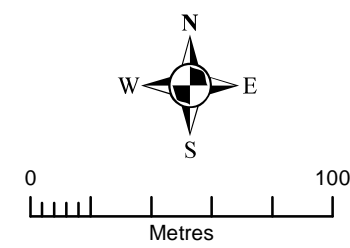


KEY:

- Licensed Works Area/Development Site
- Chiltern Railways Scheme Boundary
- Ponds
- Perimeter Fencing
- Drift Fencing
- Pit fall traps
- Artificial Refugia
- Newt gate/access point

Habitats

- Railway habitat (colonising vegetation, grassland and hardstanding)
- Arable
- Dense Scrub
- Improved Grassland
- Unimproved Neutral Grassland
- Running Water
- Species-rich Hedge
- Species-poor Hedge
- ✕ Scattered Scrub



Note: Ponds 74, 75 and 80 are the subject of the Licence Application

TITLE:
Figure E4(a)
Meta-population 3
Holts Farm Crossing: Capture and Exclusion Measures

CLIENT: Chiltern Railways		SIZE: A3
DATE: 27/02/2013	CHECKED: SG	PROJECT: 0110147
DRAWN: AK	APPROVED:	SCALE: As Scale Bar
DRAWING: Licence3_CaptureExclusion.mxd		REV: B

ERM
 Eaton House
 Wallbrook Court
 North Hinksey Lane
 Oxford, OX2 0QS
 Tel: 01865 384800
 Fax: 01865 384848

SOURCE: Reproduced from Ordnance Survey digital map data. © Crown copyright. All rights reserved. 2011 License number 010001998. Records from TVERC, 2009
 PROJECTION: British National Grid

File: 0110147Chiltern GIS_IG_Maps\GIS_Additional\Wok_0811\Licence3_CaptureExclusion.mxd

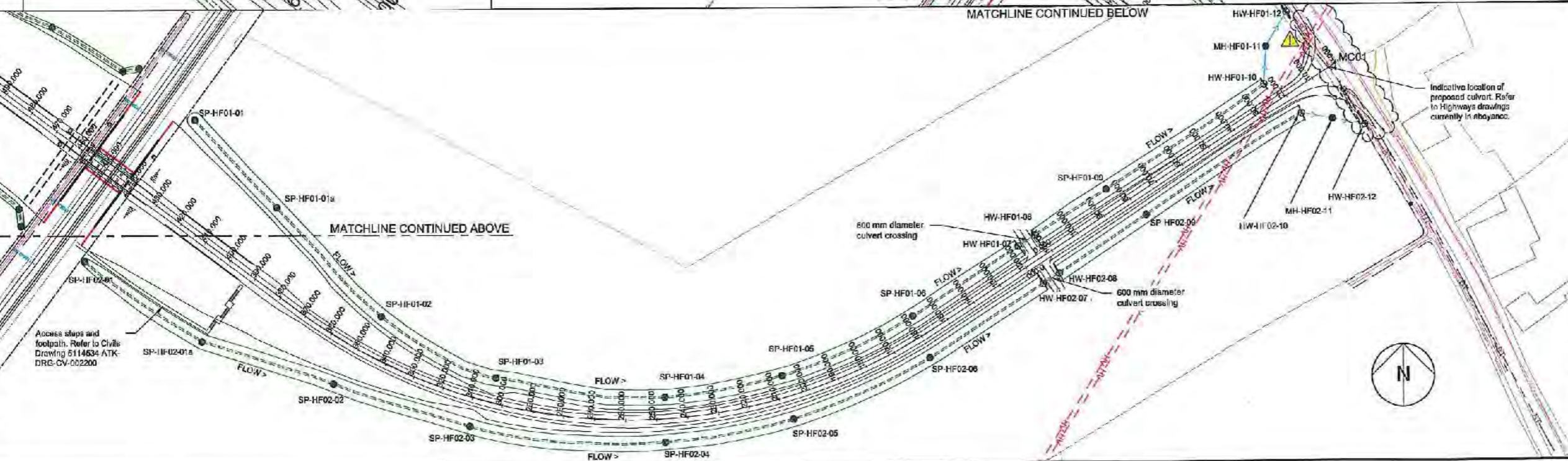
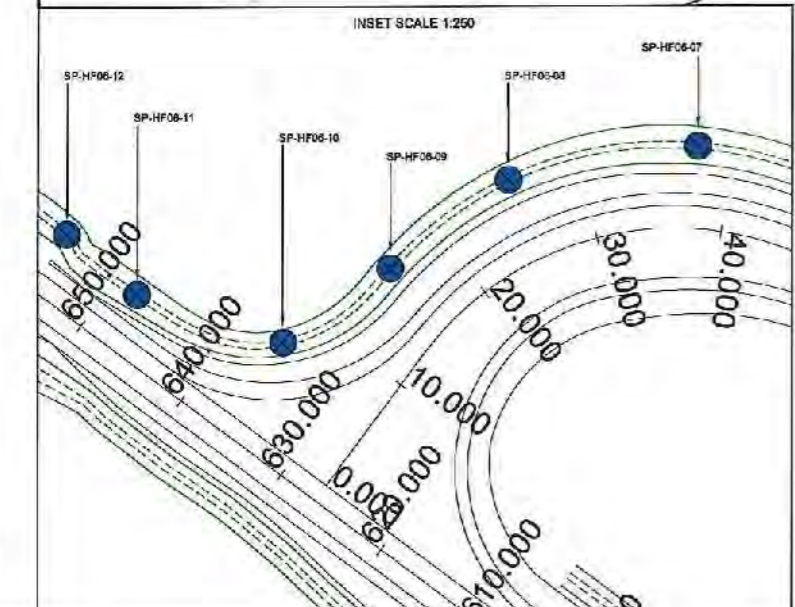
B01 SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
 IN ADDITION TO THE HAZARDS/RISKS ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS

