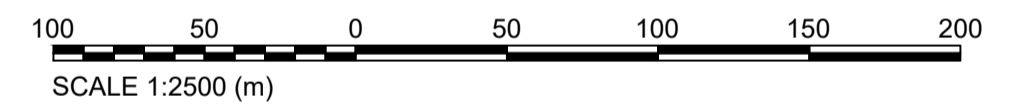


LEGEND

	GENERAL ARRANGEMENT PLAN
	ASSET PLAN
	RAMP ASSET PLAN
	FARM DUMP AREA
	COMPENSATORY FLOODPLAIN STORAGE AREAS (CFSAs) 4A AND 4
	CFSAs 3 BOUNDARY



P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
Document Control							

Jacobs.

Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

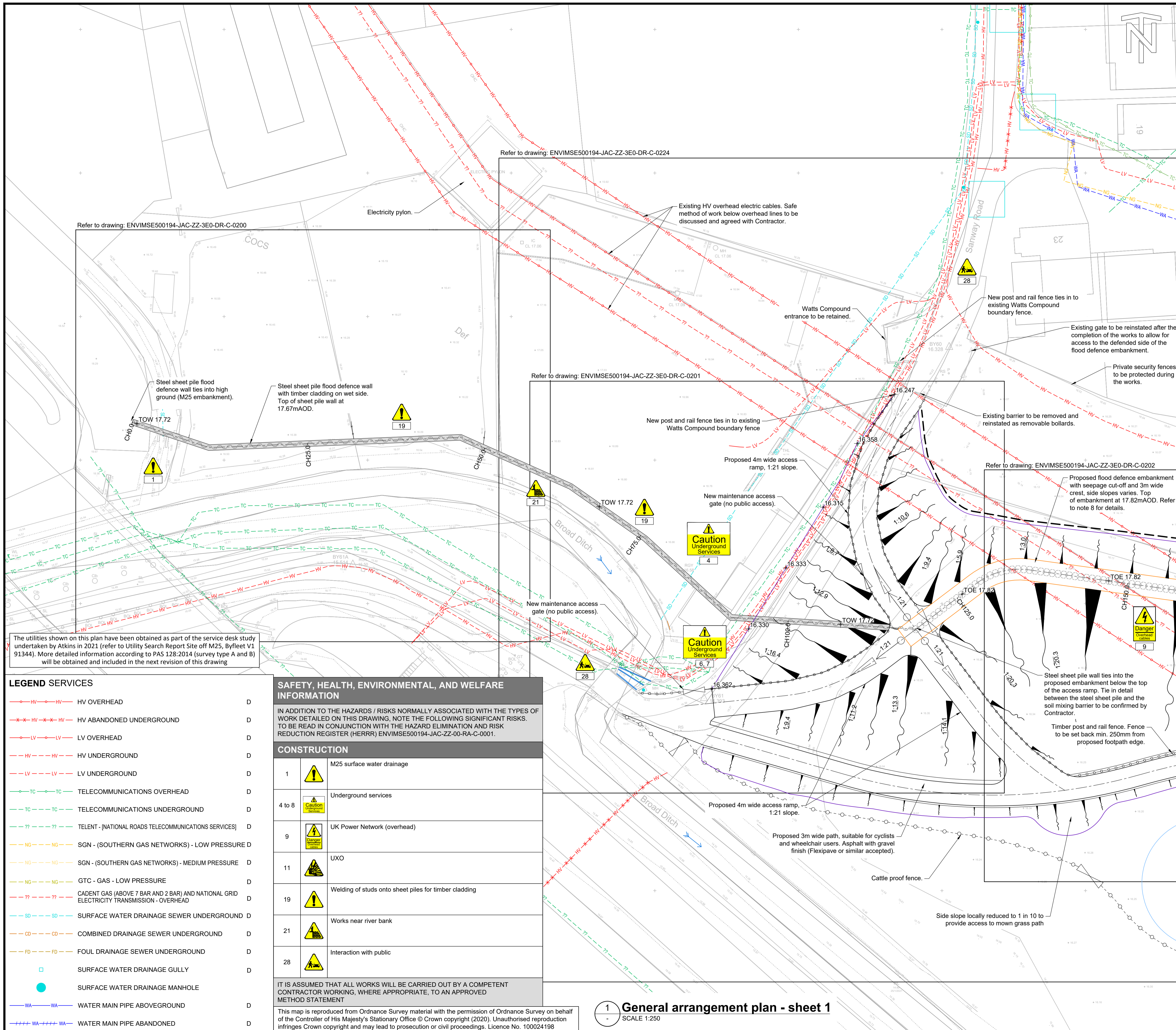
Drawing Title
Sanway Byfleet Site location plan



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Parent Model ENVIMSE500194-JAC-ZZ-00-DR-C-0100.dwg							
Security Classification Official				Scale AS SHOWN			
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER				
Suitability S3 - Suitable for review and comment			Status S3	Revision P01		Information Container ENVIMSE500194-JAC-ZZ-00-DR-C-0100	
A1 Sheet Size							

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1 Site location plan
SCALE 1:2500



- ### General Notes
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 - For typical details, refer to drawings: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0800 to 0801.
 - For landscape information, refer to landscape plans: ENVIMSE500194-JAC-ZZ-3D0-DR-L-0016 to 0018.
 - For tree removal plans, refer to drawings: ENVIMSE500194-JAC-ZZ-00-DR-EN-0009 to 0012. For tree protection plans, refer to drawings: ENVIMSE500194-JAC-ZZ-00-DR-EN-0013 to 0016.
 - Palisade fan tale to be installed on top of SSP wall to prevent access into the Watts Compound and maintain level of security.

LEGEND

- STEEL SHEET PILE WALL
- SEEPAGE CUT-OFF (DEEP SOIL MIXING)
- CREST OF EMBANKMENT
- TOE OF EMBANKMENT
- POST AND RAIL FENCING
- STOCK PROOF FENCE
- GATE (TYPE UNSPECIFIED)
- TOE
- TOW
- EXISTING LEVELS
- WATERCOURSE FLOW DIRECTION ARROW
- TREE OR TREE GROUP CANOPY
- IDENTIFIED ROOT PROTECTION AREA
- EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
- PROPOSED TOE DRAIN (FRENCH DRAIN)

10 5 0 5 10 15 20
SCALE 1:250 (m)

The utilities shown on this plan have been obtained as part of the service desk study undertaken by Atkins in 2021 (refer to Utility Search Report Site off M25, Byfleet V1 91344). More detailed information according to PAS 128:2014 (survey type A and B) will be obtained and included in the next revision of this drawing

LEGEND SERVICES

— HV — HV —	HV OVERHEAD	D
-x-x-x-x-x-x-	HV ABANDONED UNDERGROUND	D
— LV — LV —	LV OVERHEAD	D
- - - HV - - -	HV UNDERGROUND	D
- - - LV - - -	LV UNDERGROUND	D
— TC — TC —	TELECOMMUNICATIONS OVERHEAD	D
- - - TC - - -	TELECOMMUNICATIONS UNDERGROUND	D
- ? - ? - ? -	TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)	D
- NG - NG - NG -	SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE	D
- NG - NG - NG -	SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE	D
- NG - NG - NG -	GTC - GAS - LOW PRESSURE	D
- ? - ? - ? - ? -	CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD	D
- SD - SD - SD -	SURFACE WATER DRAINAGE SEWER UNDERGROUND	D
- CD - CD - CD -	COMBINED DRAINAGE SEWER UNDERGROUND	D
- FD - FD - FD -	FOUL DRAINAGE SEWER UNDERGROUND	D
□	SURFACE WATER DRAINAGE GULLY	D
●	SURFACE WATER DRAINAGE MANHOLE	D
— WA — WA —	WATER MAIN PIPE ABOVEGROUND	D
- - - WA - - -	WATER MAIN PIPE ABANDONED	D

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RISKS. TO BE READ IN CONJUNCTION WITH THE HAZARD ELIMINATION AND RISK REDUCTION REGISTER (HERRR) ENVIMSE500194-JAC-ZZ-00-RA-C-0001.

CONSTRUCTION

1	⚠	M25 surface water drainage
4 to 8	⚠	Underground services
9	⚠	UK Power Network (overhead)
11	⚠	UXO
19	⚠	Welding of studs onto sheet piles for timber cladding
21	⚠	Works near river bank
28	⚠	Interaction with public

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

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1 General arrangement plan - sheet 1
SCALE 1:250

Rev	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
P01	S3	D01 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF

Document Control



Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
**Linear Defences
General Arrangement
Sheet 1**

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Parent Model
ENVIMSE500194-JAC-ZZ-3E0-DR-C-0100.dwg

Security Classification
Official

Scale
AS SHOWN

Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
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Suitability
S3 - Suitable for review and comment

Information Container
ENVIMSE500194-JAC-ZZ-3E0-DR-C-0100

Status
S3

Revision
P01

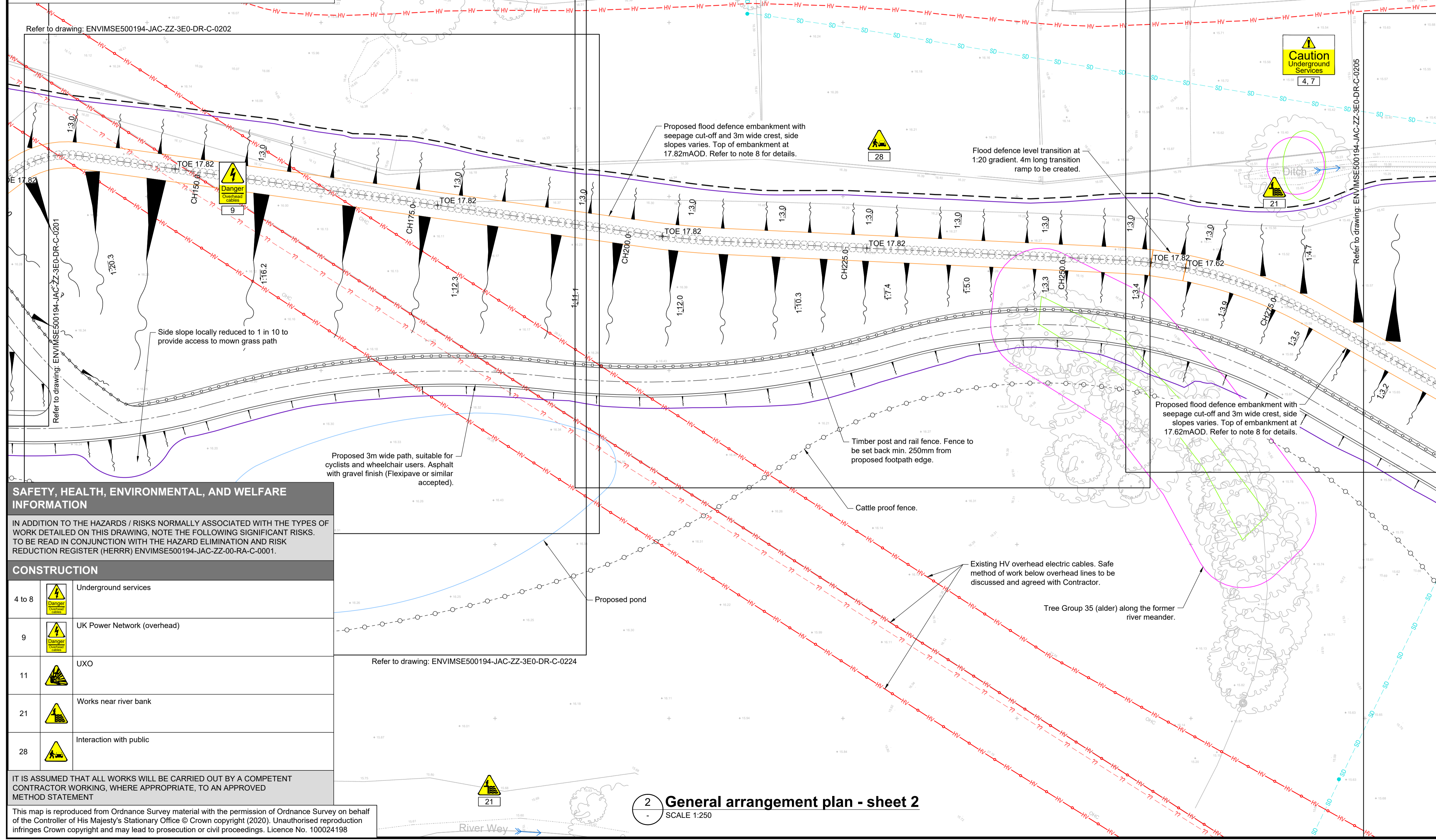
A1 Sheet Size

LEGEND SERVICES

— HV — HV — HV	HV OVERHEAD	D
— LV — LV — LV	LV OVERHEAD	D
— HV — HV — HV	HV UNDERGROUND	D
— LV — LV — LV	LV UNDERGROUND	D
— TC — TC — TC	TELECOMMUNICATIONS OVERHEAD	D
— TC — TC — TC	TELECOMMUNICATIONS UNDERGROUND	D
— ?? — ?? — ??	TELENT - [NATIONAL ROADS TELECOMMUNICATIONS SERVICES]	D
— NG — NG — NG	SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE	D
— NG — NG — NG	SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE	D
— NG — NG — NG	GTC - GAS - LOW PRESSURE	D
— ?? — ?? — ??	CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD	D
— SD — SD — SD	SURFACE WATER DRAINAGE SEWER UNDERGROUND	D
— CD — CD — CD	COMBINED DRAINAGE SEWER UNDERGROUND	D
— FD — FD — FD	FOUL DRAINAGE SEWER UNDERGROUND	D
□	SURFACE WATER DRAINAGE GULLY	D
●	SURFACE WATER DRAINAGE MANHOLE	D
— WA — WA — WA	WATER MAIN PIPE ABOVEGROUND	D
— WA — WA — WA	WATER MAIN PIPE ABANDONED	D

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 - For cross section details, refer to drawings: ENVIMSE500194-JAC-DE-3E0-DR-C-0300 to 305.
 - For longitudinal profile, refer to drawings: ENVIMSE500194-JAC-DE-3E0-DR-C-0310 to 314.
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 - For tree protection plans, refer to drawings: ENVIMSE500194-JAC-ZZ-00-DR-EN-0013 to 0016.



LEGEND

— — — — —	SEEPAGE CUT-OFF (DEEP SOIL MIXING)
— — — — —	CREST OF EMBANKMENT
— — — — —	TOE OF EMBANKMENT
— — — — —	POST AND RAIL FENCING
— — — — —	STOCK PROOF FENCE
— — — — —	GATE (TYPE UNSPECIFIED)
+	TOP OF EMBANKMENT
16.11	EXISTING LEVELS
→	WATERCOURSE FLOW DIRECTION ARROW
○	TREE OR TREE GROUP CANOPY
○	IDENTIFIED ROOT PROTECTION AREA
○	EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
— — — — —	PROPOSED TOE DRAIN (FRENCH DRAIN)
— — — — —	PROPOSED POND

10 5 0 5 10 15 20
SCALE 1:250 (m)

P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
Document Control							

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

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CONSTRUCTION

4 to 8	Underground services
9	UK Power Network (overhead)
11	UXO
21	Works near river bank
28	Interaction with public

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

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Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
**Linear Defences
General Arrangement
Sheet 2**

Environment Agency

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Parent Model
ENVIMSE500194-JAC-ZZ-3E0-DR-C-0101.dwg

Security Classification
Official

Scale
AS SHOWN

Originator	Checker	Reviewer	Approver
J. GORAL	J. ALVAREZ GARCIA	J. ALVAREZ GARCIA	S. FOWLER

Suitability
S3 - Suitable for review and comment

Status	Revision
S3	P01

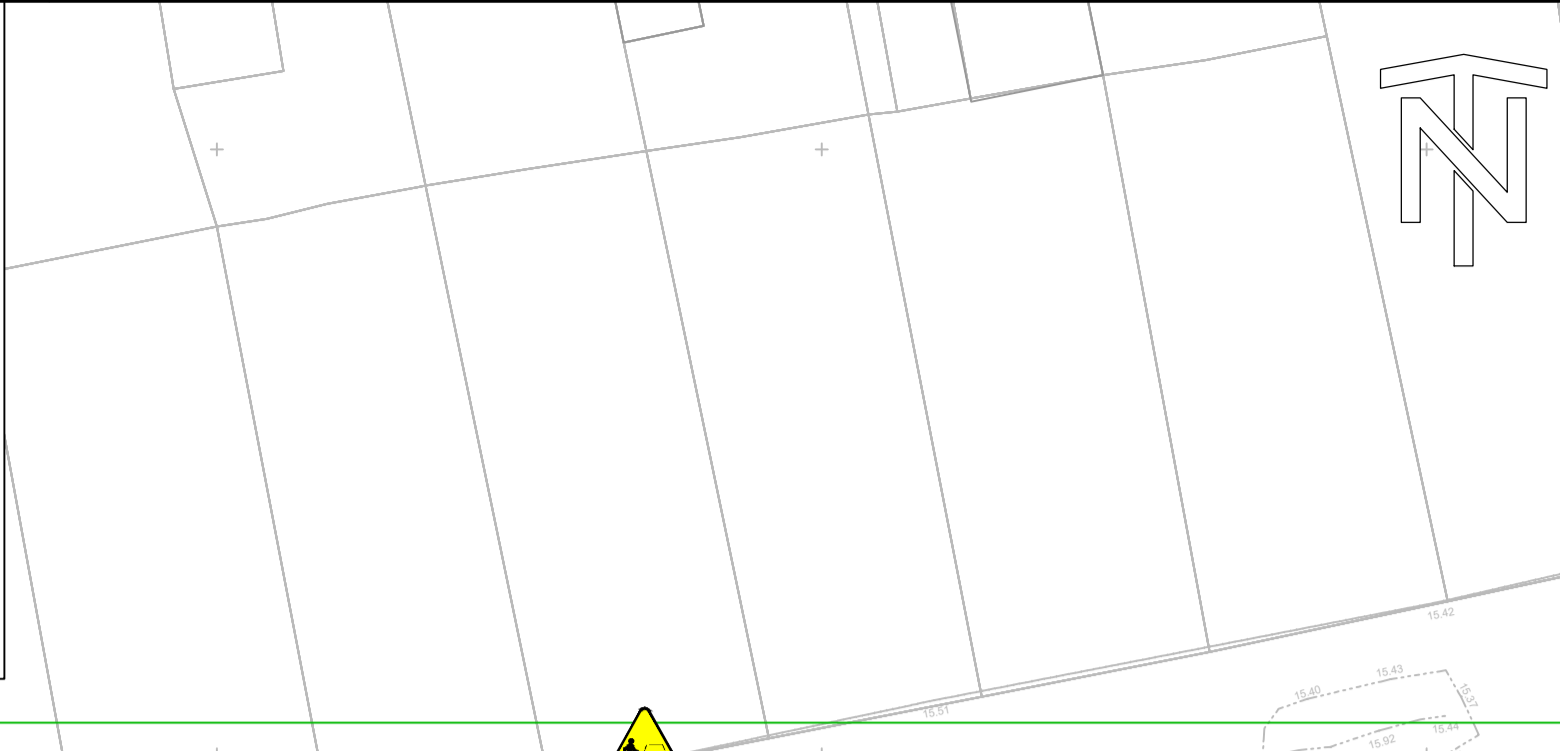
Information Contained
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A1 Sheet Size

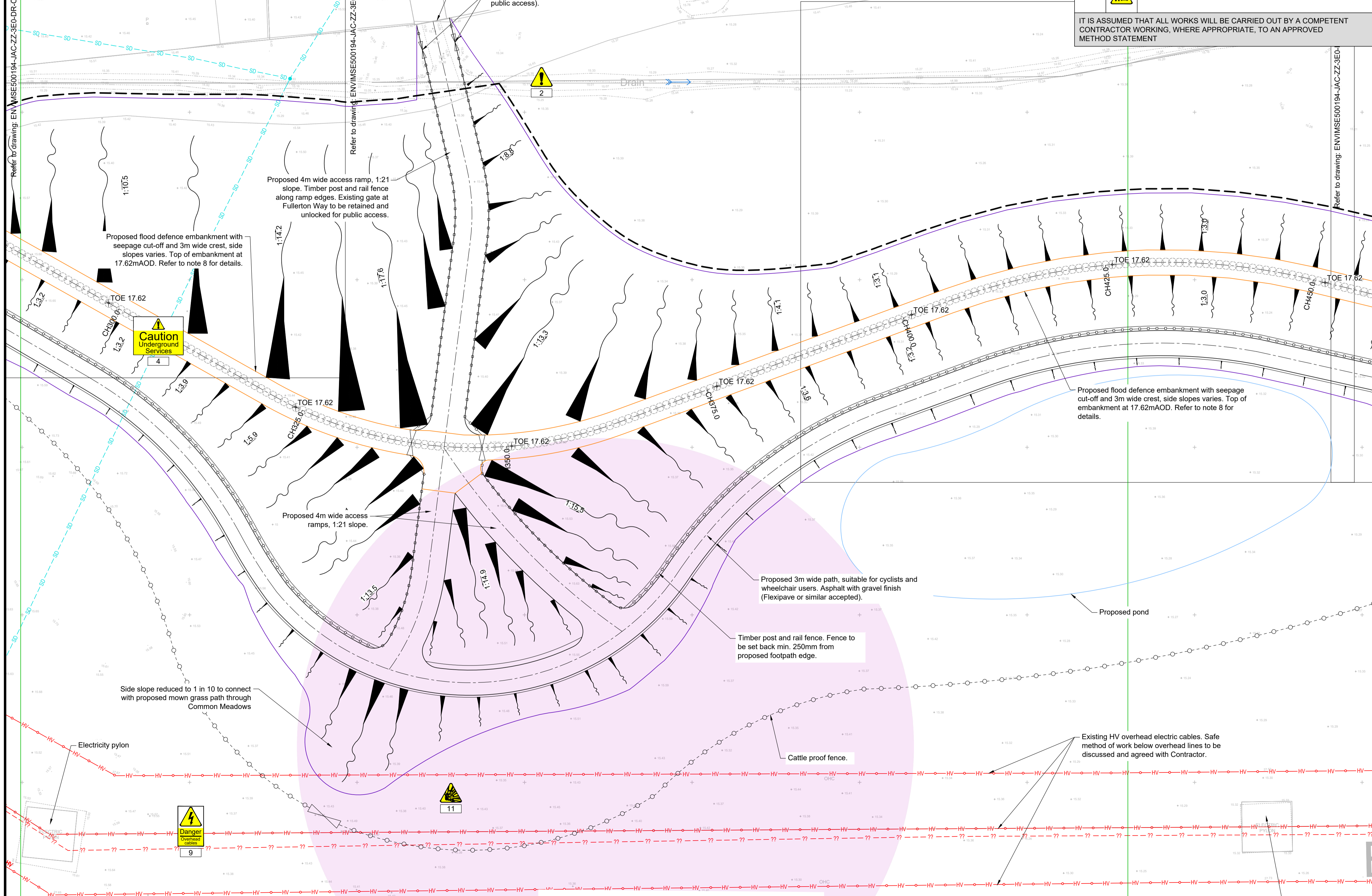
LEGEND SERVICES

— HV — HV — HV	HV OVERHEAD	D
— LV — LV — LV	LV OVERHEAD	D
— HW — HW — HW	HV UNDERGROUND	D
— LV — LV — LV	LV UNDERGROUND	D
— TC — TC — TC	TELECOMMUNICATIONS OVERHEAD	D
— TC — TC — TC	TELECOMMUNICATIONS UNDERGROUND	D
— ?? — ?? — ??	TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)	D
— NG — NG — NG	SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE	D
— NG — NG — NG	SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE	D

— NG — NG — NG	GTC - GAS - LOW PRESSURE	D
— ?? — ?? — ??	CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD	D
— SD — SD — SD	SURFACE WATER DRAINAGE SEWER UNDERGROUND	D
— CD — CD — CD	COMBINED DRAINAGE SEWER UNDERGROUND	D
— FD — FD — FD	FOUL DRAINAGE SEWER UNDERGROUND	D
□	SURFACE WATER DRAINAGE GULLY	D
●	SURFACE WATER DRAINAGE MANHOLE	D
— WA — WA — WA	WATER MAIN PIPE ABOVEGROUND	D
— WA — WA — WA	WATER MAIN PIPE ABANDONED	D



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SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

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CONSTRUCTION

2	⚠	Existing land drains
4 to 8	⚠	Underground services
9	⚠	UK Power Network (overhead)
11	⚠	UXO
28	⚠	Interaction with public

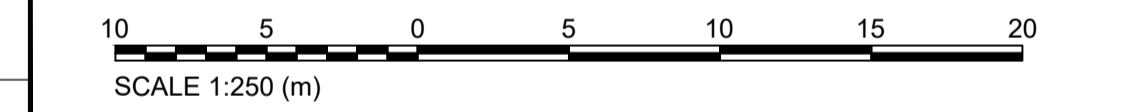
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LEGEND

⊘	SEEPAGE CUT-OFF (DEEP SOIL MIXING)
—	CREST OF EMBANKMENT
—	TOE OF EMBANKMENT
—	POST AND RAIL FENCING
—	CHAIN LINK FENCING
⊘	GATE (TYPE UNSPECIFIED)
+	TOE
16.11	EXISTING LEVELS
→	WATERCOURSE FLOW DIRECTION ARROW
○	TREE OR TREE GROUP CANOPY
○	IDENTIFIED ROOT PROTECTION AREA
○	EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
—	PROPOSED TOE DRAIN (FRENCH DRAIN)
—	PROPOSED POND
■	IDENTIFIED AREAS WITH POTENTIAL FOR UXO PRESENCE



P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
Document Control							



Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
**Linear Defences
General Arrangement
Sheet 3**



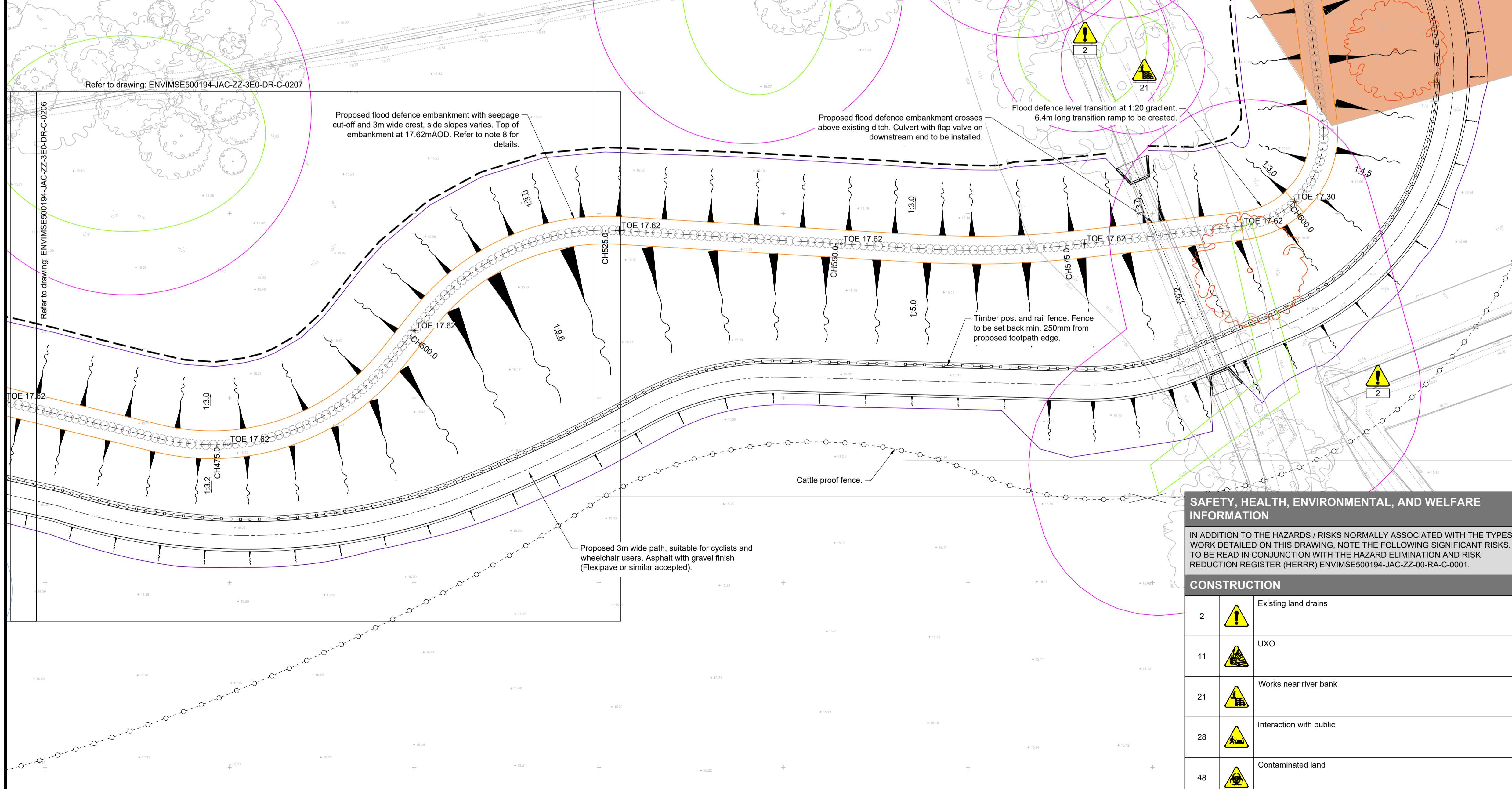
Parent Model ENVIMSE00194-JAC-ZZ-3E0-DR-C-0102.dwg			
Security Classification Official		Scale AS SHOWN	
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment		Status S3	Revision P01
Information Container ENVIMSE00194-JAC-ZZ-3E0-DR-C-0102			

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3 General arrangement plan - sheet 3
SCALE 1:250

LEGEND SERVICES		
	HV OVERHEAD	D
	LV OVERHEAD	D
	HV UNDERGROUND	D
	LV UNDERGROUND	D
	TELECOMMUNICATIONS OVERHEAD	D
	TELECOMMUNICATIONS UNDERGROUND	D
	TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)	D
	SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE	D
	SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE	D
	GTC - GAS - LOW PRESSURE	D
	CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD	D
	SURFACE WATER DRAINAGE SEWER UNDERGROUND	D
	COMBINED DRAINAGE SEWER UNDERGROUND	D
	FOUL DRAINAGE SEWER UNDERGROUND	D
	SURFACE WATER DRAINAGE GULLY	D
	SURFACE WATER DRAINAGE MANHOLE	D
	WATER MAIN PIPE ABOVEGROUND	D
	WATER MAIN PIPE ABANDONED	D

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 - For cross section details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0300 to 0305
 - For longitudinal profile, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0310 to 0314
 - For typical details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0800 to 0801.
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 - For tree removal plans, refer to drawings: ENVIMSE00194-JAC-ZZ-00-DR-EN-0009 to 0012.
 - For tree protection plans, refer to drawings: ENVIMSE00194-JAC-ZZ-00-DR-EN-0013 to 0016.

LEGEND

	SEEPAGE CUT-OFF (DEEP SOIL MIXING)
	CREST OF EMBANKMENT
	TOE OF EMBANKMENT
	POST AND RAIL FENCING
	STOCK PROOF FENCE
	GATE (TYPE UNSPECIFIED)
	TOP OF EMBANKMENT
	EXISTING LEVELS
	WATERCOURSE FLOW DIRECTION ARROW
	FARM DUMP AREA
	TREE OR TREE GROUP CANOPY
	IDENTIFIED ROOT PROTECTION AREA
	EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
	PROPOSED TOE DRAIN (FRENCH DRAIN)

10	5	0	5	10	15	20
SCALE 1:250 (m)						

P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
Document Control							

Jacobs.

Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
**Linear Defences
General Arrangement
Sheet 4**

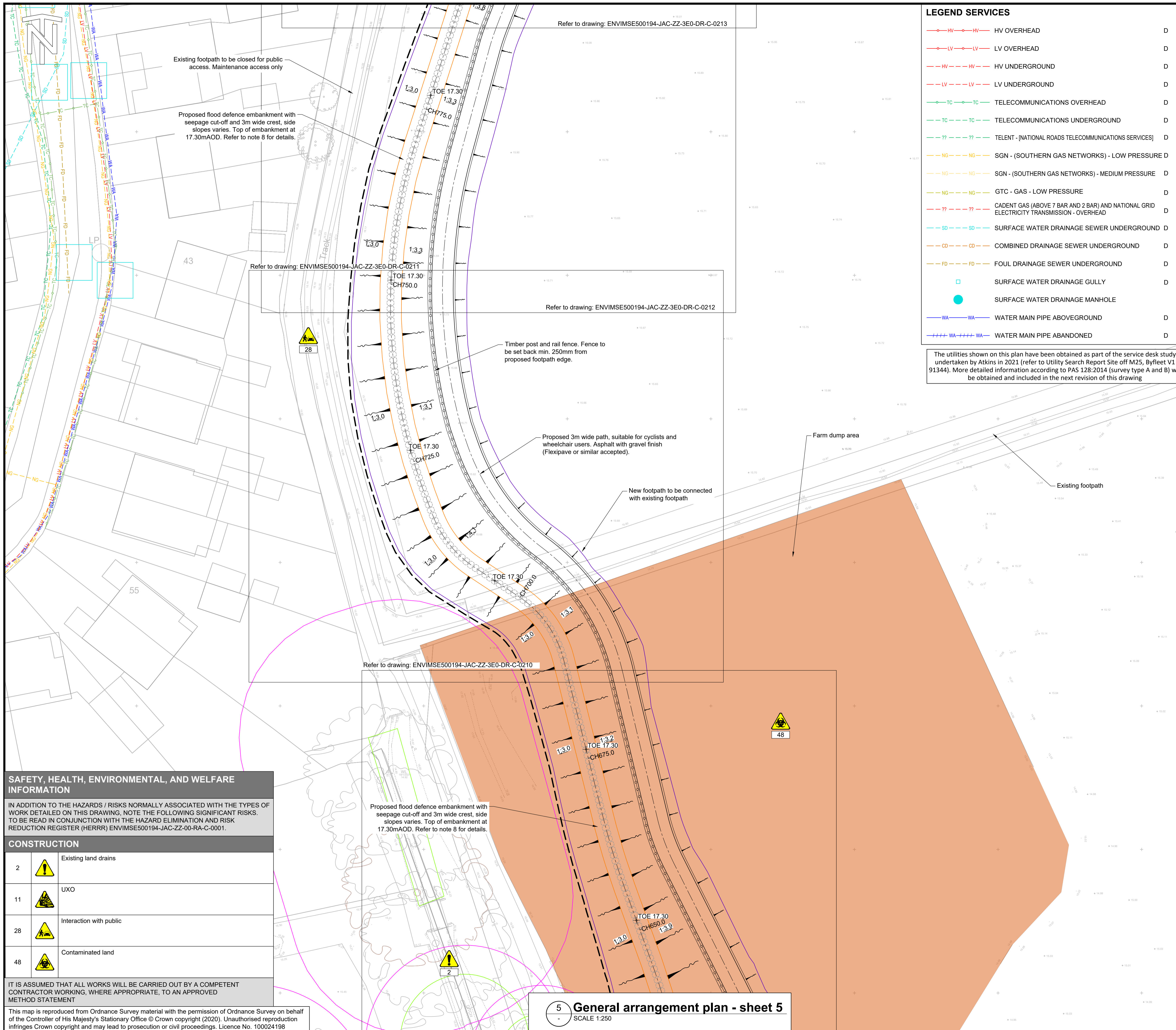
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Parent Model ENVIMSE00194-JAC-ZZ-3E0-DR-C-0103.dwg	
Security Classification Official	Scale AS SHOWN
Originator J. GORAL	Checker J. ALVAREZ GARCIA
Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment	Status S3
Information Container ENVIMSE00194-JAC-ZZ-3E0-DR-C-0103	Revision P01
A1 Sheet Size	

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

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CONSTRUCTION	
2	Existing land drains
11	UXO
21	Works near river bank
28	Interaction with public
48	Contaminated land

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT



LEGEND SERVICES

	HV OVERHEAD	D
	LV OVERHEAD	D
	HV UNDERGROUND	D
	LV UNDERGROUND	D
	TELECOMMUNICATIONS OVERHEAD	D
	TELECOMMUNICATIONS UNDERGROUND	D
	TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)	D
	SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE	D
	SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE	D
	GTC - GAS - LOW PRESSURE	D
	CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD	D
	SURFACE WATER DRAINAGE SEWER UNDERGROUND	D
	COMBINED DRAINAGE SEWER UNDERGROUND	D
	FOUL DRAINAGE SEWER UNDERGROUND	D
	SURFACE WATER DRAINAGE GULLY	D
	SURFACE WATER DRAINAGE MANHOLE	D
	WATER MAIN PIPE ABOVEGROUND	D
	WATER MAIN PIPE ABANDONED	D

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 - For cross section details, refer to drawings: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0300 to 0305
For longitudinal profile, refer to drawings: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0310 to 0314
For typical details, refer to drawings: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0800 to 0801
 - For landscape information, refer to landscape plans: ENVIMSE500194-JAC-ZZ-3D0-DR-L-0016 to 0018.
 - For tree removal plans, refer to drawings: ENVIMSE500194-JAC-ZZ-00-DR-EN-0009 to 0012.
For tree protection plans, refer to drawings: ENVIMSE500194-JAC-ZZ-00-DR-EN-0013 to 0016.

LEGEND

	SEEPAGE CUT-OFF (DEEP SOIL MIXING)
	CREST OF EMBANKMENT
	TOE OF EMBANKMENT
	POST AND RAIL FENCING
	STOCK PROOF FENCE
	GATE (TYPE UNSPECIFIED)
	TOP OF EMBANKMENT
	WATERCOURSE FLOW DIRECTION ARROW
	TREE OR TREE GROUP CANOPY
	IDENTIFIED ROOT PROTECTION AREA
	EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
	FARM DUMP AREA
	PROPOSED TOE DRAIN (FRENCH DRAIN)



P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver

Document Control

Jacobs.

Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
**Linear Defences
General Arrangement
Sheet 5**



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Parent Model ENVIMSE500194-JAC-ZZ-3E0-DR-C-0104.dwg			
Security Classification Official	Scale AS SHOWN		
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment	Status S3	Revision P01	Information Container ENVIMSE500194-JAC-ZZ-3E0-DR-C-0104

A1 Sheet Size

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

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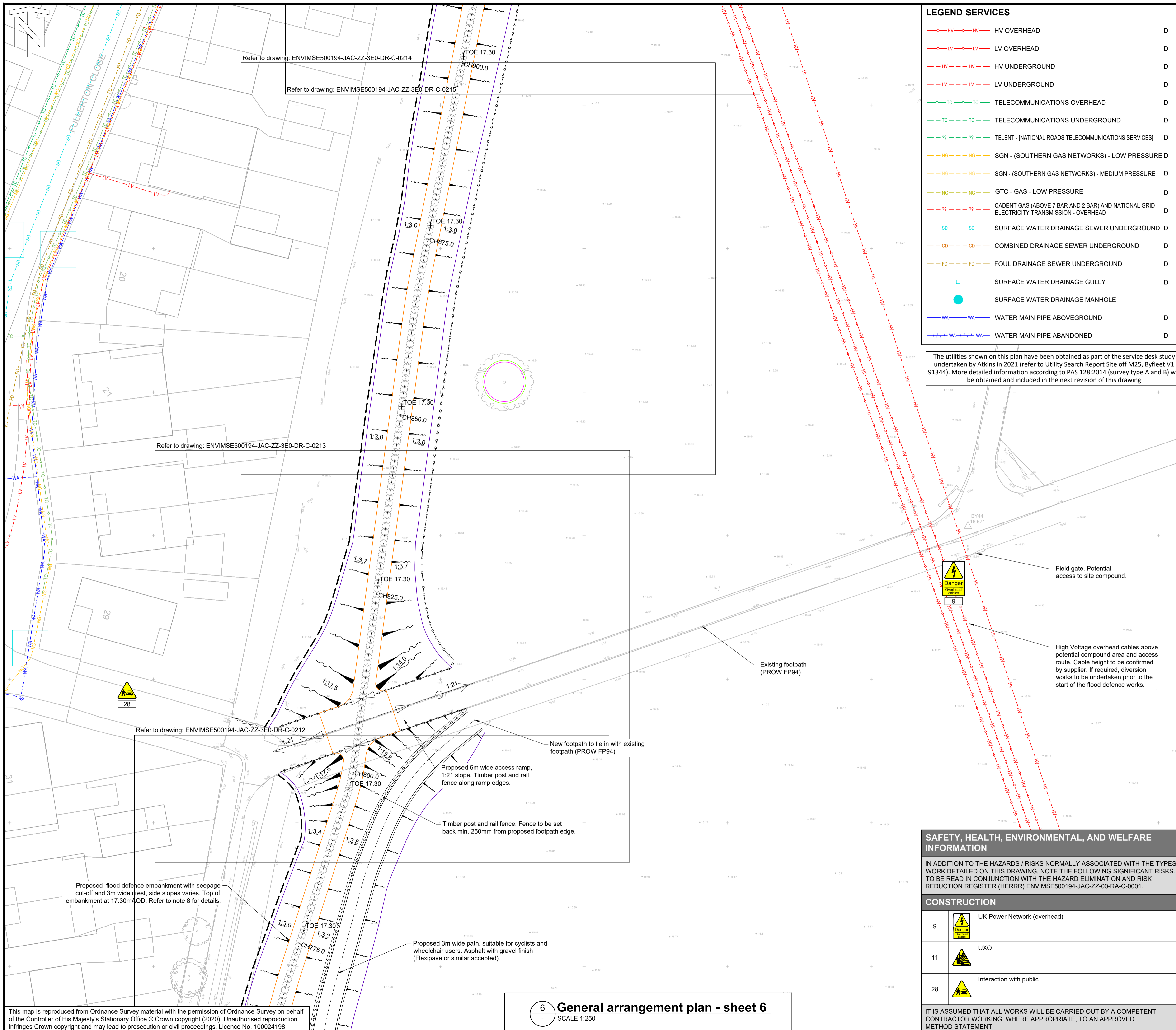
CONSTRUCTION

2		Existing land drains
11		UXO
28		Interaction with public
48		Contaminated land

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

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5 General arrangement plan - sheet 5
SCALE 1:250



LEGEND SERVICES

	HV OVERHEAD	D
	LV OVERHEAD	D
	HV UNDERGROUND	D
	LV UNDERGROUND	D
	TELECOMMUNICATIONS OVERHEAD	D
	TELECOMMUNICATIONS UNDERGROUND	D
	TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)	D
	SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE	D
	SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE	D
	GTC - GAS - LOW PRESSURE	D
	CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD	D
	SURFACE WATER DRAINAGE SEWER UNDERGROUND	D
	COMBINED DRAINAGE SEWER UNDERGROUND	D
	FOUL DRAINAGE SEWER UNDERGROUND	D
	SURFACE WATER DRAINAGE GULLY	D
	SURFACE WATER DRAINAGE MANHOLE	D
	WATER MAIN PIPE ABOVEGROUND	D
	WATER MAIN PIPE ABANDONED	D

The utilities shown on this plan have been obtained as part of the service desk study undertaken by Atkins in 2021 (refer to Utility Search Report Site off M25, Byfleet V1 91344). More detailed information according to PAS 128:2014 (survey type A and B) will be obtained and included in the next revision of this drawing

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 - For tree protection plans, refer to drawings: ENVIMSE500194-JAC-ZZ-00-DR-EN-0013 to 0016.

