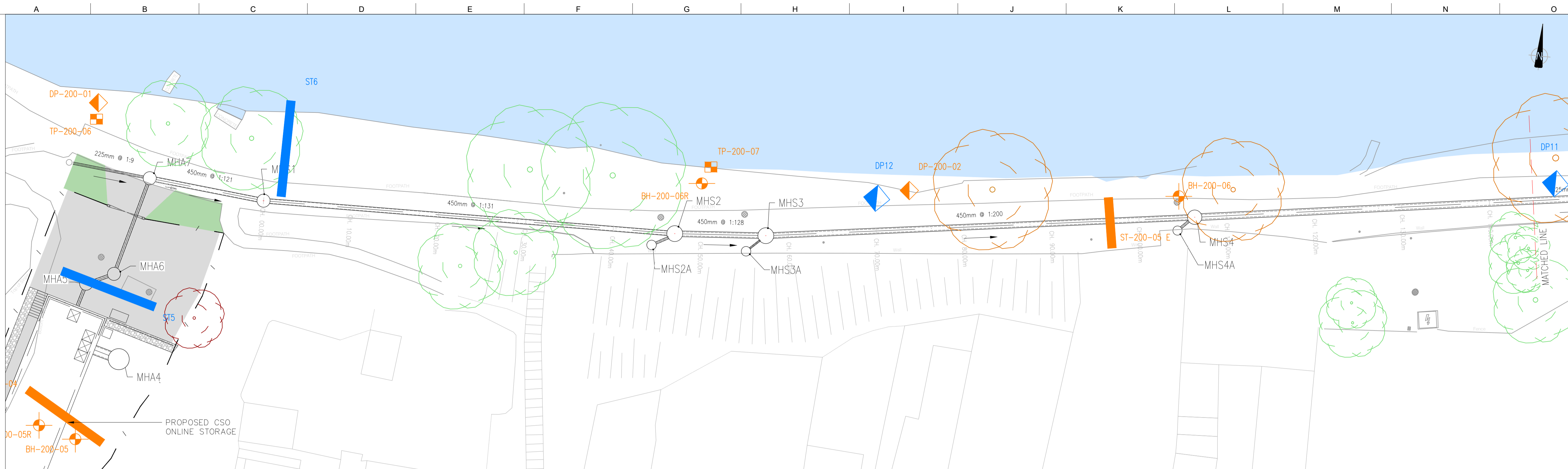


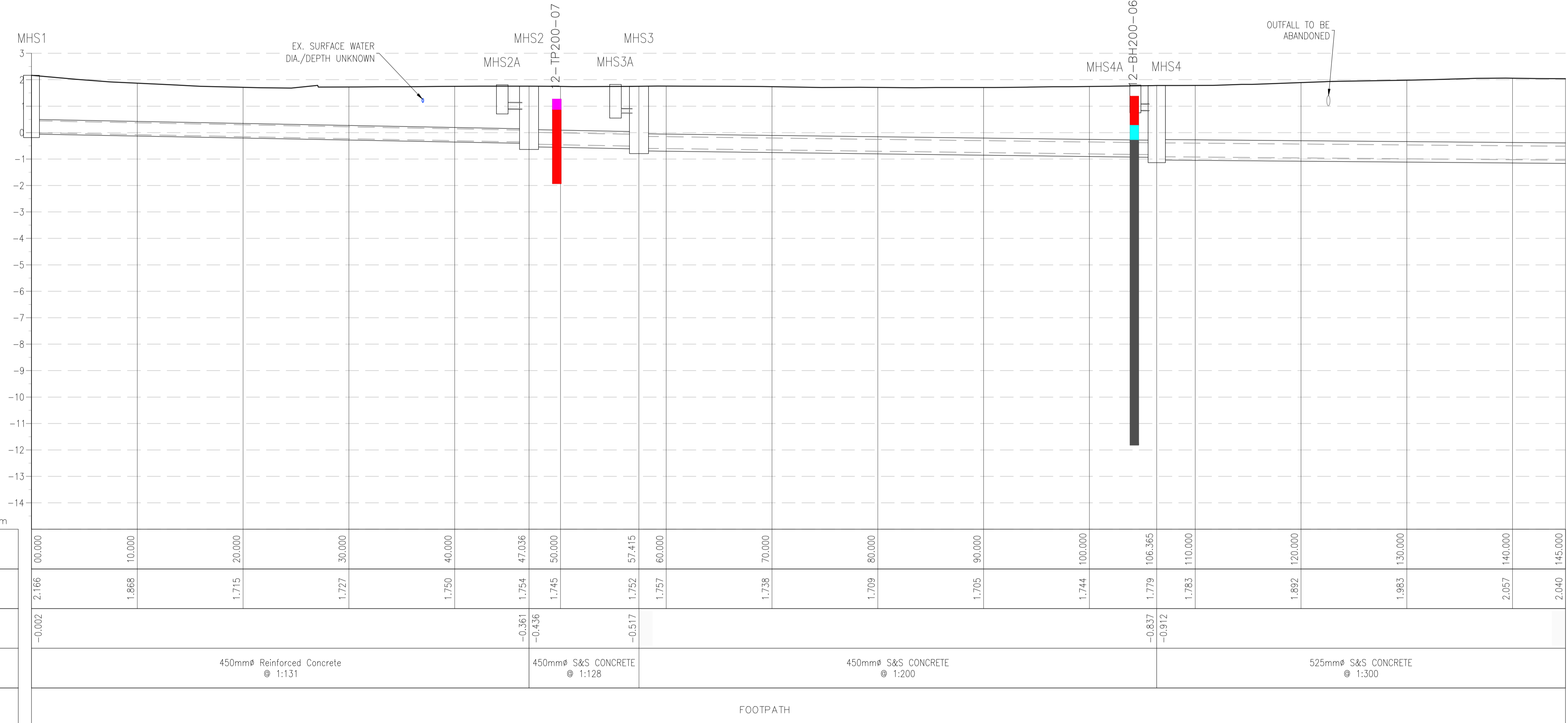
Appendix 14.7

Conceptual Site Model



LOCATION PLAN
SCALE: 1:250 @ A1

OS Ordnance Survey
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SOUTHERN INTERCEPTOR - LONGSECTION CH. 0-145M SCALE: H 1:250, V 1:100.

Iss	Date	Description	By	Chkd	Appd