CONSTRUCTION
 WORKING ADJACENT TO LIVE RAILWAY. HITTING EXISTING UTILITIES CAUSING ELECTROCUTION. RISK OF LEPTOSPIROSIS WORKING NEAR WATER.

MAINTENANCE/CLEANING
 AS ABOVE. RISK OF BLOCKAGES IN CARRIER DRAINS/CULVERTS AND HYDRO-BRAKES. REFER TO PIPE MANUFACTURERS INSTRUCTIONS REGARDING JETTING PRESSURE TO AVOID PIPE DAMAGE. SILT TO BE REMOVED FROM MANHOLE CHAMBERS AND DITCHES. REFER TO HYDRO BRAKE MANUFACTURERS INSTRUCTIONS REGARDING MAINTENANCE.

USE
 N/A

DECOMMISSIONING/DEMOLITION
 AS CONSTRUCTION



- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED. ALL LEVELS ARE IN METRES ABOVE PROJECT DATUM. ALL COORDINATES ARE BASED ON "GBB12 SNAKE GRID".
- THIS DRAWING IS NOT TO BE SCALED.
- REFER TO DRAWING SERIES 5114534-ATK-DRG-DR-0203312-023314 FOR THE LOCATION AND DETAILS OF ALL CAI (CIPITS), PIPES AND DITCHES, INCLUDING SETTING OUT POINTS ALONG DITCHES.
- DRAWING TO BE READ IN CONJUNCTION WITH SPECIFICATION 5114534-ATK-DRE-SPC-020001.
- REFER TO 5114534-ATK-DRG-DR-020100 AND 020101 FOR CONSTRUCTION DETAILS OF DITCHES AND FILTER DRAINS.
- FOR DETAILS OF EARTHWORKS (EXCLUDING DITCHES) REFER TO EARTHWORKS DRAWINGS REF 5114534-ATK-DRG-DR-020230-020232.
- TOPOGRAPHICAL SURVEY FROM 5114534-ATK-MOD-SU-000001 TRACK ALIGNMENT FROM 5114534-ATK-MOD-TR-000052.
- THE SERVICE INFORMATION SHOWN ON THESE DRAWINGS HAS BEEN COLLATED FROM SERVICE RETURNS DATED 12/11/2012 IN RELATION TO THE EAST WEST RAIL CORRIDOR. NO LIABILITY OF ANY KIND WHATSOEVER IS ACCEPTED BY ATKINS LIMITED, ITS SERVANT OR AGENTS, FOR ANY ERROR OR OMISSION IN RESPECT OF INFORMATION CONTAINED ON THE PLANS PROVIDED. THIS PLAN IS A COMPILED AND IS INTENDED TO PROVIDE A GRAPHICAL REPRESENTATION OF SERVICES WITHIN THE AREA AND IT IS IMPOSSIBLE TO GUARANTEE ACCURACY. IN ADDITION IT IS A COMPILED INFORMATION SUPPLIED BY UTILITY COMPANIES WHO DO NOT GUARANTEE THE ACCURACY OF THE INFORMATION. THE UNDERGROUND SERVICES MUST BE VERIFIED AND ESTABLISHED ON SITE BEFORE ANY EXCAVATION IS CARRIED OUT. IT IS THE RESPONSIBILITY OF ANY ON SITE CONTRACTOR TO IDENTIFY AND LOCATE ANY UTILITY PRIOR TO DEVELOPMENT WORK GOING AHEAD.
- THE EXTENT OF ENVIRONMENTAL BARRIERS ADJACENT TO THE CEBS IS IN ABEYANCE. THIS MUST BE CO-ORDINATED WITH THIS DRAINAGE DESIGN BEFORE CONSTRUCTION. NO FENCELINE OR LAND BOUNDARIES ARE SHOWN. REFER TO HIGHWAYS DRAWINGS 5114534-ATK-DRG-HW-120105 TO 120106.