LEGEND

	SEEPAGE CUT-OFF (DEEP SOIL MIXING)
	CREST OF EMBANKMENT
	TOE OF EMBANKMENT
	POST AND RAIL FENCING
	STOCK PROOF FENCE
	GATE (TYPE UNSPECIFIED)
	TOP OF EMBANKMENT
	WATERCOURSE FLOW DIRECTION ARROW
	TREE OR TREE GROUP CANOPY
	IDENTIFIED ROOT PROTECTION AREA
	EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
	PROPOSED TOE DRAIN (FRENCH DRAIN)



P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver

Document Control

Jacobs.

Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
**Linear Defences
General Arrangement
Sheet 6**



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Parent Model
ENVIMSE500194-JAC-ZZ-3E0-DR-C-0105.dwg

Security Classification	Scale		
Official	AS SHOWN		
Originator	Checker	Reviewer	Approver
J. GORAL	J. ALVAREZ GARCIA	J. ALVAREZ GARCIA	S. FOWLER
Suitability	Status	Revision	
S3 - Suitable for review and comment	S3	P01	

Information Container
ENVIMSE500194-JAC-ZZ-3E0-DR-C-0105

A1 Sheet Size

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

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CONSTRUCTION

9		UK Power Network (overhead)
11		UXO
28		Interaction with public

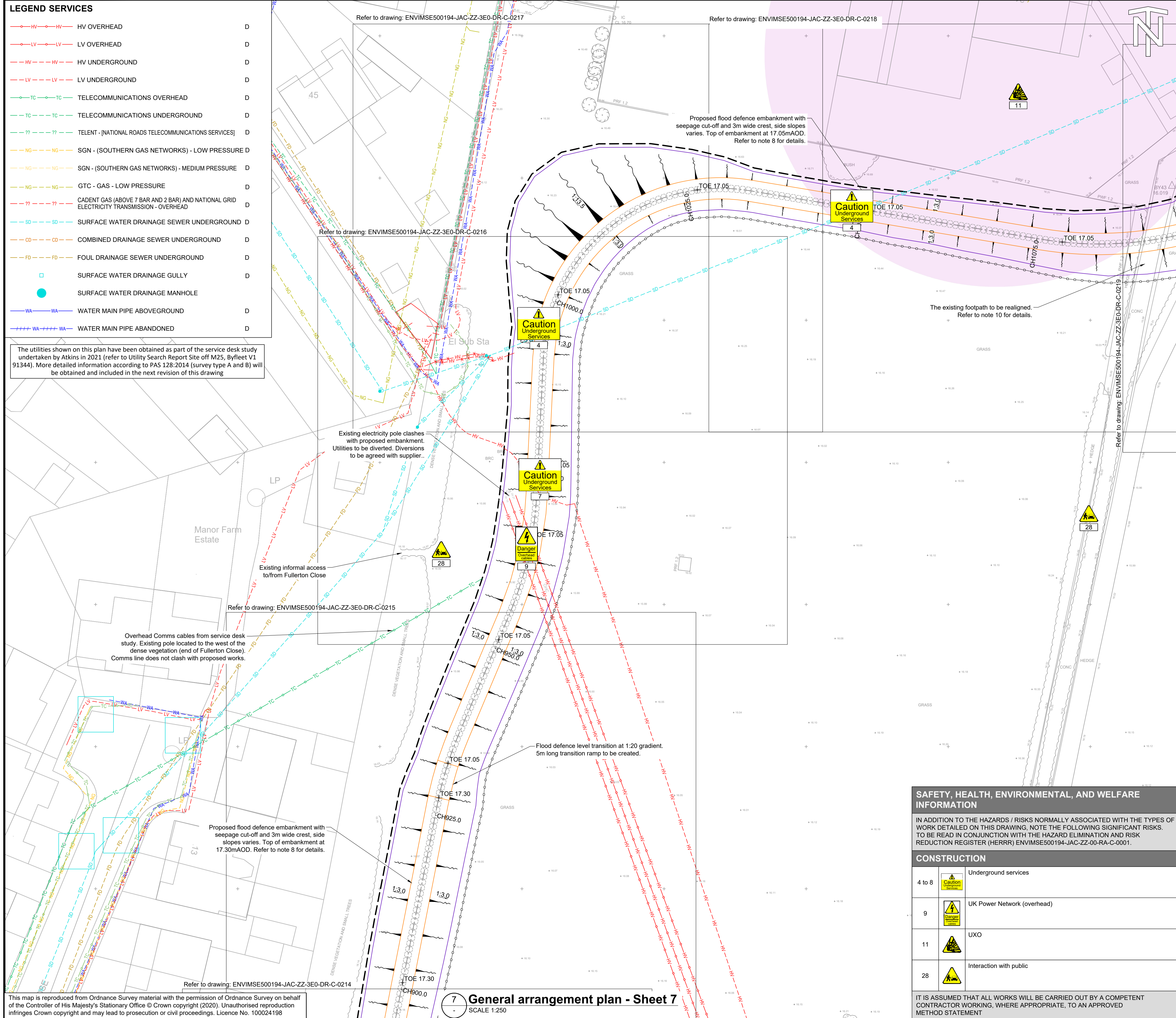
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6 General arrangement plan - sheet 6
SCALE 1:250

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LEGEND SERVICES		
	HV OVERHEAD	D
	LV OVERHEAD	D
	HV UNDERGROUND	D
	LV UNDERGROUND	D
	TELECOMMUNICATIONS OVERHEAD	D
	TELECOMMUNICATIONS UNDERGROUND	D
	TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)	D
	SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE	D
	SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE	D
	GTC - GAS - LOW PRESSURE	D
	CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD	D
	SURFACE WATER DRAINAGE SEWER UNDERGROUND	D
	COMBINED DRAINAGE SEWER UNDERGROUND	D
	FOUL DRAINAGE SEWER UNDERGROUND	D
	SURFACE WATER DRAINAGE GULLY	D
	SURFACE WATER DRAINAGE MANHOLE	D
	WATER MAIN PIPE ABOVEGROUND	D
	WATER MAIN PIPE ABANDONED	D

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LEGEND

	SEEPAGE CUT-OFF (DEEP SOIL MIXING)
	CREST OF EMBANKMENT
	TOE OF EMBANKMENT
	POST AND RAIL FENCING
	STOCK PROOF FENCE
	GATE (TYPE UNSPECIFIED)
	TOP OF EMBANKMENT
	WATERCOURSE FLOW DIRECTION ARROW
	TREE OR TREE GROUP CANOPY
	IDENTIFIED ROOT PROTECTION AREA
	EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
	PROPOSED TOE DRAIN (FRENCH DRAIN)
	IDENTIFIED AREAS WITH POTENTIAL FOR UXO PRESENCE

10 5 0 5 10 15 20
SCALE 1:250 (m)

Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF

Document Control

Jacobs.

Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
**Linear Defences
General Arrangement
Sheet 7**

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Parent Model
ENVIMSE500194-JAC-ZZ-3E0-DR-C-0106.dwg

Security Classification
Official

Scale
AS SHOWN

Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
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Suitability
S3 - Suitable for review and comment

Status
S3

Revision
P01

Information Container
ENVIMSE500194-JAC-ZZ-3E0-DR-C-0106

A1 Sheet Size

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

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CONSTRUCTION

4 to 8		Underground services
9		UK Power Network (overhead)
11		UXO
28		Interaction with public

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

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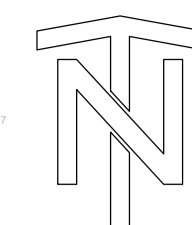
Refer to drawing: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0222

Refer to drawing: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0220

Refer to drawing: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0221

Refer to drawing: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0219

Refer to drawing: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0219
Refer to drawing: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0218



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 - For tree protection plans, refer to drawings: ENVIMSE00194-JAC-ZZ-00-DR-EN-0013 to 0016.

Proposed flood defence embankment crosses above existing ditch. Culvert with flap valve on downstream end to be installed.

Proposed flood defence embankment with seepage cut-off and 3m wide crest, side slopes varies. Top of embankment at 17.05mAOD. Refer to note 8 for details.

Existing headwall to be protected during the works

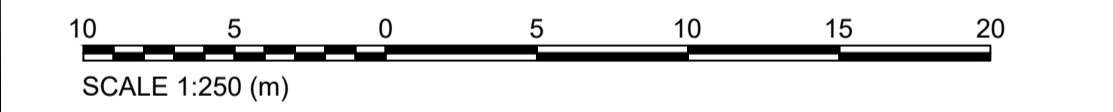
The utilities shown on this plan have been obtained as part of the service desk study undertaken by Atkins in 2021 (refer to Utility Search Report Site off M25, Byfleet V1 91344). More detailed information according to PAS 128:2014 (survey type A and B) will be obtained and included in the next revision of this drawing

LEGEND SERVICES

- HV OVERHEAD D
- LV OVERHEAD D
- HV UNDERGROUND D
- LV UNDERGROUND D
- TELECOMMUNICATIONS OVERHEAD D
- TELECOMMUNICATIONS UNDERGROUND D
- TELENT - [NATIONAL ROADS TELECOMMUNICATIONS SERVICES] D
- SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE D
- SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE D
- GTC - GAS - LOW PRESSURE D
- CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD D
- SURFACE WATER DRAINAGE SEWER UNDERGROUND D
- COMBINED DRAINAGE SEWER UNDERGROUND D
- FOUL DRAINAGE SEWER UNDERGROUND D
- SURFACE WATER DRAINAGE GULLY D
- SURFACE WATER DRAINAGE MANHOLE D
- WATER MAIN PIPE ABOVEGROUND D
- WATER MAIN PIPE ABANDONED D

LEGEND

- SEEPAGE CUT-OFF (DEEP SOIL MIXING)
- CREST OF EMBANKMENT
- TOE OF EMBANKMENT
- POST AND RAIL FENCING
- STOCK PROOF FENCE
- GATE (TYPE UNSPECIFIED)
- TOE
- WATERCOURSE FLOW DIRECTION ARROW
- TREE OR TREE GROUP CANOPY
- IDENTIFIED ROOT PROTECTION AREA
- EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
- PROPOSED TOE DRAIN (FRENCH DRAIN)
- IDENTIFIED AREAS WITH POTENTIAL FOR UXO PRESENCE



P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
Document Control							



SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

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CONSTRUCTION

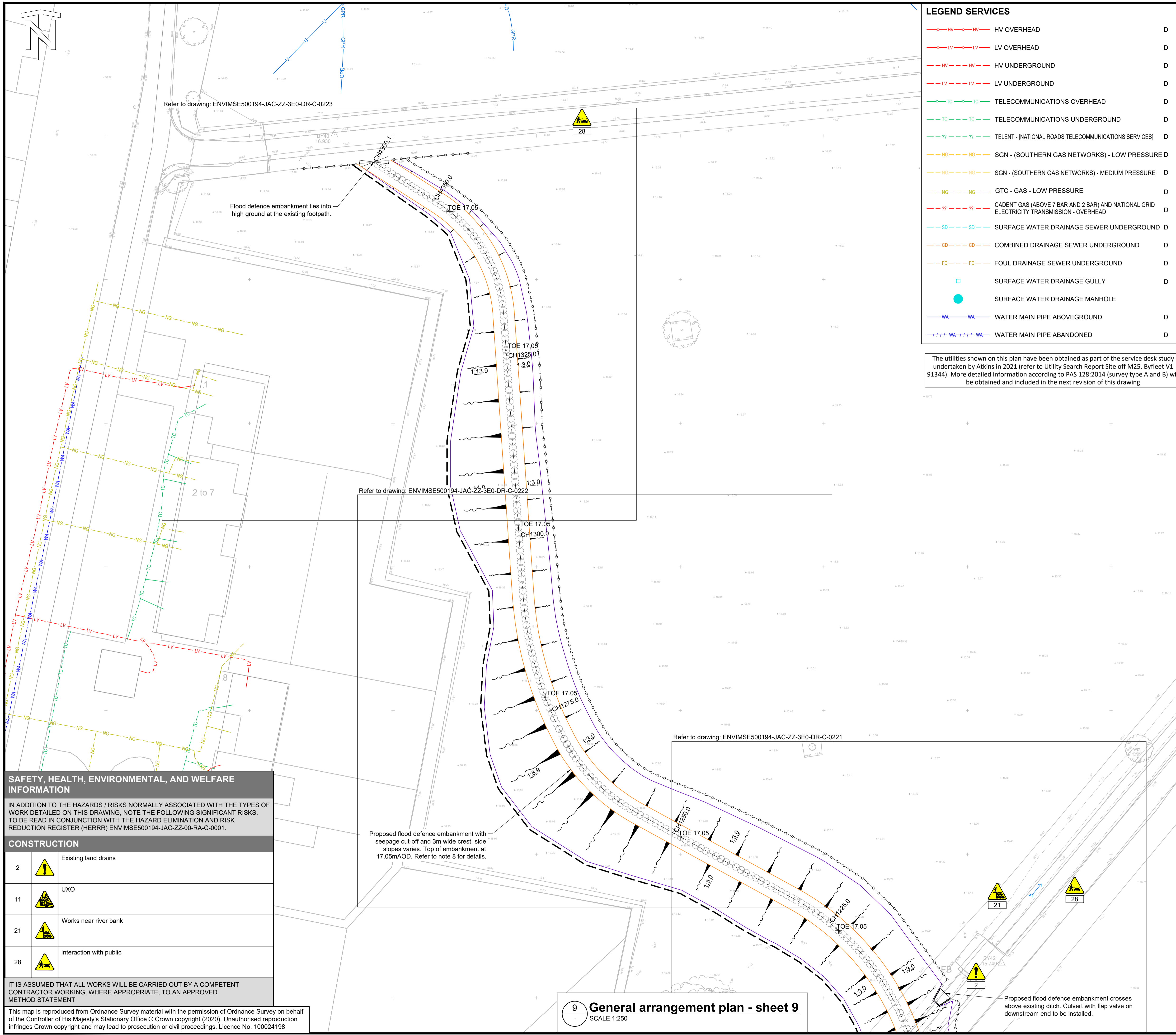
2		Existing land drains
4 to 8		Underground services
11		UXO
21		Works near river bank
28		Interaction with public

Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
**Linear Defences
General Arrangement
Sheet 8**



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Parent Model ENVIMSE00194-JAC-ZZ-3E0-DR-C-0107.dwg			
Security Classification Official		Scale AS SHOWN	
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment		Status S3	Revision P01
Information Contained ENVIMSE00194-JAC-ZZ-3E0-DR-C-0107			



Refer to drawing: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0223

Refer to drawing: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0222

Refer to drawing: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0221

Flood defence embankment ties into high ground at the existing footpath.

Proposed flood defence embankment with seepage cut-off and 3m wide crest, side slopes varies. Top of embankment at 17.05mAOD. Refer to note 8 for details.

LEGEND SERVICES

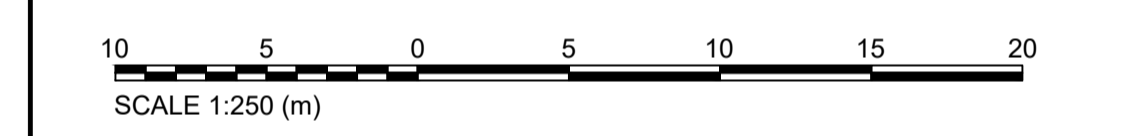
	HV OVERHEAD	D
	LV OVERHEAD	D
	HV UNDERGROUND	D
	LV UNDERGROUND	D
	TELECOMMUNICATIONS OVERHEAD	D
	TELECOMMUNICATIONS UNDERGROUND	D
	TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)	D
	SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE	D
	SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE	D
	GTC - GAS - LOW PRESSURE	D
	CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD	D
	SURFACE WATER DRAINAGE SEWER UNDERGROUND	D
	COMBINED DRAINAGE SEWER UNDERGROUND	D
	FOUL DRAINAGE SEWER UNDERGROUND	D
	SURFACE WATER DRAINAGE GULLY	D
	SURFACE WATER DRAINAGE MANHOLE	D
	WATER MAIN PIPE ABOVEGROUND	D
	WATER MAIN PIPE ABANDONED	D

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 - For tree protection plans, refer to drawings: ENVIMSE500194-JAC-ZZ-00-DR-EN-0013 to 0016.

LEGEND

	SEEPAGE CUT-OFF (DEEP SOIL MIXING)
	CREST OF EMBANKMENT
	TOE OF EMBANKMENT
	POST AND RAIL FENCING
	STOCK PROOF FENCE
	GATE (TYPE UNSPECIFIED)
	TOP OF EMBANKMENT
	WATERCOURSE FLOW DIRECTION ARROW
	TREE OR TREE GROUP CANOPY
	IDENTIFIED ROOT PROTECTION AREA
	EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
	PROPOSED TOE DRAIN (FRENCH DRAIN)



SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

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CONSTRUCTION

2		Existing land drains
11		UXO
21		Works near river bank
28		Interaction with public

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9 General arrangement plan - sheet 9
SCALE 1:250

P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
Document Control							



Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
**Linear Defences
General Arrangement
Sheet 9**



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Parent Model ENVIMSE500194-JAC-ZZ-3E0-DR-C-0108.dwg			
Security Classification Official	Scale AS SHOWN		
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment	Status S3	Revision P01	Information Contained ENVIMSE500194-JAC-ZZ-3E0-DR-C-0108

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CONSTRUCTION

1		M25 surface water drainage
4 to 8		Underground services
11		UXO
19		Welding of studs onto sheet piles for timber cladding
21		Works near river bank
28		Interaction with public

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

PVC pipe 450mm dia to be reinstated through the steel sheet pile wall. Flap valve - Althon 600mm HDPE or similar approved to be installed at outfall into Broad Ditch. See Detail 1 on drawing ENVIMSE00194-JAC-ZZ-3E0-DR-C-0800 for pipe accommodation in SSP wall.

Concrete paving to be protected during the works.

Post and rail fence to be locally removed and reinstated.

SSP tie into high ground (M25 embankment). Detail to be confirmed.

Downstream headwall to be removed.

Post and rail fences on wet side to be removed and disposed off.

Electric fence on wet side to be removed and disposed off.

Existing tree to be retained and protected during construction. See Tree Protection Plan - note 11.

The utilities shown on this plan have been obtained as part of the service desk study undertaken by Atkins in 2021 (refer to Utility Search Report Site off M25, Byfleet V1 91344). More detailed information according to PAS 128:2014 (survey type A and B) will be obtained and included in the next revision of this drawing

Control boxes to be protected during the works.

Existing security fence to be removed and locally reinstated to match the existing.

Control box to be removed and reinstated on completion.

Security fences to be locally removed and reinstated.

Steel sheet pile flood defence wall with timber clad on wet side. See drawing ENVIMSE00194-JAC-ZZ-3E0-DR-C-0300 for details. Top of sheet pile wall at 17.67mAOD.

Existing tarmac surface to be removed and reconstructed 'like for like' at approx. ch52.5 to ch92.3. See detail on drawing ENVIMSE00194-JAC-ZZ-3E0-DR-C-0800.

Security fence (concrete wall with timber sleepers) to be locally removed to accommodate SSP wall. Removed part to be reconstructed.

Electric fence to be locally removed and reinstated after the completion of the construction works.

Electric fence to be locally removed and reinstated.

Concrete wall to be removed.

Existing Watts Compound fence to be removed.

Control boxes to be protected during the works.

Existing security fence to be removed and locally reinstated to match the existing.

Control box to be removed and reinstated on completion.

Security fences to be locally removed and reinstated.

Steel sheet pile flood defence wall with timber clad on wet side. See drawing ENVIMSE00194-JAC-ZZ-3E0-DR-C-0300 for details. Top of sheet pile wall at 17.67mAOD.

Existing tarmac surface to be removed and reconstructed 'like for like' at approx. ch52.5 to ch92.3. See detail on drawing ENVIMSE00194-JAC-ZZ-3E0-DR-C-0800.

Security fence (concrete wall with timber sleepers) to be locally removed to accommodate SSP wall. Removed part to be reconstructed.

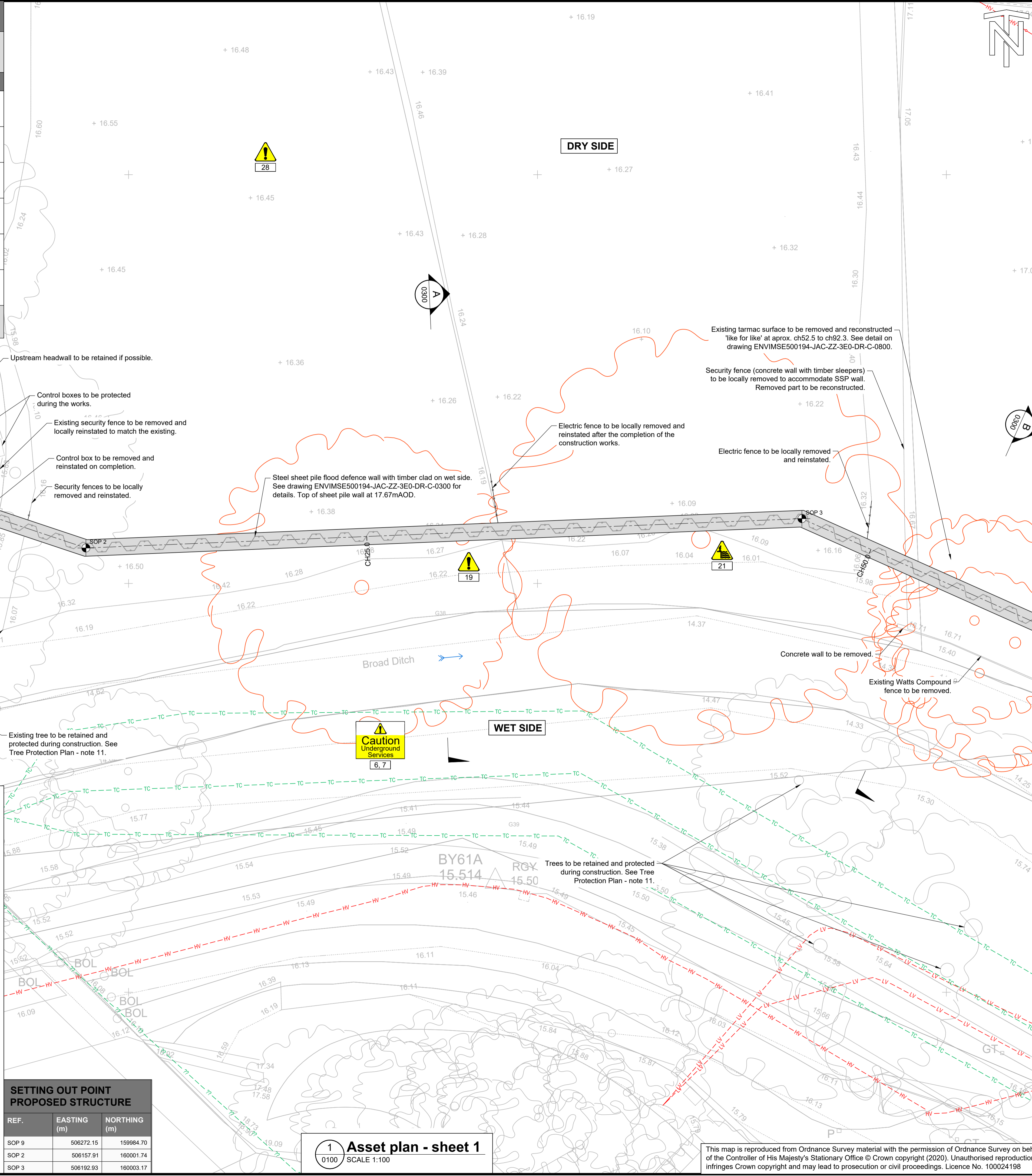
Electric fence to be locally removed and reinstated after the completion of the construction works.

Electric fence to be locally removed and reinstated.

Concrete wall to be removed.

LEGEND SERVICES

	HV OVERHEAD	D
	LV OVERHEAD	D
	HV UNDERGROUND	D
	LV UNDERGROUND	D
	TELECOMMUNICATIONS OVERHEAD	D
	TELECOMMUNICATIONS UNDERGROUND	D
	TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)	
	SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE	
	SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE	
	GTC - GAS - LOW PRESSURE	
	CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD	
	SURFACE WATER DRAINAGE SEWER UNDERGROUND	D
	COMBINED DRAINAGE SEWER UNDERGROUND	D
	FOUL DRAINAGE SEWER UNDERGROUND	D
	SURFACE WATER DRAINAGE GULLY	
	SURFACE WATER DRAINAGE MANHOLE	
	WATER MAIN PIPE ABOVEGROUND	D
	WATER MAIN PIPE ABANDONED	D



SETTING OUT POINT PROPOSED STRUCTURE

REF.	EASTING (m)	NORTHING (m)
SOP 1	506272.15	159984.70
SOP 2	506157.91	160001.74
SOP 3	506192.93	160003.17

1 Asset plan - sheet 1
0100 SCALE 1:100

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 - For General Arrangement details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0100 to 0108.
 - For further design details, refer to asset plan drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0200 to 0224.
 - For cross section details, refer to drawings: ENVIMSE00194-JAC-DE-3E0-DR-C-0300 to 305. For longitudinal profile, refer to drawings: ENVIMSE00194-JAC-DE-3E0-DR-C-0310 to 314.
 - For typical details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0800 to 0801.
 - For landscape information, refer to landscape plans: ENVIMSE00194-JAC-ZZ-3D0-DR-L-0016 to 0018
 - For tree removal plans, refer to drawings: NVIMSE00194-JAC-ZZ-3E0-DR-EN-0009 to 0012. For tree protection plans, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-EN-0013 to 0016.

LEGEND

	STEEL SHEET PILE WALL
	CREST OF EMBANKMENT
	TOE OF EMBANKMENT
	POST AND RAIL FENCING
	STOCK PROOF FENCE
	GATE (TYPE UNSPECIFIED)
	TOW
	TOP OF WALL
	EXISTING LEVELS
	WATERCOURSE FLOW DIRECTION ARROW
	EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
	TOE DRAIN (FRENCH DRAIN)

5 4 3 2 1 0 2 4 6
SCALE 1:100 (m)

PO1	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
Document Control							



Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
Linear Defences Asset Plan Sheet 1



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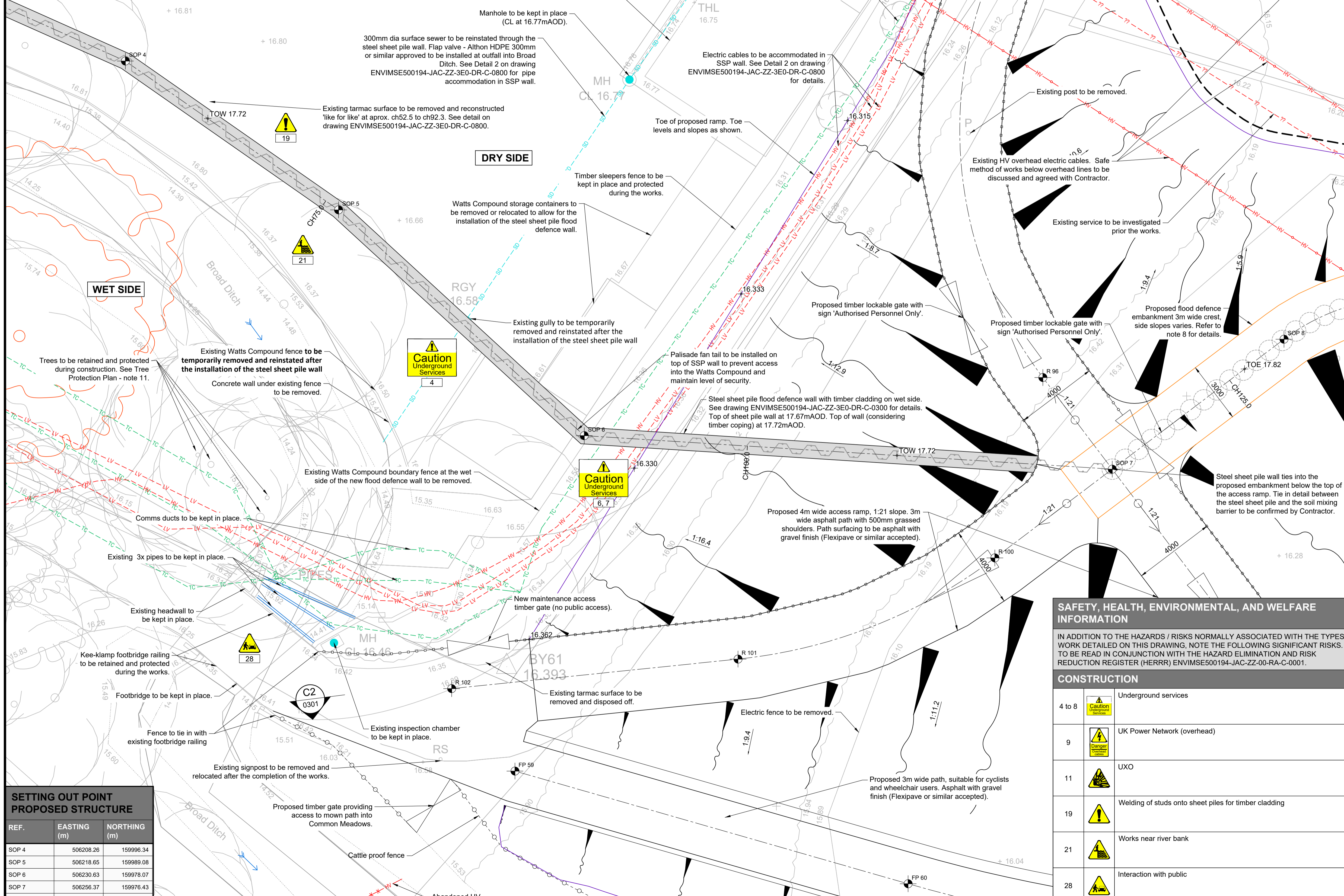
Parent Model ENVIMSE00194-JAC-ZZ-3E0-DR-C-0200.dwg		Scale AS SHOWN	
Security Classification Official		Approver S. FOWLER	
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Status S3
Suitability S3 - Suitable for review and comment		Revision P01	Information Contained ENVIMSE00194-JAC-ZZ-3E0-DR-C-0200

A1 Sheet Size

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LEGEND SERVICES	
	HV OVERHEAD D
	LV OVERHEAD D
	HV UNDERGROUND D
	LV UNDERGROUND D
	TELECOMMUNICATIONS OVERHEAD D
	TELECOMMUNICATIONS UNDERGROUND D
	TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES) D
	SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE D
	SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE D
	GTC - GAS - LOW PRESSURE D
	CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD D
	SURFACE WATER DRAINAGE SEWER UNDERGROUND D
	COMBINED DRAINAGE SEWER UNDERGROUND D
	FOUL DRAINAGE SEWER UNDERGROUND D
	SURFACE WATER DRAINAGE GULLY D
	SURFACE WATER DRAINAGE MANHOLE D
	WATER MAIN PIPE ABOVEGROUND D
	WATER MAIN PIPE ABANDONED D

The utilities shown on this plan have been obtained as part of the service desk study undertaken by Atkins in 2021 (refer to Utility Search Report Site off M25, Byfleet V1 91344). More detailed information according to PAS 128:2014 (survey type A and B) will be obtained and included in the next revision of this drawing



SETTING OUT POINT PROPOSED STRUCTURE		
REF.	EASTING (m)	NORTHING (m)
SOP 4	506208.26	159996.34
SOP 5	506218.65	159989.08
SOP 6	506230.63	159978.07
SOP 7	506256.37	159976.43
SOP 8	506264.74	159982.77

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2 Asset plan - sheet 2
0100 SCALE 1:100

- ### General Notes
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 - For further design details, refer to asset plan drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0200 to 0224.
 - For cross section details, refer to drawings: ENVIMSE00194-JAC-DE-3E0-DR-C-0300 to 305.
 - For longitudinal profile, refer to drawings: ENVIMSE00194-JAC-DE-3E0-DR-C-0310 to 314.
 - For typical details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0800 to 0801.
 - For landscape information, refer to landscape plans: ENVIMSE00194-JAC-ZZ-3D0-DR-L-0016 to 0018.
 - For tree removal plans, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-EN-0009 to 0012.
 - For tree protection plans, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-EN-0013 to 0016.
 - Hardwood and softwood timbers should be FSC certified and protected with EA procedures. A bio base liquid should be used to protect the new timbers.

LEGEND

	STEEL SHEET PILE WALL
	SEEPAGE CUT-OFF (DEEP SOIL MIXING)
	CREST OF EMBANKMENT
	TOE OF EMBANKMENT
	POST AND RAIL FENCING
	STOCK PROOF FENCE
	GATE (TYPE UNSPECIFIED)
	TOP OF WALL
	TOP OF EMBANKMENT
	EXISTING LEVELS
	WATERCOURSE FLOW DIRECTION ARROW
	EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
	TOE DRAIN (FRENCH DRAIN)

5 4 3 2 1 0 2 4 6
SCALE 1:100 (m)

PO1	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev	Sta.	Description	Date	Originator	Checker	Reviewer	Approver

Document Control

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RISKS. TO BE READ IN CONJUNCTION WITH THE HAZARD ELIMINATION AND RISK REDUCTION REGISTER (HERRR) ENVIMSE00194-JAC-ZZ-00-RA-C-0001.

CONSTRUCTION	
4 to 8	Underground services
9	UK Power Network (overhead)
11	UXO
19	Welding of studs onto sheet piles for timber cladding
21	Works near river bank
28	Interaction with public

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT



Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
Linear Defences Asset Plan Sheet 2

Environment Agency logo

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Parent Model
ENVIMSE00194-JAC-ZZ-3E0-DR-C-0201.dwg

Security Classification
Official

Scale
AS SHOWN

Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
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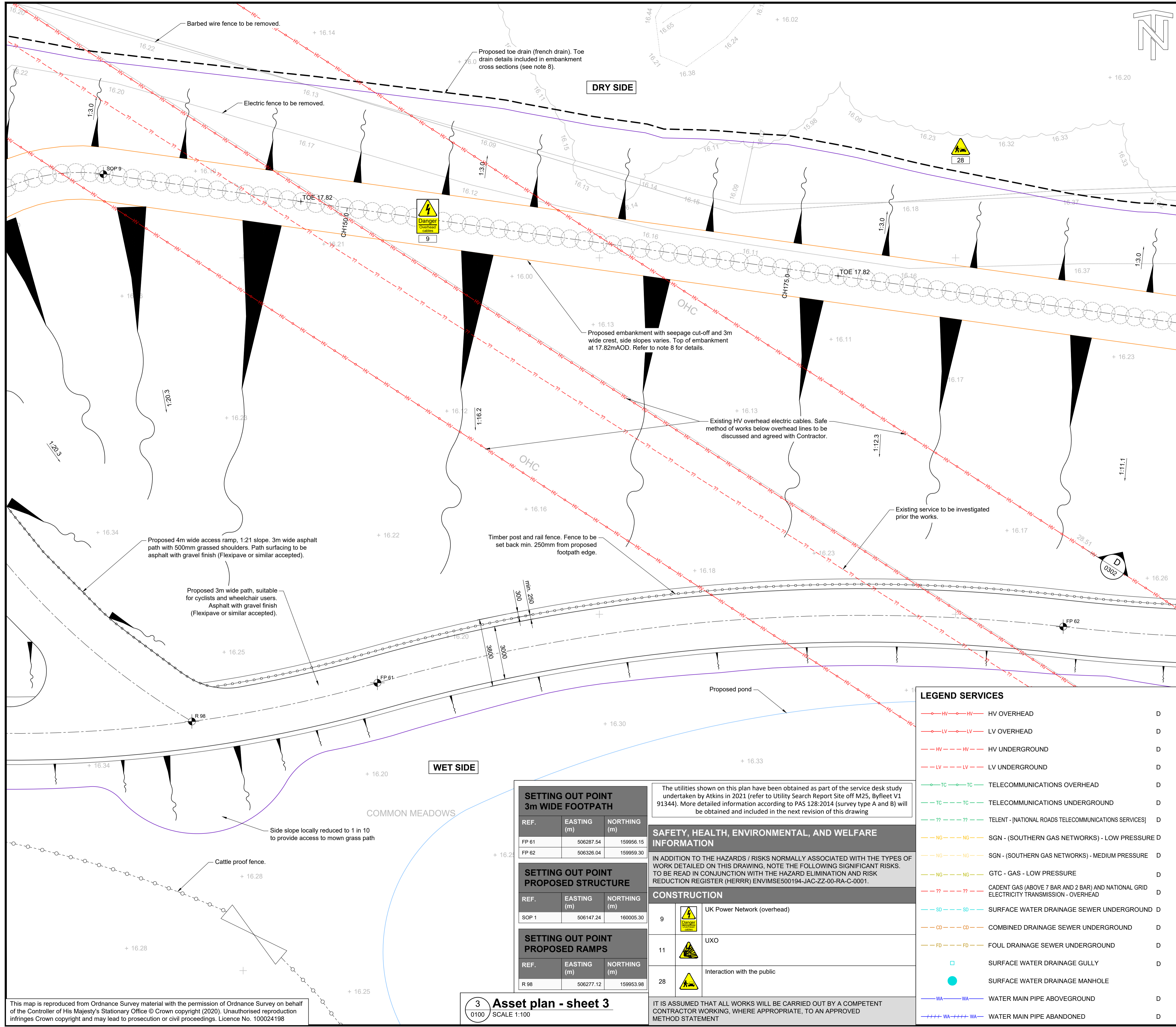
Suitability
S3 - Suitable for review and comment

Information Contained
ENVIMSE00194-JAC-ZZ-3E0-DR-C-0201

Status
S3

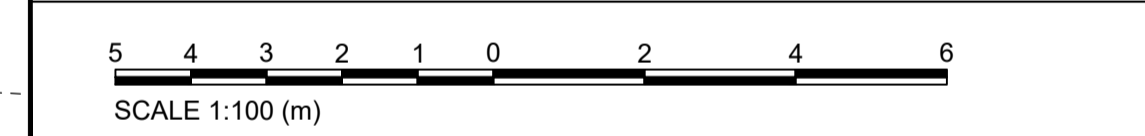
Revision
P01

A1 Sheet Size



- ### General Notes
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 - For cross section details, refer to drawings: ENVIMSE00194-JAC-DE-3E0-DR-C-0300 to 305.
 - For longitudinal profile, refer to drawings: ENVIMSE00194-JAC-DE-3E0-DR-C-0310 to 314.
 - For typical details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0800 to 0801.
 - For landscape information, refer to landscape plans: ENVIMSE00194-JAC-ZZ-3D0-DR-L-0016 to 0018
 - For tree removal plans, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-EN-0009 to 0012.
 - For tree protection plans, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-EN-0013 to 0016.
 - Hardwood and softwood timbers should be FSC certified and protected with EA procedures. A bio base liquid should be used to protect the new timbers.

- ### LEGEND
- SEEPCUT-OFF (DEEP SOIL MIXING)
 - CREST OF EMBANKMENT
 - TOE OF EMBANKMENT
 - POST AND RAIL FENCING
 - STOCK PROOF FENCE
 - PROPOSED POND
 - GATE (TYPE UNSPECIFIED)
 - TOP OF EMBANKMENT
 - EXISTING LEVELS
 - WATERCOURSE FLOW DIRECTION ARROW
 - EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
 - TOE DRAIN (FRENCH DRAIN)



Rev	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF

Document Control

Jacobs.

Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
Linear Defences Asset Plan Sheet 3

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Parent Model
ENVIMSE00194-JAC-ZZ-3E0-DR-C-0202.dwg

Security Classification
Official

Scale
AS SHOWN

Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
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Suitability
S3 - Suitable for review and comment

Information Contained
ENVIMSE00194-JAC-ZZ-3E0-DR-C-0202

Status
S3

Revision
P01

A1 Sheet Size

SETTING OUT POINT 3m WIDE FOOTPATH

REF.	EASTING (m)	NORTHING (m)
FP 61	506287.54	159956.15
FP 62	506326.04	159959.30

SETTING OUT POINT PROPOSED STRUCTURE

REF.	EASTING (m)	NORTHING (m)
SOP 1	506147.24	160005.30

SETTING OUT POINT PROPOSED RAMPS

REF.	EASTING (m)	NORTHING (m)
R 98	506277.12	159953.98

The utilities shown on this plan have been obtained as part of the service desk study undertaken by Atkins in 2021 (refer to Utility Search Report Site off M25, Byfleet V1 91344). More detailed information according to PAS 128:2014 (survey type A and B) will be obtained and included in the next revision of this drawing

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RISKS. TO BE READ IN CONJUNCTION WITH THE HAZARD ELIMINATION AND RISK REDUCTION REGISTER (HERRR) ENVIMSE00194-JAC-ZZ-00-RA-C-0001.