D1	30.08	FOR PLANNING	JL	AD	AW

Client
Obeir | gomphahártaocht
Working in Partnership

Job Title
ARKLOW SEWERAGE SCHEME

Scale at A1
AS SHOWN

Discipline
CIVIL

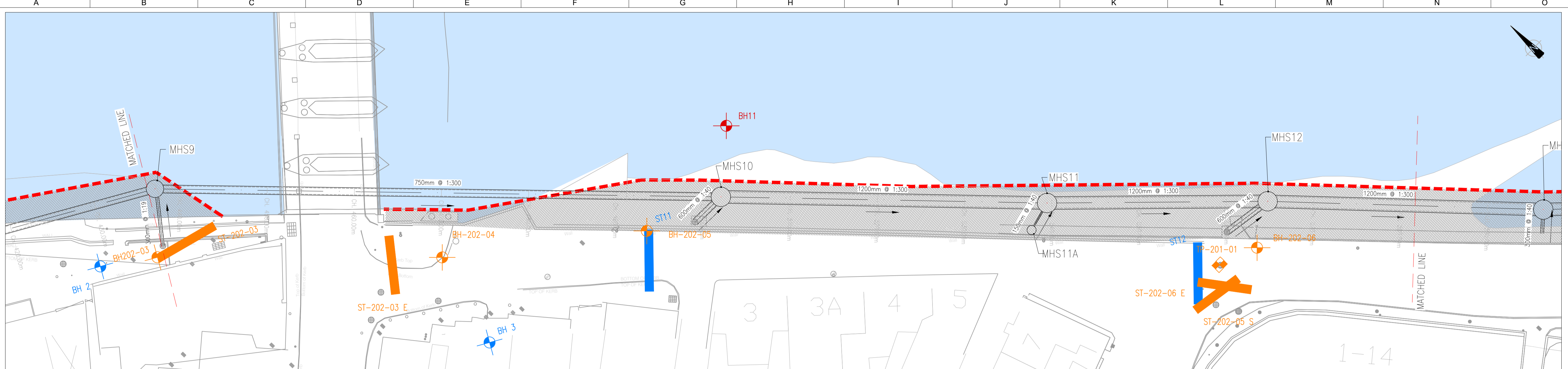
ARUP BYRNE LOOBY

"Arup, 50 Ringsend Road"
Dublin 4
Tel +353(0)1 233 4455 Fax +353(0)1 668 3169
www.arup.ie