Rev	Date	Description of Revisions	Drawn	Clad	Appr
001	07/02/14	FORM 900 SUBMISSION			

For Approval

Chiltern Railways

Minicopa Station,
Over Central Avenue,
Minicopa Place,
London, NW1 9JL

ATKINS

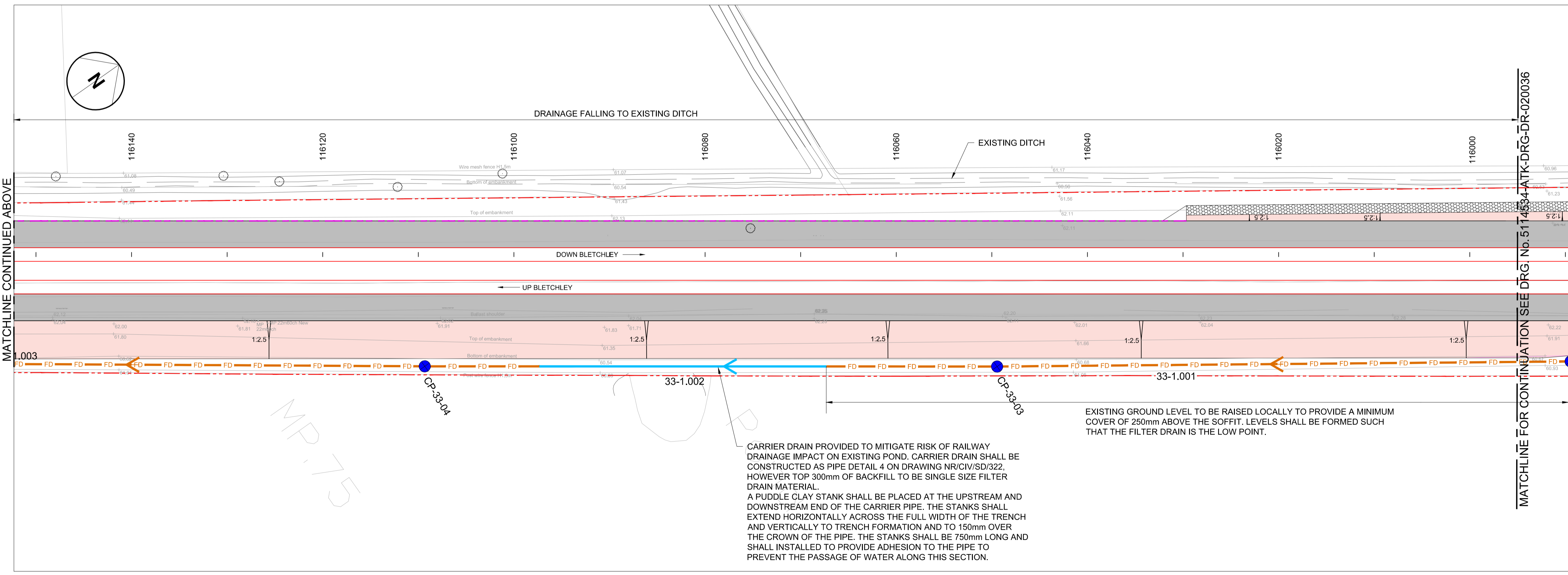
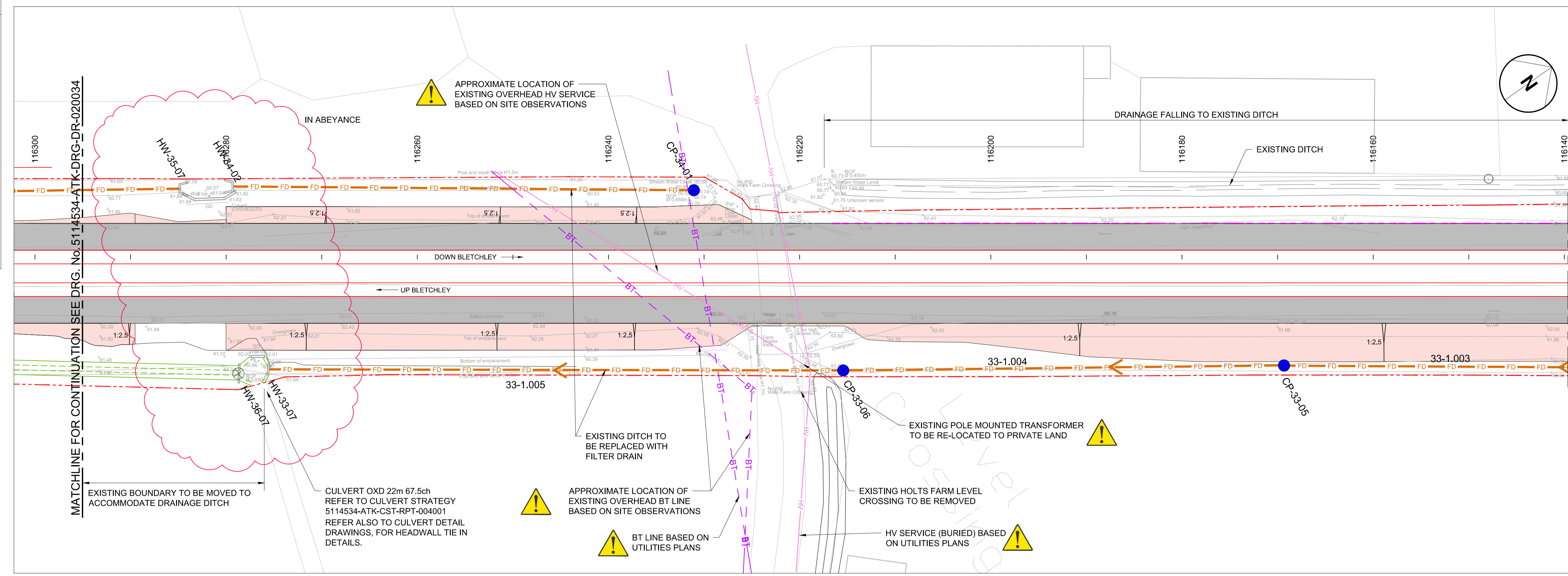
The Axis
10 Holliday Street
Birmingham
West Midlands
B1 1TF