CONSTRUCTION

9		UK Power Network (overhead)
11		UXO
28		Interaction with the public

- ### LEGEND SERVICES
- HV — HV OVERHEAD
 - LV — LV OVERHEAD
 - HV --- HV UNDERGROUND
 - LV --- LV UNDERGROUND
 - TC — TELECOMMUNICATIONS OVERHEAD
 - TC --- TELECOMMUNICATIONS UNDERGROUND
 - ?? --- TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)
 - NG — SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE
 - NG — SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE
 - NG — GTC - GAS - LOW PRESSURE
 - ?? --- CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD
 - SD — SURFACE WATER DRAINAGE SEWER UNDERGROUND
 - CD — COMBINED DRAINAGE SEWER UNDERGROUND
 - FD — FOUL DRAINAGE SEWER UNDERGROUND
 - SURFACE WATER DRAINAGE GULLY
 - SURFACE WATER DRAINAGE MANHOLE
 - WA — WATER MAIN PIPE ABOVEGROUND
 - WA --- WATER MAIN PIPE ABANDONED

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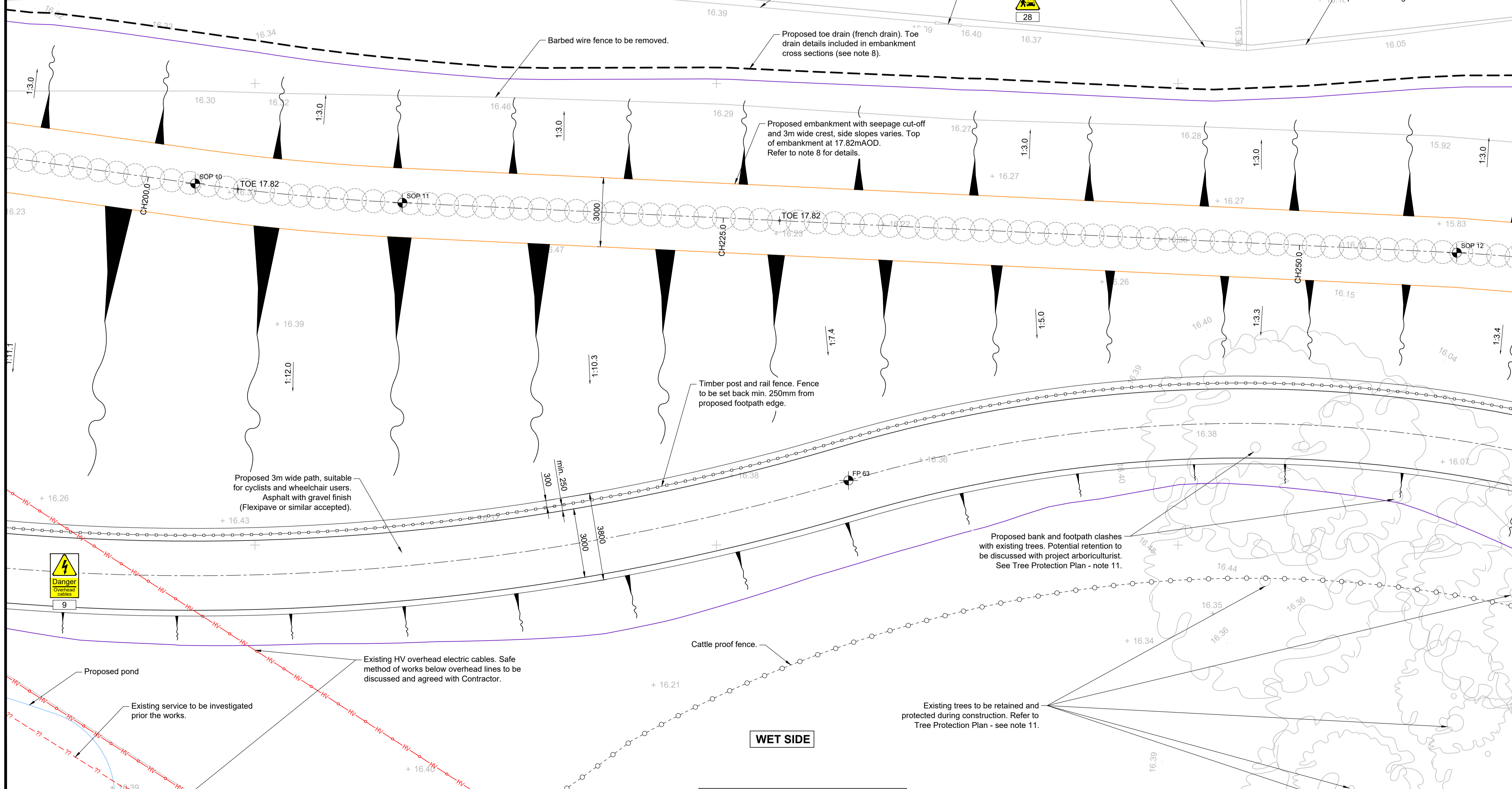
LEGEND SERVICES		
	HV OVERHEAD	D
	LV OVERHEAD	D
	HV UNDERGROUND	D
	LV UNDERGROUND	D
	TELECOMMUNICATIONS OVERHEAD	D
	TELECOMMUNICATIONS UNDERGROUND	D
	TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)	D
	SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE	D
	SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE	D
	GTC - GAS - LOW PRESSURE	D
	CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD	D
	SURFACE WATER DRAINAGE SEWER UNDERGROUND	D
	COMBINED DRAINAGE SEWER UNDERGROUND	D
	FOUL DRAINAGE SEWER UNDERGROUND	D
	SURFACE WATER DRAINAGE GULLY	D
	SURFACE WATER DRAINAGE MANHOLE	D
	WATER MAIN PIPE ABOVEGROUND	D
	WATER MAIN PIPE ABANDONED	D

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION	
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CONSTRUCTION	
4 to 8	Underground services
9	UK Power Network (overhead)
11	UXO
28	Interaction with the public

SETTING OUT POINT PROPOSED STRUCTURE		
REF.	EASTING (m)	NORTHING (m)
SOP 10	506337.41	159975.66
SOP 11	506346.39	159974.83
SOP 12	506392.08	159972.67

SETTING OUT POINT 3m WIDE FOOTPATH		
REF.	EASTING (m)	NORTHING (m)
FP 63	506365.72	159962.80

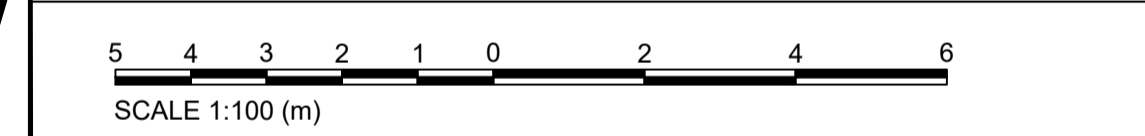
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 - For further design details, refer to asset plan drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0200 to 0224.
 - For cross section details, refer to drawings: ENVIMSE00194-JAC-DE-3E0-DR-C-300 to 305. For longitudinal profile, refer to drawings: ENVIMSE00194-JAC-DE-3E0-DR-C-0310 to 0314.
 - For typical details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0800 to 0801.
 - For landscape information, refer to landscape plans: ENVIMSE00194-JAC-ZZ-3D0-DR-L-0016 to 0018
 - For tree removal plans, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-EN-0009 and 0012. For tree protection plans, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-EN-0013 and 0016.
 - Hardwood and softwood timbers should be FSC certified and protected with EA procedures. A bio base liquid should be used to protect the new timbers.

LEGEND

- SEEPAGE CUT-OFF (DEEP SOIL MIXING)
- CREST OF EMBANKMENT
- TOE OF EMBANKMENT
- POST AND RAIL FENCING
- STOCK PROOF FENCE
- PROPOSED POND
- GATE (TYPE UNSPECIFIED)
- TOE
- EXISTING LEVELS
- WATERCOURSE FLOW DIRECTION ARROW
- EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
- TOE DRAIN (FRENCH DRAIN)



Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF

Document Control

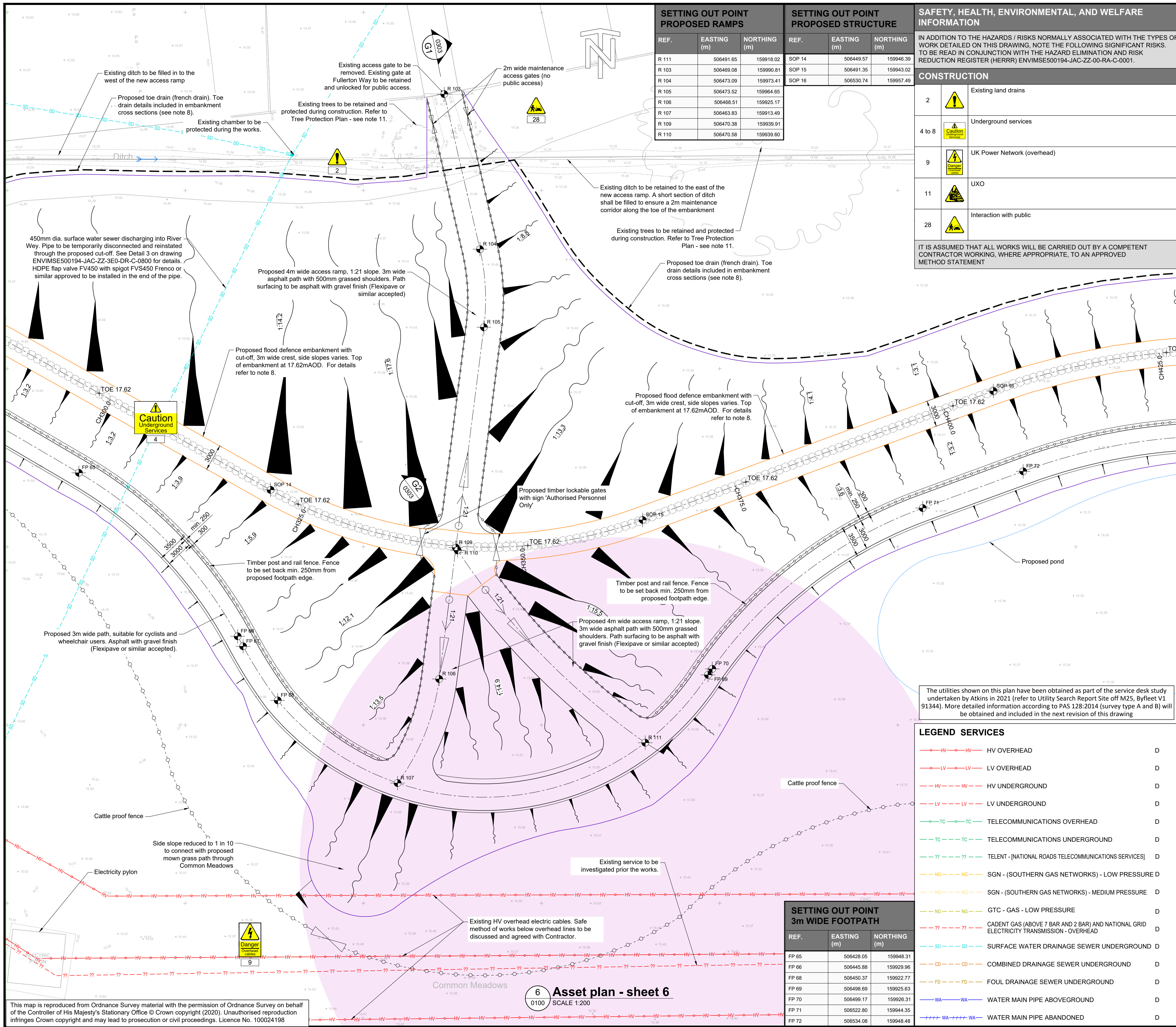


Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
Linear Defences Asset Plan Sheet 4

Parent Model ENVIMSE00194-JAC-ZZ-3E0-DR-C-0203.dwg		Scale AS SHOWN	
Security Classification Official		Status S3	
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment		Status S3	Revision P01
Information Container ENVIMSE00194-JAC-ZZ-3E0-DR-C-0203		A1 Sheet Size	

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SETTING OUT POINT PROPOSED RAMP			SETTING OUT POINT PROPOSED STRUCTURE		
REF.	EASTING (m)	NORTHING (m)	REF.	EASTING (m)	NORTHING (m)
R 111	506491.65	159918.02	SOP 14	506449.57	159946.39
R 103	506469.08	159990.81	SOP 15	506491.35	159943.02
R 104	506473.09	159973.41	SOP 16	506530.74	159957.49
R 105	506473.52	159964.65			
R 106	506468.51	159925.17			
R 107	506463.83	159913.49			
R 109	506470.38	159939.91			
R 110	506470.58	159939.60			

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION	
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CONSTRUCTION	
2	Existing land drains
4 to 8	Underground services
9	UK Power Network (overhead)
11	UXO
28	Interaction with public
IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT	

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 - For General Arrangement details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0100 to 0108.
 - For further design details, refer to asset plan drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0200 to 0224.
 - For cross section details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0300 to 0305
 - For longitudinal profile, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0310 to 0314
 - For typical details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0800 to 0801.
 - For landscape information, refer to landscape plans: ENVIMSE00194-JAC-ZZ-300-DR-L-0016 to 0018
 - For tree removal plans, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-EN-0009 and 0012.
 - For tree protection plans, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-EN-0013 and 0016.
 - Hardwood and softwood timbers should be FSC certified and protected with EA procedures. A bio base liquid should be used to protect the new timbers.

LEGEND

- SEE PAGE CUT-OFF (DEEP SOIL MIXING)
- CREST OF EMBANKMENT
- TOE OF EMBANKMENT
- POST AND RAIL FENCING
- STOCK PROOF FENCE
- GATE (TYPE UNSPECIFIED)
- TOE
- EXISTING LEVELS
- WATERCOURSE FLOW DIRECTION ARROW
- EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
- TOE DRAIN (FRENCH DRAIN)
- PROPOSED POND
- IDENTIFIED AREAS WITH POTENTIAL FOR UXO PRESENCE

SCALE 1:200 (m)

Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF

The utilities shown on this plan have been obtained as part of the service desk study undertaken by Atkins in 2021 (refer to Utility Search Report Site off M25, Byfleet V1 91344). More detailed information according to PAS 128:2014 (survey type A and B) will be obtained and included in the next revision of this drawing

LEGEND SERVICES

- HV OVERHEAD
- LV OVERHEAD
- HV UNDERGROUND
- LV UNDERGROUND
- TELECOMMUNICATIONS OVERHEAD
- TELECOMMUNICATIONS UNDERGROUND
- TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)
- SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE
- SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE
- GTC - GAS - LOW PRESSURE
- CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD
- SURFACE WATER DRAINAGE SEWER UNDERGROUND
- COMBINED DRAINAGE SEWER UNDERGROUND
- FOUL DRAINAGE SEWER UNDERGROUND
- WATER MAIN PIPE ABOVEGROUND
- WATER MAIN PIPE ABANDONED

SETTING OUT POINT 3m WIDE FOOTPATH		
REF.	EASTING (m)	NORTHING (m)
FP 65	506428.05	159948.31
FP 66	506445.88	159929.96
FP 68	506450.37	159922.77
FP 69	506498.69	159925.63
FP 70	506499.17	159926.31
FP 71	506522.80	159944.35
FP 72	506534.08	159948.48

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Jacobs.

Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
Linear Defences Asset Plan Sheet 6

Environment Agency

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Parent Model
ENVIMSE00194-JAC-ZZ-3E0-DR-C-0205.dwg

Security Classification
Official

Scale
AS SHOWN

Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
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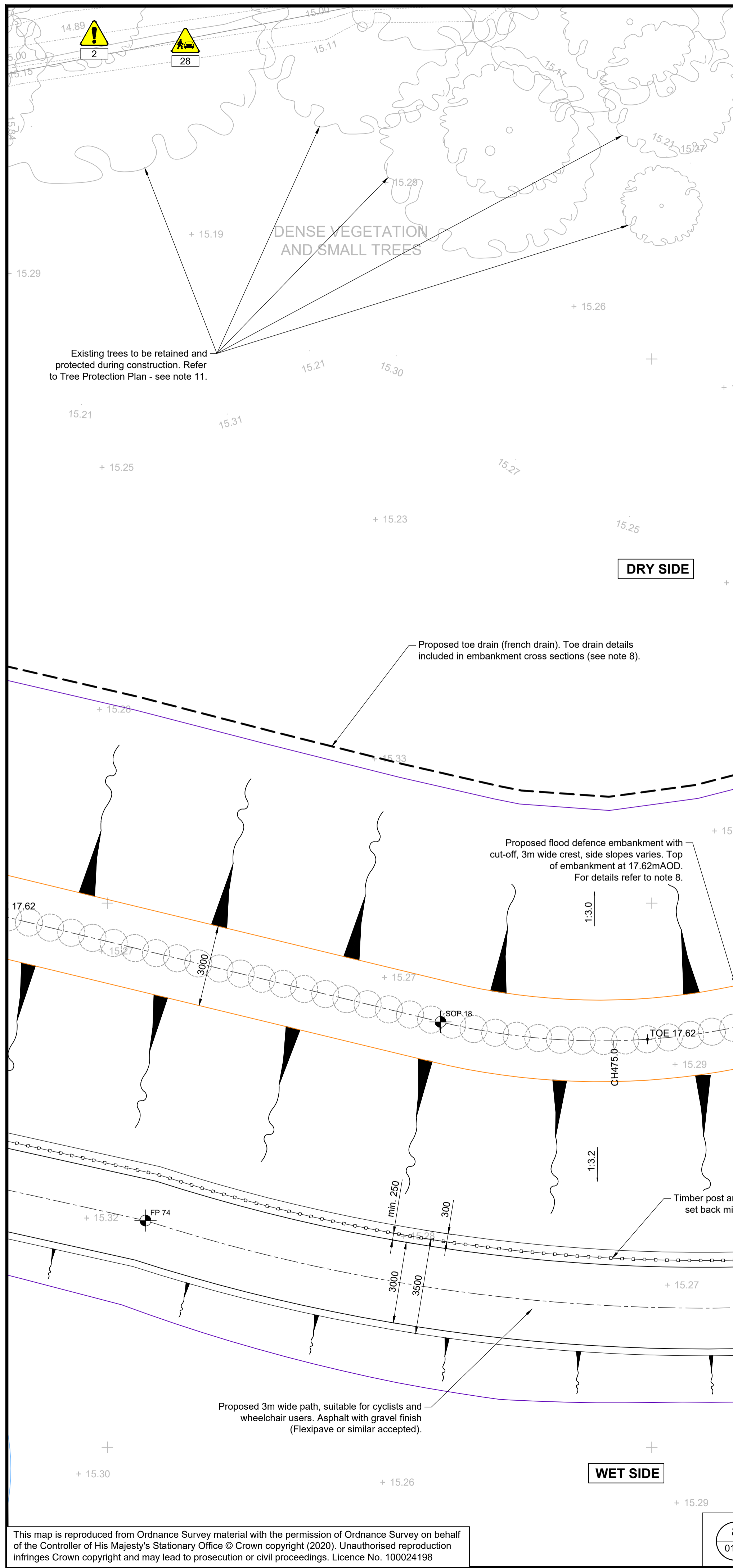
Suitability
S3 - Suitable for review and comment

Status
S3

Revision
P01

Information Container
ENVIMSE00194-JAC-ZZ-3E0-DR-C-0205

A1 Sheet Size



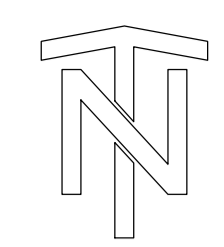
SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RISKS. TO BE READ IN CONJUNCTION WITH THE HAZARD ELIMINATION AND RISK REDUCTION REGISTER (HERRR) ENVIMSE500194-JAC-ZZ-00-RA-C-0001.

CONSTRUCTION	
2	Existing land drains
11	UXO
28	Interaction with public

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

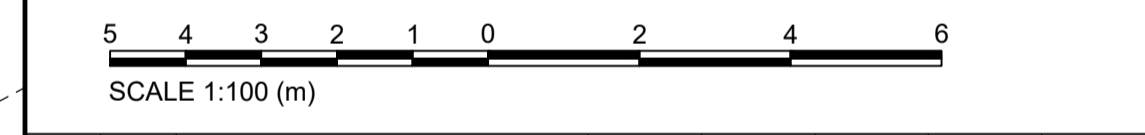
SETTING OUT POINT PROPOSED STRUCTURE			SETTING OUT POINT 3m WIDE FOOTPATH		
REF.	EASTING (m)	NORTHING (m)	REF.	EASTING (m)	NORTHING (m)
SOP 18	506592.24	159955.64	FP 74	506581.40	159948.33
SOP 19	506617.66	159964.36	FP 75	506623.64	159948.73
SOP 20	506621.18	159968.77			
SOP 21	506642.23	159978.14			



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 - Hardwood and softwood timbers should be FSC certified and protected with EA procedures. A bio base liquid should be used to protect the new timbers.

LEGEND

- SEEPCUT-OFF (DEEP SOIL MIXING)
- CREST OF EMBANKMENT
- TOE OF EMBANKMENT
- POST AND RAIL FENCING
- STOCK PROOF FENCE
- GATE (TYPE UNSPECIFIED)
- TOP OF EMBANKMENT
- EXISTING LEVELS
- WATERCOURSE FLOW DIRECTION ARROW
- EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
- TOE DRAIN (FRENCH DRAIN)



Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF

Document Control

Jacobs.

Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
Linear Defences Asset Plan Sheet 8



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Parent Model
ENVIMSE500194-JAC-ZZ-3E0-DR-C-0207.dwg

Security Classification Official	Scale AS SHOWN
Originator J. GORAL	Checker J. ALVAREZ GARCIA
Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment	Status S3
Information Container ENVIMSE500194-JAC-ZZ-3E0-DR-C-0207	Revision P01

A1 Sheet Size

The utilities shown on this plan have been obtained as part of the service desk study undertaken by Atkins in 2021 (refer to Utility Search Report Site off M25, Byfleet V1 91344). More detailed information according to PAS 128:2014 (survey type A and B) will be obtained and included in the next revision of this drawing

LEGEND SERVICES

— HV — HV — HV	HV OVERHEAD	D
— LV — LV — LV	LV OVERHEAD	D
— HV — HV — HV	HV UNDERGROUND	D
— LV — LV — LV	LV UNDERGROUND	D
— TC — TC — TC	TELECOMMUNICATIONS OVERHEAD	D
— TC — TC — TC	TELECOMMUNICATIONS UNDERGROUND	D
— ? — ? — ?	TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)	D
— NG — NG — NG	SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE	D
— NG — NG — NG	SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE	D
— NG — NG — NG	GTC - GAS - LOW PRESSURE	D
— SD — SD — SD	SURFACE WATER DRAINAGE SEWER UNDERGROUND	D
— CD — CD — CD	COMBINED DRAINAGE SEWER UNDERGROUND	D
— FD — FD — FD	FOUL DRAINAGE SEWER UNDERGROUND	D
— WA — WA — WA	WATER MAIN PIPE ABOVEGROUND	D
— WA — WA — WA	WATER MAIN PIPE ABANDONED	D

LEGEND SERVICES		
	HV OVERHEAD	D
	LV OVERHEAD	D
	HV UNDERGROUND	D
	LV UNDERGROUND	D
	TELECOMMUNICATIONS OVERHEAD	D
	TELECOMMUNICATIONS UNDERGROUND	D
	TELENT - [NATIONAL ROADS TELECOMMUNICATIONS SERVICES]	D
	SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE	D
	SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE	D

	GTC - GAS - LOW PRESSURE	D
	CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD	D
	SURFACE WATER DRAINAGE SEWER UNDERGROUND	D
	COMBINED DRAINAGE SEWER UNDERGROUND	D
	FOUL DRAINAGE SEWER UNDERGROUND	D
	SURFACE WATER DRAINAGE GULLY	D
	SURFACE WATER DRAINAGE MANHOLE	D
	WATER MAIN PIPE ABOVEGROUND	D
	WATER MAIN PIPE ABANDONED	D

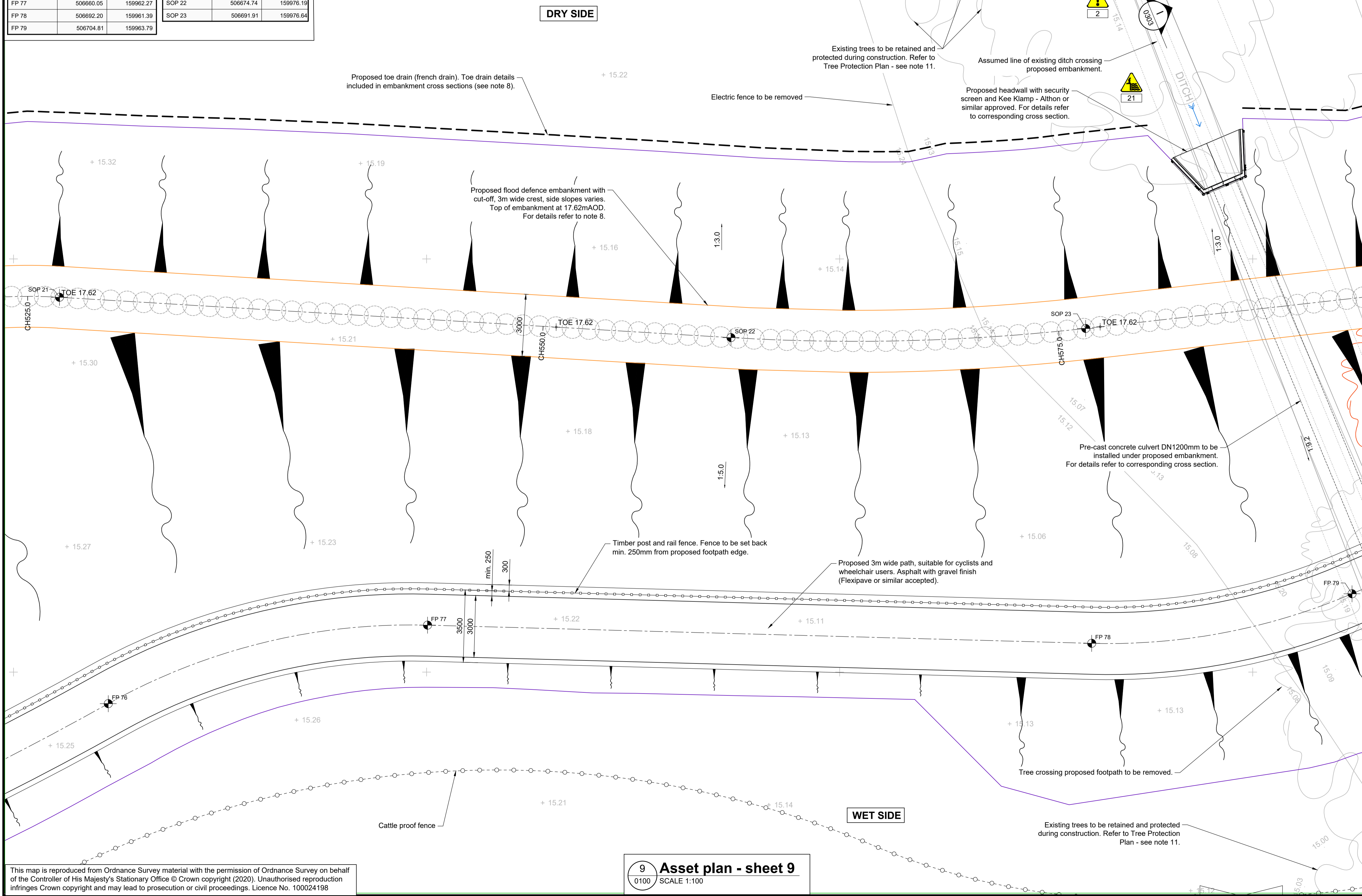
SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION		
IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RISKS. TO BE READ IN CONJUNCTION WITH THE HAZARD ELIMINATION AND RISK REDUCTION REGISTER (HERRR) ENVIMSE00194-JAC-ZZ-00-RA-C-0001.		
CONSTRUCTION		
2		Existing land drains
11		UXO
21		Works near river bank
28		Interaction with public

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

SETTING OUT POINT 3m WIDE FOOTPATH			SETTING OUT POINT PROPOSED STRUCTURE		
REF.	EASTING (m)	NORTHING (m)	REF.	EASTING (m)	NORTHING (m)
FP 76	506644.59	159958.47	SOP 21	506642.23	159978.14
FP 77	506660.05	159962.27	SOP 22	506674.74	159976.19
FP 78	506682.20	159961.39	SOP 23	506691.91	159976.64
FP 79	506704.81	159963.79			

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 - For further design details, refer to asset plan drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0200 to 0224.
 - For cross section details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0300 to 0305
 - For longitudinal profile, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0310 to 0314
 - For typical details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0800 to 0801.
 - For landscape information, refer to landscape plans: ENVIMSE00194-JAC-ZZ-3D0-DR-L-0016 to 0018
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LEGEND	
	SEEPAGE CUT-OFF (DEEP SOIL MIXING)
	CREST OF EMBANKMENT
	TOE OF EMBANKMENT
	POST AND RAIL FENCING
	STOCK PROOF FENCE
	GATE (TYPE UNSPECIFIED)
	TOE
	EXISTING LEVELS
	WATERCOURSE FLOW DIRECTION ARROW SEE TREE PROTECTION PLAN - NOTE 11
	EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
	TOE DRAIN (FRENCH DRAIN)
	PROPOSED POND

5 4 3 2 1 0 2 4 6
SCALE 1:100 (m)

Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF

Document Control

Jacobs.

Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
**Linear Defences
Asset Plan
Sheet 9**



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Parent Model ENVIMSE00194-JAC-ZZ-3E0-DR-C-0208.dwg	
Security Classification Official	Scale AS SHOWN
Originator J. GORAL	Checker J. ALVAREZ GARCIA
Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment	Status S3
Information Container ENVIMSE00194-JAC-ZZ-3E0-DR-C-0208	Revision P01

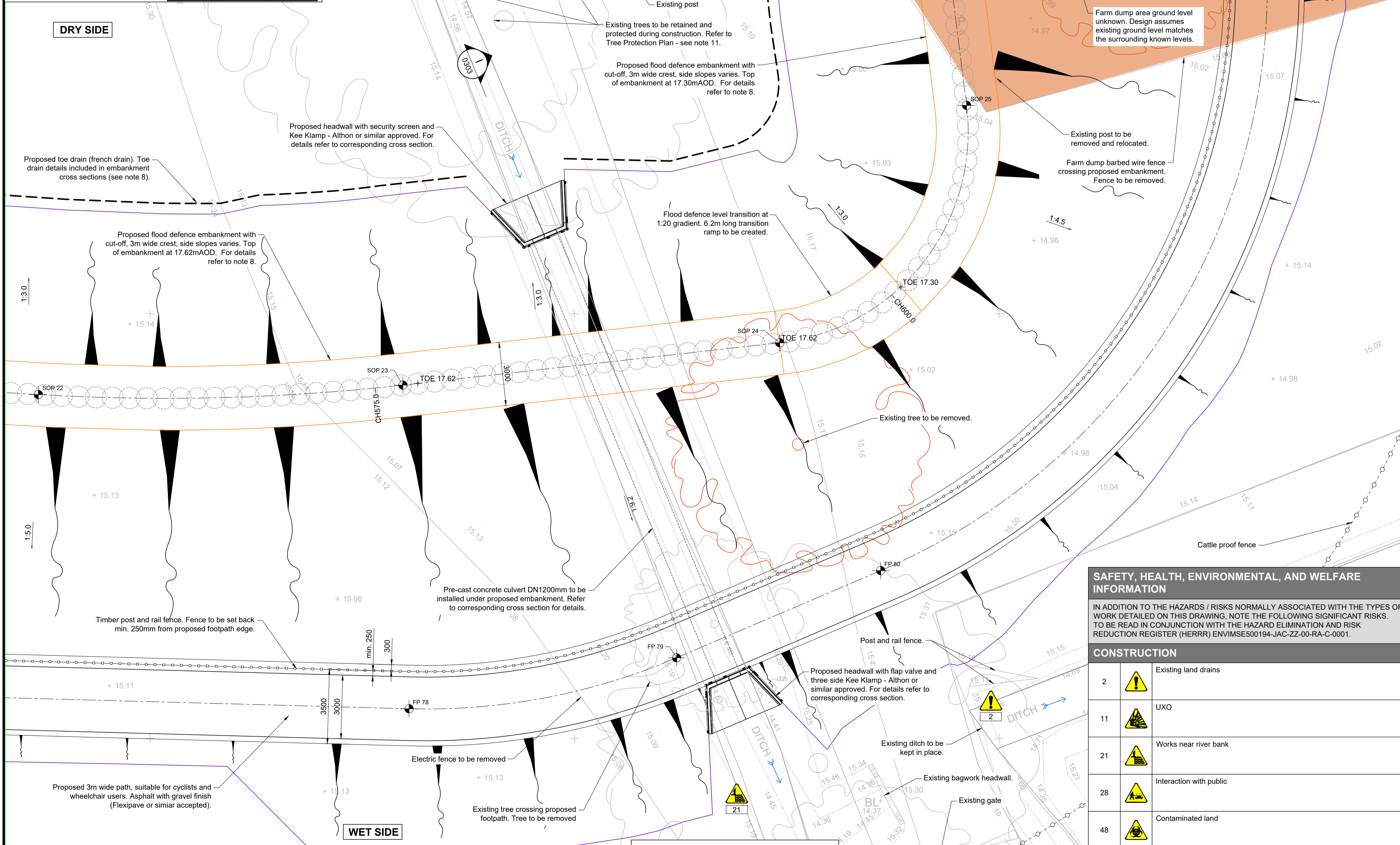
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LEGEND SERVICES

—HV— HV	HV OVERHEAD	D
—LV— LV	LV OVERHEAD	D
—HV— HV	HV UNDERGROUND	D
—LV— LV	LV UNDERGROUND	D
—TC— TC	TELECOMMUNICATIONS OVERHEAD	D
—TC— TC	TELECOMMUNICATIONS UNDERGROUND	D
—??— ??	TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)	D
—NG— NG	SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE	D
—NG— NG	SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE	D
—GTC— GTC	GTC - GAS - LOW PRESSURE	D
—??— ??	CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD	D
—SD— SD	SURFACE WATER DRAINAGE SEWER UNDERGROUND	D
—CD— CD	COMBINED DRAINAGE SEWER UNDERGROUND	D
—FD— FD	FOUL DRAINAGE SEWER UNDERGROUND	D
□	SURFACE WATER DRAINAGE GULLY	D
●	SURFACE WATER DRAINAGE MANHOLE	D
—WA— WA	WATER MAIN PIPE ABOVEGROUND	D
—WA— WA	WATER MAIN PIPE ABANDONED	D

SETTING OUT POINT 3m WIDE FOOTPATH			SETTING OUT POINT PROPOSED STRUCTURE		
REF.	EASTING (m)	NORTHING (m)	REF.	EASTING (m)	NORTHING (m)
FP 78	506692.20	159961.39	SOP 22	506674.74	159976.19
FP 79	506704.81	159963.79	SOP 23	506691.91	159976.64
FP 80	506714.42	159967.90	SOP 24	506709.66	159978.63
FP 81	506729.46	160008.93	SOP 25	506718.47	159989.82
			SOP 26	506716.80	160003.07

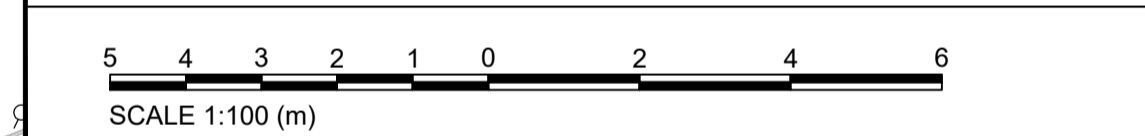
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 - For cross section details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0300 to 0305
 - For longitudinal profile, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0310 to 0314
 - For typical details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0800 to 0801.
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 - Hardwood and softwood timbers should be FSC certified and protected with EA procedures. A bio base liquid should be used to protect the new timbers.

LEGEND

○	SEEPAGE CUT-OFF (DEEP SOIL MIXING)
—	CREST OF EMBANKMENT
—	TOE OF EMBANKMENT
—	POST AND RAIL FENCING
—	STOCK PROOF FENCE
+	GATE (TYPE UNSPECIFIED)
+	TOP OF EMBANKMENT
16.11	EXISTING LEVELS
→	WATERCOURSE FLOW DIRECTION ARROW
●	EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
---	TOE DRAIN (FRENCH DRAIN)
—	PROPOSED POND
■	FARM DUMP AREA



P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver



Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
**Linear Defences
Asset Plan
Sheet 10**

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Parent Model ENVIMSE00194-JAC-ZZ-3E0-DR-C-0209.dwg			
Security Classification Official	Scale AS SHOWN		
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment	Status S3	Revision P01	Information Container ENVIMSE00194-JAC-ZZ-3E0-DR-C-0209

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

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CONSTRUCTION

2	⚠	Existing land drains
11	⚠	UXO
21	⚠	Works near river bank
28	⚠	Interaction with public
48	⚠	Contaminated land

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

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CONSTRUCTION

2		Existing land drains
11		UXO
28		Interaction with public
48		Contaminated land

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

SETTING OUT POINT PROPOSED STRUCTURE

REF.	EASTING (m)	NORTHING (m)
SOP 27	506711.59	160024.70
SOP 28	506707.99	160034.63
SOP 29	506704.99	160044.46

SETTING OUT POINT 3m WIDE FOOTPATH

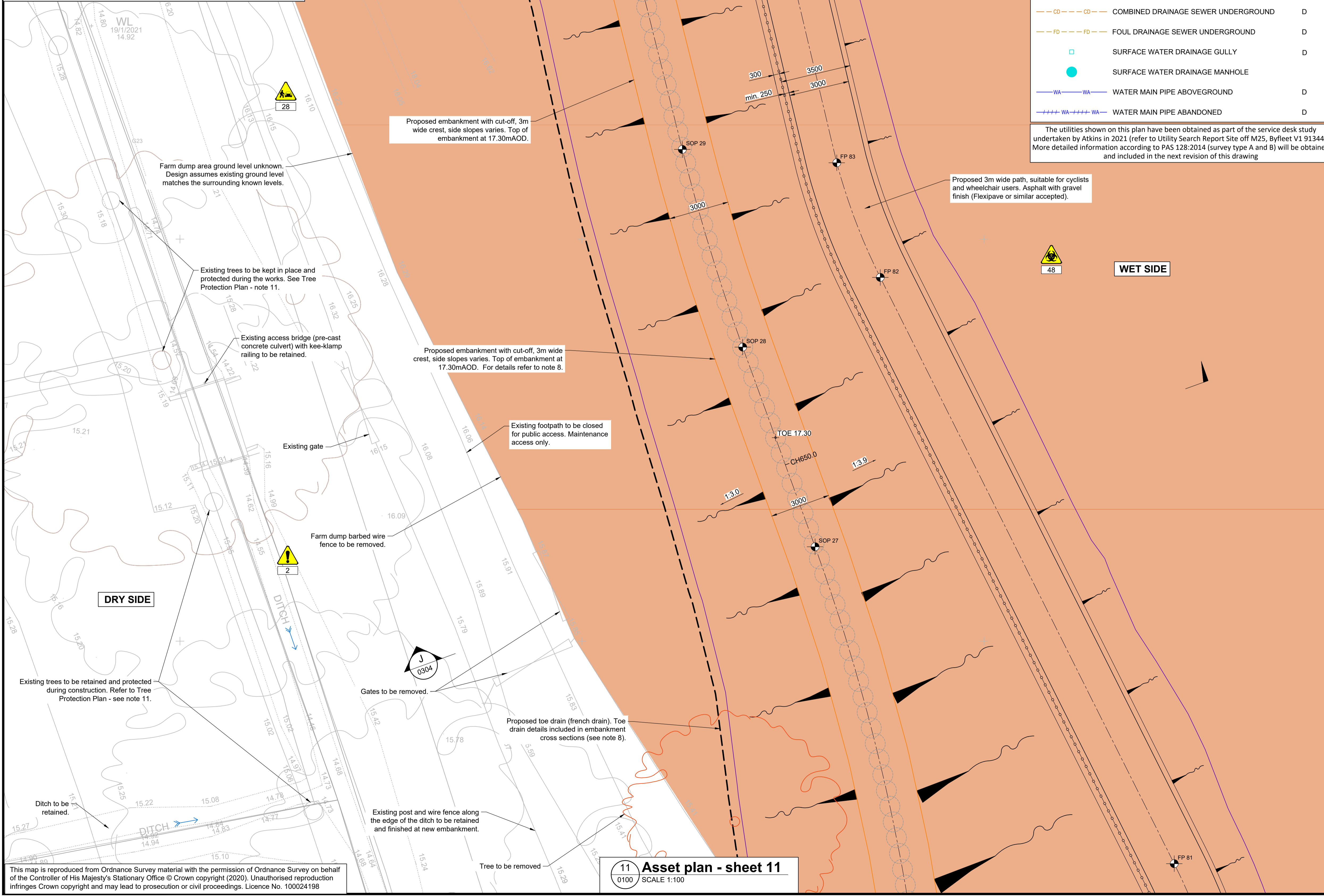
REF.	EASTING (m)	NORTHING (m)
FP 81	506729.46	160008.93
FP 82	506714.84	160038.09
FP 83	506712.67	160043.80

LEGEND SERVICES

	HV OVERHEAD	D
	LV OVERHEAD	D
	HV UNDERGROUND	D
	LV UNDERGROUND	D
	TELECOMMUNICATIONS OVERHEAD	D
	TELECOMMUNICATIONS UNDERGROUND	D
	TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)	D
	SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE	D
	SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE	D
	GTC - GAS - LOW PRESSURE	D
	CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD	D
	SURFACE WATER DRAINAGE SEWER UNDERGROUND	D
	COMBINED DRAINAGE SEWER UNDERGROUND	D
	FOUL DRAINAGE SEWER UNDERGROUND	D
	SURFACE WATER DRAINAGE GULLY	D
	SURFACE WATER DRAINAGE MANHOLE	D
	WATER MAIN PIPE ABOVEGROUND	D
	WATER MAIN PIPE ABANDONED	D

General Notes

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- For further design details, refer to asset plan drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0200 to 0224.
- For cross section details, refer to drawings: ENVIMSE00194-JAC-DE-3E0-DR-C-300 to 305. For longitudinal profile, refer to drawings: ENVIMSE00194-JAC-DE-3E0-DR-C-0310 to 0314.
- For typical details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0800 to 0801.
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LEGEND

	SEEPAGE CUT-OFF (DEEP SOIL MIXING)
	CREST OF EMBANKMENT
	TOE OF EMBANKMENT
	POST AND RAIL FENCING
	STOCK PROOF FENCE
	GATE (TYPE UNSPECIFIED)
	TOE
	16.11 EXISTING LEVELS
	WATERCOURSE FLOW DIRECTION ARROW SEE TREE PROTECTION PLAN - NOTE 11
	EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
	TOE DRAIN (FRENCH DRAIN)
	FARM DUMP AREA

5 4 3 2 1 0 2 4 6
SCALE 1:100 (m)

P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
Document Control							

Jacobs.

Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
**Linear Defences
Asset Plan
Sheet 11**

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Parent Model
ENVIMSE00194-JAC-ZZ-3E0-DR-C-0210.dwg

Security Classification
Official

Scale
AS SHOWN

Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
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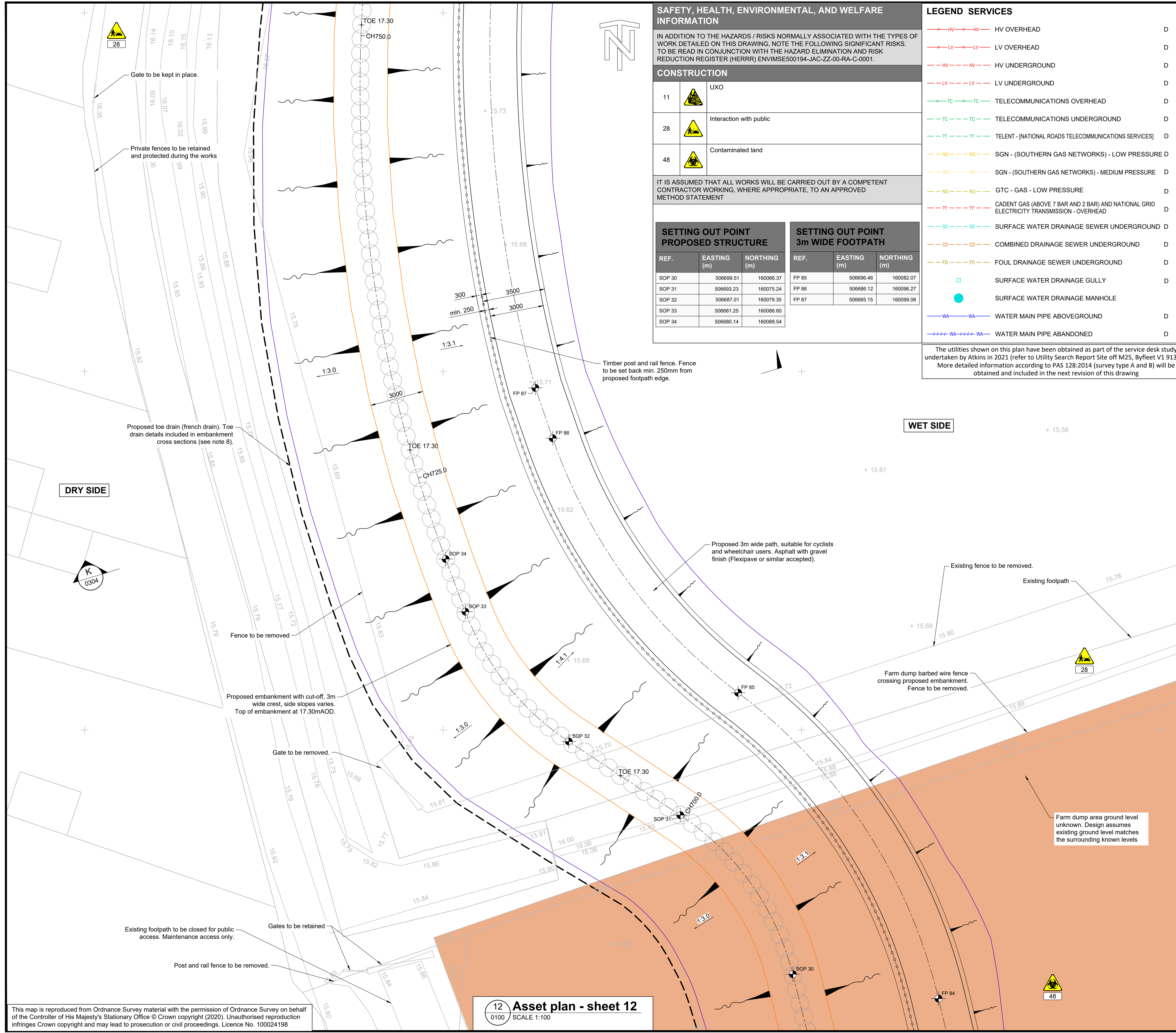
Suitability
S3 - Suitable for review and comment

Status S3	Revision P01
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Information Container
ENVIMSE00194-JAC-ZZ-3E0-DR-C-0210

A1 Sheet Size

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SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

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CONSTRUCTION	HAZARD	RISK
11		UXO
28		Interaction with public
48		Contaminated land

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

LEGEND SERVICES

	HV OVERHEAD	D
	LV OVERHEAD	D
	HV UNDERGROUND	D
	LV UNDERGROUND	D
	TELECOMMUNICATIONS OVERHEAD	D
	TELECOMMUNICATIONS UNDERGROUND	D
	TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)	D
	SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE	D
	SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE	D
	GTC - GAS - LOW PRESSURE	D
	CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD	D
	SURFACE WATER DRAINAGE SEWER UNDERGROUND	D
	COMBINED DRAINAGE SEWER UNDERGROUND	D
	FOUL DRAINAGE SEWER UNDERGROUND	D
	SURFACE WATER DRAINAGE GULLY	D
	SURFACE WATER DRAINAGE MANHOLE	D
	WATER MAIN PIPE ABOVEGROUND	D
	WATER MAIN PIPE ABANDONED	D

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SETTING OUT POINT PROPOSED STRUCTURE

REF.	EASTING (m)	NORTHING (m)
SOP 30	506699.51	160066.37
SOP 31	506693.23	160075.24
SOP 32	506687.01	160079.35
SOP 33	506681.25	160086.60
SOP 34	506680.14	160089.54

SETTING OUT POINT 3m WIDE FOOTPATH

REF.	EASTING (m)	NORTHING (m)
FP 85	506696.46	160082.07
FP 86	506686.12	160096.27
FP 87	506685.15	160099.08

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 - For cross section details, refer to drawings: ENVIMSE00194-JAC-DE-3E0-DR-C-0300 to 305. For longitudinal profile, refer to drawings: ENVIMSE00194-JAC-DE-3E0-DR-C-0310 to 314.
 - For typical details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0800 to 0801.
 - For landscape information, refer to landscape plans: ENVIMSE00194-JAC-ZZ-3D0-DR-L-0016 to 0018
 - For tree removal plans, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-EN-0009 and 0012. For tree protection plans, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-EN-0013 and 0016.
 - Hardwood and softwood timbers should be FSC certified and protected with EA procedures. A bio base liquid should be used to protect the new timbers.