Drawing Title
GEOTECHNICAL LAYOUT PLAN & LONGITUDINAL SECTION
1 OF 16

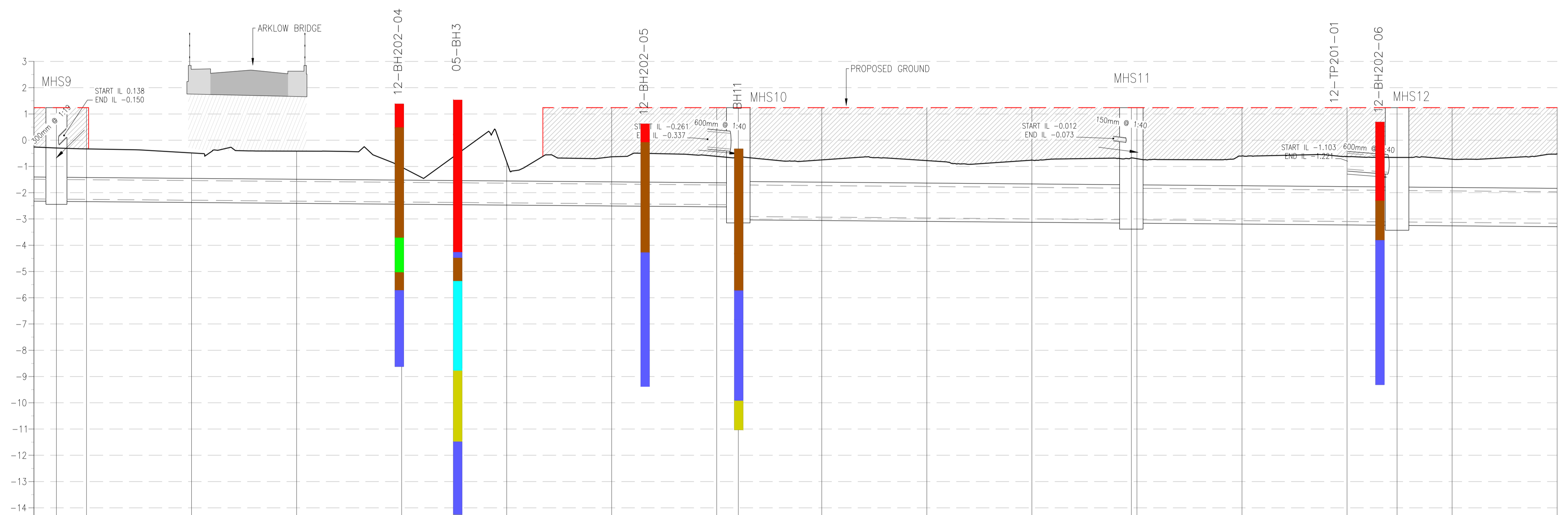
Drawing Status
FOR PLANNING

Job No 247825-00	Drawing No C-IS-1320	Issue D1
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LOCATION PLAN SCALE: 1: 250 @ A1

Ordnance Survey Ireland
 Reproduced from the Ordnance Survey of Ireland by Permission of the Government. Licence No. 3-3-34