Tel: +44 (0)121 483 5000
Fax: +44 (0)121 483 6333

Project: **EAST WEST RAIL PHASE 1**

Drawing Title: **GENERAL ARRANGEMENT
HOLTS FARM
ACCOMMODATION TRACK
PROPOSED DRAINAGE**

Designed	R. HASEANI	Signed		Date	21/11/13	
Drawn	M. REHMAN	Signed		Date	21/11/13	
Checked	M. LAWRENCE	Signed		Date	21/11/13	
Approved	A. ROSE	Signed		Date	22/11/13	
Scale(s)	1:750	ELR & M/B	OXD 23M 04C			
Alternative Numbers				Sheet	1 of 1	
Drawing Number	5114534-ATK-DRG-DR-020064				Revision	B01

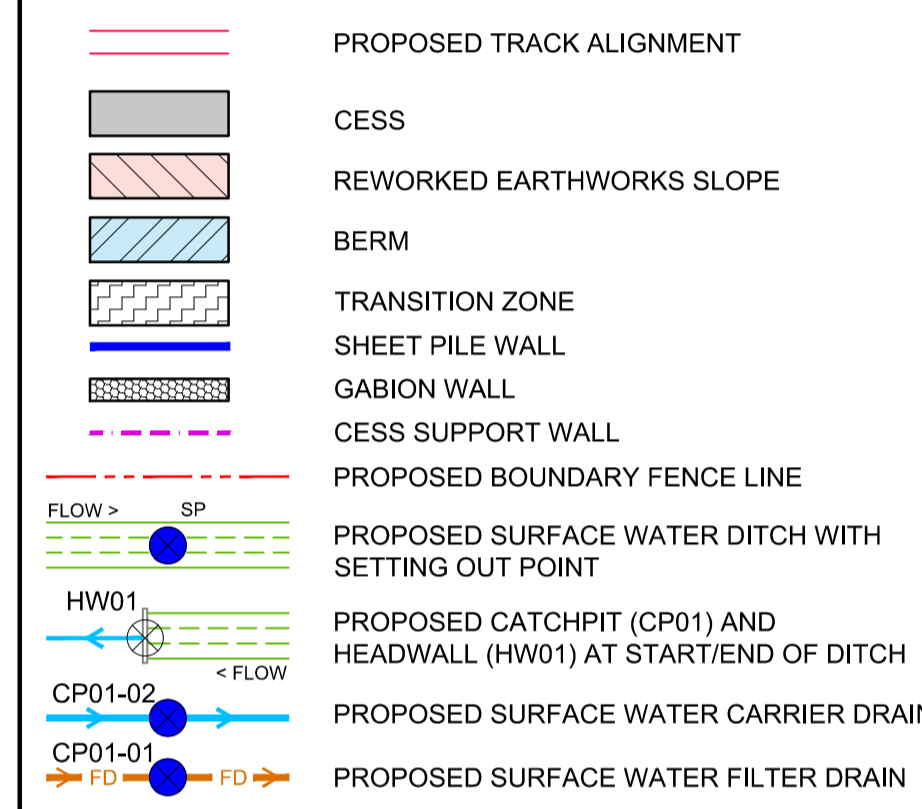


MATCHLINE CONTINUED BELOW

MATCHLINE CONTINUED ABOVE

MATCHLINE FOR CONTINUATION SEE DRG. No. 5114534-ATK-DRG-DR-020036

- Legend/Notes
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED. ALL LEVELS ARE IN METRES ABOVE PROJECT DATUM. ALL CO-ORDINATES ARE BASED ON "OBB12 SNAKE GRID".
 - THIS DRAWING IS NOT TO BE SCALED.
 - REFER TO DRAWING SERIES 5114534 - ATK - DRG - DR - 020200 FOR THE LOCATION AND DETAILS OF ALL CATCHPITS, PIPES AND DITCHES, INCLUDING SETTING OUT POINTS ALONG DITCHES.
 - ALL DRAINAGE ELEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATION 5114534 - ATK - DRE - SPC-020001.
 - CATCHPITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NETWORK RAIL DRAWING NR/CV/SD/351. FOR INVERT LEVELS REFER TO MANHOLE SCHEDULES (NOTE 3). WHERE THERE IS A DISCREPANCY THE PROJECT DRAWINGS SHALL TAKE PRECEDENCE. 50/351 AND DRAWING 5114534-ATK-DRG-DR-020102.
 - REFER TO 5114534 - ATK - DRG - DR - 020100 AND 020101 FOR CONSTRUCTION DETAILS OF DITCHES AND FILTER DRAINS.