LEGEND

	SEEPAGE CUT-OFF (DEEP SOIL MIXING)
	CREST OF EMBANKMENT
	TOE OF EMBANKMENT
	POST AND RAIL FENCING
	STOCK PROOF FENCE
	GATE (TYPE UNSPECIFIED)
	TOP OF EMBANKMENT
	EXISTING LEVELS
	WATERCOURSE FLOW DIRECTION ARROW
	EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
	TOE DRAIN (FRENCH DRAIN)
	FARM DUMP AREA

5 4 3 2 1 0 2 4 6
SCALE 1:100 (m)

Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF

Document Control

Jacobs.

Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
Linear Defences Asset Plan Sheet 12

Environment Agency

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Parent Model
ENVIMSE00194-JAC-ZZ-3E0-DR-C-0211.dwg

Security Classification
Official

Scale
AS SHOWN

Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
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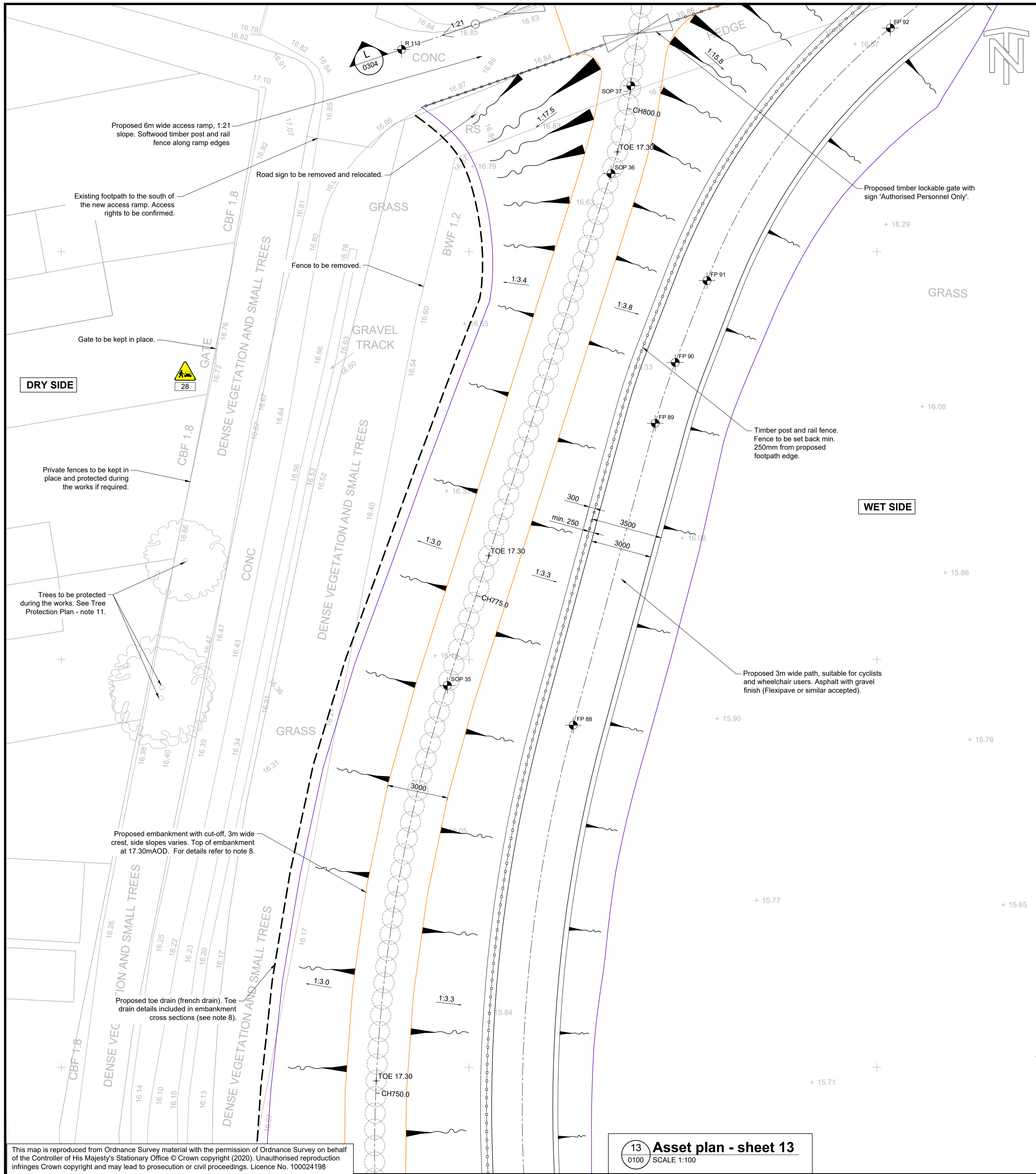
Suitability
S3 - Suitable for review and comment

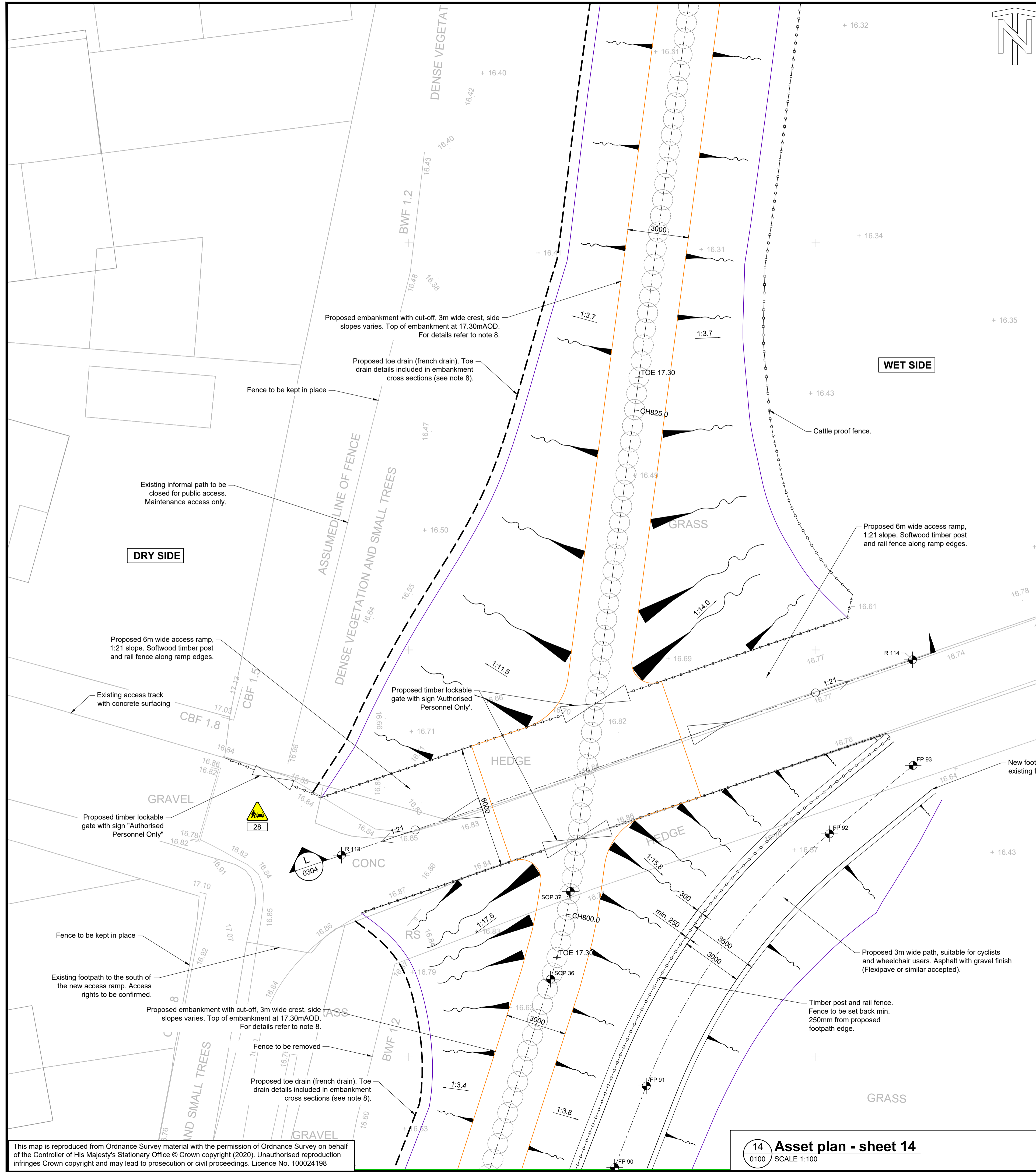
Status S3	Revision P01
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Information Contained
ENVIMSE00194-JAC-ZZ-3E0-DR-C-0211

A1 Sheet Size

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LEGEND SERVICES

	HV OVERHEAD	D
	LV OVERHEAD	D
	HV UNDERGROUND	D
	LV UNDERGROUND	D
	TELECOMMUNICATIONS OVERHEAD	D
	TELECOMMUNICATIONS UNDERGROUND	D
	TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)	D
	SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE	D
	SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE	D
	GTC - GAS - LOW PRESSURE	D
	CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD	D
	SURFACE WATER DRAINAGE SEWER UNDERGROUND	D
	COMBINED DRAINAGE SEWER UNDERGROUND	D
	FOUL DRAINAGE SEWER UNDERGROUND	D
	SURFACE WATER DRAINAGE GULLY	D
	SURFACE WATER DRAINAGE MANHOLE	D
	WATER MAIN PIPE ABOVEGROUND	D
	WATER MAIN PIPE ABANDONED	D

The utilities shown on this plan have been obtained as part of the service desk study undertaken by Atkins in 2021 (refer to Utility Search Report Site off M25, Byfleet V1 91344). More detailed information according to PAS 128:2014 (survey type A and B) will be obtained and included in the next revision of this drawing

- ### General Notes
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 - All co-ordinates are in metres relative to Ordnance Survey national grid.
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 - For cross section details, refer to drawings: ENVIMSE00194-JAC-DE-3E0-DR-C-0300 to 305. For longitudinal profile, refer to drawings: ENVIMSE00194-JAC-DE-3E0-DR-C-0310 to 314.
 - For typical details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0800 to 0801.
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 - For tree removal plans, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-EN-0009 and 0012. For tree protection plans, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-EN-0013 and 0016.
 - Hardwood and softwood timbers should be FSC certified and protected with EA procedures. A bio base liquid should be used to protect the new timbers.

LEGEND

	SEEPAGE CUT-OFF (DEEP SOIL MIXING)
	CREST OF EMBANKMENT
	TOE OF EMBANKMENT
	POST AND RAIL FENCING
	STOCK PROOF FENCE
	GATE (TYPE UNSPECIFIED)
	TOP OF EMBANKMENT
	EXISTING LEVELS
	WATERCOURSE FLOW DIRECTION ARROW
	EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
	TOE DRAIN (FRENCH DRAIN)

5 4 3 2 1 0 2 4 6
SCALE 1:100 (m)

PO1	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
Document Control							



Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
**Linear Defences
Asset Plan
Sheet 14**



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Parent Model	ENVIMSE00194-JAC-ZZ-3E0-DR-C-0213.dwg		
Security Classification	Official	Scale	AS SHOWN
Originator	J. GORAL	Checker	J. ALVAREZ GARCIA
Reviewer	J. ALVAREZ GARCIA	Approver	S. FOWLER
Suitability	S3 - Suitable for review and comment		
Information Contained	ENVIMSE00194-JAC-ZZ-3E0-DR-C-0213		

A1 Sheet Size

SETTING OUT POINT PROPOSED STRUCTURE

REF.	EASTING (m)	NORTHING (m)
SOP 36	506686.96	160163.82
SOP 37	506687.93	160168.13

SETTING OUT POINT PROPOSED RAMPS

REF.	EASTING (m)	NORTHING (m)
R 113	506676.69	160169.92
R 114	506704.75	160179.52

SETTING OUT POINT 3m WIDE FOOTPATH

REF.	EASTING (m)	NORTHING (m)
FP 90	506690.11	160154.57
FP 91	506691.67	160158.58
FP 92	506700.66	160170.96
FP 93	506704.78	160174.32

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

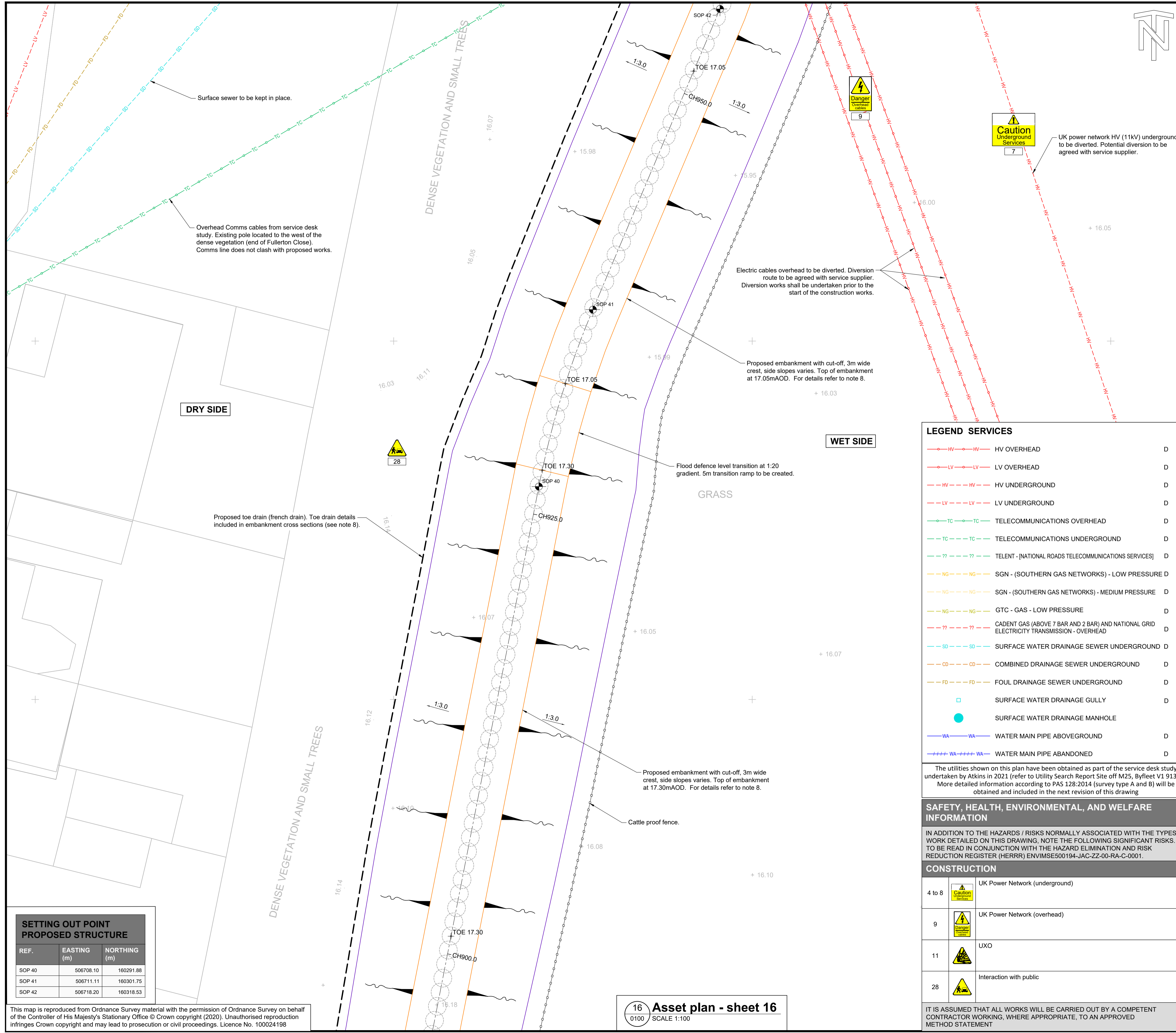
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CONSTRUCTION	HAZARD
11	UXO
28	Interaction with public

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

14 Asset plan - sheet 14
0100 SCALE 1:100

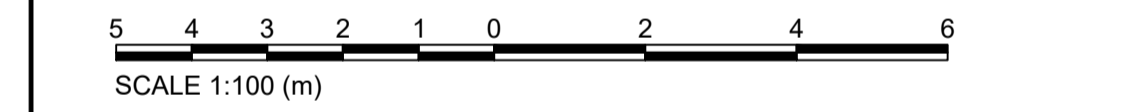
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 - Hardwood and softwood timbers should be FSC certified and protected with EA procedures. A bio base liquid should be used to protect the new timbers.

- ### LEGEND
- SEE PAGE CUT-OFF (DEEP SOIL MIXING)
 - CREST OF EMBANKMENT
 - TOE OF EMBANKMENT
 - POST AND RAIL FENCING
 - STOCK PROOF FENCE
 - GATE (TYPE UNSPECIFIED)
 - TOP OF EMBANKMENT
 - EXISTING LEVELS
 - WATERCOURSE FLOW DIRECTION ARROW
 - EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
 - TOE DRAIN (FRENCH DRAIN)

- ### LEGEND SERVICES
- HV OVERHEAD
 - LV OVERHEAD
 - HV UNDERGROUND
 - LV UNDERGROUND
 - TELECOMMUNICATIONS OVERHEAD
 - TELECOMMUNICATIONS UNDERGROUND
 - TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)
 - SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE
 - SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE
 - GTC - GAS - LOW PRESSURE
 - CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD
 - SURFACE WATER DRAINAGE SEWER UNDERGROUND
 - COMBINED DRAINAGE SEWER UNDERGROUND
 - FOUL DRAINAGE SEWER UNDERGROUND
 - SURFACE WATER DRAINAGE GULLY
 - SURFACE WATER DRAINAGE MANHOLE
 - WATER MAIN PIPE ABOVEGROUND
 - WATER MAIN PIPE ABANDONED



Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF

Document Control

Jacobs.

Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
Linear Defences Asset Plan Sheet 16

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Parent Model
ENVIMSE500194-JAC-ZZ-3E0-DR-C-0215.dwg

Security Classification
Official

Scale
AS SHOWN

Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
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Subtablety
S3 - Suitable for review and comment

Information Container
ENVIMSE500194-JAC-ZZ-3E0-DR-C-0215

Status
S3

Revision
P01

A1 Sheet Size

SETTING OUT POINT PROPOSED STRUCTURE

REF.	EASTING (m)	NORTHING (m)
SOP 40	506708.10	160291.88
SOP 41	506711.11	160301.75
SOP 42	506718.20	160316.53

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16 Asset plan - sheet 16
SCALE 1:100

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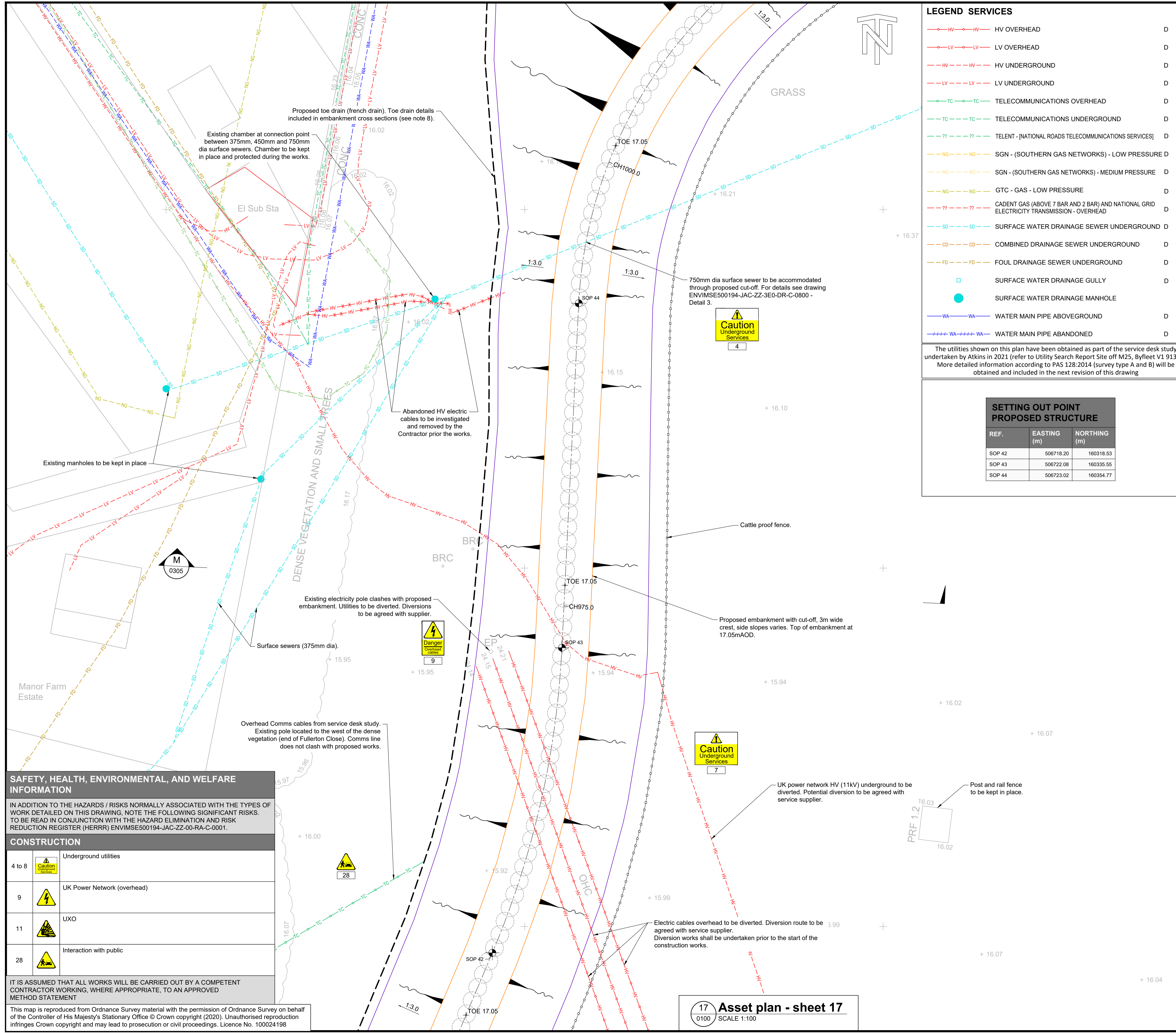
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CONSTRUCTION

4 to 8		UK Power Network (underground)
9		UK Power Network (overhead)
11		UXO
28		Interaction with public

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT



LEGEND SERVICES

- HV OVERHEAD D
- LV OVERHEAD D
- - - - - HV UNDERGROUND D
- - - - - LV UNDERGROUND D
- TELECOMMUNICATIONS OVERHEAD D
- - - - - TELECOMMUNICATIONS UNDERGROUND D
- TELNET - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES) D
- SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE D
- SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE D
- GTC - GAS - LOW PRESSURE D
- - - - - CADNET GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD D
- SURFACE WATER DRAINAGE SEWER UNDERGROUND D
- COMBINED DRAINAGE SEWER UNDERGROUND D
- FOUL DRAINAGE SEWER UNDERGROUND D
- SURFACE WATER DRAINAGE GULLY D
- SURFACE WATER DRAINAGE MANHOLE D
- WATER MAIN PIPE ABOVEGROUND D
- - - - - WATER MAIN PIPE ABANDONED D

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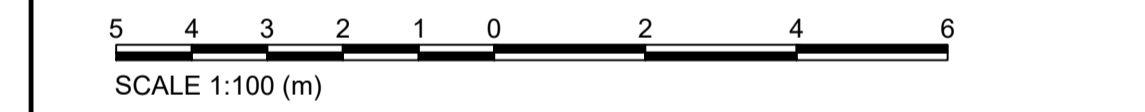
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SETTING OUT POINT PROPOSED STRUCTURE

REF.	EASTING (m)	NORTHING (m)
SOP 42	506718.20	160318.53
SOP 43	506722.08	160335.55
SOP 44	506723.02	160354.77

LEGEND

- SEEPAGE CUT-OFF (DEEP SOIL MIXING)
- CREST OF EMBANKMENT
- TOE OF EMBANKMENT
- POST AND RAIL FENCING
- - - - - STOCK PROOF FENCE
- ⋈ GATE (TYPE UNSPECIFIED)
- + TOE
- 16.11 EXISTING LEVELS
- WATERCOURSE FLOW DIRECTION ARROW
- EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
- - - - - TOE DRAIN (FRENCH DRAIN)



P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver

Document Control



Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
Linear Defences Asset Plan Sheet 17



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Parent Model
ENVIMSE500194-JAC-ZZ-3E0-DR-C-0216.dwg

Security Classification Official	Scale AS SHOWN
Originator J. GORAL	Checker J. ALVAREZ GARCIA
Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment	Status S3
Information Contained ENVIMSE500194-JAC-ZZ-3E0-DR-C-0216	Revision P01

A1 Sheet Size

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

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CONSTRUCTION

4 to 8		Underground utilities
9		UK Power Network (overhead)
11		UXO
28		Interaction with public

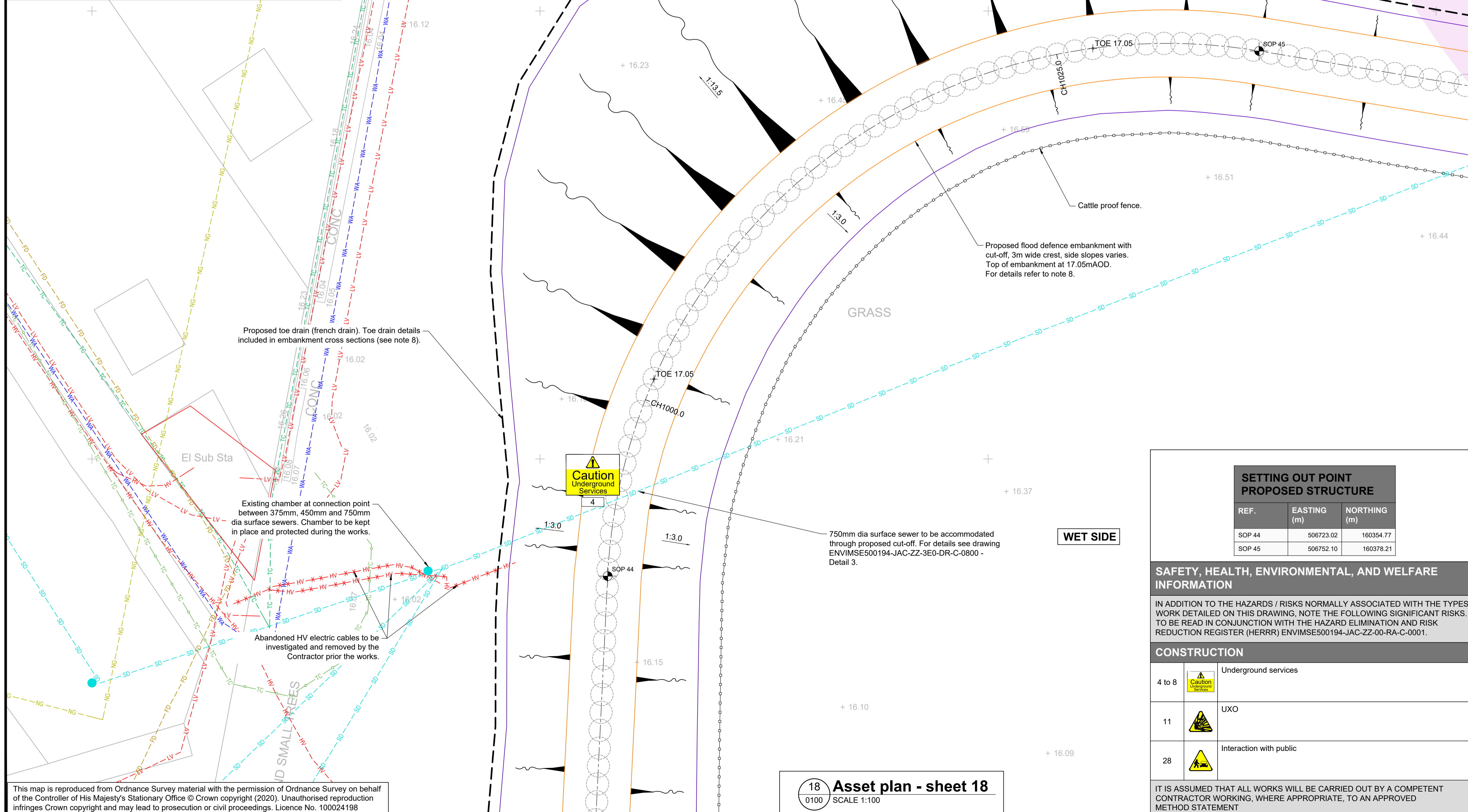
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LEGEND SERVICES

- HV OVERHEAD D
- LV OVERHEAD D
- HV UNDERGROUND D
- LV UNDERGROUND D
- TELECOMMUNICATIONS OVERHEAD D
- TELECOMMUNICATIONS UNDERGROUND D
- TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES) D
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- SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE D
- GTC - GAS - LOW PRESSURE D
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- SURFACE WATER DRAINAGE SEWER UNDERGROUND D
- COMBINED DRAINAGE SEWER UNDERGROUND D
- FOUL DRAINAGE SEWER UNDERGROUND D
- SURFACE WATER DRAINAGE GULLY D
- SURFACE WATER DRAINAGE MANHOLE D
- WATER MAIN PIPE ABOVEGROUND D
- WATER MAIN PIPE ABANDONED D

The utilities shown on this plan have been obtained as part of the service desk study undertaken by Atkins in 2021 (refer to Utility Search Report Site off M25, Byfleet V1 91344). More detailed information according to PAS 128:2014 (survey type A and B) will be obtained and included in the next revision of this drawing

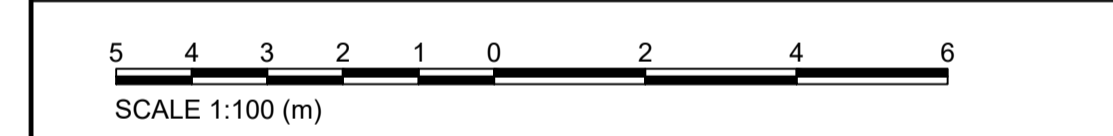


General Notes

1. All dimensions are in millimetres unless noted otherwise.
2. All levels are in metres relative to Ordnance Datum Newlyn (m AOD) unless noted otherwise.
3. All co-ordinates are in metres relative to Ordnance Survey national grid.
4. Do not scale from this drawing. All dimensions must be checked / verified on site.
5. For site and drawing structure details, refer to site location plan drawing: ENVIMSE00194-JAC-ZZ-00-DR-C-0100
6. For General Arrangement details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0100 to 0108.
7. For further design details, refer to asset plan drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0200 to 0224.
8. For cross section details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0300 to 0305
For longitudinal profile, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0310 to 0314
For typical details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0800 to 0801.
9. For landscape information, refer to landscape plans: ENVIMSE00194-JAC-ZZ-3D0-DR-L-0016 to 0018
10. For tree removal plans, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-EN-0009 and 0012.
For tree protection plans, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-EN-0013 and 0016.
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12. Hardwood and softwood timbers should be FSC certified and protected with EA procedures. A bio base liquid should be used to protect the new timbers.

LEGEND

- SEEPAGE CUT-OFF (DEEP SOIL MIXING)
- CREST OF EMBANKMENT
- TOE OF EMBANKMENT
- POST AND RAIL FENCING
- STOCK PROOF FENCE
- GATE (TYPE UNSPECIFIED)
- TOE
- EXISTING LEVELS
- WATERCOURSE FLOW DIRECTION ARROW
- EXISTING TREE TO BE REMOVED
SEE TREE PROTECTION PLAN - NOTE 11
- TOE DRAIN (FRENCH DRAIN)
- IDENTIFIED AREAS WITH POTENTIAL FOR UXO PRESENCE



PO1	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
Document Control							

Jacobs.

Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
**Linear Defences
Asset Plan
Sheet 18**



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Parent Model ENVIMSE00194-JAC-ZZ-3E0-DR-C-0217.dwg			
Security Classification Official		Scale AS SHOWN	
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment		Status S3	Revision P01
Information Contained ENVIMSE00194-JAC-ZZ-3E0-DR-C-0217			
A1 Sheet Size			

**SETTING OUT POINT
PROPOSED STRUCTURE**

REF.	EASTING (m)	NORTHING (m)
SOP 44	506723.02	160354.77
SOP 45	506752.10	160378.21

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RISKS. TO BE READ IN CONJUNCTION WITH THE HAZARD ELIMINATION AND RISK REDUCTION REGISTER (HERRR) ENVIMSE00194-JAC-ZZ-00-RA-C-0001.

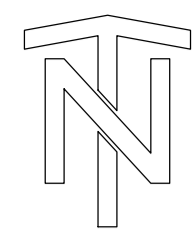
CONSTRUCTION

4 to 8		Underground services
11		UXO
28		Interaction with public

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

18 Asset plan - sheet 18
SCALE 1:100

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SETTING OUT POINT PROPOSED STRUCTURE

REF.	EASTING (m)	NORTHING (m)
SOP 45	506752.10	160378.21
SOP 46	506793.02	160371.40

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

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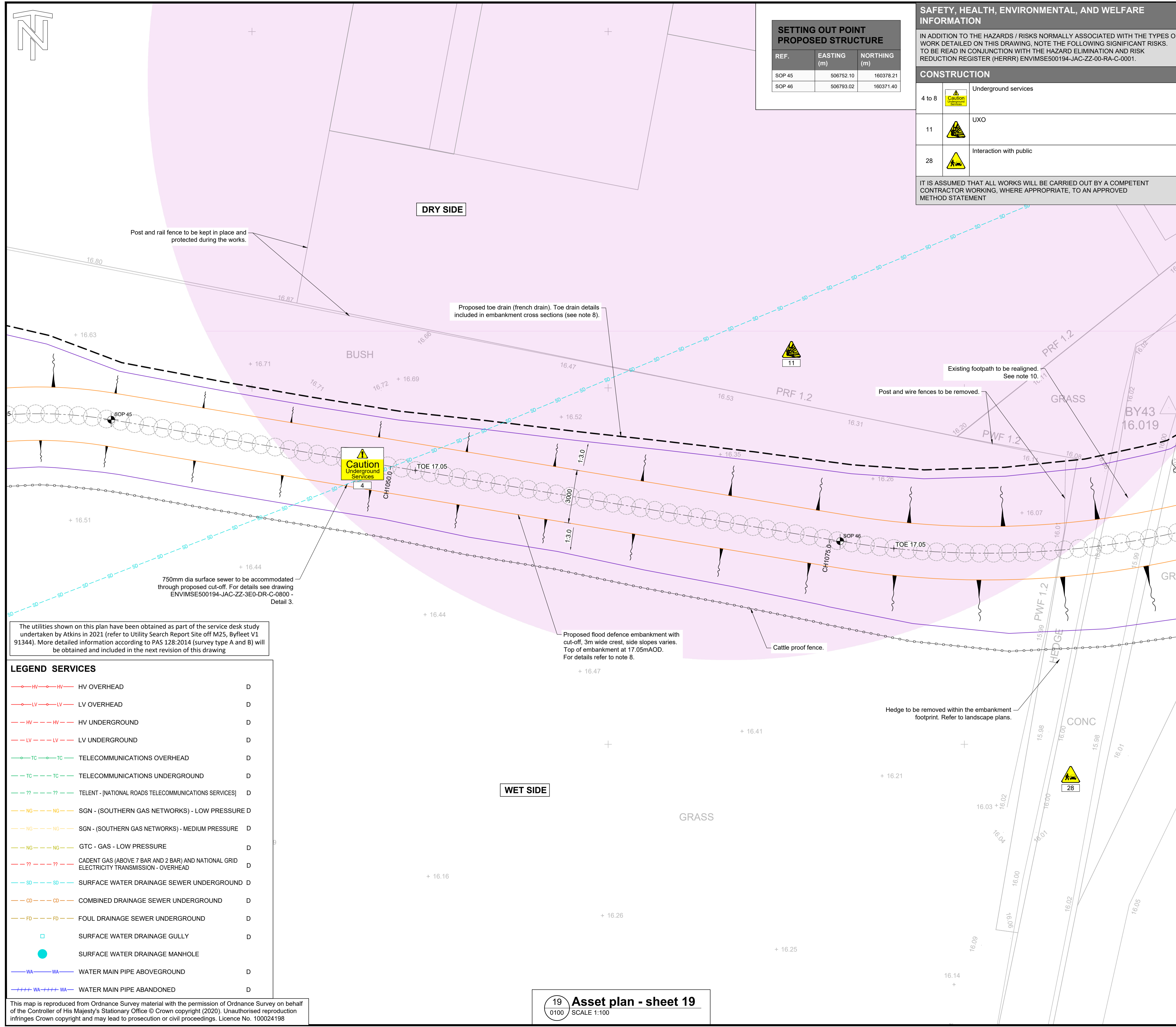
CONSTRUCTION

4 to 8		Underground services
11		UXO
28		Interaction with public

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

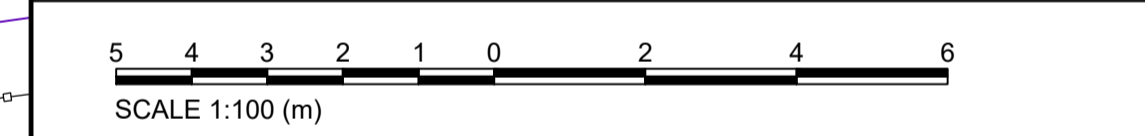
General Notes

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- For longitudinal profile, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0310 to 0314
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- For tree protection plans, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-EN-0013 and 0016.
- Hardwood and softwood timbers should be FSC certified and protected with EA procedures. A bio base liquid should be used to protect the new timbers.



LEGEND

- SEEPAGE CUT-OFF (DEEP SOIL MIXING)
- CREST OF EMBANKMENT
- TOE OF EMBANKMENT
- POST AND RAIL FENCING
- STOCK PROOF FENCE
- GATE (TYPE UNSPECIFIED)
- TOE
- TOP OF EMBANKMENT
- EXISTING LEVELS
- WATERCOURSE FLOW DIRECTION ARROW
- EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
- TOE DRAIN (FRENCH DRAIN)
- IDENTIFIED AREAS WITH POTENTIAL FOR UXO PRESENCE



LEGEND SERVICES

	HV OVERHEAD	D
	LV OVERHEAD	D
	HV UNDERGROUND	D
	LV UNDERGROUND	D
	TELECOMMUNICATIONS OVERHEAD	D
	TELECOMMUNICATIONS UNDERGROUND	D
	TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)	D
	SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE	D
	SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE	D
	GTC - GAS - LOW PRESSURE	D
	CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD	D
	SURFACE WATER DRAINAGE SEWER UNDERGROUND	D
	COMBINED DRAINAGE SEWER UNDERGROUND	D
	FOUL DRAINAGE SEWER UNDERGROUND	D
	SURFACE WATER DRAINAGE GULLY	D
	SURFACE WATER DRAINAGE MANHOLE	D
	WATER MAIN PIPE ABOVEGROUND	D
	WATER MAIN PIPE ABANDONED	D

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Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF

Document Control

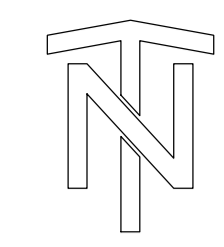
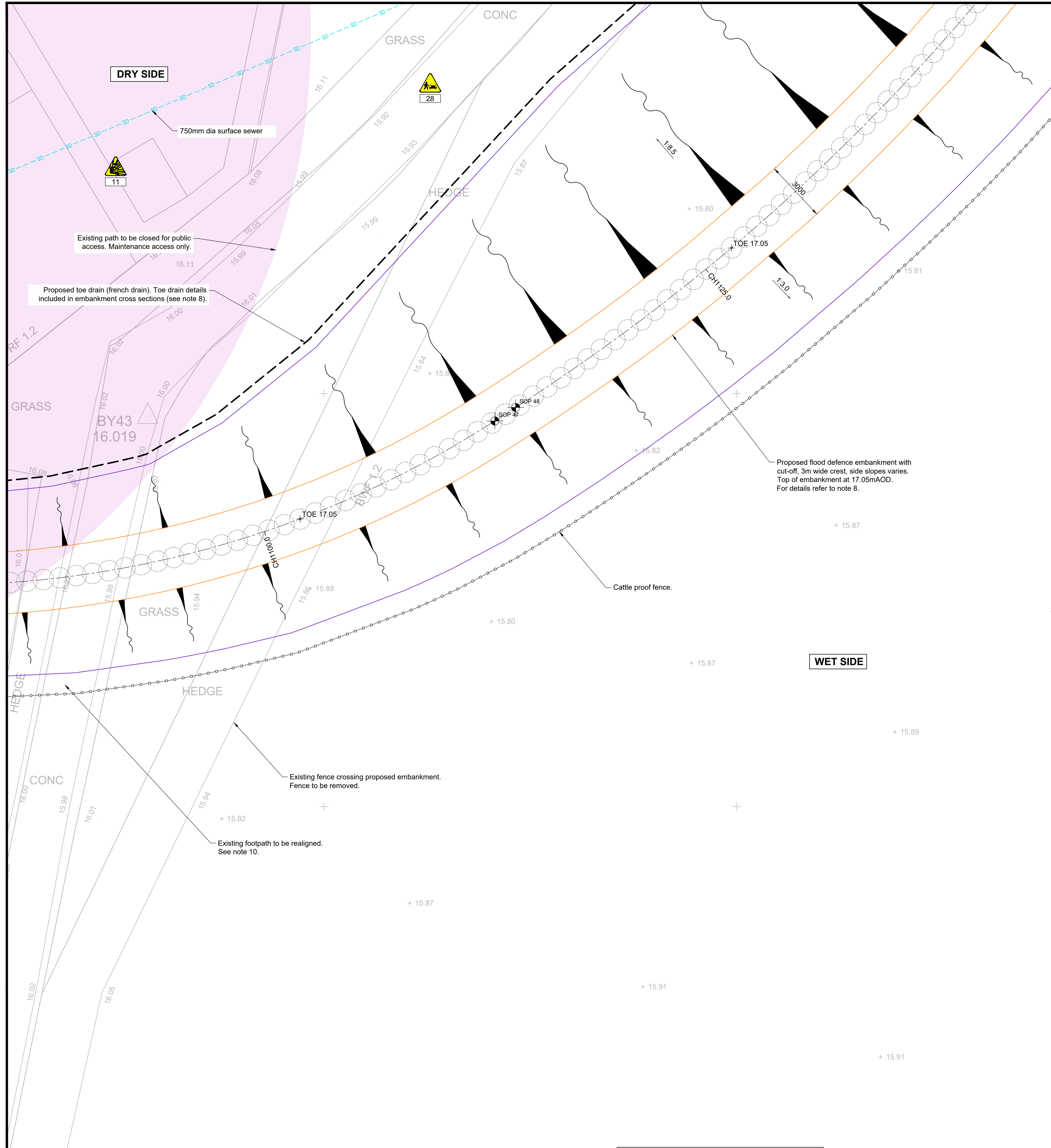


Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
Linear Defences Asset Plan Sheet 19



Parent Model ENVIMSE00194-JAC-ZZ-3E0-DR-C-0218.dwg		Scale AS SHOWN	
Security Classification Official		Status S3	
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment		Status S3	Revision P01
Information Contained ENVIMSE00194-JAC-ZZ-3E0-DR-C-0218			



- ### General Notes
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 - For further design details, refer to asset plan drawings: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0200 to 0224.
 - For cross section details, refer to drawings: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0300 to 0305
For longitudinal profile, refer to drawings: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0310 to 0314
For typical details, refer to drawings: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0800 to 0801.
 - For landscape information, refer to landscape plans: ENVIMSE500194-JAC-ZZ-3D0-DR-L-0016 to 0018
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For tree protection plans, refer to drawings: ENVIMSE500194-JAC-ZZ-3E0-DR-EN-0013 and 0016.
 - Hardwood and softwood timbers should be FSC certified and protected with EA procedures. A bio base liquid should be used to protect the new timbers.

