpath at the north west corner of the park. It is likely that this surface water sewer will have to be removed.

Other Notes

4. Proposed stop log grooves (a location for stop log storage is to be confirmed).
5. Proposed step access adjacent to existing bridge.
6. Proposed gated access to north side of canal for maintenance and possible future long term mooring.
7. Proposed planting of hedge and fencing at top of slope to prevent access to slope and moorings.
8. 2Nr 1.2m wide 17m long pontoons for access to long term moorings.
9. Steps down to proposed moorings.
10. Proposed winding space for boats up to 19m long. Extent of dredging, retaining walls, and bank protection to be confirmed at detailed design.
11. Vegetation and trees to be removed / coppiced to improve line of sight from Harborne Lane to wharf for general visibility and security. Ground level to be re-profiled as necessary.
12. Slipway suitable for canoes and trailable craft.
13. Viewing and seating area with feature fencing / interpretation.
14. Scout hut and canoeing centre.
15. Potential for car park improvements. It may be possible to utilise the existing car park for the construction site compound.
16. Edge of wharf to be formed using existing wall (condition of wall and exact location to be confirmed at detailed design).
17. Possible future 600mm wide access path
18. Earth bund to be located to prevent overland flow from the canal. The post and rail fence will also act as a physical barrier at the end of the existing footpath.
19. Possible location for a winding for 22m long boats. Retaining wall to protect bank. However, this is likely to be dependant on location and depth of existing HV electrical services. This to be confirmed with cable avoidance tools and trial holes prior to commencing detailed design. If this is not constructed signage to be placed at junction with Worcester and Birmingham Canal to indicate, "No winding for boats exceeding 60ft in length".
20. Proposed section of wall to retain and protect slope adjacent to existing bridge.
21. Treatment of this area to be confirmed.
22. Possible draw down chamber re-using the existing 600mm diameter surface water drainage pipe for outfall, subject to investigation and consent.
23. Seating area.
24. There may be opportunities for end of garden and long term mooring at the rear of 1A to 97 Reservoir Road.
25. Boundary treatment to the rear of the properties on Reservoir Road and Harborne Lane to be agreed with property owners and Birmingham City Council as part of detailed design.
26. Details of vegetation removal have not been shown. However, it is generally assumed that all vegetation north of the existing path along the south side of the Phase 2 Restoration shall be removed, along with most of the self set vegetation on the north side of the Phase 2 Restoration. In addition at least one of the mature trees adjacent to the bridge will have to be removed.
27. Provision has been made to allow access under the Harborne Lane bridge from both sides of the canal as the designation of the paths through Battery Park has not been determined.
28. Demountable lockable vehicle bollards.
29. Water supply tap and gully draining to wharf.
30. Flat area for lowering canoes into wharf.

Services drawings were supplied to Atkins in December 2009. These have been used to mark some of the relevnt services onto this layout. THESE ARE ALL DRAWN INDICATIVELY FOR GUIDANCE ONLY. The location of all services shall be confirmed by trained staff with the use of cable avoidance tools and trial pits in liaison with the utilities providers.

KEY

	Areas requiring significant upgrading of soft landscaping
	New footpaths and access areas. See labels for details of materials.
	Approximate proposed water surface area.
	Canal centreline. Minimum 5.5m wide, 1.5m deep channel to be provided around centreline.
—W—W—	Existing major water supply aquaduct.
—E—E—E—	Existing electrical services
	Existing surface water sewer
Maintenance Boundary	Maintenance boundary - shows the proposed boundary of the land to be maintained as part of the navigation.
Construction Boundary	Construction boundary - approximate extent of land required during construction work.
	Proposed safety railing.

REVISIONS		Drawn By	Checked By	Date
A	Addition of turn over loop and other minor amendments	PP	JAT	17.02.10

PURPOSE OF ISSUE	Rev.	Authorised for issue	Date
Client – For Consultation	A	JAT	17.02.10
Client – For comment	–	JAT	11.01.10

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CLIENT
LAPAL CANAL TRUST

PROJECT
LAPAL CANAL RESTORATION
SELLY OAK PARK – OUTLINE DESIGN

DRAWING TITLE
INDICATIVE SCHEME LAYOUT

Scales	DRAWN	CHECKED	CO-ORD CHECK
1:500	PP	JAT	
	DATE 6.01.10	DATE 11.01.10	DATE

0 | SHEET A1 | PLOT DATE 17.02.10

DRAWING NO 5088079/DRG/01

REV -