 - FOR DETAILS OF EARTHWORKS (EXCLUDING DITCHES) REFER TO EARTHWORKS DRAWINGS SERIES FROM 5114534-ATK-DRG-GE-001021, INCLUDING CROSS SECTIONS AS CROSS REFERENCED FROM THOSE DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN EARTHWORKS DESIGN AND DRAINAGE DESIGN, THIS SHALL BE DISCUSSED WITH THE DRAINAGE ENGINEER.
 - TOPOGRAPHICAL SURVEY FROM 5114534-ATK-MOD-SU-000001 TRACK ALIGNMENT FROM 5114534-ATK-MOD-TR-000052.
 - EXISTING SERVICES INFORMATION AFFECTING THE INSTALLATION OF THE DRAINAGE SYSTEM IS SHOWN. SERVICE ROUTES ARE BASED ON STATUTORY UNDERTAKERS' INFORMATION, HOWEVER, THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL KNOWN AND UNKNOWN SERVICES PRIOR TO COMMENCING CONSTRUCTION WORKS.
 - THE EXTENT OF ENVIRONMENTAL BARRIERS ADJACENT TO THE CESS IS IN ABEYANCE. THIS MUST BE CO-ORDINATED WITH THE DRAINAGE DESIGN BEFORE CONSTRUCTION.



B01	06/01/14	FOR APPROVAL FORM 003	MJ	PP	AMR
Rev	Date	Description of Revisions	Drawn	Chkd	Appr

FOR APPROVAL



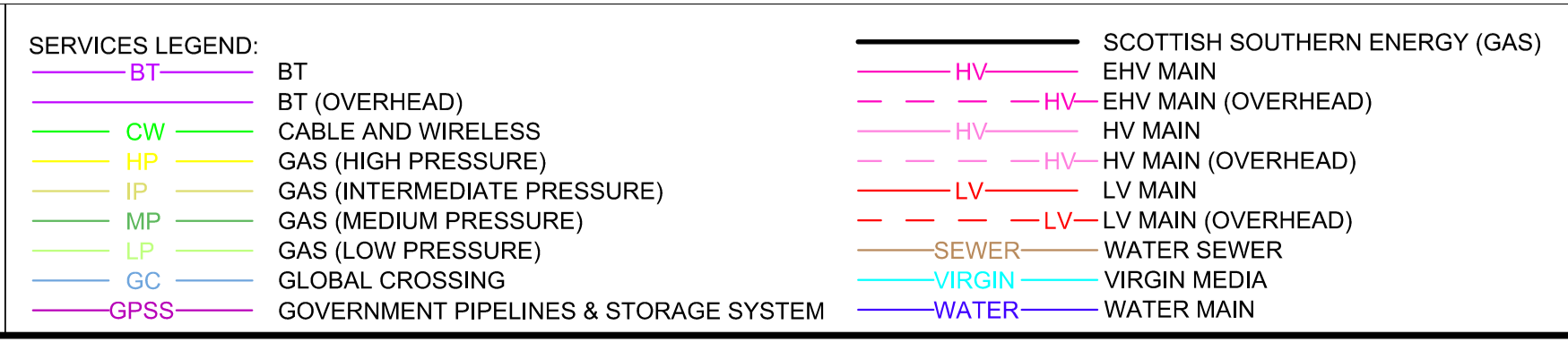
Contractor(s)
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West Midlands
B1 1TF
Tel: +44 (0)121 483 5000
Fax: +44 (0)121 483 6333

Project
EAST WEST RAIL PHASE 1

Drawing Title
**GENERAL ARRANGEMENT
OXD LINE DRAINAGE
Ch 115995 TO Ch 116295**

Designed	S. NAYLOR	Signed		Date	04/10/2013
Drawn	M. JOLIN	Signed		Date	04/10/2013
Checked	P. PERRY	Signed		Date	04/10/2013
Approved	A. ROSE	Signed		Date	04/10/2013
Scale(s)	1:250		ELR & Mileage		
Alternative Reference	5114534-ATK-DRG-DR-020035		Sheet 35 of 63		
Drawing Number	5114534-ATK-DRG-DR-020035		Revision B01		