SETTING OUT POINT PROPOSED STRUCTURE		
REF.	EASTING (m)	NORTHING (m)
SOP 47	506828.28	160378.67
SOP 48	506829.29	160379.32

- ### LEGEND SERVICES
- HV OVERHEAD
 - LV OVERHEAD
 - HV UNDERGROUND
 - LV UNDERGROUND
 - TELECOMMUNICATIONS OVERHEAD
 - TELECOMMUNICATIONS UNDERGROUND
 - TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES)
 - SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE
 - SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE
 - GTC - GAS - LOW PRESSURE
 - CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD
 - SURFACE WATER DRAINAGE SEWER UNDERGROUND
 - COMBINED DRAINAGE SEWER UNDERGROUND
 - FOUL DRAINAGE SEWER UNDERGROUND
 - SURFACE WATER DRAINAGE GULLY
 - SURFACE WATER DRAINAGE MANHOLE
 - WATER MAIN PIPE ABOVEGROUND
 - WATER MAIN PIPE ABANDONED

- ### LEGEND
- SEEPAGE CUT-OFF (DEEP SOIL MIXING)
 - CREST OF EMBANKMENT
 - TOE OF EMBANKMENT
 - POST AND RAIL FENCING
 - STOCK PROOF FENCE
 - GATE (TYPE UNSPECIFIED)
 - TOE
 - EXISTING LEVELS
 - WATERCOURSE FLOW DIRECTION ARROW
 - EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
 - TOE DRAIN (FRENCH DRAIN)
 - IDENTIFIED AREAS WITH POTENTIAL FOR UXO PRESENCE

5	4	3	2	1	0	2	4	6
SCALE 1:100 (m)								

P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver

Jacobs.

Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
Linear Defences Asset Plan Sheet 20



Parent Model ENVIMSE500194-JAC-ZZ-3E0-DR-C-0219.dwg			
Security Classification Official		Scale AS SHOWN	
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment		Status S3	Revision P01
Information Container ENVIMSE500194-JAC-ZZ-3E0-DR-C-0219			

The utilities shown on this plan have been obtained as part of the service desk study undertaken by Atkins in 2021 (refer to Utility Search Report Site off M25, Byfleet V1 91344). More detailed information according to PAS 128:2014 (survey type A and B) will be obtained and included in the next revision of this drawing

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

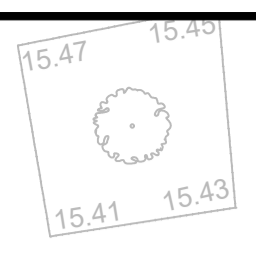
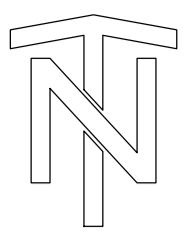
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CONSTRUCTION

11		UXO
28		Interaction with public

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LEGEND SERVICES

- HV OVERHEAD D
- LV OVERHEAD D
- HV UNDERGROUND D
- LV UNDERGROUND D
- TELECOMMUNICATIONS OVERHEAD D
- TELECOMMUNICATIONS UNDERGROUND D
- TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES) D
- SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE D
- SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE D
- GTC - GAS - LOW PRESSURE D
- CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD D
- SURFACE WATER DRAINAGE SEWER UNDERGROUND D
- COMBINED DRAINAGE SEWER UNDERGROUND D
- FOUL DRAINAGE SEWER UNDERGROUND D
- SURFACE WATER DRAINAGE GULLY D
- SURFACE WATER DRAINAGE MANHOLE D
- WATER MAIN PIPE ABOVEGROUND D
- WATER MAIN PIPE ABANDONED D

**SETTING OUT POINT
PROPOSED STRUCTURE**

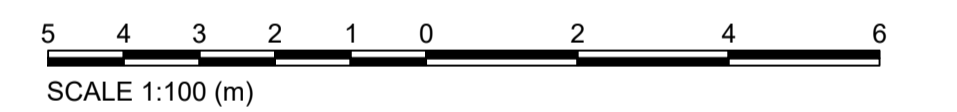
REF.	EASTING (m)	NORTHING (m)
SOP 51	506855.63	160473.90

General Notes

1. All dimensions are in millimetres unless noted otherwise.
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7. For further design details, refer to asset plan drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0200 to 0224.
8. For cross section details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0300 to 0305
9. For longitudinal profile, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0310 to 0314
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14. Hardwood and softwood timbers should be FSC certified and protected with EA procedures. A bio base liquid should be used to protect the new timbers.

LEGEND

- SEEPAGE CUT-OFF (DEEP SOIL MIXING)
- CREST OF EMBANKMENT
- TOE OF EMBANKMENT
- POST AND RAIL FENCING
- STOCK PROOF FENCE
- GATE (TYPE UNSPECIFIED)
- TOP OF EMBANKMENT
- EXISTING LEVELS
- WATERCOURSE FLOW DIRECTION ARROW
- EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
- TOE DRAIN (FRENCH DRAIN)



Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF



Sanway Byfleet Flood Alleviation Scheme - EA3-Design

**Linear Defences
Asset Plan
Sheet 22**



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Parent Model ENVIMSE00194-JAC-ZZ-3E0-DR-C-0221.dwg			
Security Classification Official	Scale AS SHOWN		
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment	Status S3	Revision P01	Information Container ENVIMSE00194-JAC-ZZ-3E0-DR-C-0221

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

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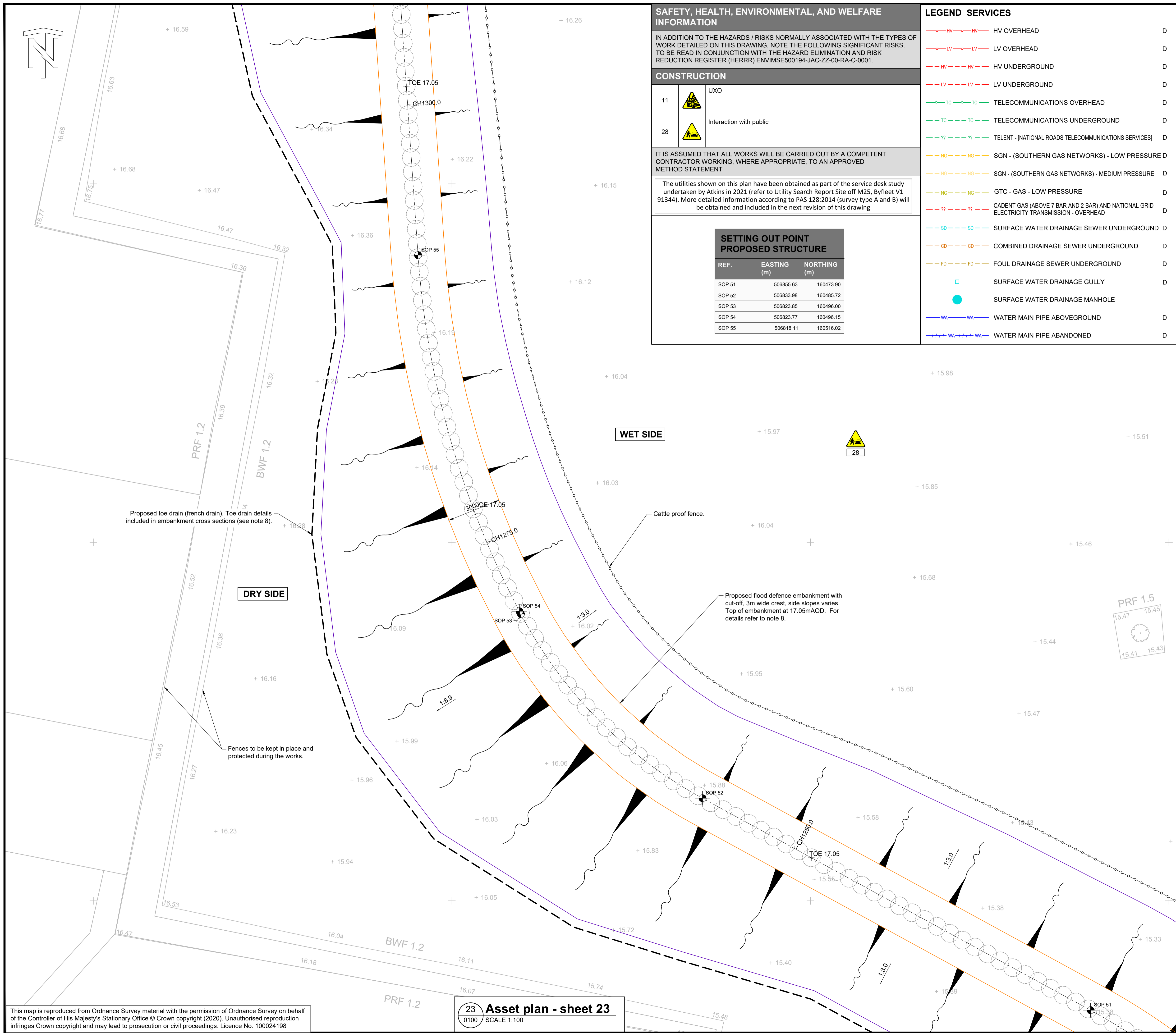
CONSTRUCTION

2		Existing land drains
11		UXO
21		Works near river banks
28		Interaction with public

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22 Asset plan - sheet 22
0100 SCALE 1:100



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CONSTRUCTION

11		UXO
28		Interaction with public

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SETTING OUT POINT PROPOSED STRUCTURE

REF.	EASTING (m)	NORTHING (m)
SOP 51	506855.63	160473.90
SOP 52	506833.98	160485.72
SOP 53	506823.85	160496.00
SOP 54	506823.77	160496.15
SOP 55	506818.11	160516.02

LEGEND SERVICES

- HV OVERHEAD D
- LV OVERHEAD D
- HV UNDERGROUND D
- LV UNDERGROUND D
- TELECOMMUNICATIONS OVERHEAD D
- TELECOMMUNICATIONS UNDERGROUND D
- TELENT - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES) D
- SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE D
- SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE D
- GTC - GAS - LOW PRESSURE D
- CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD D
- SURFACE WATER DRAINAGE SEWER UNDERGROUND D
- COMBINED DRAINAGE SEWER UNDERGROUND D
- FOUL DRAINAGE SEWER UNDERGROUND D
- SURFACE WATER DRAINAGE GULLY D
- SURFACE WATER DRAINAGE MANHOLE D
- WATER MAIN PIPE ABOVEGROUND D
- WATER MAIN PIPE ABANDONED D

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 - For longitudinal profile, refer to drawings: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0310 to 0314
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- TOE OF EMBANKMENT
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- EXISTING LEVELS
- WATERCOURSE FLOW DIRECTION ARROW
- EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
- TOE DRAIN (FRENCH DRAIN)
- PROPOSED POND

5 4 3 2 1 0 2 4 6
SCALE 1:100 (m)

Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF

Document Control



Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
Linear Defences Asset Plan Sheet 23

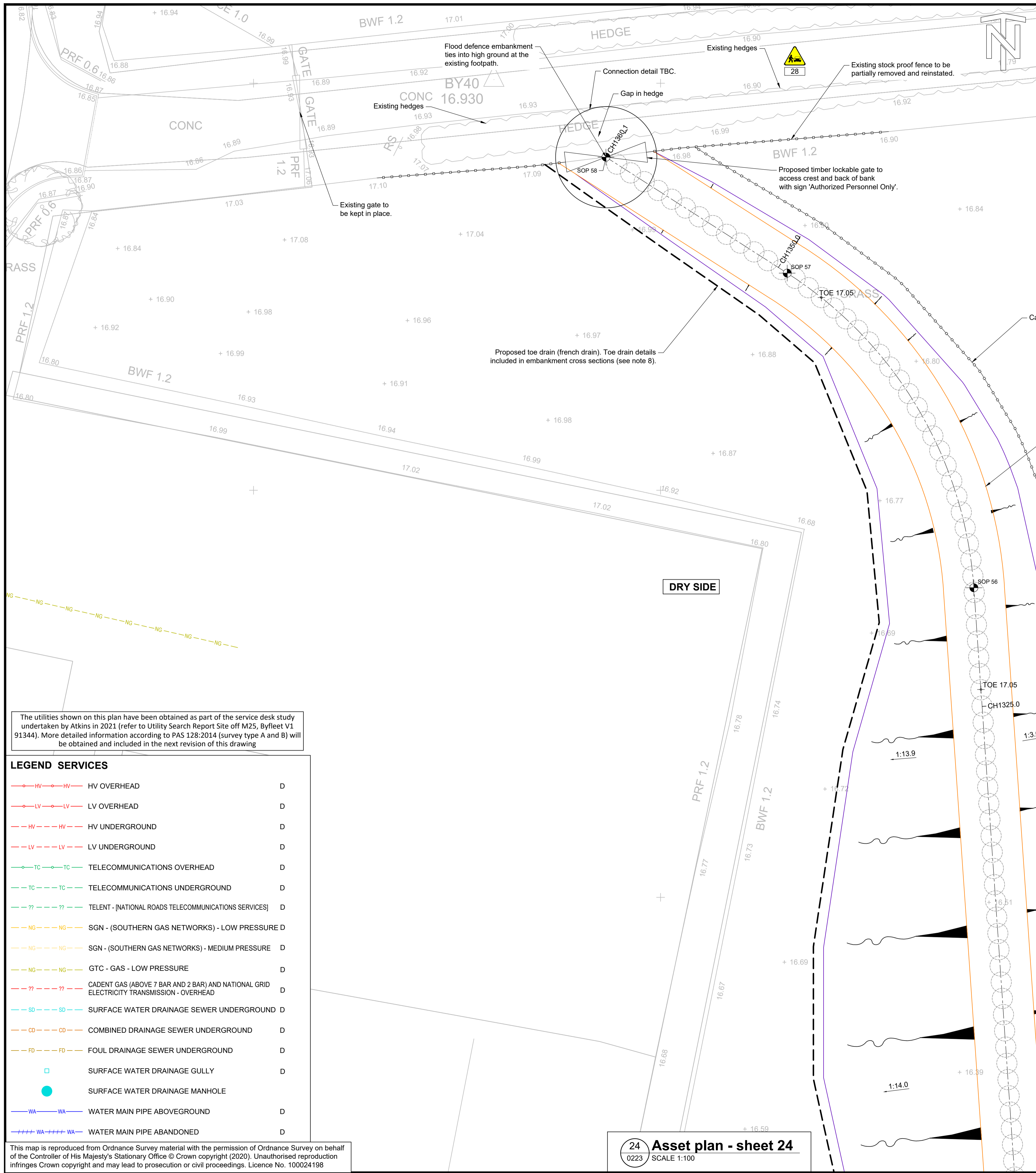


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Parent Model
ENVIMSE500194-JAC-ZZ-3E0-DR-C-0222.dwg

Security Classification Official	Scale AS SHOWN
Originator J. GORAL	Checker J. ALVAREZ GARCIA
Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment	Status S3
Information Container ENVIMSE500194-JAC-ZZ-3E0-DR-C-0222	Revision P01

A1 Sheet Size



SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RISKS. TO BE READ IN CONJUNCTION WITH THE HAZARD ELIMINATION AND RISK REDUCTION REGISTER (HERRR) ENVIMSE00194-JAC-ZZ-00-RA-C-0001.

CONSTRUCTION

11		UXO
28		Interaction with public

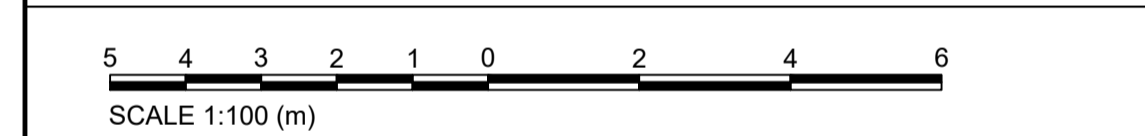
IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

SETTING OUT POINT PROPOSED STRUCTURE

REF.	EASTING (m)	NORTHING (m)
SOP 56	506815.39	160555.21
SOP 57	506806.22	160570.67
SOP 58	506797.32	160576.37

- General Notes**
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 - For site and drawing structure details, refer to site location plan drawing: ENVIMSE00194-JAC-ZZ-00-DR-C-0100
 - For General Arrangement details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0100 to 0108.
 - For further design details, refer to asset plan drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0200 to 0224.
 - For cross section details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0300 to 0305
 - For longitudinal profile, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0310 to 0314
 - For typical details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0800 to 0801.
 - For landscape information, refer to landscape plans: ENVIMSE00194-JAC-ZZ-3D0-DR-L-0016 to 0018
 - For tree removal plans, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-EN-0009 and 0012.
 - For tree protection plans, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-EN-0013 and 0016.
 - Hardwood and softwood timbers should be FSC certified and protected with EA procedures. A bio base liquid should be used to protect the new timbers.

- LEGEND**
- SEEPAGE CUT-OFF (DEEP SOIL MIXING)
 - CREST OF EMBANKMENT
 - TOE OF EMBANKMENT
 - POST AND RAIL FENCING
 - STOCK PROOF FENCE
 - GATE (TYPE UNSPECIFIED)
 - TOP OF EMBANKMENT
 - EXISTING LEVELS
 - WATERCOURSE FLOW DIRECTION ARROW
 - EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
 - TOE DRAIN (FRENCH DRAIN)



Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF

Document Control



Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
**Linear Defences
Asset Plan
Sheet 24**



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Parent Model
ENVIMSE00194-JAC-ZZ-3E0-DR-C-0223.dwg

Security Classification Official	Scale AS SHOWN		
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment	Status S3	Revision P01	Information Container ENVIMSE00194-JAC-ZZ-3E0-DR-C-0223

A1 Sheet Size

The utilities shown on this plan have been obtained as part of the service desk study undertaken by Atkins in 2021 (refer to Utility Search Report Site off M25, Byfleet V1 91344). More detailed information according to PAS 128:2014 (survey type A and B) will be obtained and included in the next revision of this drawing

- LEGEND SERVICES**
- HV OVERHEAD D
 - LV OVERHEAD D
 - HV UNDERGROUND D
 - LV UNDERGROUND D
 - TELECOMMUNICATIONS OVERHEAD D
 - TELECOMMUNICATIONS UNDERGROUND D
 - TELENT - [NATIONAL ROADS TELECOMMUNICATIONS SERVICES] D
 - SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE D
 - SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE D
 - GTC - GAS - LOW PRESSURE D
 - CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD D
 - SURFACE WATER DRAINAGE SEWER UNDERGROUND D
 - COMBINED DRAINAGE SEWER UNDERGROUND D
 - FOUL DRAINAGE SEWER UNDERGROUND D
 - SURFACE WATER DRAINAGE GULLY D
 - SURFACE WATER DRAINAGE MANHOLE D
 - WATER MAIN PIPE ABOVEGROUND D
 - WATER MAIN PIPE ABANDONED D

24 Asset plan - sheet 24
0223 SCALE 1:100

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LEGEND SERVICES

- HV OVERHEAD D
- LV OVERHEAD D
- HV UNDERGROUND D
- LV UNDERGROUND D
- TELECOMMUNICATIONS OVERHEAD D
- TELECOMMUNICATIONS UNDERGROUND D
- TELETEL - (NATIONAL ROADS TELECOMMUNICATIONS SERVICES) D
- SGN - (SOUTHERN GAS NETWORKS) - LOW PRESSURE D
- SGN - (SOUTHERN GAS NETWORKS) - MEDIUM PRESSURE D

- GTC - GAS - LOW PRESSURE D
- CADENT GAS (ABOVE 7 BAR AND 2 BAR) AND NATIONAL GRID ELECTRICITY TRANSMISSION - OVERHEAD D
- SURFACE WATER DRAINAGE SEWER UNDERGROUND D
- COMBINED DRAINAGE SEWER UNDERGROUND D
- FOUL DRAINAGE SEWER UNDERGROUND D
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- SURFACE WATER DRAINAGE MANHOLE D
- WATER MAIN PIPE ABOVEGROUND D
- WATER MAIN PIPE ABANDONED D

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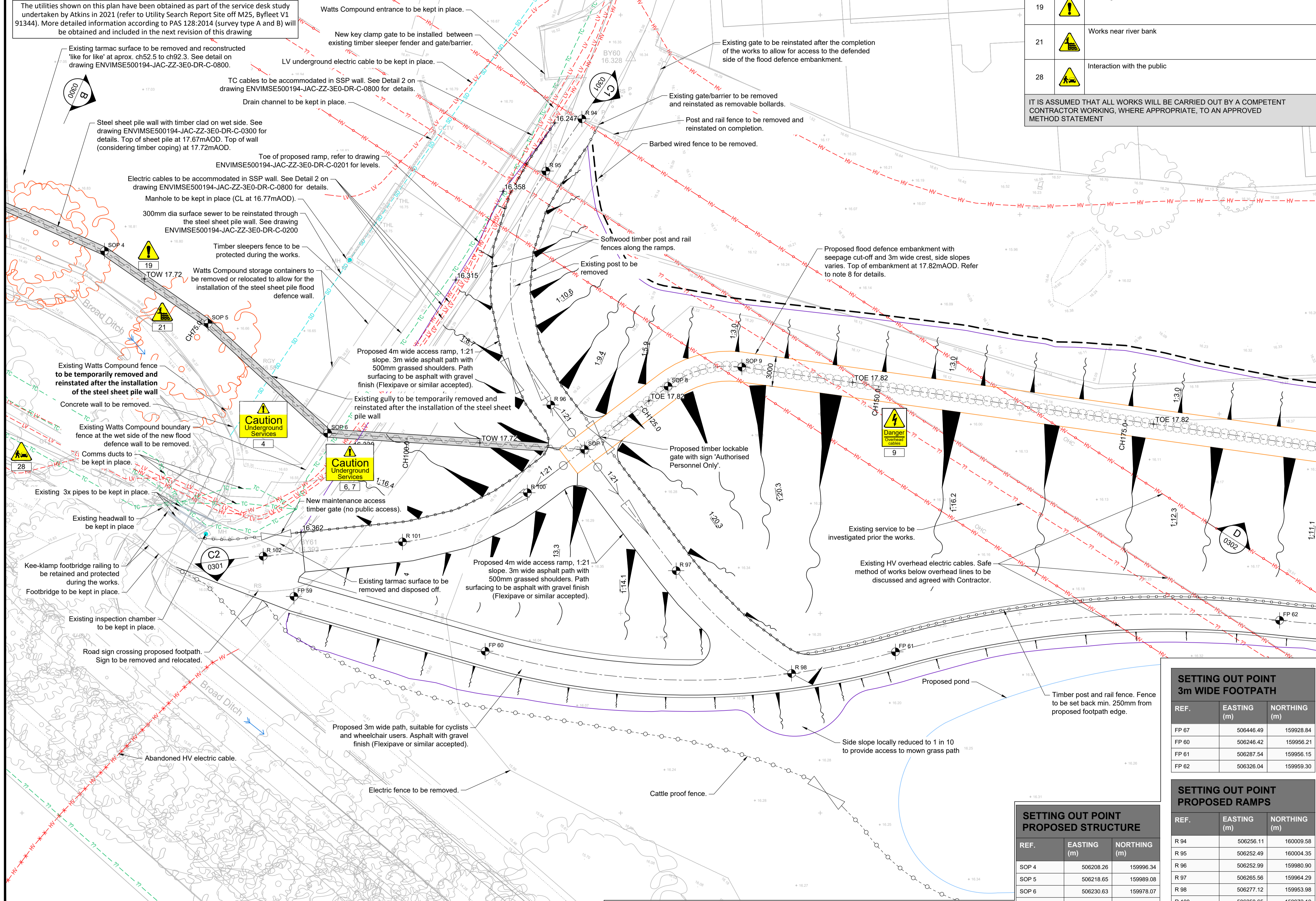
CONSTRUCTION

4 to 8		Underground services
9		UK Power Network (overhead)
11		UXO
19		Welding
21		Works near river bank
28		Interaction with the public

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

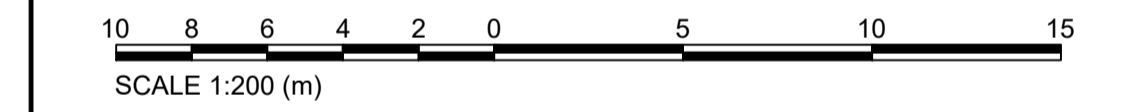
General Notes

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- For General Arrangement details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0100 to 0108.
- For further design details, refer to asset plan drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0200 to 0224.
- For cross section details, refer to drawings: ENVIMSE00194-JAC-DE-3E0-DR-C-0300 to 305.
- For longitudinal profile, refer to drawings: ENVIMSE00194-JAC-DE-3E0-DR-C-0310 to 314.
- For typical details, refer to drawings: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0800 to 0801.
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LEGEND

- SEEPAGE CUT-OFF (DEEP SOIL MIXING)
- CREST OF EMBANKMENT
- TOE OF EMBANKMENT
- POST AND RAIL FENCING
- STOCK PROOF FENCE
- PROPOSED POND
- GATE (TYPE UNSPECIFIED)
- TOP OF WALL
- TOP OF EMBANKMENT
- EXISTING LEVELS
- WATERCOURSE FLOW DIRECTION ARROW
- EXISTING TREE TO BE REMOVED SEE TREE PROTECTION PLAN - NOTE 11
- TOE DRAIN (FRENCH DRAIN)



Rev	Sta	Description	Date	Originator	Checker	Reviewer	Approver
P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF



Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
**Linear Defences
Sanway Road Ramp
Asset Plan**

Environment Agency logo and contact information.

Parent Model: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0224.dwg

Security Classification: Official

Scale: AS SHOWN

Originator: J. GORAL, Checker: J. ALVAREZ GARCIA, Reviewer: J. ALVAREZ GARCIA, Approver: S. FOWLER

Suitability: S3 - Suitable for review and comment

Status: S3, Revision: P01

Information Container: ENVIMSE00194-JAC-ZZ-3E0-DR-C-0224

SETTING OUT POINT PROPOSED STRUCTURE

REF.	EASTING (m)	NORTHING (m)
SOP 4	506208.26	159996.34
SOP 5	506218.65	159989.08
SOP 6	506230.63	159978.07
SOP 7	506256.37	159976.43
SOP 8	506284.74	159982.77
SOP 1	506147.24	160005.30

SETTING OUT POINT 3m WIDE FOOTPATH

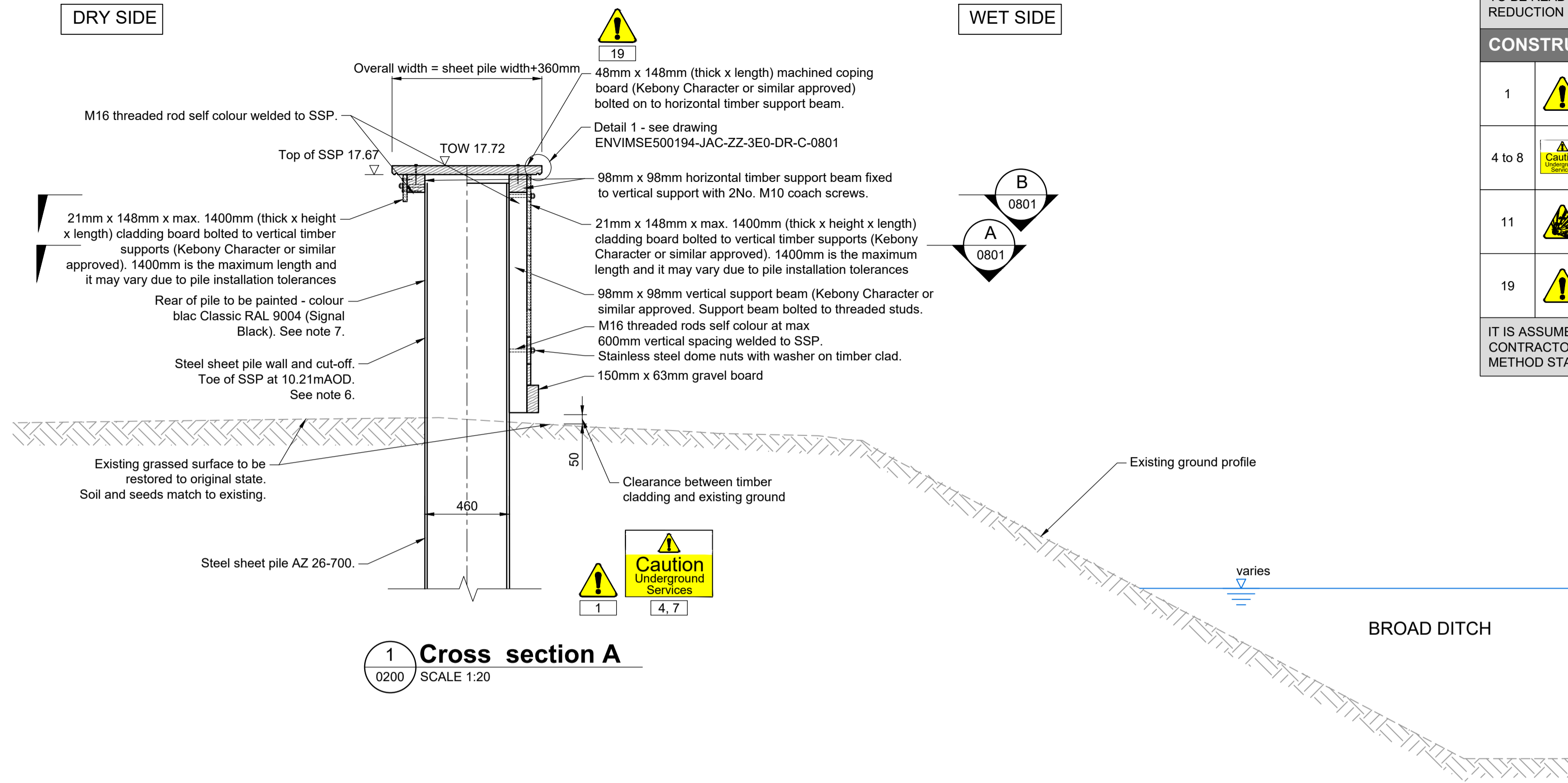
REF.	EASTING (m)	NORTHING (m)
FP 67	506446.49	159928.84
FP 60	506246.42	159956.21
FP 61	506287.54	159956.15
FP 62	506326.04	159959.30

SETTING OUT POINT PROPOSED RAMPS

REF.	EASTING (m)	NORTHING (m)
R 94	506256.11	160009.58
R 95	506252.49	160004.35
R 96	506252.99	159980.90
R 97	506265.56	159964.29
R 98	506277.12	159953.98
R 100	506250.65	159972.10
R 101	506238.13	159967.17
R 102	506224.17	159965.73

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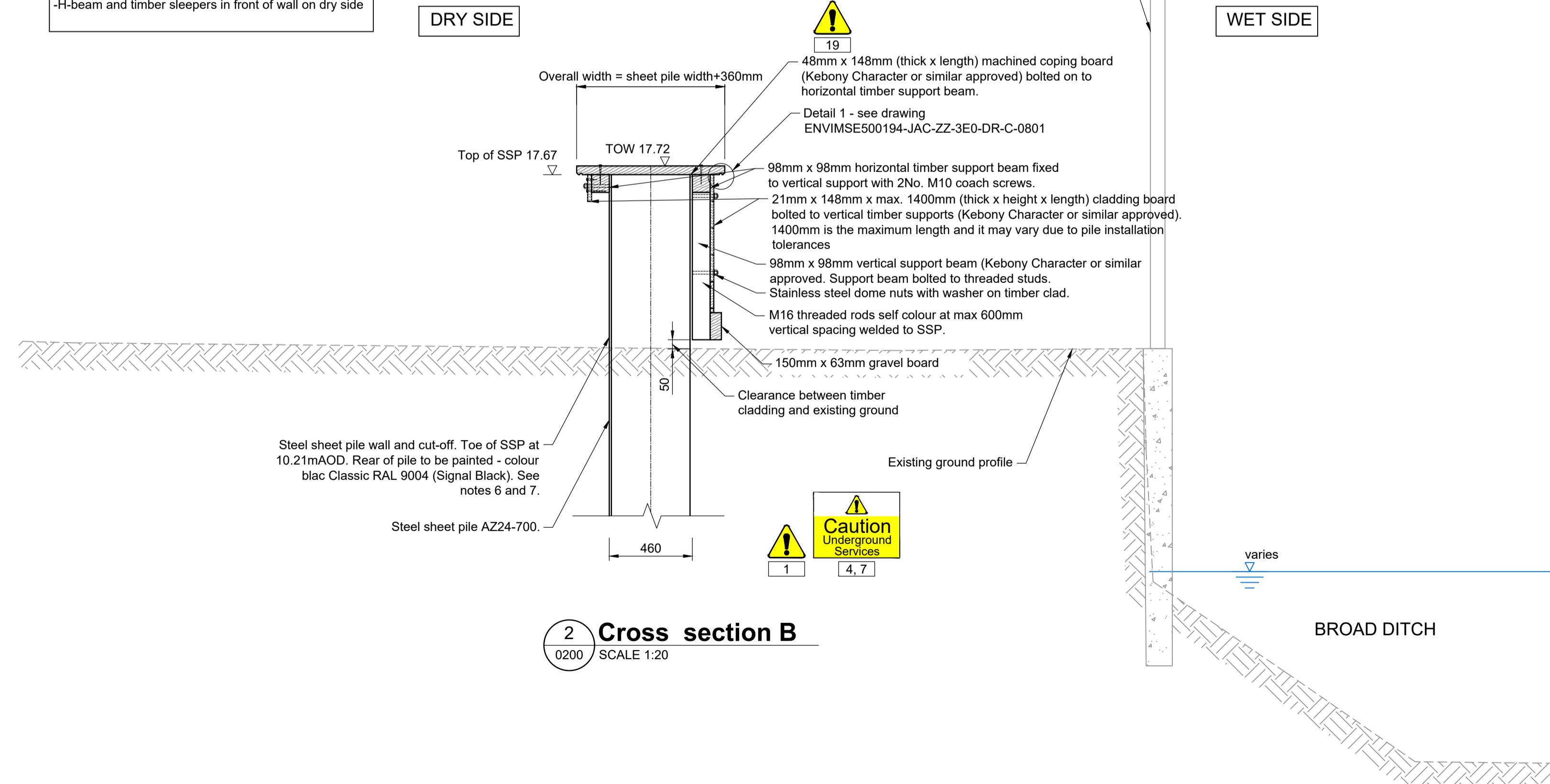
FOR TYPICAL PILE TIMBER CLADDING
ELEVATION AND SECTION A SEE DRAWING
ENVIMSE500194-JAC-ZZ-3E0-DR-C-0801



1 Cross section A
0200 SCALE 1:20

Watts Compound boundary fence design TBC
Potential options:
-Higher SSP wall
-H-beam and timber sleepers in front of wall on dry side

FOR TYPICAL PILE TIMBER CLADDING
ELEVATION AND SECTION B SEE DRAWING
ENVIMSE500194-JAC-ZZ-3E0-DR-C-0801



2 Cross section B
0200 SCALE 1:20

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

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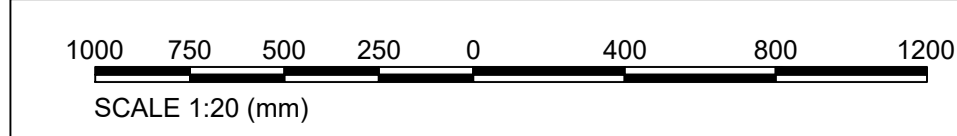
CONSTRUCTION

1		M25 drainage
4 to 8		Underground services
11		UXO
19		Welding of studs

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General Notes

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- This drawing is to be read in conjunction with:
-General arrangement drawings ENVIMSE500194-JAC-ZZ-3E0-DR-C-0100 to 0108
-Asset plans ENVIMSE500194-JAC-ZZ-3E0-DR-C-0200 to 0223
-Longitudinal profile drawings ENVIMSE500194-JAC-ZZ-3E0-DR-C-0310 to 0314
-Typical details ENVIMSE500194-JAC-ZZ-3E0-DR-C-0800 and 0801.
- Steel sheet pile profile to be steel grade S275.
- All atmospheric exposed steel surfaces prepared and painted to BS5493:
- blast clean to sa2.5,
- coat Egrip L425 zinc phosphate primer 75udft,
- one coat Egrip M922 epoxy glass flake 350udft,
- one coat Resistex C137 50udft colour 18B29 to BS4800.
- All timbers should be FSC certificated and produced with EA procedures.
- All timbers should be rough sawn finished and treated for outside use unless otherwise noted.
- All metal fixing should be stainless steel unless otherwise noted except of threaded rods.
- The Contractor shall submit a sample of the proposed timber to the Engineer for acceptance.
- The amount of cladding boards in section and length of vertical support to be adjusted by Contractor to existing ground.



P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
Document Control							

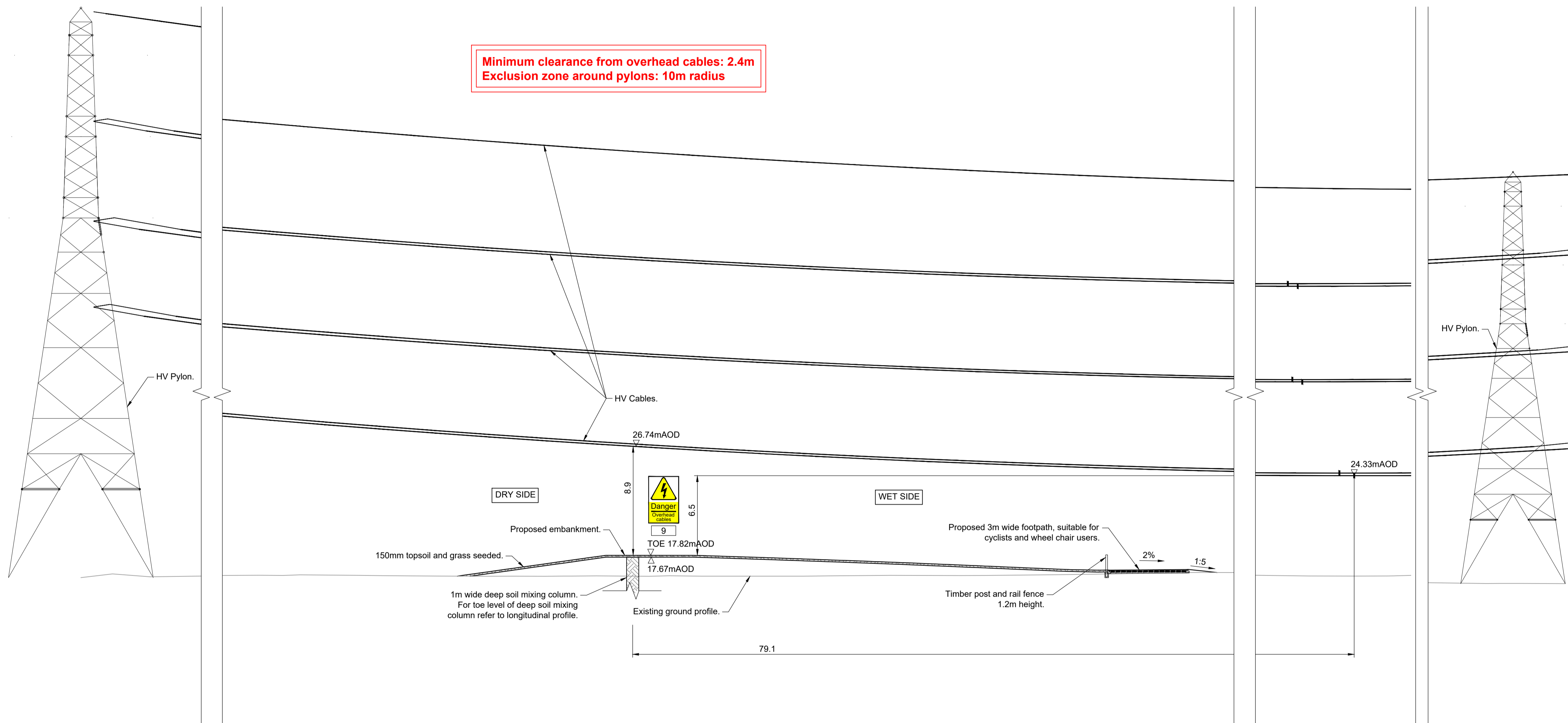


Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
Sanway Byfleet Cross Sections Sheet 1



Parent Model ENVIMSE500194-JAC-DE-3E0-DR-C-0300.dwg			
Security Classification Official	Scale AS SHOWN		
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment	Status S3	Revision P01	Information Container ENVIMSE500194-JAC-DE-3E0-DR-C-0300



1 Cross Section D with HV Cables
0202 SCALE 1:200

General Notes

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 - Asset plan ENVIMSE500194-JAC-ZZ-3E0-DR-C-0200 to 0223;
 - Longitudinal profile drawings ENVIMSE500194-JAC-ZZ-3E0-DR-C-0310 to 0314;
 - Typical details ENVIMSE500194-JAC-ZZ-3E0-DR-C-0800 and 0801.
- No work shall be undertaken within a 10m radius from a pylon or tower. If the design or construction requires entering this exclusion zone, further liaison with National Grid will be required.
- The minimum safety distance from the overhead lines is 2.4m. This cannot be breached by any plant, material, personnel or structure.
- No final or temporary structure shall be built where someone could stand on within 4.6m from the overhead lines.
- The overhead cable levels shown have been provided by National Grid and consider the potential sag of the lines during hot weather.
- The conductors may swing (blow-out) to a maximum of 45 degrees during very strong winds. Clearances need to be maintained for this situation.
- Contractor shall refer to the information provided by National Grid: ZM010-ZM013_11720_A.dxf and National Grid OHPL_Sanway_Ver1.pdf.

