

CROSS CONNECTION  
BETWEEN NEW DN800  
PIPELINES WITH DN800  
ISOLATION VALVES AND PRV

NEW DN800 PIPELINE  
TO SHILDON SR  
NEW DN800 PIPELINE  
TO LONG NEWTON SR

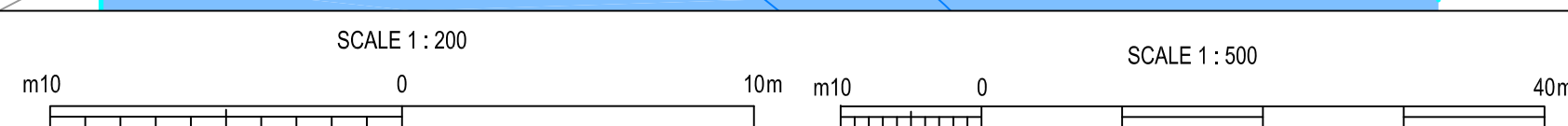
FOR DETAILS OF BRIDGE  
CROSSING SEE DRAWING  
WN019-0205-02-R1-DR-C-1302

CROSS CONNECTION  
BETWEEN NEW DN800  
PIPELINES WITH DN800  
ISOLATION VALVES

TRESSES AND VEGETATION TO BE  
REMOVED TO ALLOW SUITABLE  
WORKING AREA TO  
CONSTRUCT PIPEBRIDGE

SECTION THROUGH ABANDONED RAILWAY CROSSING  
SCALE 1:200

PLAN  
SCALE 1:500



DRG No.

**NOTES**

1. ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE.
2. WASHOUT AND PRESSURE MONITORING LOCATIONS HAVE NOT BEEN SHOWN AND ARE TO BE CONFIRMED WITH NWG OPERATIONS.
3. AIR VALVE LOCATIONS AND SECURITY MEASURES HAVE NOT BEEN SHOWN AND WILL BE DETAILED AT DEFINITION STAGE.
4. OUTLINE DESIGN SOLUTION BASED ON THE ASSUMPTION OF A FULLY WELDED PIPELINE ALONG ITS ENTIRE ROUTE. IF THIS ASSUMPTION DOES NOT APPLY AT THE DETAILED DESIGN STAGE, THE STRUCTURAL DESIGN SOLUTION IS SUBJECT TO CHANGE.
5. APPROPRIATE STRUCTURAL DESIGN, PIPE STRESS ANALYSIS AND SCOUR ASSESSMENT TO BE UNDERTAKEN AT THE DETAILED DESIGN STAGE.
6. ABUTMENT DESIGN TO BE DETERMINED AT THE DETAILED DESIGN STAGE, TAKING INTO ACCOUNT THE GEOTECHNICAL SURVEY RESULTS.
7. INDICATIVE PIPE BRIDGE DESIGN BASED ON THE UNDERSIDE OF THE BRIDGE BEING SET 1200mm (600mm FREEBOARD PLUS 600mm ALLOWANCE FOR CLIMATE CHANGE) ABOVE THE 1 IN 100 YEAR FLOOD PLAIN LEVEL. CONTRACTOR TO LIAISE WITH THE ENVIRONMENT AGENCY TO CONFIRM THE TOTAL FREEBOARD AS PART OF THE DETAILED DESIGN STAGE.
8. ACCESS FOR FUTURE MAINTENANCE AND SERVICE OF THE ASSETS TO BE INCLUDED AT THE DETAILED DESIGN STAGE.

**REFERENCES**

WN019-0205-STN-02-R1-DR-C-1302 PIPE BRIDGE DETAILS  
WN019-0205-STN-02-ZZ-DR-C-0100 DRAWING LEGENDS

**LEGEND** (SEE WN019-0205-STN-02-ZZ-DR-C-0100 FOR FULL EXISTING SERVICES LEGEND)

1 IN 100 FLOOD PLAIN EXTENT

**NEW WORKS**

- NEW DN800 WHORLEY SR TO SHILDON SR
- NEW DN800 WHORLEY SR TO LONG NEWTON SR
- RED LINE BOUNDARIES OF THE SITE

**CURRENT VERSION INFORMATION**

P02. NEW TRUNK MAINS ROUTE MODIFIED. PIPE BRIDGE ADDED. SECTIONS THROUGH ALWENT BECK NOW ON DRAWING WN019-0205-STN-02-R1-DR-C-1302

REVISION	STATUS	SUITABILITY DESCRIPTION	AUTHORED	CHECKED	REVIEWED	DATE
P02	S2	FOR INFORMATION	MP	JDC	OC	22.10.21
P01	S2	FOR INFORMATION	MP	JDC	JJ	02.10.20

**NORTHUMBRIAN WATER LTD**  
**TEES AND CENTRAL STRATEGIC TRANSFER MAINS**  
**WHORLEY SR TO SHILDON SR**  
**ALWENT BECK**  
**STRATEGIC CROSSING**  
**PLAN**

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**IDA** working in partnership with **NORTHUMBRIAN WATER** living water

CLIENT CONTRACT NO.	SCALE	MASTER SIZE	STATUS
WN019/0205	AS SHOWN	A1	S2

DRAWING NO.	REVISION
WN019-0205-STN-02-R1-DR-C-1301	P02