THE SERVICE INFORMATION SHOWN ON THESE DRAWINGS HAS BEEN COLLATED FROM SERVICE RETURNS DATED 12/11/2012 IN RELATION TO THE EAST WEST RAIL CORRIDOR. NO LIABILITY OF ANY KIND WHATSOEVER IS ACCEPTED BY ATKINS LIMITED, ITS SERVANT OR AGENTS, FOR ANY ERROR OR OMISSION IN RESPECT OF INFORMATION CONTAINED ON THE PLANS PROVIDED. THIS PLAN IS A COMPILATION OF A NUMBER OF PLANS PROVIDED AT DIFFERENT SCALES AND IS INTENDED TO PROVIDE A GRAPHICAL REPRESENTATION OF SERVICES WITHIN THE AREA AND IT IS IMPOSSIBLE TO GUARANTEE ACCURACY. IN ADDITION IT IS A COMPILATION OF INFORMATION SUPPLIED BY UTILITY COMPANIES WHO DO NOT GUARANTEE THE ACCURACY OF THE INFORMATION. THE UNDERGROUND SERVICES MUST BE VERIFIED AND ESTABLISHED ON SITE BEFORE ANY EXCAVATION IS CARRIED OUT. IT IS THE RESPONSIBILITY OF ANY ON SITE CONTRACTOR TO IDENTIFY AND LOCATE ANY UTILITY PLANT PRIOR TO DEVELOPMENT WORK GOING AHEAD.



⚠ FILTER DRAINS SHALL NOT BE TRAFFICKED DURING CONSTRUCTION AND AS PART OF MAINTENANCE. IN SOME LOCATIONS COVER IS REDUCED TO 200mm