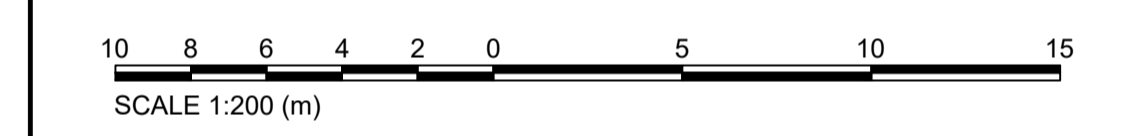
SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

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CONSTRUCTION

9		UK Power Network (overhead)
11		UXO

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P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver

Document Control

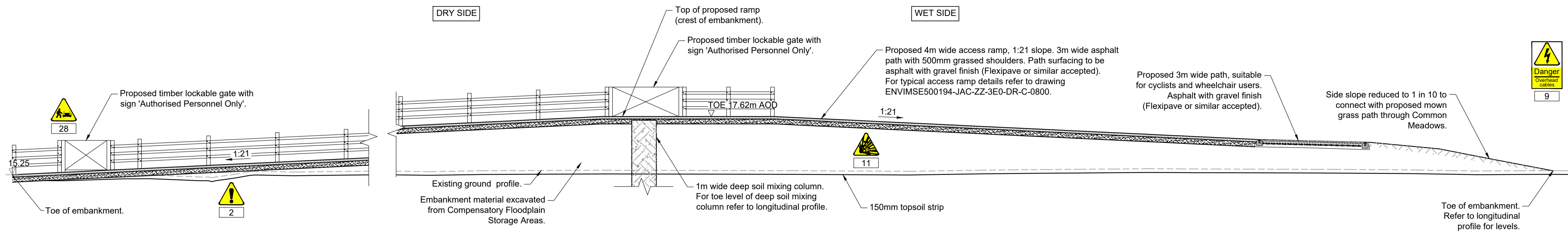


Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

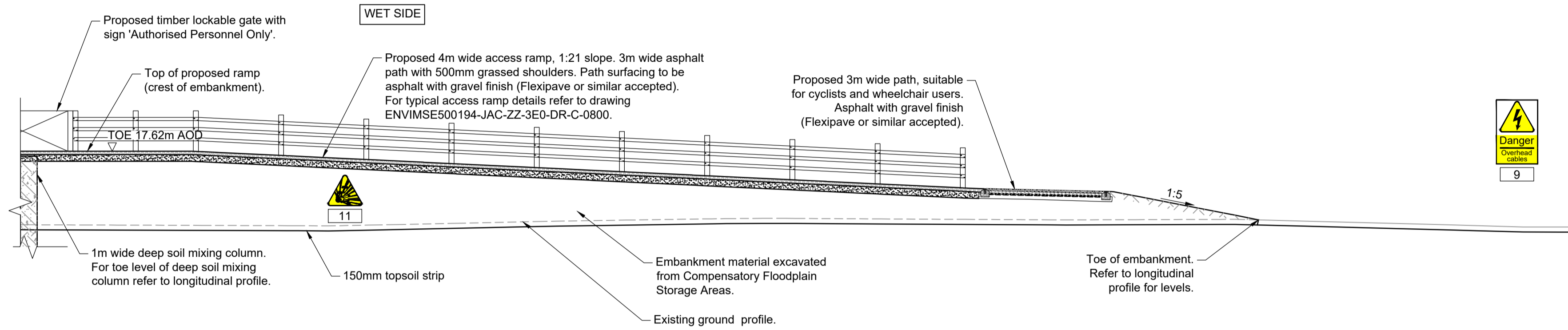
Drawing Title
Sanway Byfleet Cross Sections Sheet 3



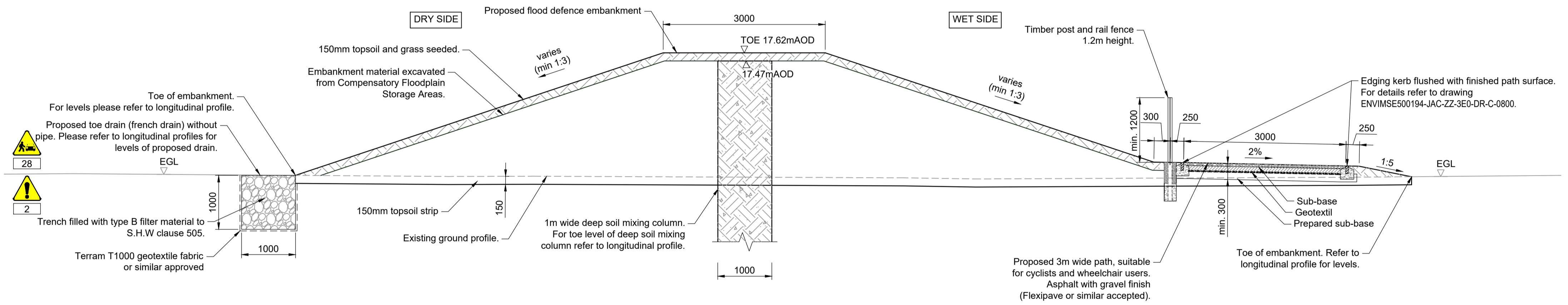
Parent Model ENVIMSE500194-JAC-DE-3E0-DR-C-0302.dwg		Scale	
Security Classification Official			
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment		Status S3	Revision P01
Information Container ENVIMSE500194-JAC-DE-3E0-DR-C-0302		A1 Sheet Size	



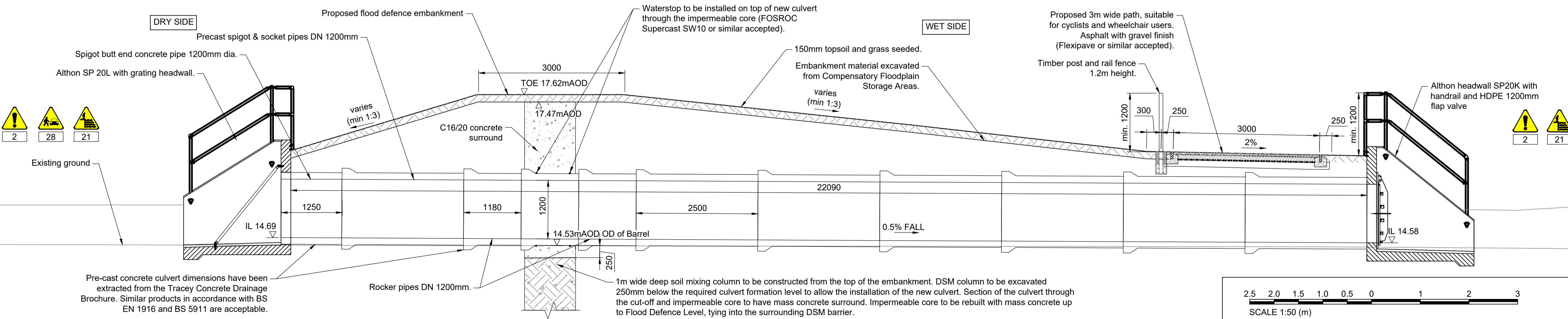
1 Cross Section G1 through the ramp from Fullerton Way
0205 SCALE 1:100



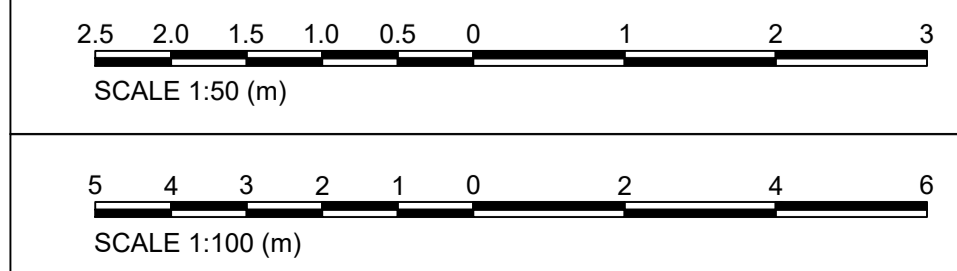
2 Cross Section G2 through the ramp from Fullerton Way
0205 SCALE 1:100



3 Cross Section H - typical section through the embankment with TOE @ 17.62m AOD
0206 SCALE 1:50



4 Cross Section I - section through the embankment culvert with TOE @ 17.62m AOD
0209 SCALE 1:50



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 - Longitudinal profile drawings ENVIMSE500194-JAC-ZZ-3E0-DR-C-0310 to 0314;
 - Typical details ENVIMSE500194-JAC-ZZ-3E0-DR-C-0800 and 0801.
 - Main timber post fence shall be provided at intervals, measured centre-to-centre of the post, of not more than 2.85m for morticed fence and not more than 1.8m for nailed fence.
 - Main timber post shall be set vertically below ground to a minimum depth of 0.6m for fences 1.2m high.
 - Concrete surrounding the base of the main posts shall fill at least half depth of the hole.
 - One prick post shall be provided in each bay of a morticed fence and shall be driven vertically into the ground to a depth of 0.45m. It shall be positioned centrally within the bay.

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CONSTRUCTION

2	⚠	Existing land drains
9	⚠	UK Power Network (overhead)
11	⚠	UXO
21	⚠	Works near river bank
28	⚠	Interaction with public

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P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver

Document Control



Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

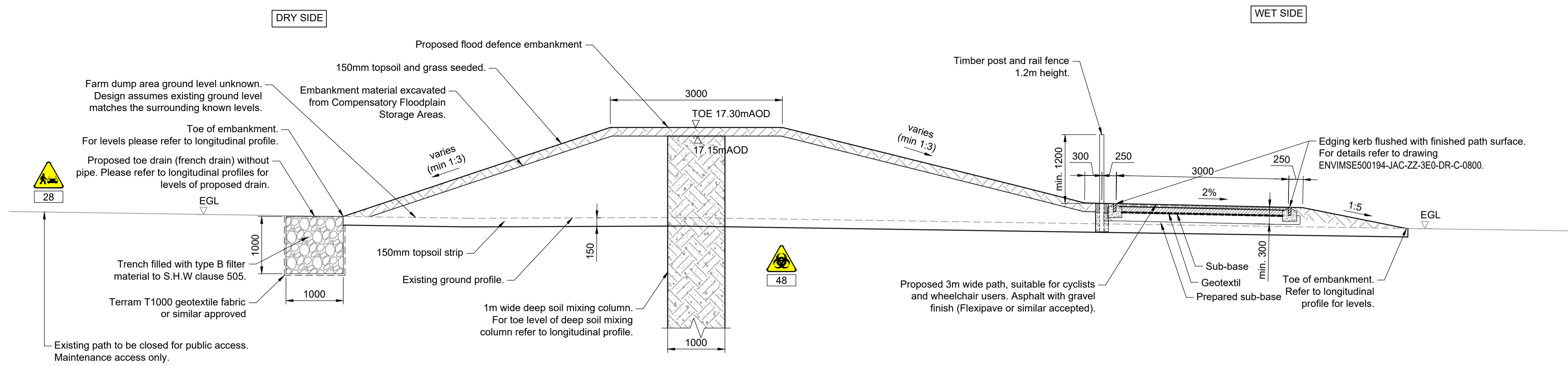
Drawing Title
Sanway Byfleet Cross Sections Sheet 4



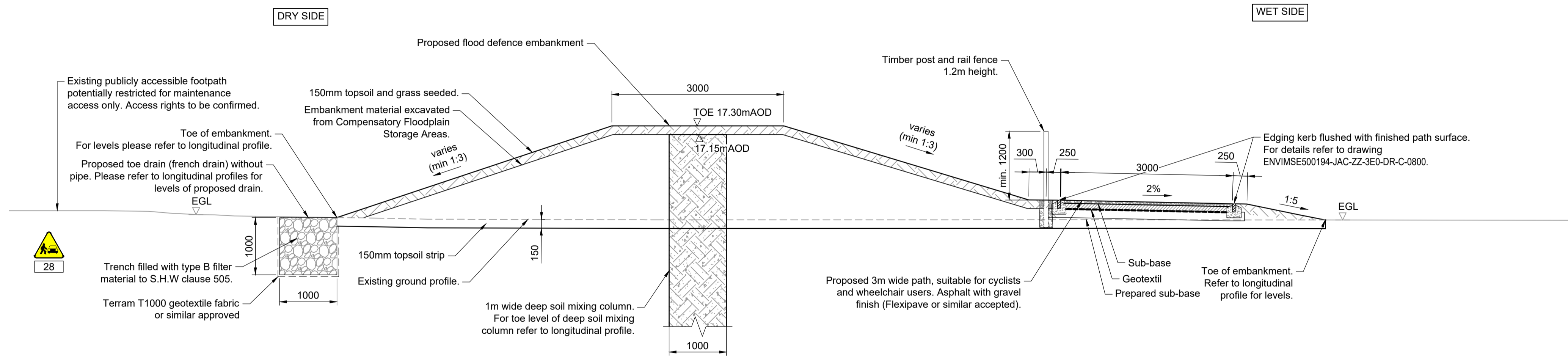
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Parent Model
ENVIMSE500194-JAC-DE-3E0-DR-C-0303.dwg

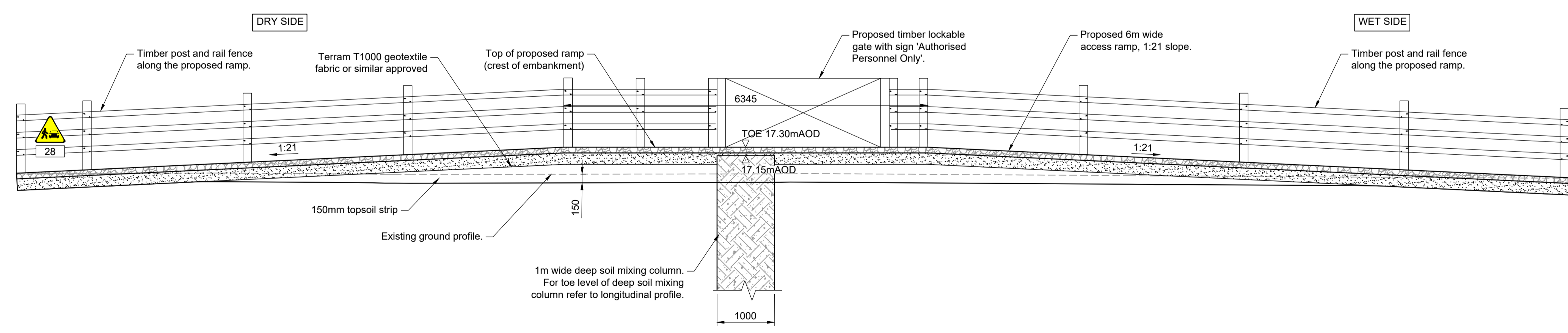
Security Classification	Scale		
Official			
Originator	Checker	Reviewer	Approver
J. GORAL	J. ALVAREZ GARCIA	J. ALVAREZ GARCIA	S. FOWLER
Suitability	Status	Revision	
S3 - Suitable for review and comment	S3	P01	
Information Contained	ENVIMSE500194-JAC-DE-3E0-DR-C-0303		
	A1 Sheet Size		



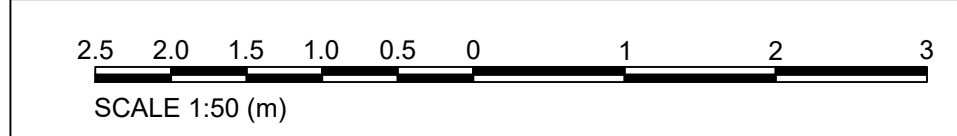
1 Cross Section J - typical section through the embankment with TOE @ 17.30m AOD
0210 SCALE 1:50



2 Cross Section K - typical section through the embankment with TOE @ 17.30m AOD
0211 SCALE 1:50



3 Cross Section L through the ramp
0213 SCALE 1:50



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 - This drawing is to be read in conjunction with:
 - General arrangement drawings ENVIMSE500194-JAC-ZZ-3E0-DR-C-0100 to 0108;
 - Asset plan ENVIMSE500194-JAC-ZZ-3E0-DR-C-0200 to 0223;
 - Longitudinal profile drawings ENVIMSE500194-JAC-ZZ-3E0-DR-C-0310 to 0314;
 - Typical details ENVIMSE500194-JAC-ZZ-3E0-DR-C-0800 and 0801.
 - Main timber post fence shall be provided at intervals, measured centre-to-centre of the post, of not more than 2.85m for morticed fence and not more than 1.8m for nailed fence.
 - Main timber post shall be set vertically below ground to a minimum depth of 0.6m for fences 1.2m high.
 - Concrete surrounding the base of the main posts shall fill at least half depth of the hole.
 - One prick post shall be provided in each bay of a morticed fence and shall be driven vertically into the ground to a depth of 0.45m. It shall be positioned centrally within the bay.

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RISKS. TO BE READ IN CONJUNCTION WITH THE HAZARD ELIMINATION AND RISK REDUCTION REGISTER (HERRR) ENVIMSE500194-JAC-ZZ-00-RA-C-0001.

CONSTRUCTION	
11	UXO
28	Interaction with public
48	Contaminated land

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF

Document Control

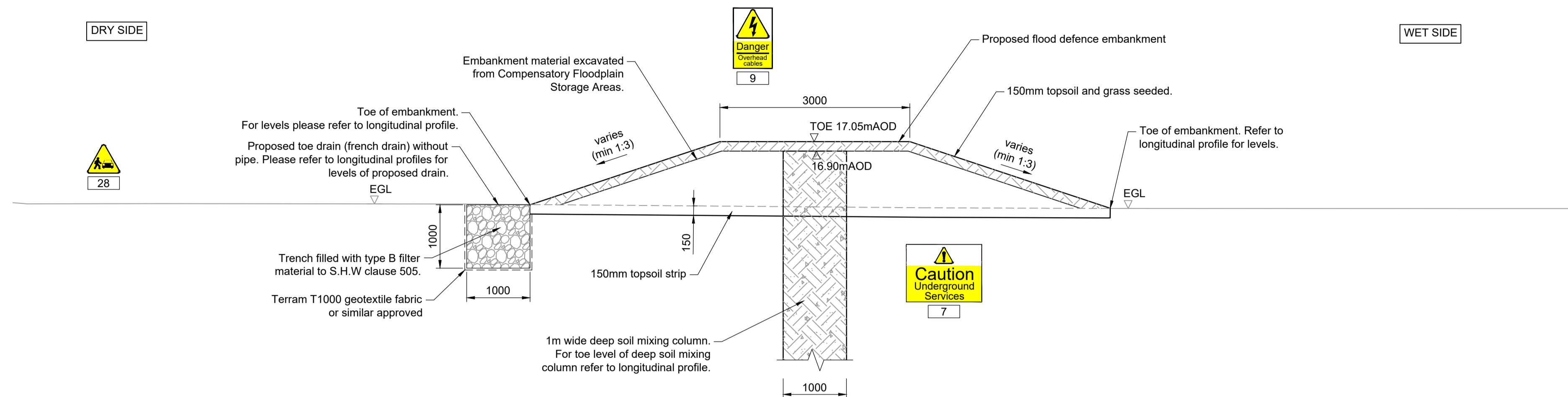


Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

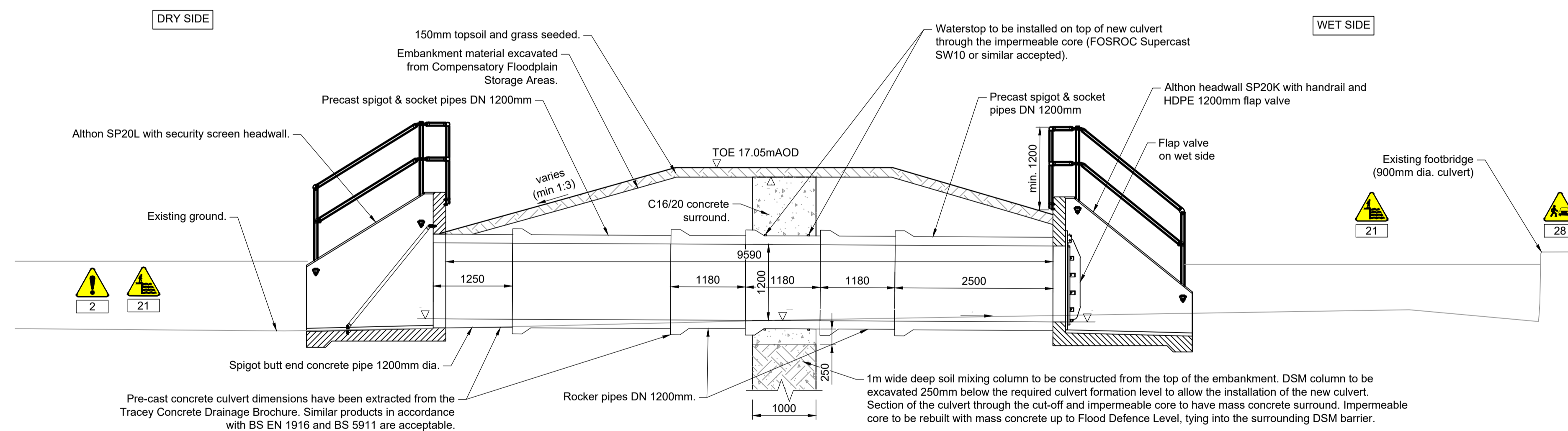
Drawing Title
Sanway Byfleet Cross Sections Sheet 5



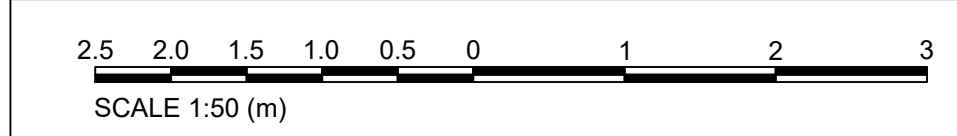
Parent Model ENVIMSE500194-JAC-DE-3E0-DR-C-0304.dwg		Scale	
Security Classification Official			
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment		Status S3	Revision P01
Information Container ENVIMSE500194-JAC-DE-3E0-DR-C-0304		A1 Sheet Size	



1 Cross Section M - typical section through the embankment with TOE @ 17.05m AOD
0216 SCALE 1:50



2 Cross Section N - section through the embankment culvert with TOE @ 17.05m AOD
0221 SCALE 1:50



- General Notes**
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 - All levels are in metres relative to Ordnance Datum Newlyn (m AOD) unless noted otherwise.
 - All co-ordinates are in metres relative to Ordnance Survey national grid.
 - Do not scale from this drawing. All dimensions must be checked / verified on site.
 - This drawing is to be read in conjunction with:
 - General arrangement drawings ENVIMSE500194-JAC-ZZ-3E0-DR-C-0100 to 0108;
 - Asset plan ENVIMSE500194-JAC-ZZ-3E0-DR-C-0200 to 0223;
 - Longitudinal profile drawings ENVIMSE500194-JAC-ZZ-3E0-DR-C-0310 to 0314;
 - Typical details ENVIMSE500194-JAC-ZZ-3E0-DR-C-0800 and 0801.
 - Main timber post fence shall be provided at intervals, measured centre-to-centre of the post, of not more than 2.85m for morticed fence and not more than 1.8m for nailed fence.
 - Main timber post shall be set vertically below ground to a minimum depth of 0.6m for fences 1.2m high.
 - Concrete surrounding the base of the main posts shall fill at least half depth of the hole.
 - One prick post shall be provided in each bay of a morticed fence and shall be driven vertically into the ground to a depth of 0.45m. It shall be positioned centrally within the bay.

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RISKS. TO BE READ IN CONJUNCTION WITH THE HAZARD ELIMINATION AND RISK REDUCTION REGISTER (HERRR) ENVIMSE500194-JAC-ZZ-00-RA-C-0001.

CONSTRUCTION

2		Existing land drains
4 to 8		Underground services
9		UK Power Network (overhead)
11		UXO
21		Works near river bank
28		Interaction with public

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver

Document Control



Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
Sanway Byfleet Cross Sections Sheet 6

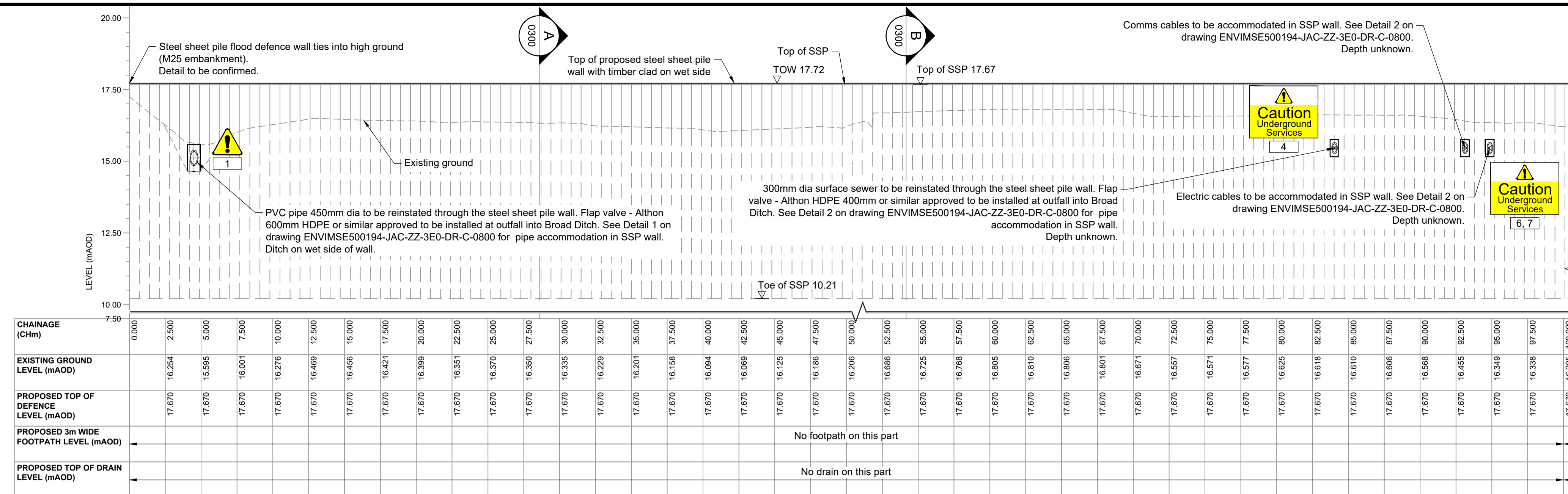


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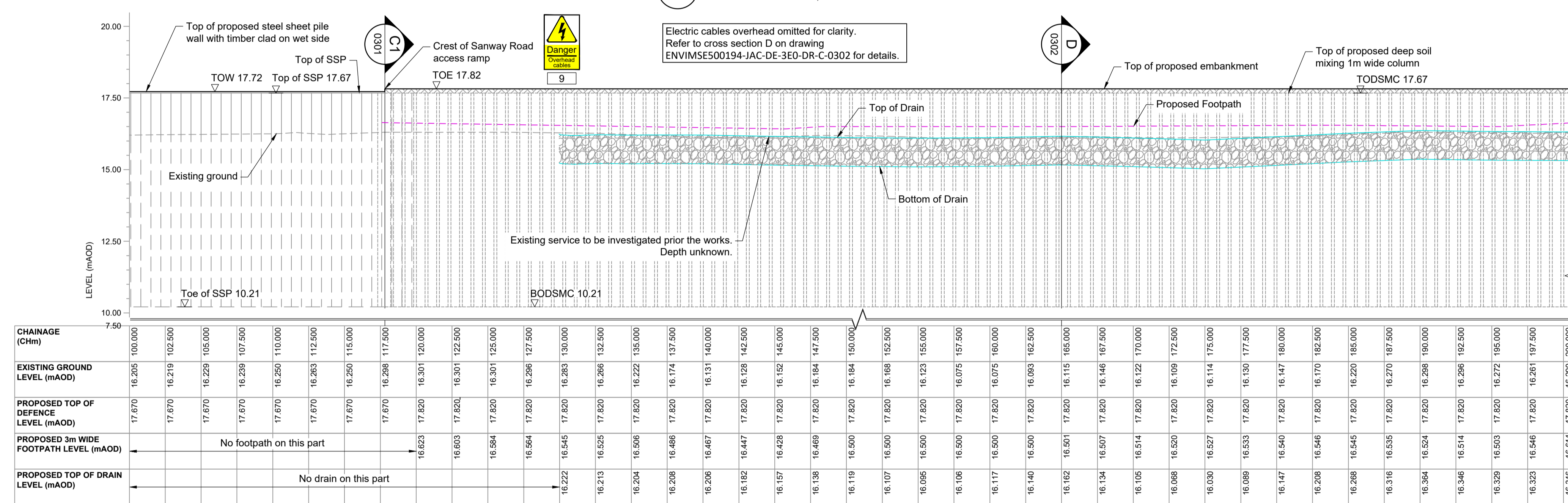
Parent Model
ENVIMSE500194-JAC-DE-3E0-DR-C-0305.dwg

Security Classification Official	Scale
Originator J. GORAL	Checker J. ALVAREZ GARCIA
Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment	Status S3
Information Container ENVIMSE500194-JAC-DE-3E0-DR-C-0305	Revision P01

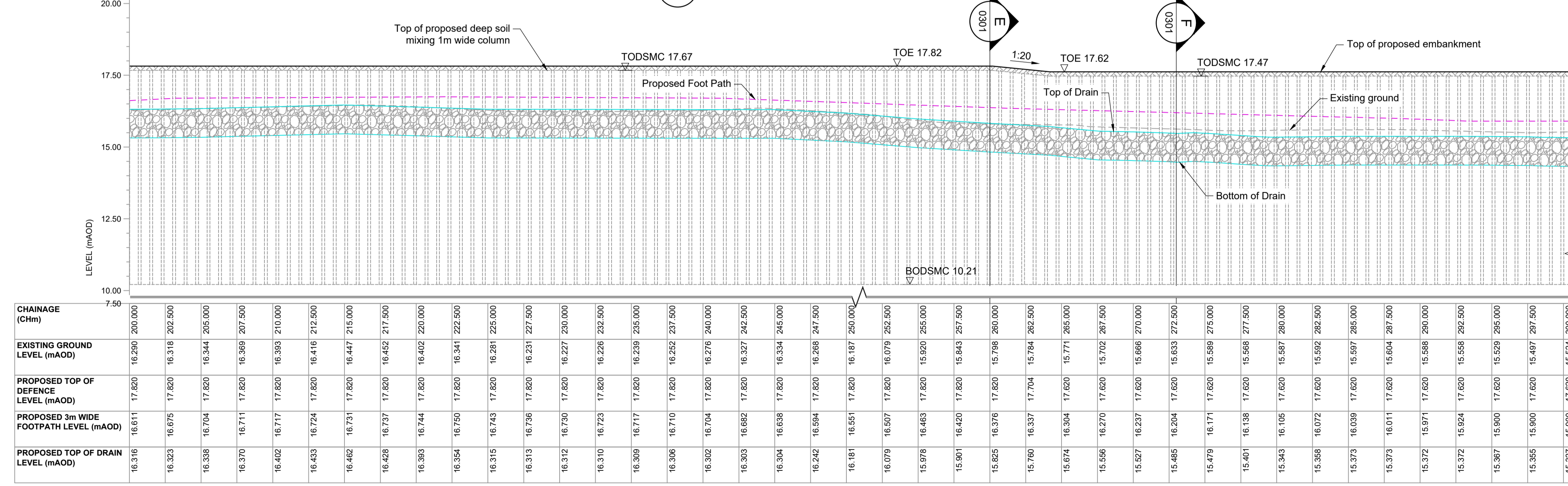
A1 Sheet Size



1 Longitudinal Section Ch 0 - 100
SCALE: VERTICAL 1:100; HORIZONTAL 1:200



2 Longitudinal Section Ch 100 - 200
SCALE: VERTICAL 1:100; HORIZONTAL 1:200



3 Longitudinal Section Ch 200 - 300
SCALE: VERTICAL 1:100; HORIZONTAL 1:200

- General Notes**
- All dimensions are in millimetres unless noted otherwise.
 - All levels are in metres relative to Ordnance Datum Newlyn (mAOD) unless noted otherwise.
 - All co-ordinates are in metres relative to Ordnance Survey national grid.
 - Do not scale from this drawing. All dimensions must be checked / verified on site.
 - Toe level of proposed embankment on dry side should be the same as top level of proposed drain.
 - For further design details, refer to asset plan drawings: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0200 to 0224.
 - For cross section details refer to drawings: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0300 to 0305.

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RISKS. TO BE READ IN CONJUNCTION WITH THE HAZARD ELIMINATION AND RISK REDUCTION REGISTER (HERRR) ENVIMSE500194-JAC-ZZ-00-RA-C-0001.

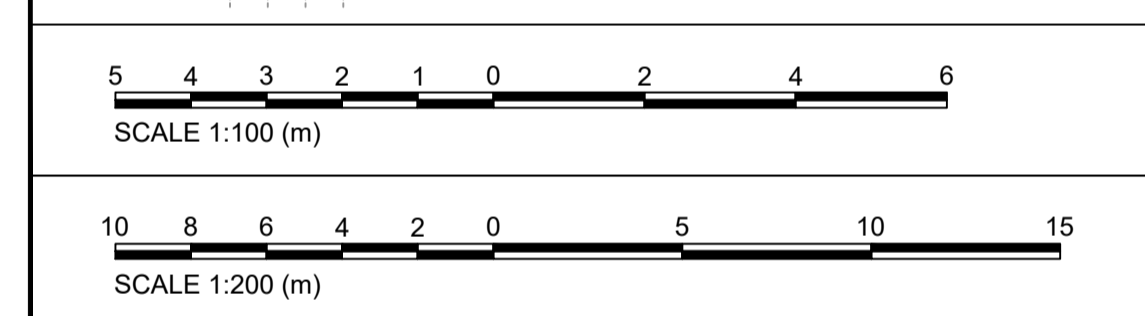
CONSTRUCTION

1		M25 drainage
4 to 8		Underground services
9		UK Power Network (overhead)
11		UXO

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

LEGEND

	Existing Ground
	Proposed Footpath
	Proposed French Drain -1000mm deep
	150mm topsoil and grass seeding
	Top of embankment
	Top of wall's timber cladding
	Top of Deep soil mixing column barrier
	Bottom of Deep soil mixing column barrier
	Steel sheet piles
	DSM - Deep soil mixing columns



P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver

Supplier

Jacobs.

Project Title

Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title

Sanway Byfleet Longitudinal Profile Sheet 1

Environment Agency

Parent Model: ENVIMSE500194-JAC-DE-3E0-DR-C-0310.dwg

Security Classification: Official

Scale: []

Originator	Checker	Reviewer	Approver
J. GORAL	J. ALVAREZ GARCIA	J. ALVAREZ GARCIA	S. FOWLER

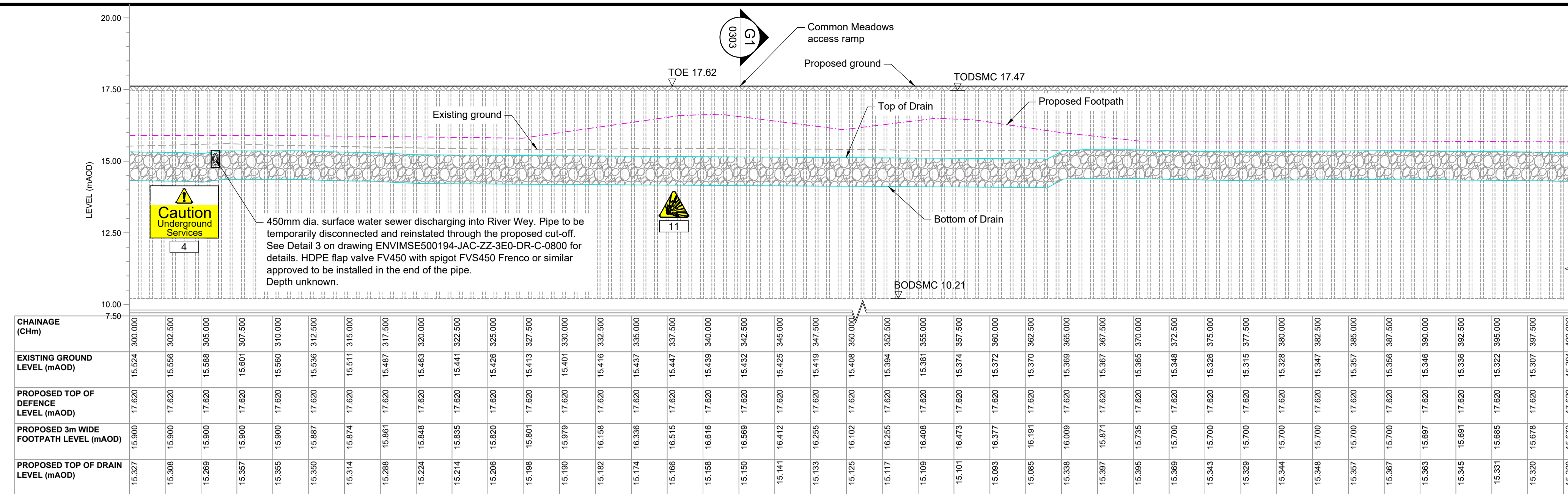
Suitability: S3 - Suitable for review and comment

Status: S3

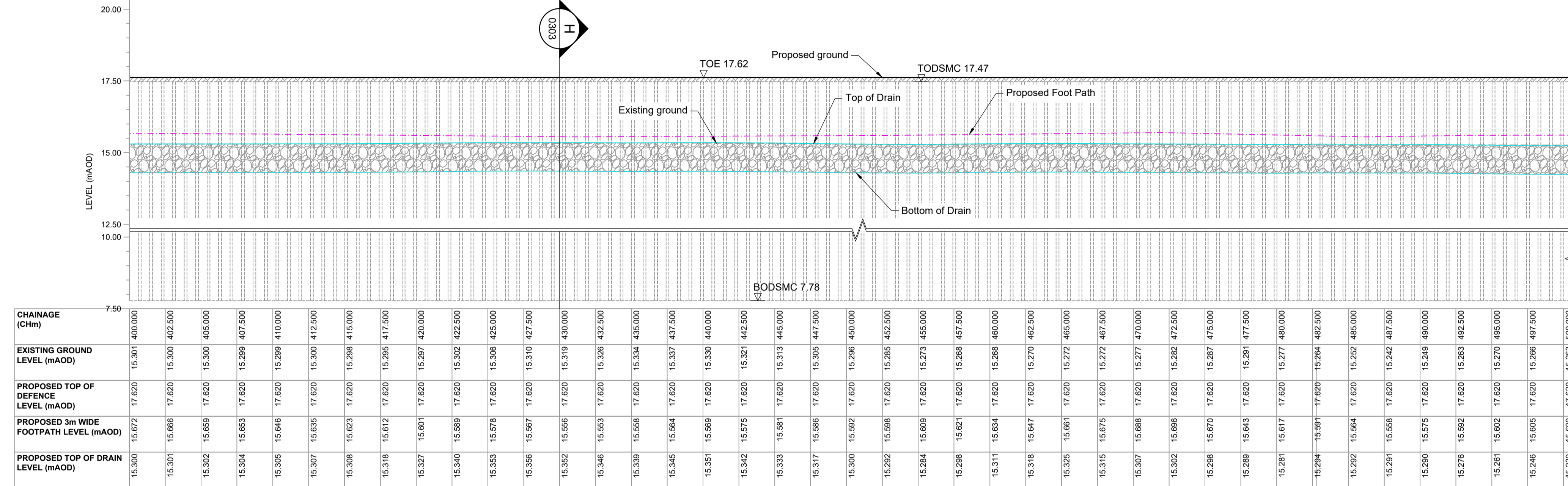
Revision: P01

Information Container: ENVIMSE500194-JAC-DE-3E0-DR-C-0310

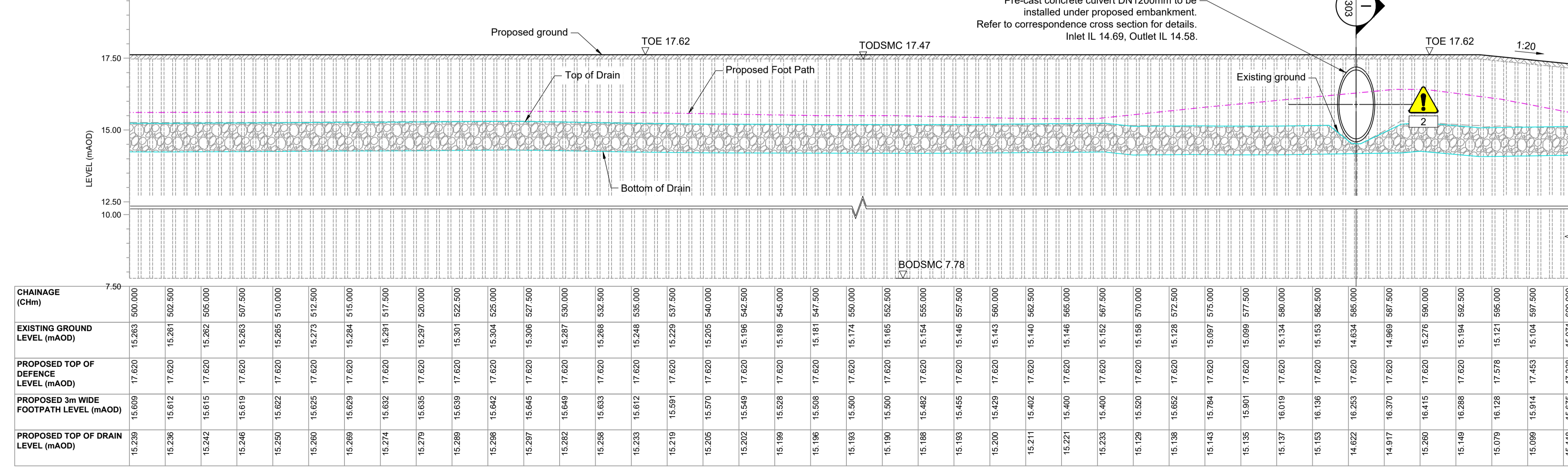
A1 Sheet Size



1 Longitudinal Section Ch 300 - 400
SCALE: VERTICAL 1:100; HORIZONTAL 1:200



2 Longitudinal Section Ch 400 - 500
SCALE: VERTICAL 1:100; HORIZONTAL 1:200



3 Longitudinal Section Ch 500 - 600
SCALE: VERTICAL 1:100; HORIZONTAL 1:200

- General Notes**
- All dimensions are in millimetres unless noted otherwise.
 - All levels are in metres relative to Ordnance Datum Newlyn (mAOD) unless noted otherwise.
 - All co-ordinates are in metres relative to Ordnance Survey national grid.
 - Do not scale from this drawing. All dimensions must be checked / verified on site.
 - Toe level of proposed embankment on dry side should be the same as top level of proposed drain.
 - For further design details, refer to asset plan drawings: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0200 to 0224.
 - For cross section details refer to drawings: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0300 to 0305.

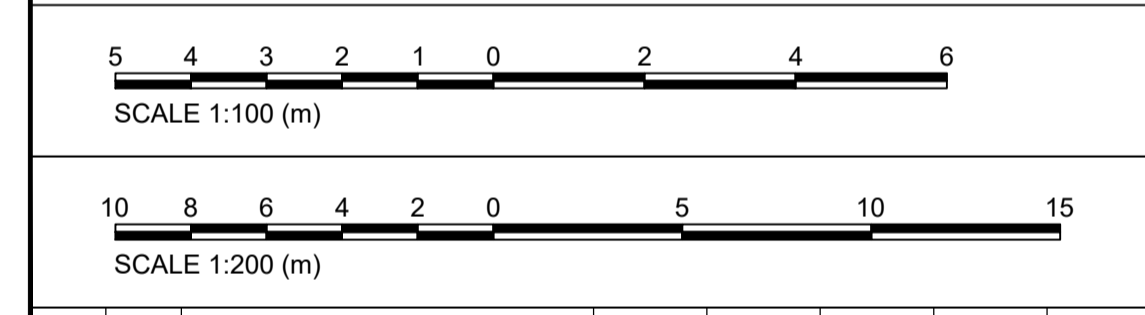
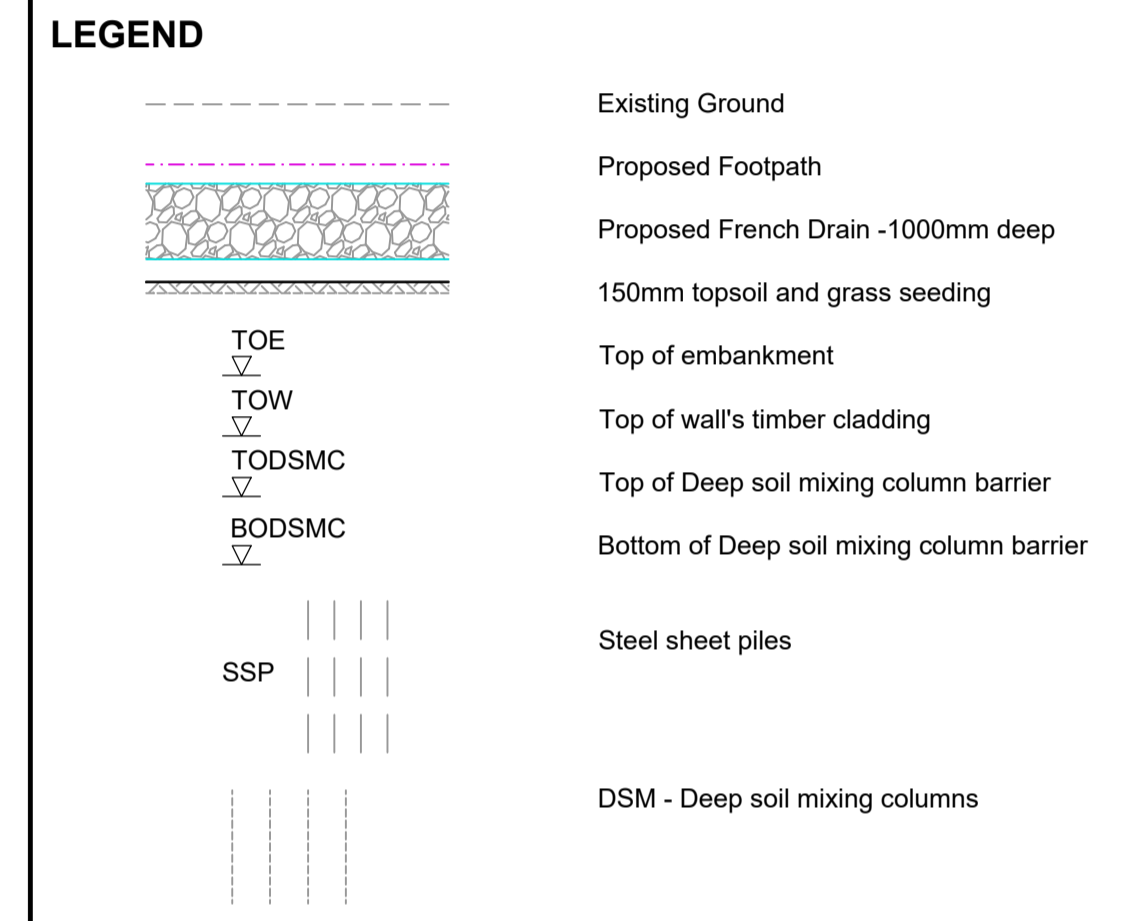
SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

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CONSTRUCTION

2	Caution Underground Services	Existing land drains
4 to 8	Caution Underground Services	Underground services
11	Caution UXO	UXO

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

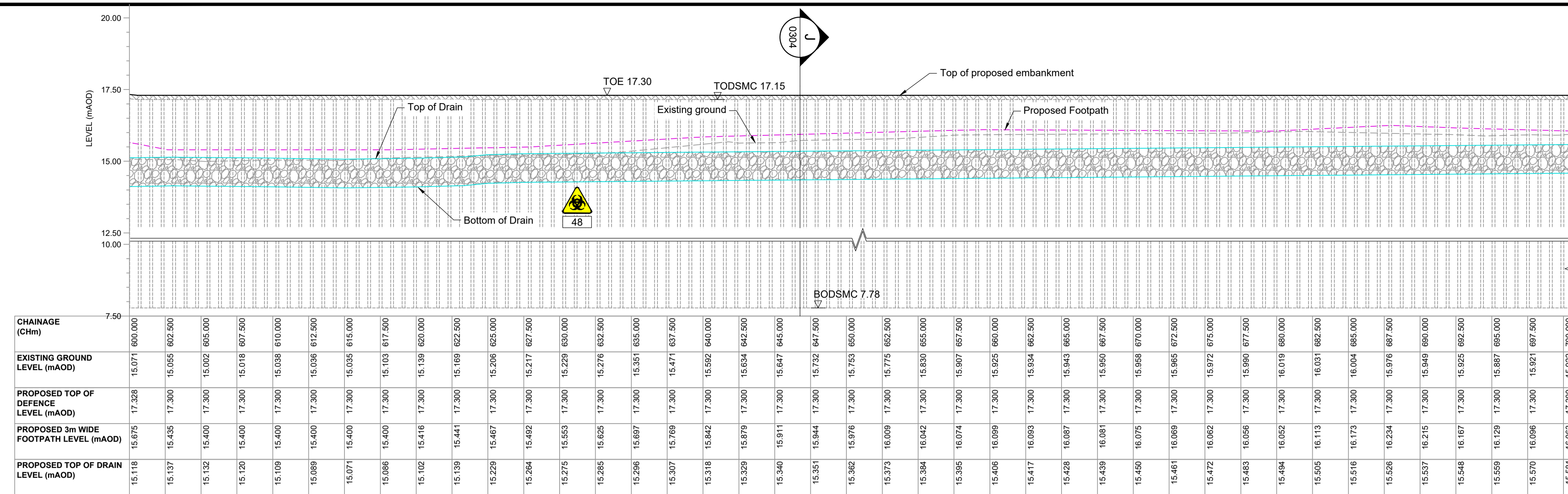


P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
Document Control							
Supplier							
Project Title							
Sanway Byfleet Flood Alleviation Scheme - EA3-Design							
Drawing Title							
Sanway Byfleet Longitudinal Profile Sheet 2							

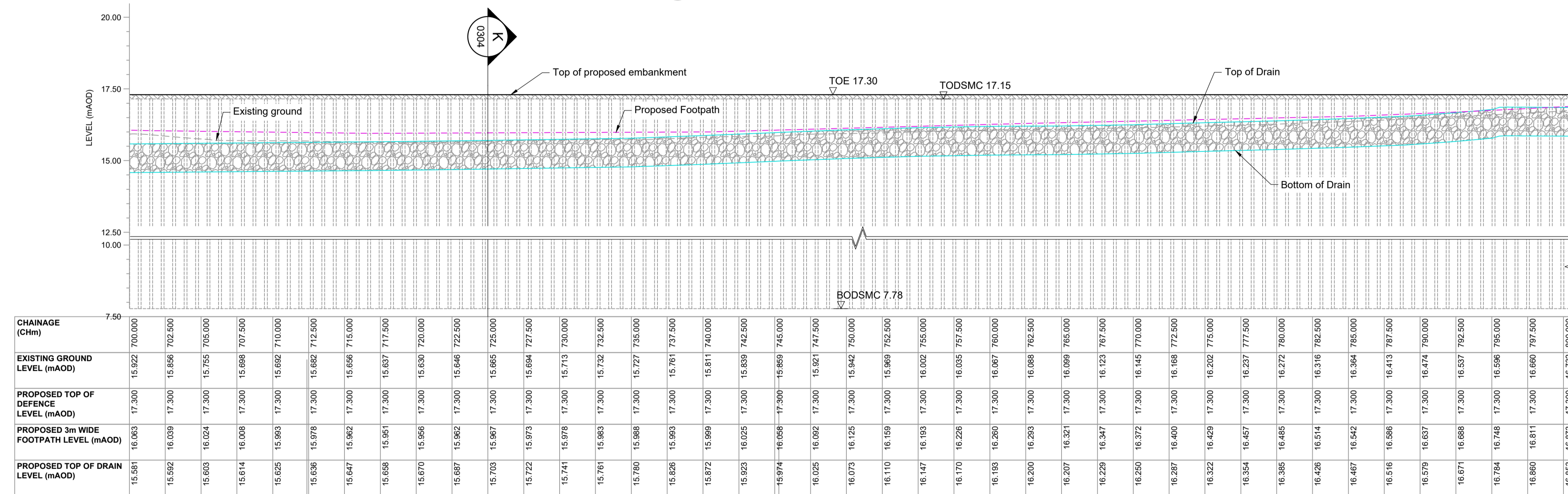


Environment Agency

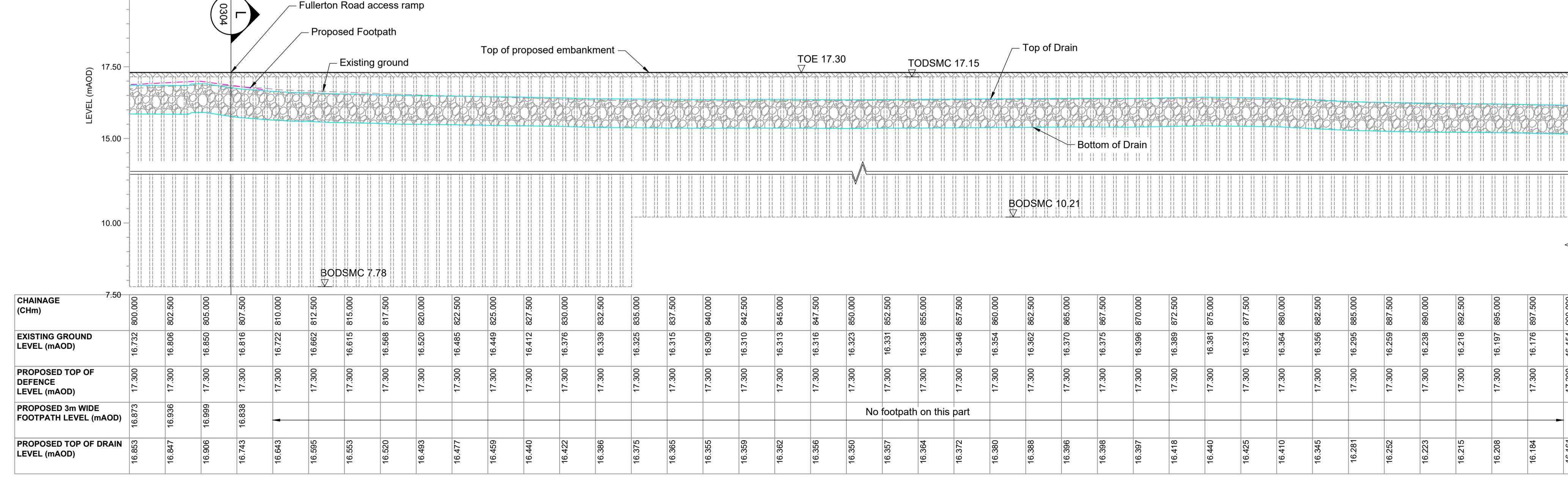
Parent Model ENVIMSE500194-JAC-DE-3E0-DR-C-0311.dwg			
Security Classification Official		Scale	
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment	Status S3	Revision P01	Information Container ENVIMSE500194-JAC-DE-3E0-DR-C-0311



1 Longitudinal Section Ch 600 - 700
SCALE: VERTICAL 1:100; HORIZONTAL 1:200



2 Longitudinal Section Ch 700 - 800
SCALE: VERTICAL 1:100; HORIZONTAL 1:200



3 Longitudinal Section Ch 800 - 900
SCALE: VERTICAL 1:100; HORIZONTAL 1:200

- General Notes**
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 - All co-ordinates are in metres relative to Ordnance Survey national grid.
 - Do not scale from this drawing. All dimensions must be checked / verified on site.
 - Toe level of proposed embankment on dry side should be the same as top level of proposed drain.
 - For further design details, refer to asset plan drawings: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0200 to 0224
 - For cross section details refer to drawings: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0300 to 0305

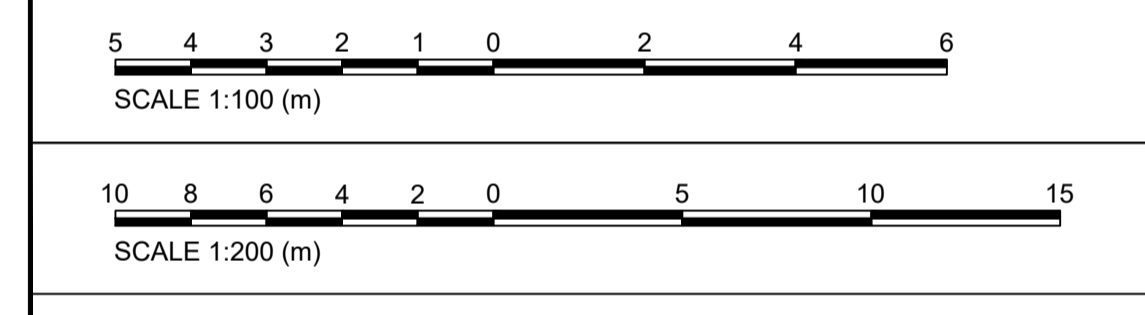
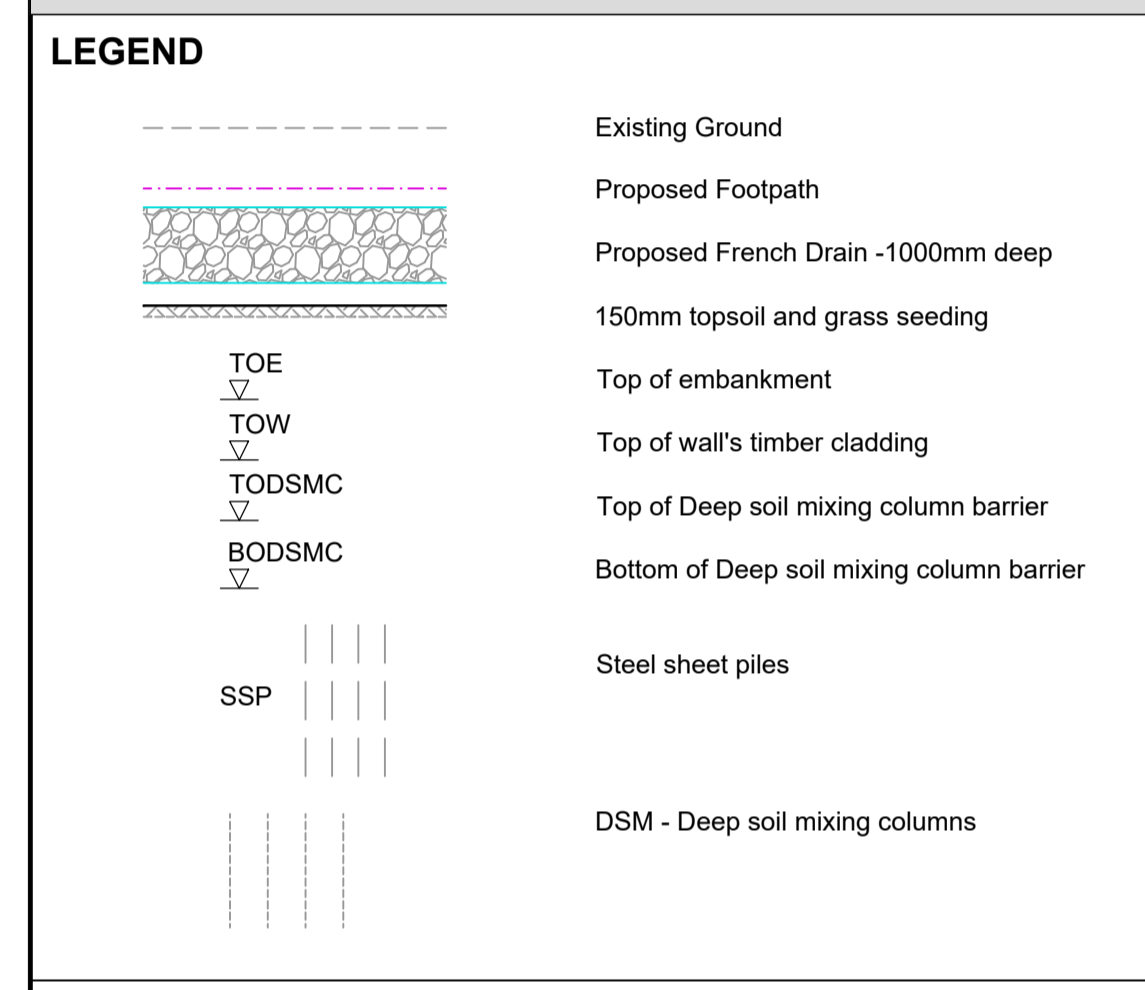
SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RISKS. TO BE READ IN CONJUNCTION WITH THE HAZARD ELIMINATION AND RISK REDUCTION REGISTER (HERRR) ENVIMSE500194-JAC-ZZ-00-RA-C-0001.

CONSTRUCTION

11		UXO
28		Interaction with public
48		Contaminated land

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT



P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF
Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver

Document Control



Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
Sanway Byfleet Longitudinal Profile Sheet 3



Parent Model
ENVIMSE500194-JAC-DE-3E0-DR-C-0312.dwg

Security Classification
Official

Scale

Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
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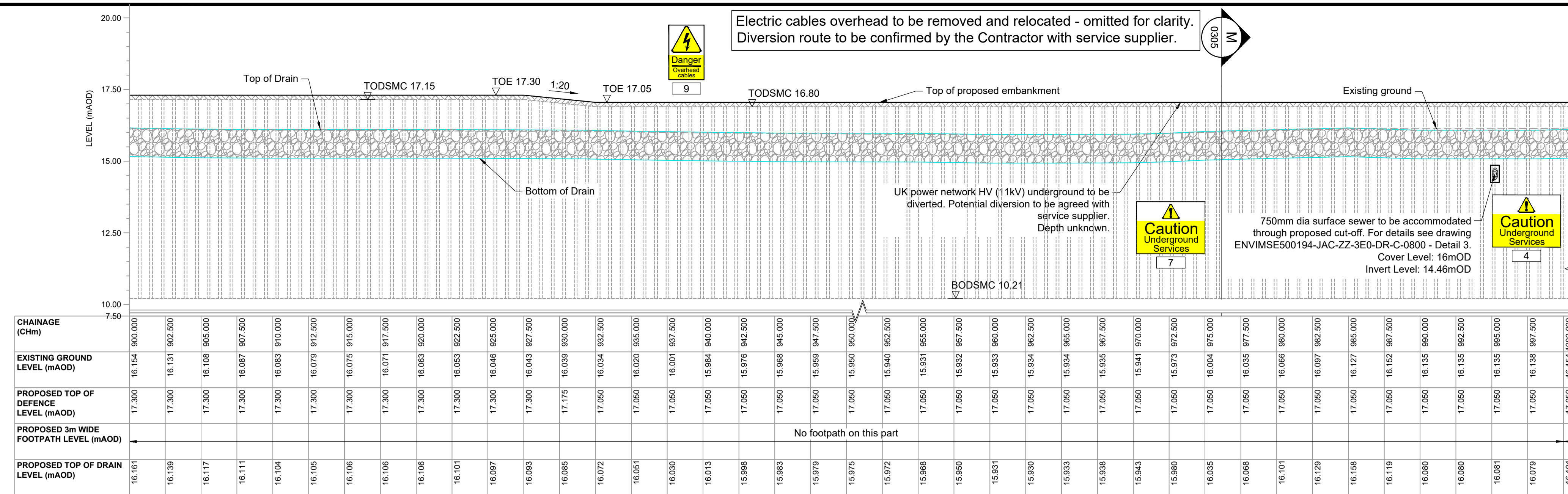
Suitability
S3 - Suitable for review and comment

Information Container
ENVIMSE500194-JAC-DE-3E0-DR-C-0312

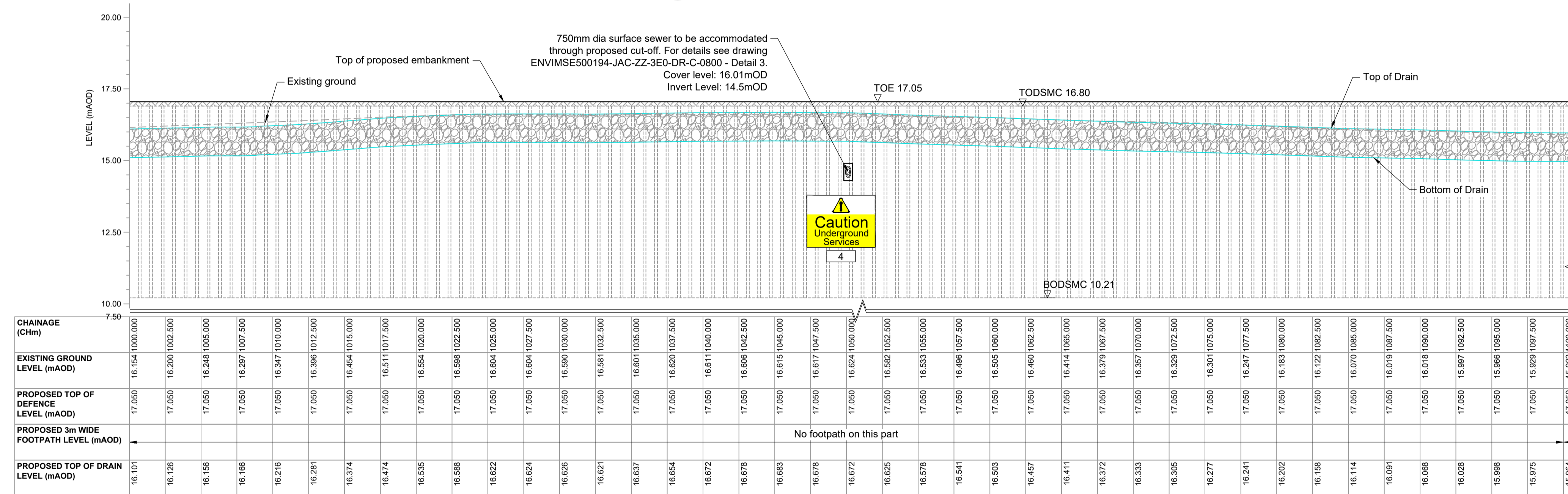
Status
S3

Revision
P01

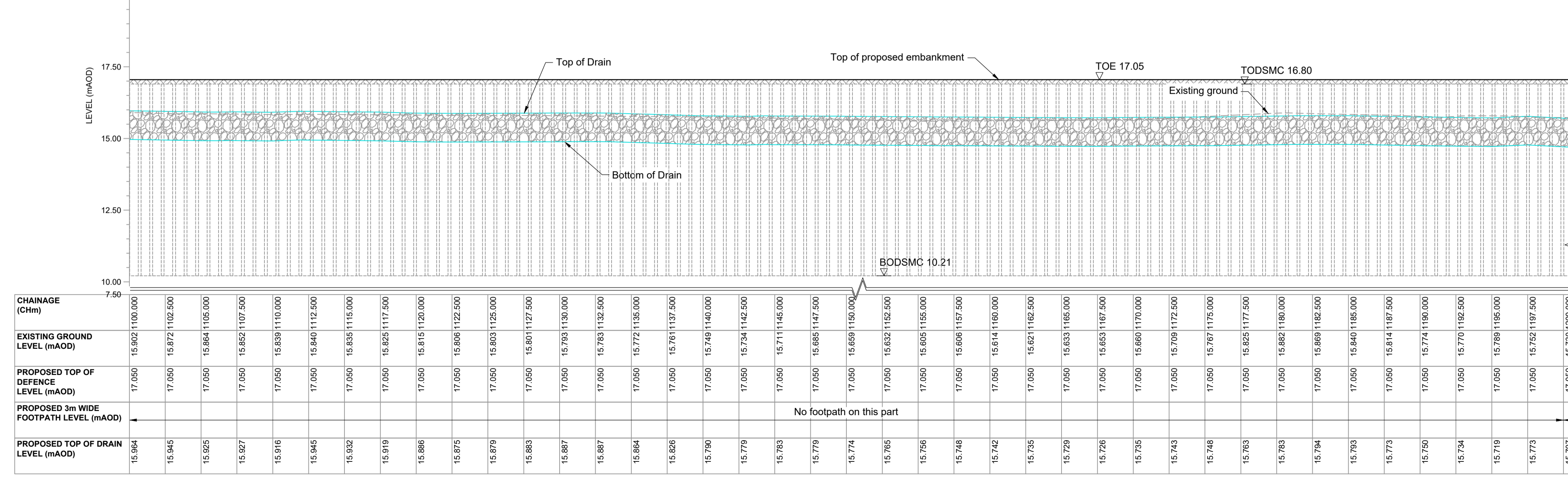
A1 Sheet Size



1 Longitudinal Section Ch 900 - 1000
SCALE: VERTICAL 1:100; HORIZONTAL 1:200



2 Longitudinal Section Ch 1000 - 1100
SCALE: VERTICAL 1:100; HORIZONTAL 1:200



3 Longitudinal Section Ch 1100 - 1200
SCALE: VERTICAL 1:100; HORIZONTAL 1:200

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 - For further design details, refer to asset plan drawings:
ENVIMSE500194-JAC-ZZ-3E0-DR-C-0200 to 0224
ENVIMSE500194-JAC-ZZ-3E0-DR-C-0300 to 0305
- For continuation refer to longitudinal profile below

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

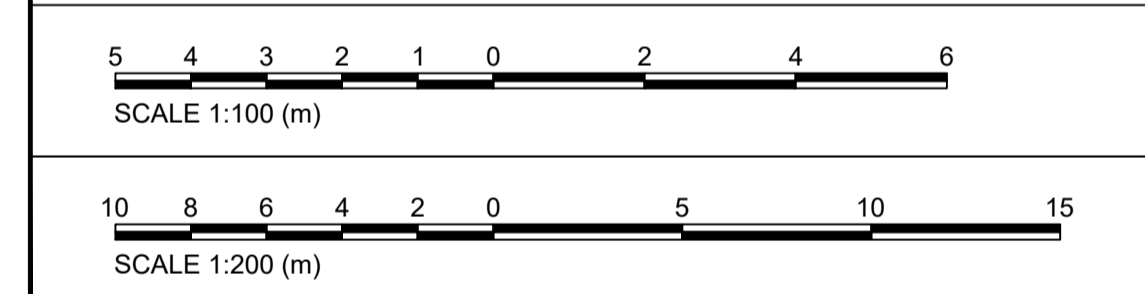
IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RISKS. TO BE READ IN CONJUNCTION WITH THE HAZARD ELIMINATION AND RISK REDUCTION REGISTER (HERRR) ENVIMSE500194-JAC-ZZ-00-RA-C-0001.

CONSTRUCTION	HAZARD / RISK
2	Existing land drains
4 to 8	Underground services
9	UK Power Network (overhead)
11	UXO
21	Works near river bank
28	Interaction with public

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

LEGEND

	Existing Ground
	Proposed Footpath
	Proposed French Drain -1000mm deep
	150mm topsoil and grass seeding
	TOE
	TOW
	TODSMC
	BODSMC
	SSP
	Steel sheet piles
	DSM - Deep soil mixing columns



Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF



Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
Sanway Byfleet Longitudinal Profile Sheet 4

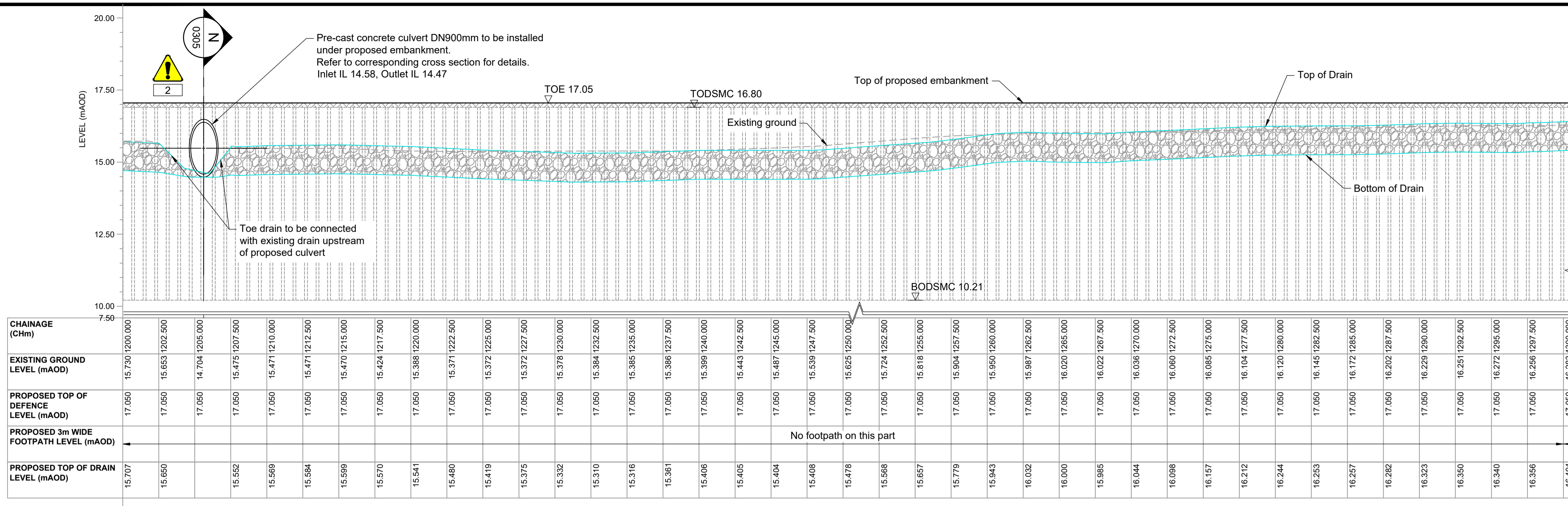
Environment Agency logo

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Parent Model
ENVIMSE500194-JAC-DE-3E0-DR-C-0313.dwg

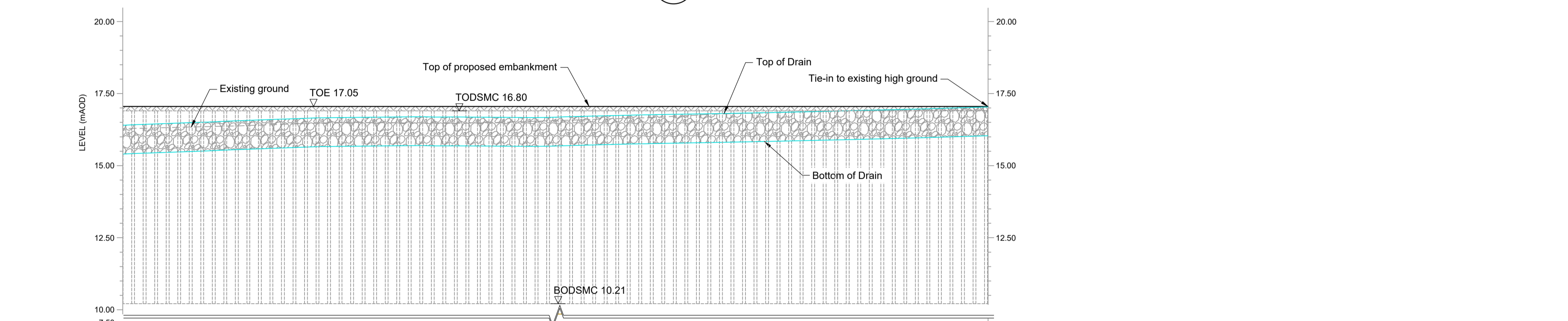
Security Classification Official	Scale
Originator J. GORAL	Checker J. ALVAREZ GARCIA
Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment	Status S3
Information Container ENVIMSE500194-JAC-DE-3E0-DR-C-0313	Revision P01

A1 Sheet Size



CHAINAGE (Chm)	EXISTING GROUND LEVEL (mAOD)	PROPOSED TOP OF DEFENCE LEVEL (mAOD)	PROPOSED 3m WIDE FOOTPATH LEVEL (mAOD)	PROPOSED TOP OF DRAIN LEVEL (mAOD)
15.730	1200.000	17.050		15.707
15.750	1202.500	17.050		15.650
15.770	1205.000	17.050		15.552
15.790	1207.500	17.050		15.509
15.810	1210.000	17.050		15.584
15.830	1212.500	17.050		15.599
15.850	1215.000	17.050		15.570
15.870	1217.500	17.050		15.541
15.890	1220.000	17.050		15.480
15.910	1222.500	17.050		15.419
15.930	1225.000	17.050		15.375
15.950	1227.500	17.050		15.332
15.970	1230.000	17.050		15.310
15.990	1232.500	17.050		15.316
16.010	1235.000	17.050		15.361
16.030	1237.500	17.050		15.406
16.050	1240.000	17.050		15.405
16.070	1242.500	17.050		15.404
16.090	1245.000	17.050		15.408
16.110	1247.500	17.050		15.478
16.130	1250.000	17.050		15.568
16.150	1252.500	17.050		15.657
16.170	1255.000	17.050		15.779
16.190	1257.500	17.050		15.943
16.210	1260.000	17.050		16.032
16.230	1262.500	17.050		16.000
16.250	1265.000	17.050		15.985
16.270	1267.500	17.050		16.044
16.290	1270.000	17.050		16.098
16.310	1272.500	17.050		16.157
16.330	1275.000	17.050		16.212
16.350	1277.500	17.050		16.244
16.370	1280.000	17.050		16.253
16.390	1282.500	17.050		16.257
16.410	1285.000	17.050		16.282
16.430	1287.500	17.050		16.323
16.450	1290.000	17.050		16.350
16.470	1292.500	17.050		16.340
16.490	1295.000	17.050		16.356
16.510	1297.500	17.050		16.401
16.530	1300.000	17.050		

1 Longitudinal Section Ch 1200 - 1300
SCALE: VERTICAL 1:100; HORIZONTAL 1:200



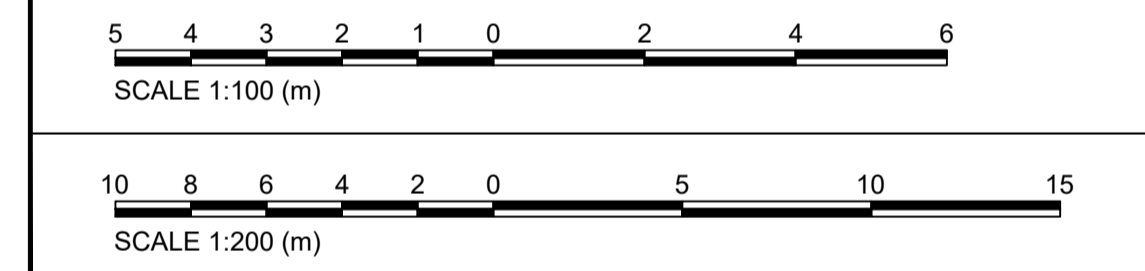
CHAINAGE (Chm)	EXISTING GROUND LEVEL (mAOD)	PROPOSED TOP OF DEFENCE LEVEL (mAOD)	PROPOSED 3m WIDE FOOTPATH LEVEL (mAOD)	PROPOSED TOP OF DRAIN LEVEL (mAOD)
16.283	1300.000	17.050		16.401
16.303	1302.500	17.050		16.451
16.323	1305.000	17.050		16.496
16.343	1307.500	17.050		16.548
16.363	1310.000	17.050		16.593
16.383	1312.500	17.050		16.639
16.403	1315.000	17.050		16.667
16.423	1317.500	17.050		16.679
16.443	1320.000	17.050		16.692
16.463	1322.500	17.050		16.686
16.483	1325.000	17.050		16.680
16.503	1327.500	17.050		16.671
16.523	1330.000	17.050		16.661
16.543	1332.500	17.050		16.715
16.563	1335.000	17.050		16.747
16.583	1337.500	17.050		16.773
16.603	1340.000	17.050		16.794
16.623	1342.500	17.050		16.818
16.643	1345.000	17.050		16.841
16.663	1347.500	17.050		16.869
16.683	1350.000	17.050		16.898
16.703	1352.500	17.050		16.929
16.723	1355.000	17.050		16.961
16.743	1357.500	17.050		16.998
16.763	1360.000	17.050		17.035

2 Longitudinal Section Ch 1200 - 1360
SCALE: VERTICAL 1:100; HORIZONTAL 1:200

- General Notes**
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 - All co-ordinates are in metres relative to Ordnance Survey national grid.
 - Do not scale from this drawing. All dimensions must be checked / verified on site.
 - Toe level of proposed embankment on dry side should be the same as top level of proposed drain.
 - For further design details, refer to asset plan drawings: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0200 to 0224
 - For cross section details refer to drawings: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0300 to 0305

LEGEND

- Existing Ground
- Proposed Footpath
- Proposed French Drain -1000mm deep
- 150mm topsoil and grass seeding
- TOE
- TOW
- TODSMC
- BODSMC
- SSP
- DSM - Deep soil mixing columns
- Top of embankment
- Top of wall's timber cladding
- Top of Deep soil mixing column barrier
- Bottom of Deep soil mixing column barrier
- Steel sheet piles



Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF



Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
Sanway Byfleet Longitudinal Profile Sheet 5



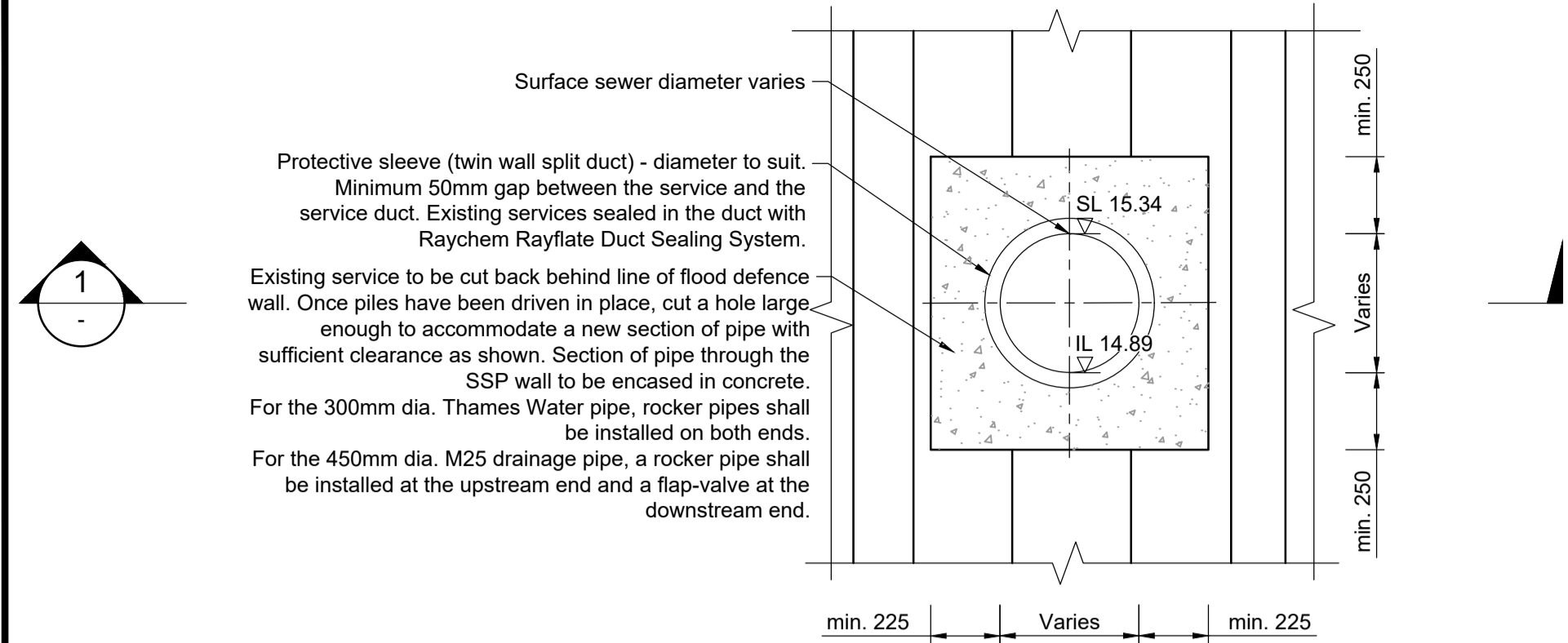
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Security Classification Official			
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment		Status S3	Revision P01
Information Container ENVIMSE500194-JAC-DE-3E0-DR-C-0314		A1 Sheet Size	

SAFETY, HEALTH, ENVIRONMENTAL, AND WELFARE INFORMATION

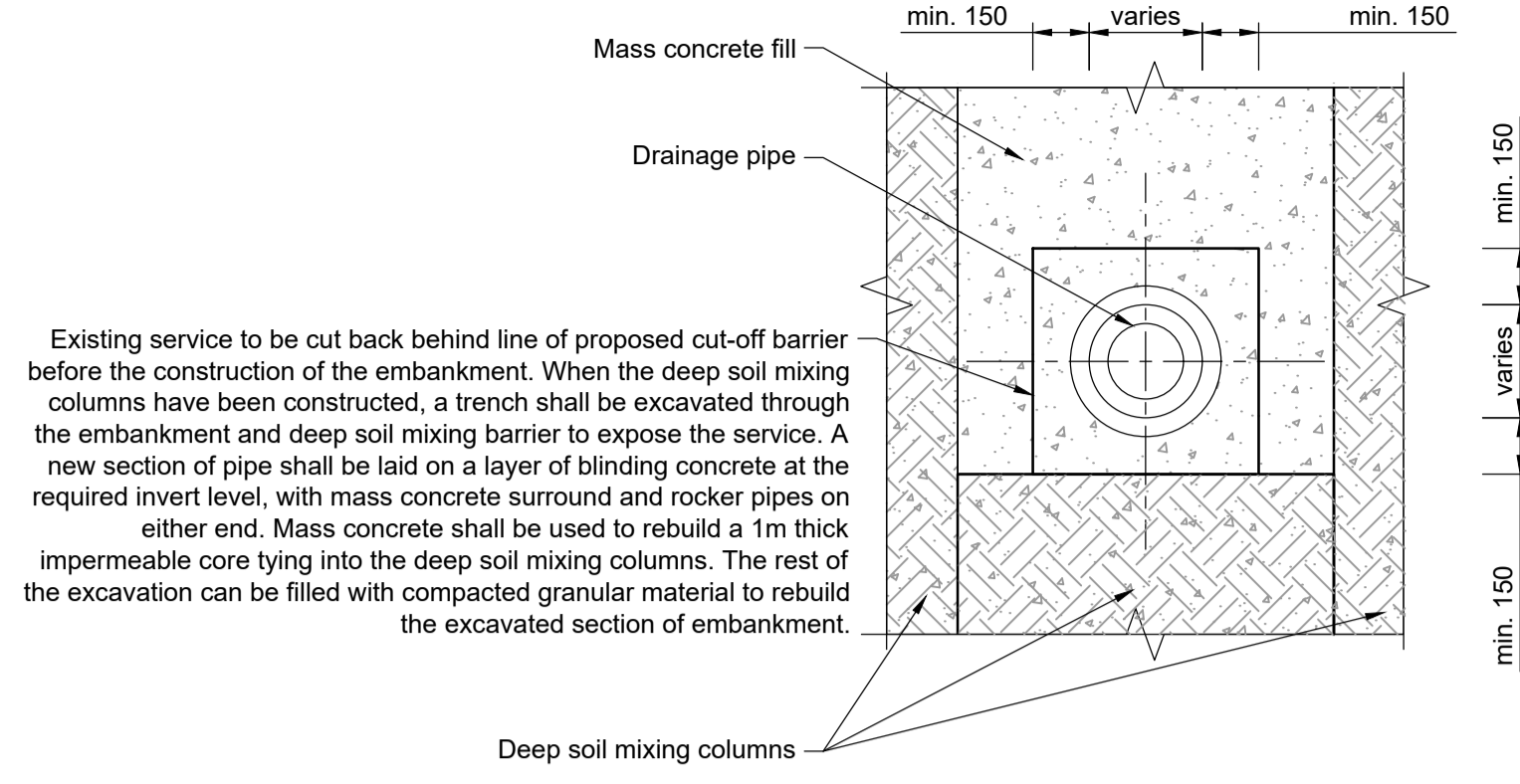
IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RISKS. TO BE READ IN CONJUNCTION WITH THE HAZARD ELIMINATION AND RISK REDUCTION REGISTER (HERRR) ENVIMSE500194-JAC-ZZ-00-RA-C-0001.