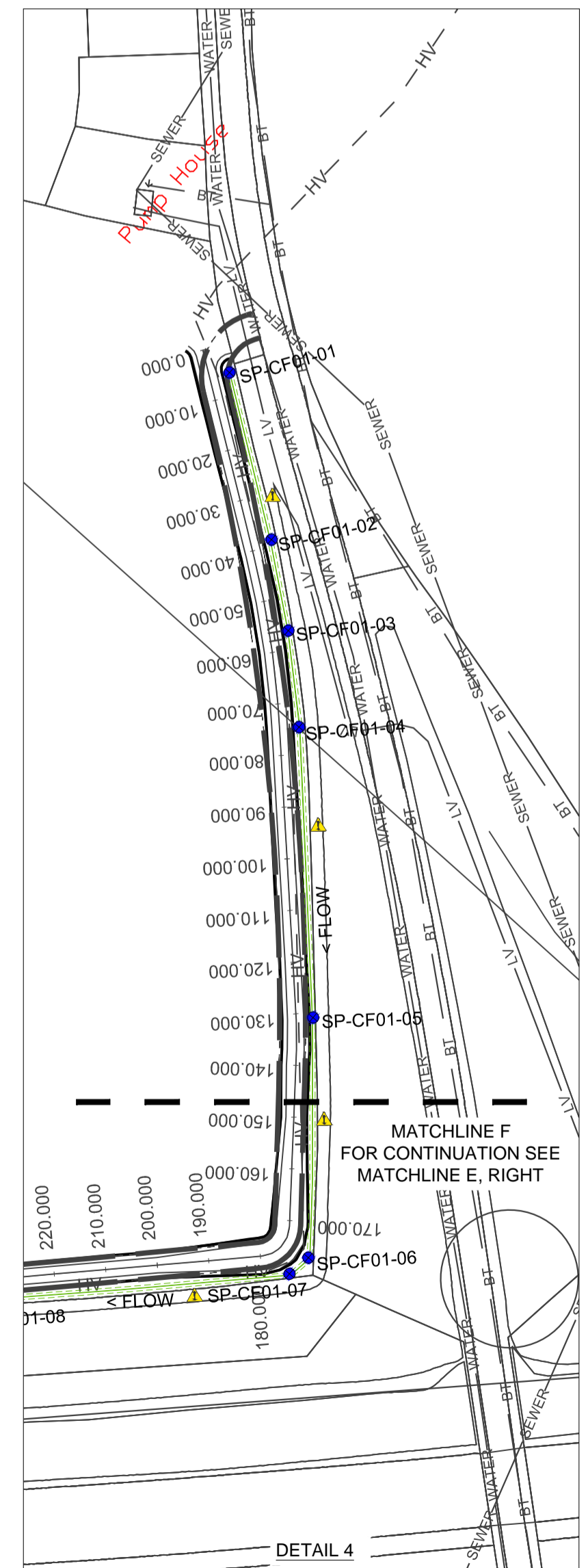
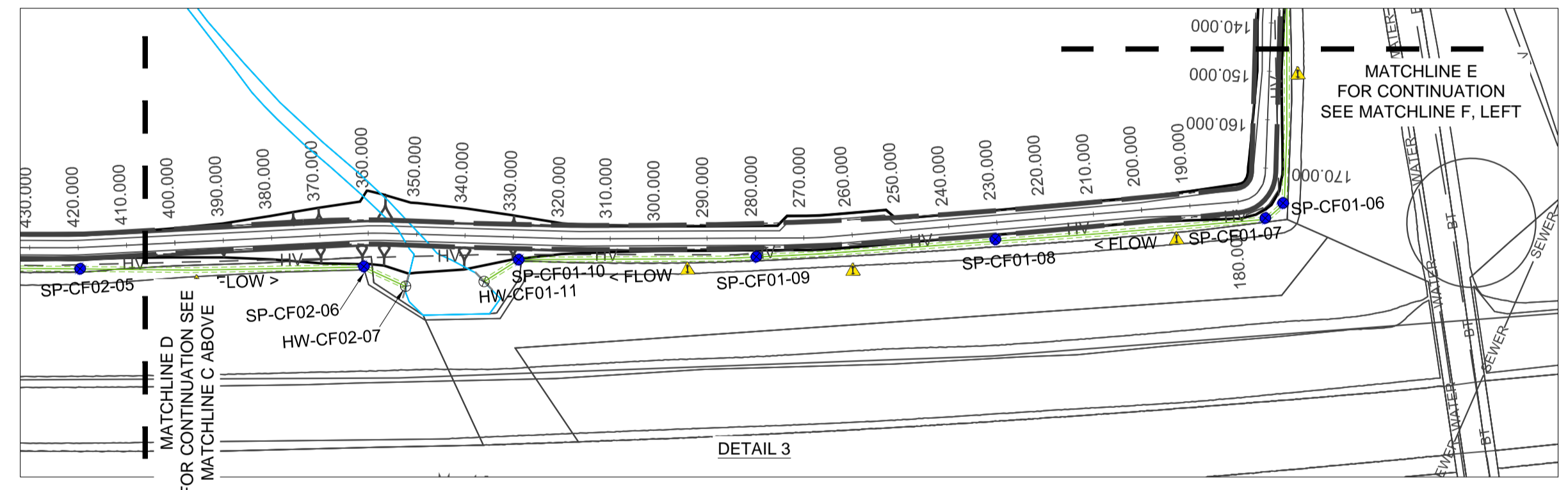
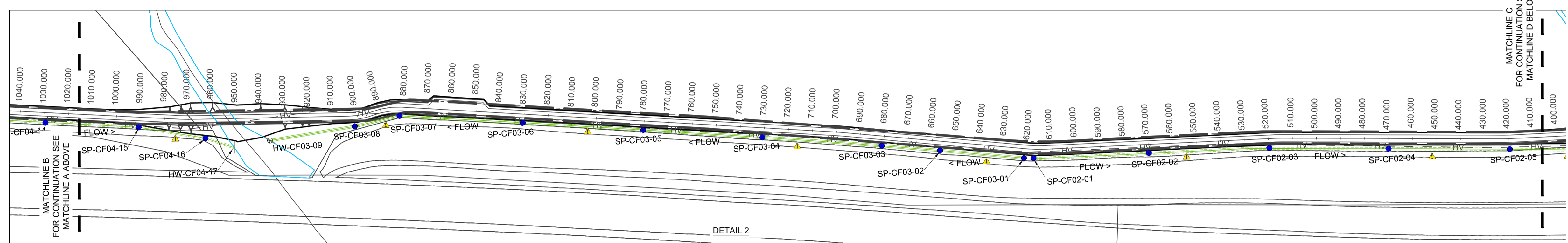
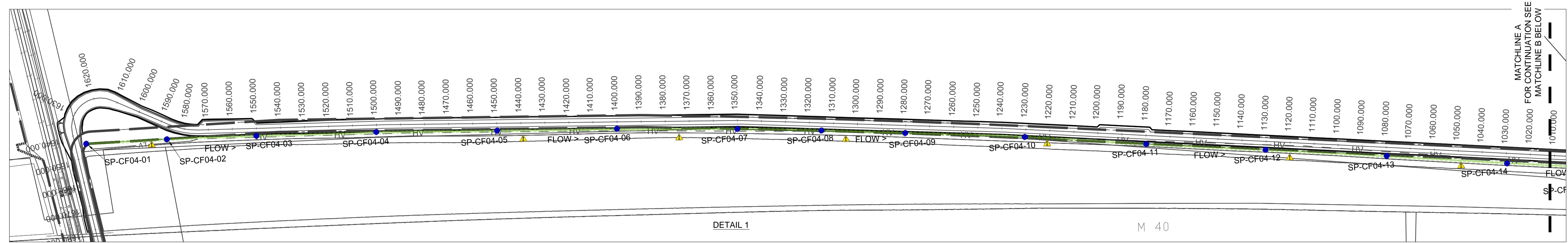
SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS

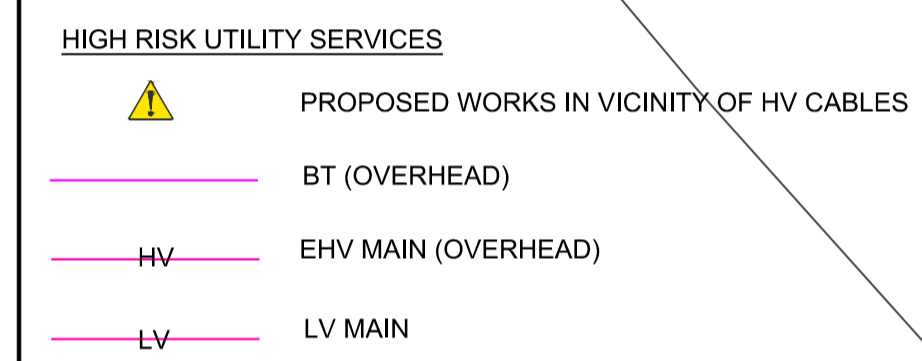
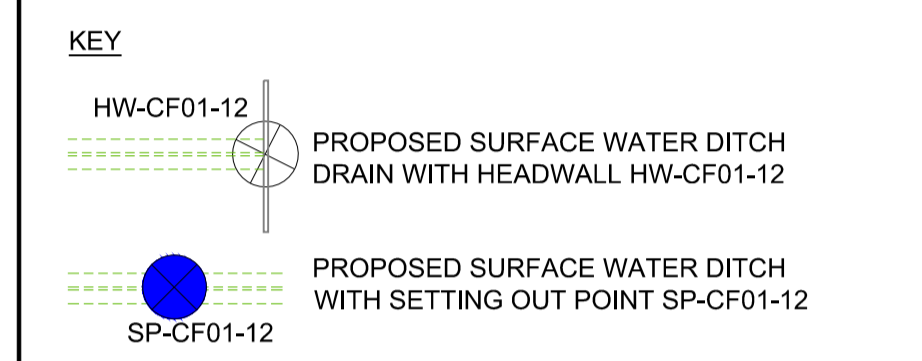
CONSTRUCTION
WORKING ADJACENT TO LIVE RAILWAY, HITTING EXISTING UTILITIES CAUSING ELECTROCUTION, FLOODING (INCLUDING SEWAGE), OR GAS LEAKAGE, RISK OF LEPTOSPIROSIS WORKING NEAR WATER, CONFINED SPACES WORKING.

MAINTENANCE/CLEANING
AS ABOVE, PIPES REQUIRE CLEANING. REFER TO PIPE MANUFACTURER'S INSTRUCTIONS REGARDING JETTING PRESSURE TO AVOID PIPE DAMAGE. SILT TO BE REMOVED FROM CATCHPITS. LIMITED COVER DEPTH - NO VEHICULAR ACCESS

USE
N/A
DECOMMISSIONING/DEMOLITION
AS ABOVE



- Legend/Notes
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED. ALL LEVELS ARE IN METRES ABOVE PROJECT DATUM. ALL CO-ORDINATES ARE BASED ON "OBB12 SNAKE GRID"
 - THIS DRAWING IS NOT TO BE SCALED.
 - DRAWING TO BE READ IN CONJUNCTION WITH SPECIFICATION 5114534-ATK-DRE-SPC-020001.
 - HYDRO-BRAKE MANHOLE CHAMBERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DRAWING 5114534-ATK-DRG-DR-020106. WHERE THERE IS A DISCREPANCY PROJECT DRAWINGS SHALL TAKE PRECEDENCE.
 - REFER TO 5114534-ATK-DRG-DR-020100 TO 020102 FOR CONSTRUCTION DETAILS OF DITCHES AND FILTER DRAINS.
 - ALL RUN LENGTHS ARE MEASURED TO THE CENTRE OF SETTING OUT POINTS AS SHOWN ON THE GENERAL ARRANGEMENT DRAWINGS.
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE DRAINAGE GENERAL ARRANGEMENT DRAWINGS.
 - WHERE THERE IS A DISCREPANCY WITH COVER LEVELS, THE COVER LEVELS (GROUND LEVELS) PROPOSED ON EARTHWORKS DRAWINGS SHALL TAKE PRECEDENCE.
 - THE SETTING OUT POINTS (E.G. SP-CF01-01) ON THE MANHOLE SCHEDULE PROVIDE THE BED LEVEL OF THE DITCH ON THE CENTRE LINE OF THE CHANNEL PLUS THE PROPOSED TOP OF DITCH (BANK) LEVEL.



Rev	Date	Description of Revisions	Drawn	Chkd	Appr
01	04/02/15	ISSUE FOR APPROVAL	AM	AS	AR



Contractor(s)

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10 Holliday Street
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B1 1TF

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Project

EAST WEST RAIL PHASE 1

Drawing Title

**COLLEGE FARM
ACCESS TRACK
GENERAL ARRANGEMENT
SHEET 1 OF 1**

Designed	A. MARKOWYCZ	Signed		Date	03/02/15
Drawn	A. MARKOWYCZ	Signed		Date	03/02/15
Checked	A. SHORT	Signed		Date	03/02/15
Approved	A. ROSE	Signed		Date	05/02/15
Scale(s)	1:1000 ELR & Mileage				