CONSTRUCTION	DESCRIPTION
2	Existing land drains
11	UXO
21	Works near river bank
28	Interaction with public

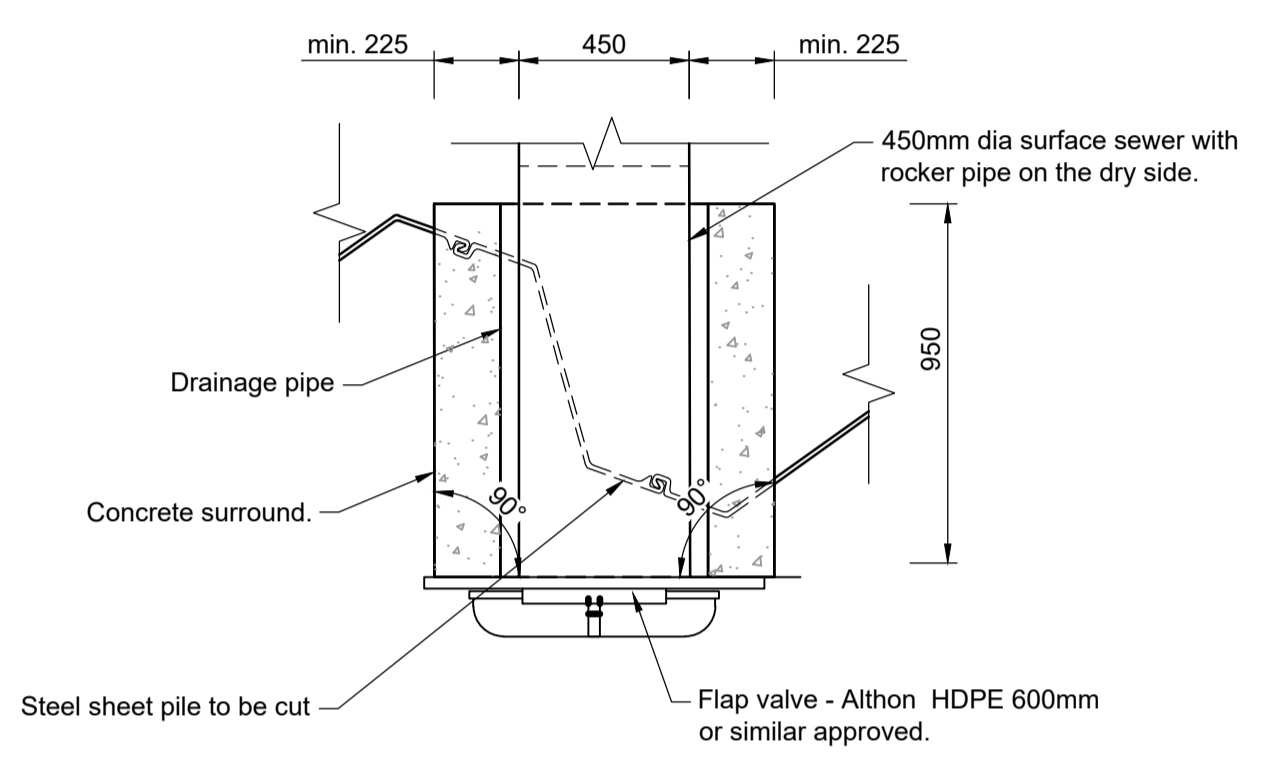
IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT



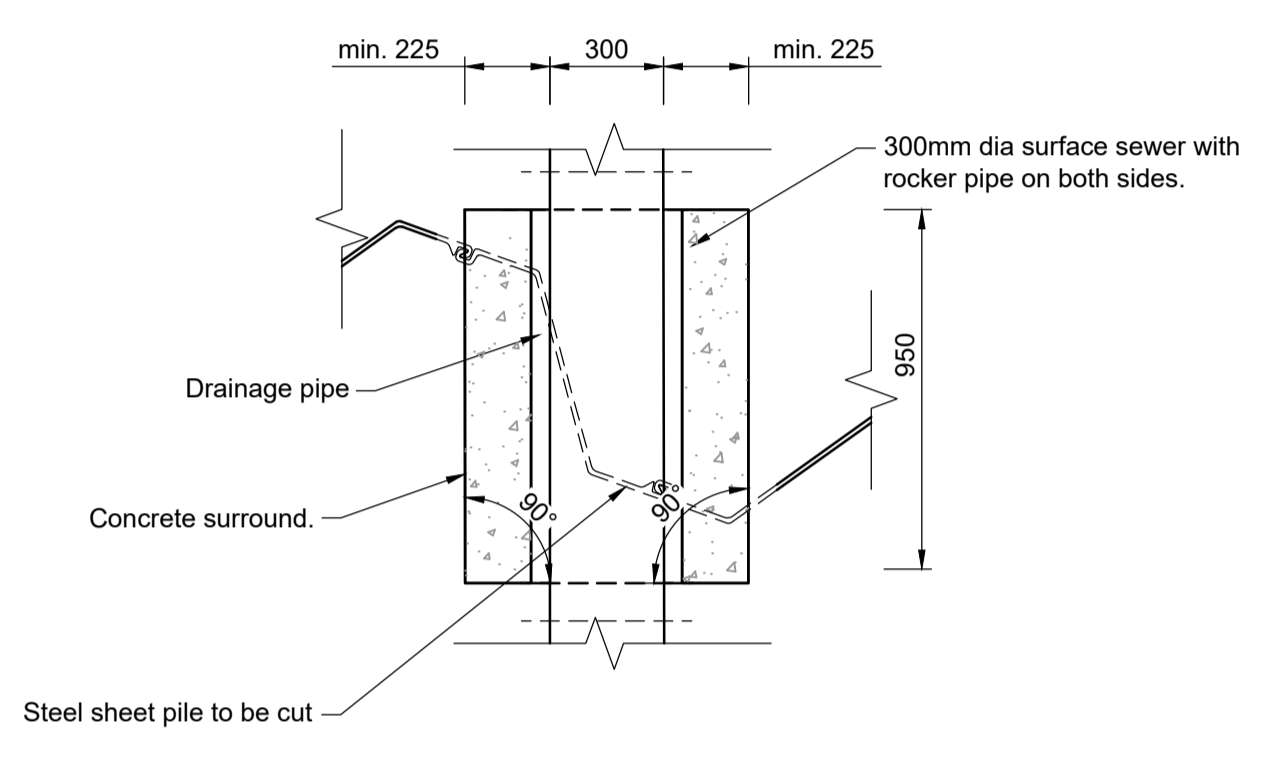
1 Detail 1 - Standard detail of a drainage pipe crossing the SSP wall
SCALE 1:20



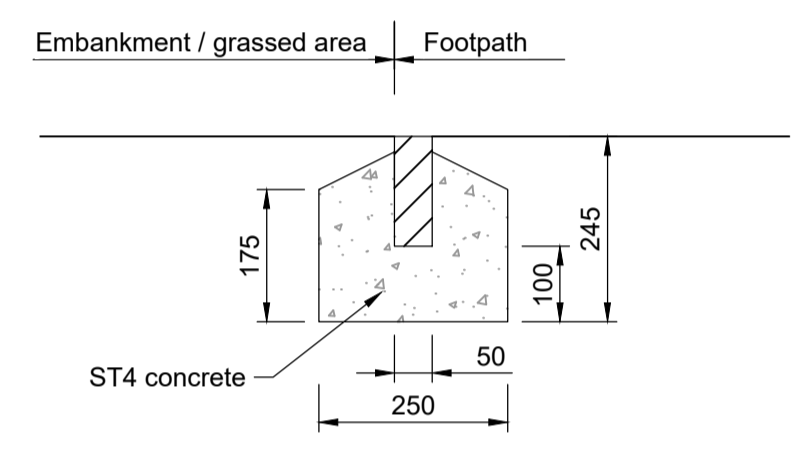
6 Detail 3 - Standard detail of a drainage pipe crossing the soil mixing cut-off
SCALE 1:20



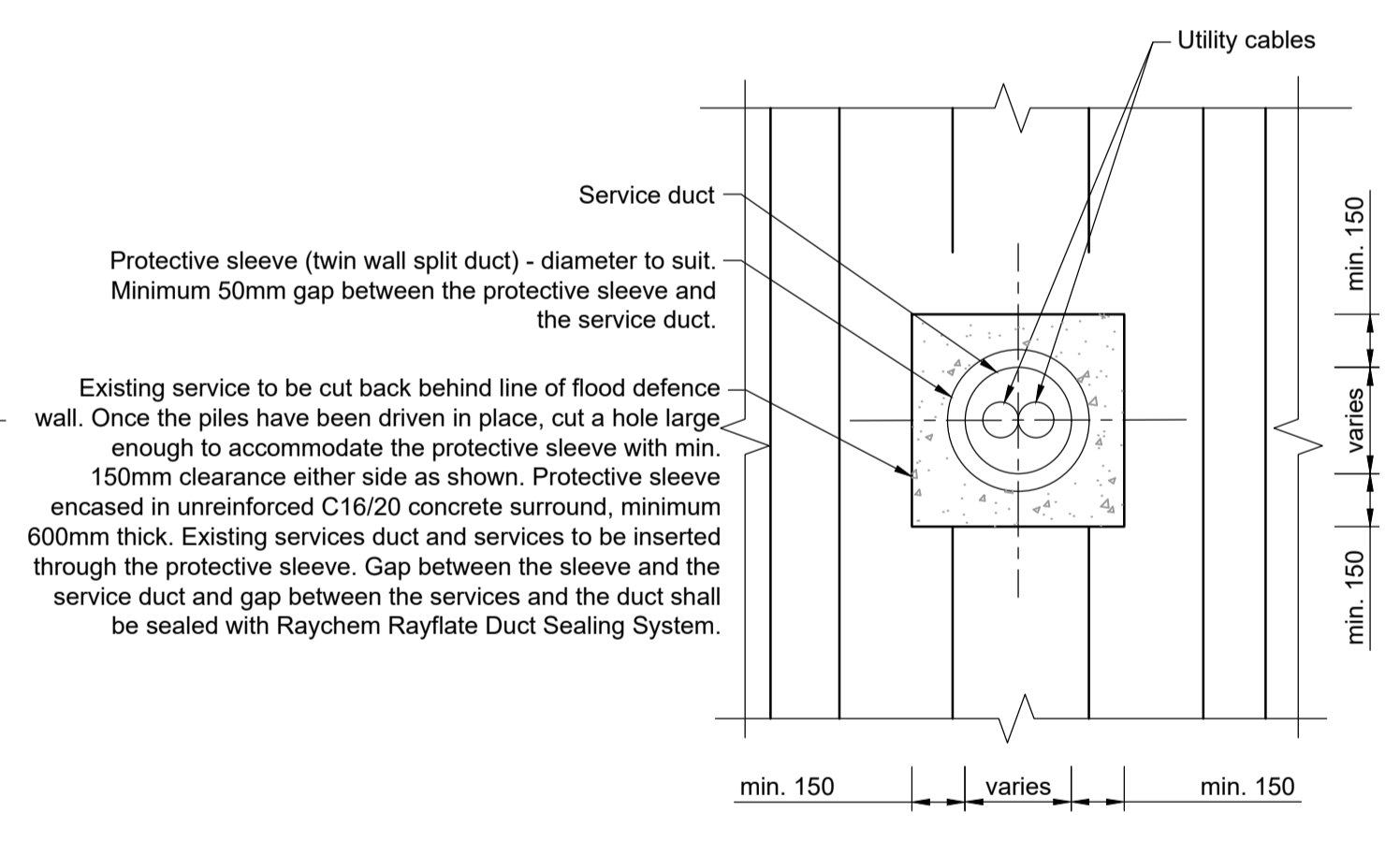
2 Section 1 - for pipe 450mm dia
SCALE 1:20



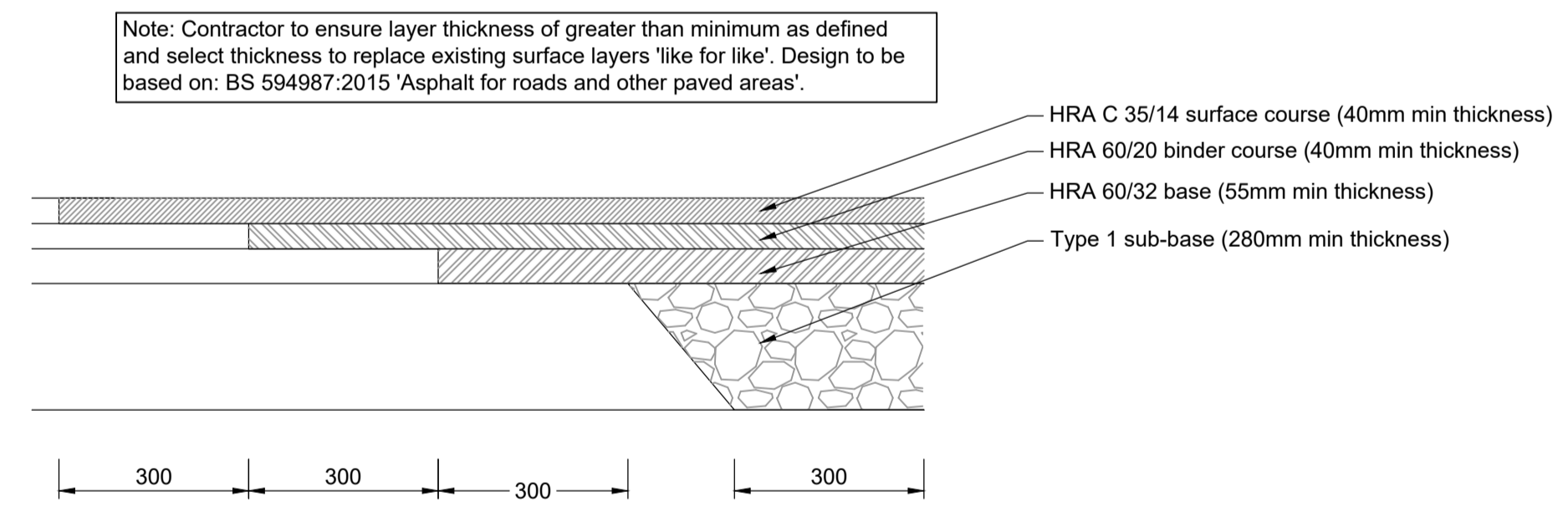
3 Section 1 - for pipe 300mm dia
SCALE 1:20



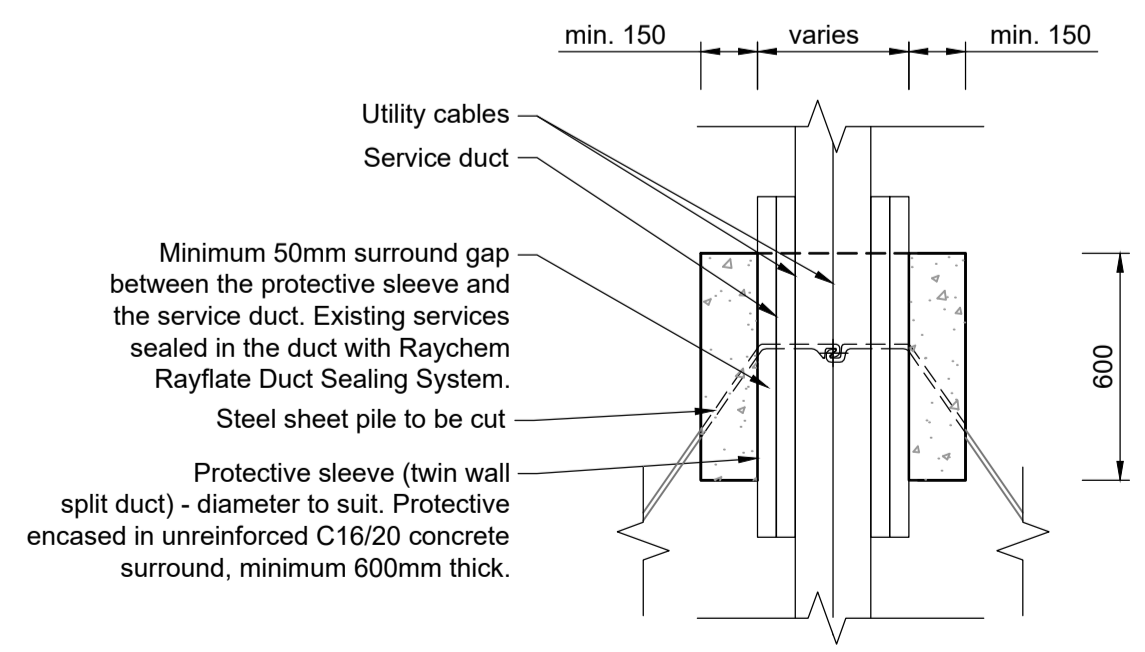
7 Detail 5 - Edging kerb separate footpath area - D
SCALE 1:10



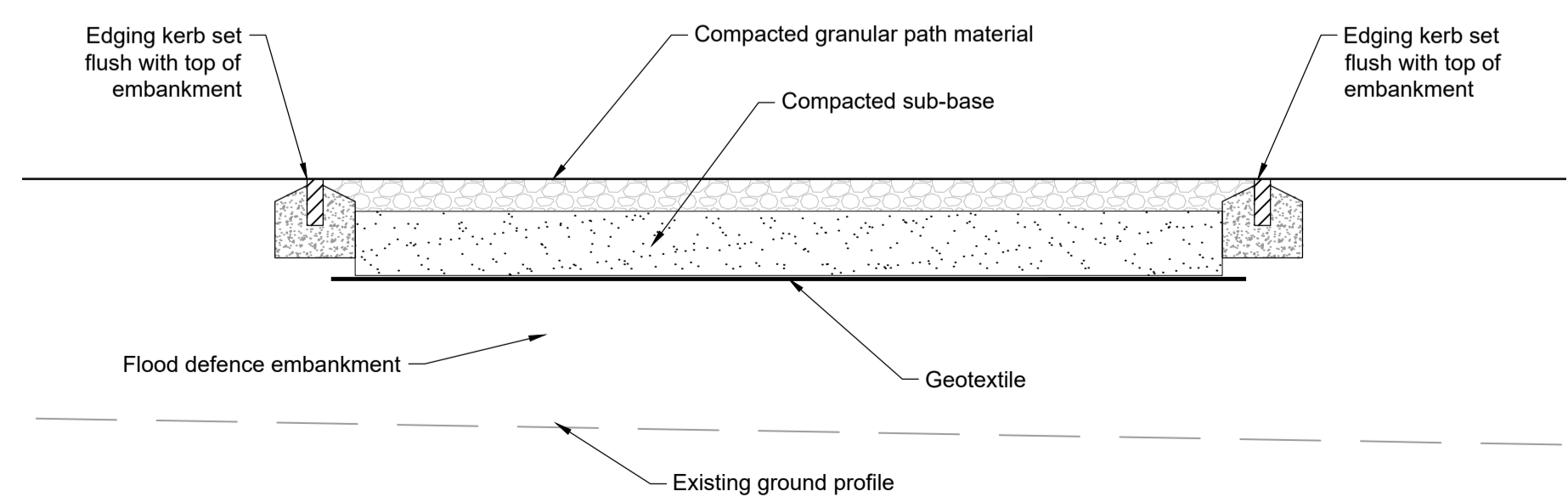
4 Detail 2 - Typical service penetration detail through the SSP
SCALE 1:20



8 Detail 4 - Typical tie-in arrangement on dry side of steel sheet pile wall - ch.52.5 to ch92.3
SCALE 1:10

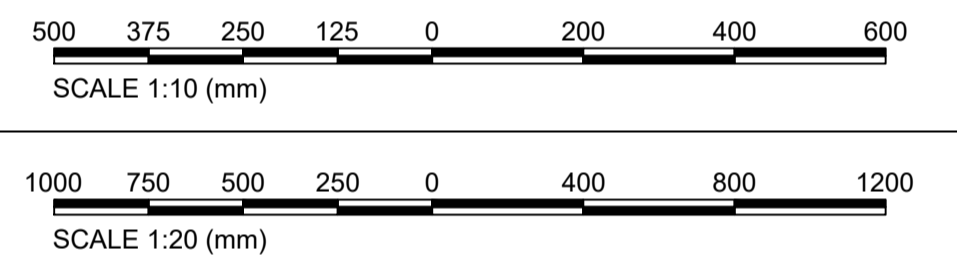


5 Section 2
SCALE 1:20



9 Detail 6 - Typical path
SCALE 1:20

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Rev.	Sta.	Description	Date	Originator	Checker	Reviewer	Approver
P01	S3	DD1 - FOR CLIENT COMMENTS	27/09/23	JG	JA	JA	SF

Document Control

Jacobs.

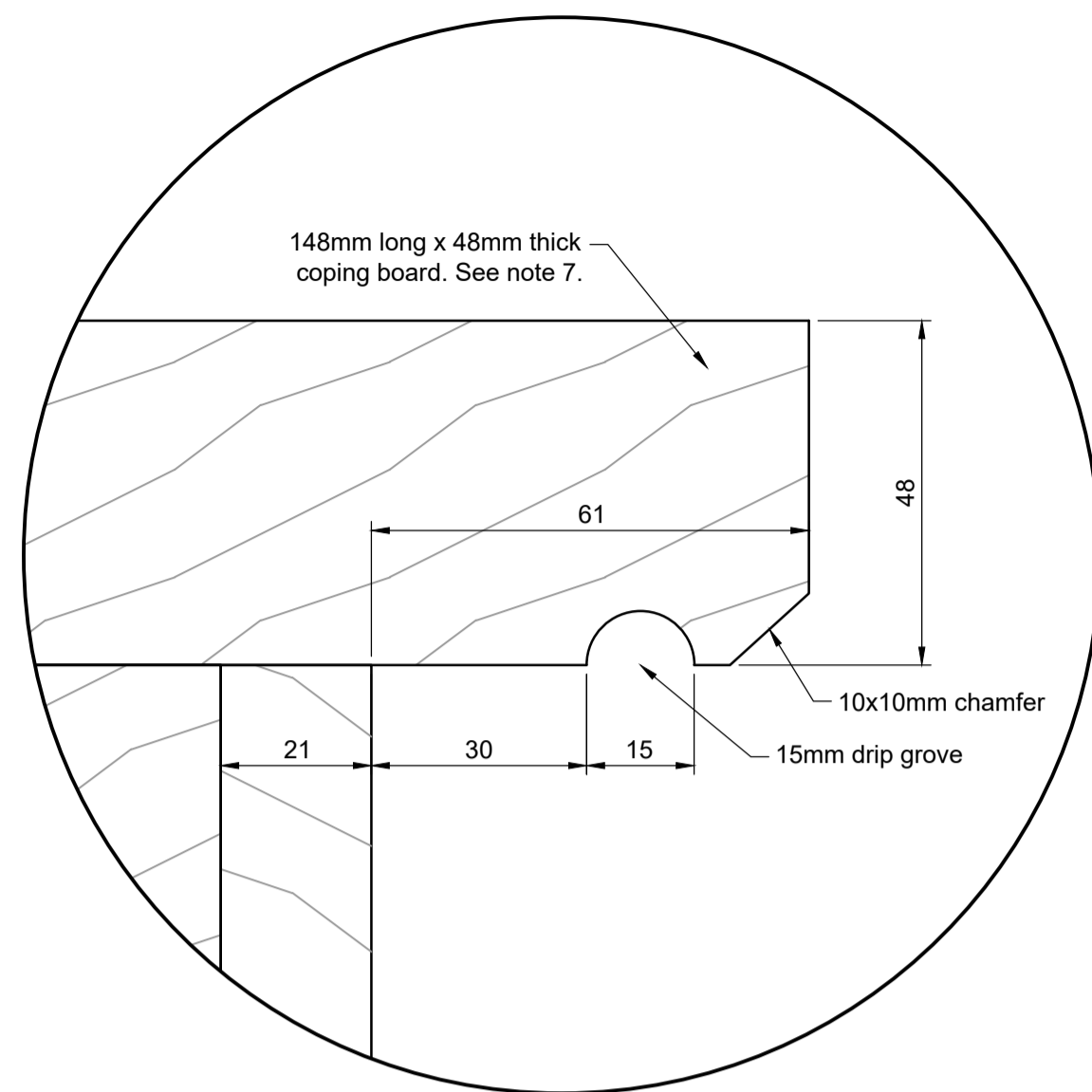
Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
**Linear Defences
Typical Details
Sheet 1**

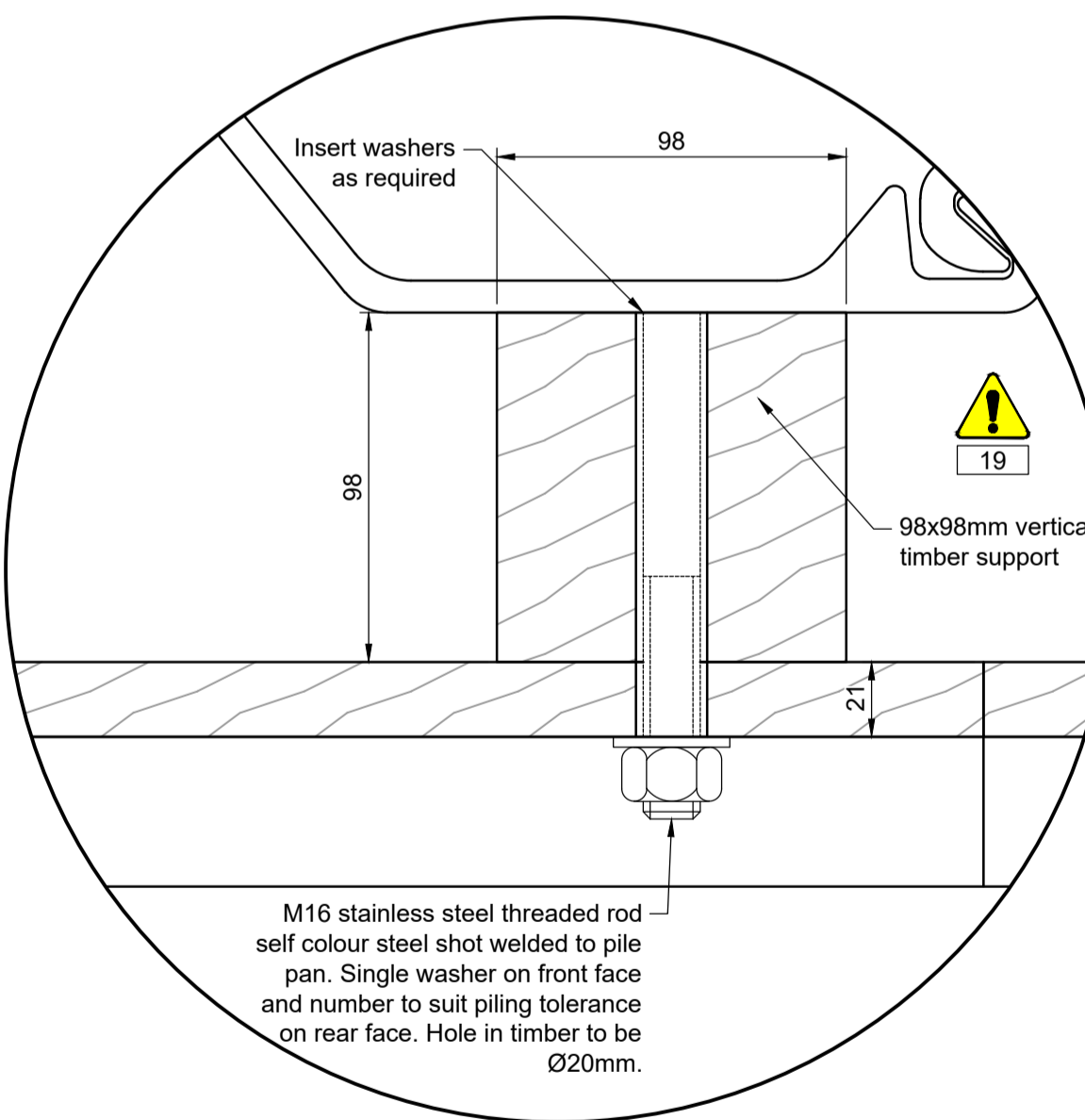


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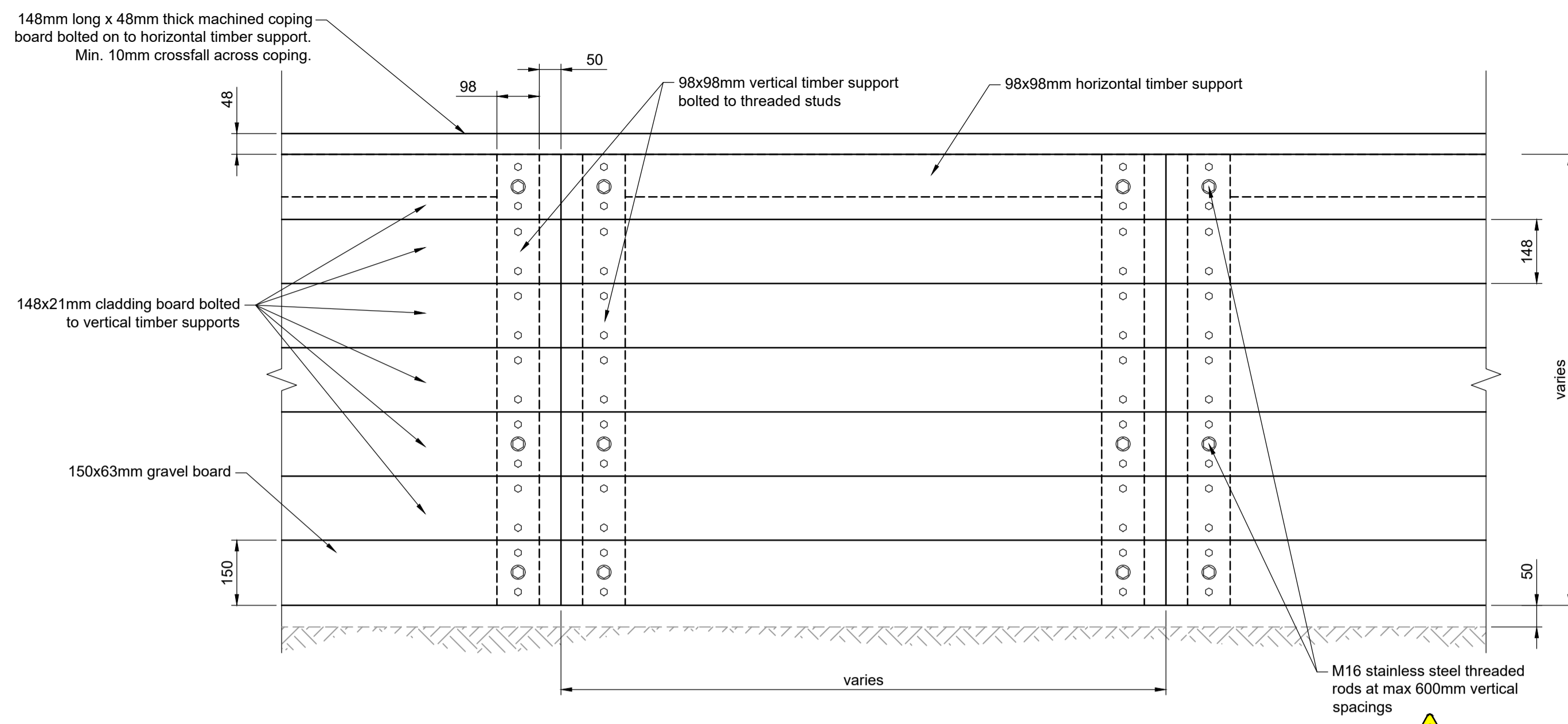
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Security Classification Official		Scale	
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment		Status S3	Revision P01
Information Container ENVIMSE500194-JAC-ZZ-3E0-DR-C-0800		A1 Sheet Size	



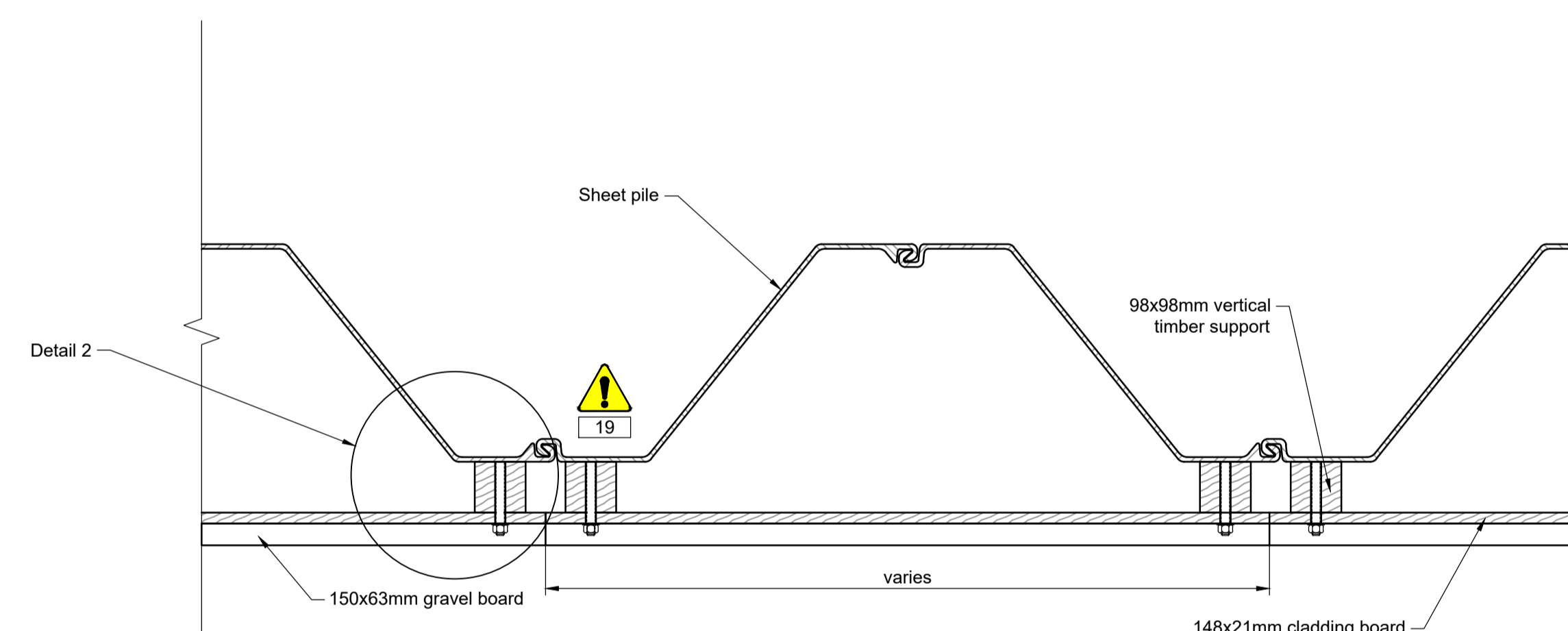
1 Detail 1
0300 SCALE 1:1



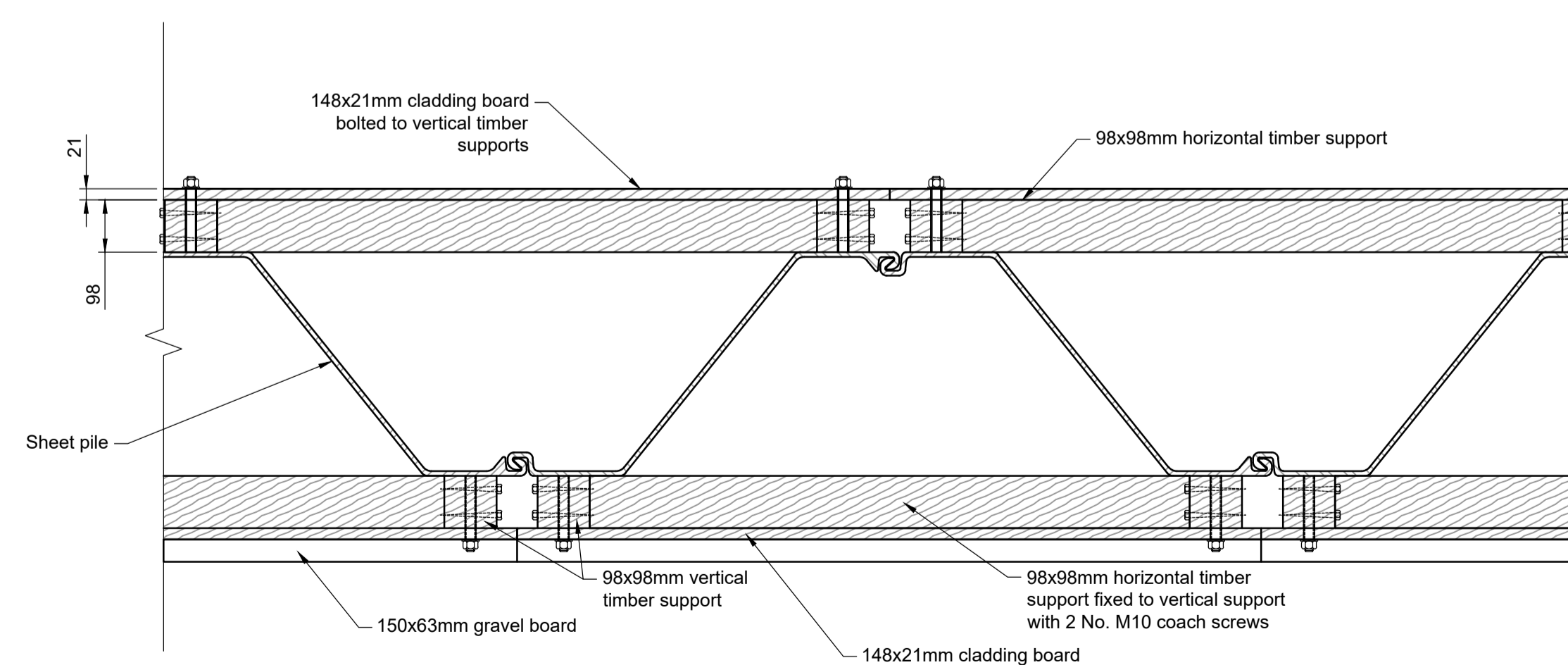
2 Detail 2
0801 SCALE 1:2



3 Pile timber cladding elevation
0300 SCALE 1:10



4 Pile timber cladding - section A
0300 SCALE 1:10



5 Pile timber cladding - section B
0300 SCALE 1:10

General Notes

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- All co-ordinates are in metres relative to Ordnance Survey national grid.
- Do not scale from this drawing. All dimensions must be checked / verified on site.
- This drawing is to be read in conjunction with:
 - General arrangement drawing: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0100
 - Asset plan: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0200, 0201 and 0224
 - Longitudinal profile drawing: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0310
 - Detail drawing: ENVIMSE500194-JAC-ZZ-3E0-DR-C-0300
- Steel sheet pile profile to be steel grade S 275.
- All atmospheric exposed steel surfaces prepared and painted to BS5493:
 - blast clean to sa2.5,
 - coat Egrip L425 zinc phosphate primer 75dft,
 - one coat Egrip M922 epoxy glass flake 350dft,
 - one coat Resistex C137 50dft colour 18B29 to BS4800.
- All timbers should be FSC certified and produced with EA procedures.
- All timbers should be rough sawn finished unless otherwise noted.
- All metal fixing should be stainless steel unless otherwise noted except of threaded rods.
- The Contractor shall submit a sample of the proposed timber to the Engineer for acceptance.
- The amount of cladding boards in section and length of vertical support to be adjusted by Contractor to existing ground.

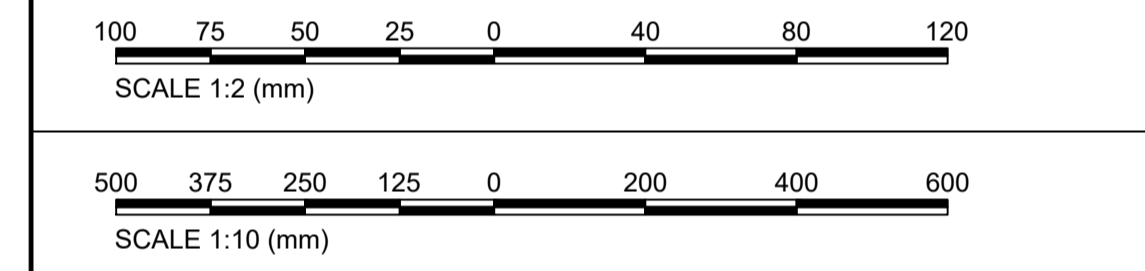
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CONSTRUCTION

19	Welding
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Document Control



Project Title
Sanway Byfleet Flood Alleviation Scheme - EA3-Design

Drawing Title
**Linear Defences
Typical Details
Sheet 2**



Parent Model ENVIMSE500194-JAC-ZZ-3E0-DR-C-0801.dwg			
Security Classification Official	Scale		
Originator J. GORAL	Checker J. ALVAREZ GARCIA	Reviewer J. ALVAREZ GARCIA	Approver S. FOWLER
Suitability S3 - Suitable for review and comment	Status S3	Revision P01	Information Container ENVIMSE500194-JAC-ZZ-3E0-DR-C-0801