DATUM -15.00m	
CHAINAGE	435.000, 435.138, 440.000, 450.000, 460.000, 470.000, 480.000, 490.000, 500.000, 502.051, 510.000, 520.000, 530.000, 538.655, 546.655, 550.000, 560.000, 564.762, 570.000, 580.000
EXISTING GROUND LEVEL (m)	-0.260, -0.236, -0.331, -0.486, -0.416, -1.025, -0.826, -0.632, -0.616, -0.650, -0.751, -0.778, -0.759, -0.676, -0.601, -0.620, -0.657, -0.724, -0.520
PROPOSED GROUND LEVEL (m)	1.240, 1.240, 1.240, 1.240, 1.240, 1.240, 1.240, 1.240, 1.240, 1.240, 1.240, 1.240, 1.240, 1.240, 1.240, 1.240, 1.240, 1.240, 1.240
MH INVERT LEVEL (m)	-2.245, -2.461, -2.904, -3.029, -3.113
PIPE TYPE & GRADE	750mm S&S CONCRETE @ 1:233, 750mm S&S CONCRETE @ 1:300, 1200mm S&S CONCRETE @ 1:300, 1200mm S&S CONCRETE @ 1:300, 1200mm S&S CONCRETE @ 1:300
LOCATION	RECLAIMED SHEETPILED AREA, RECLAIMED SHEETPILED AREA, RECLAIMED SHEETPILED AREA

SOUTHERN INTERCEPTOR - LONGSECTION CH. 435-580M SCALE: H 1:250, V 1:100.

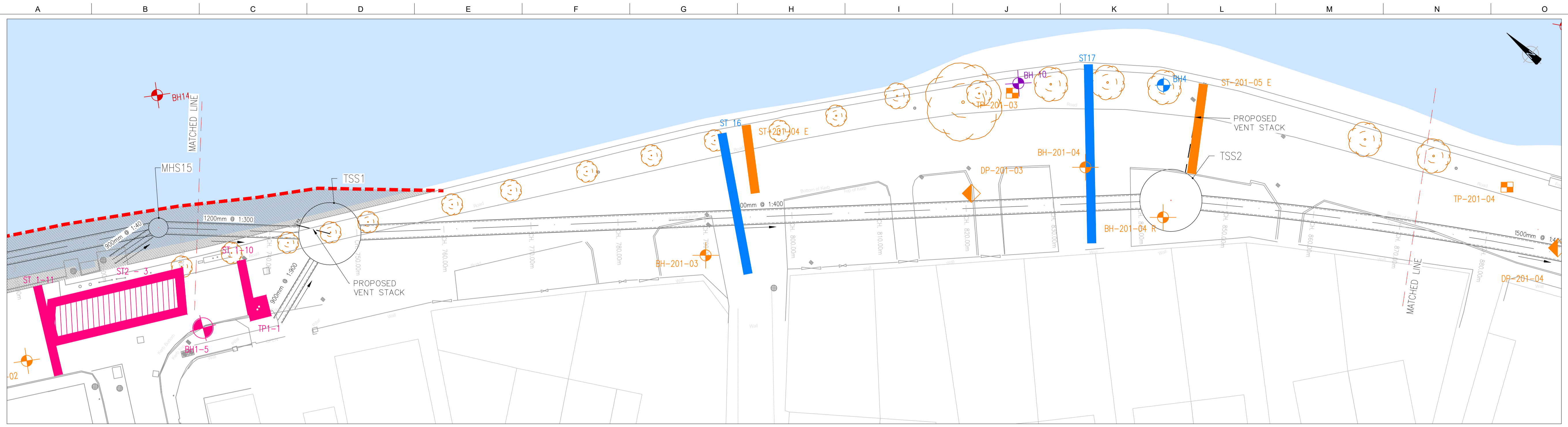
Iss	Date	Description	By	Chkd	Appd
D1	30.08	FOR PLANNING	JL	AD	AW

Client
 Obair I gcomhpháirtíocht Working in Partnership

Job Title
ARKLOW SEWERAGE SCHEME
 Scale at A1 AS SHOWN
 Discipline CIVIL

"Arup, 50 Ringsend Road"
 Dublin 4
 Tel +353(0)1 233 4455 Fax +353(0)1 668 3169
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Drawing Title
GEOTECHNICAL LAYOUT PLAN & LONGITUDINAL SECTION 4 OF 16
 Drawing Status
FOR PLANNING
 Job No 247825-00
 Drawing No C-IS-1323
 Issue D1

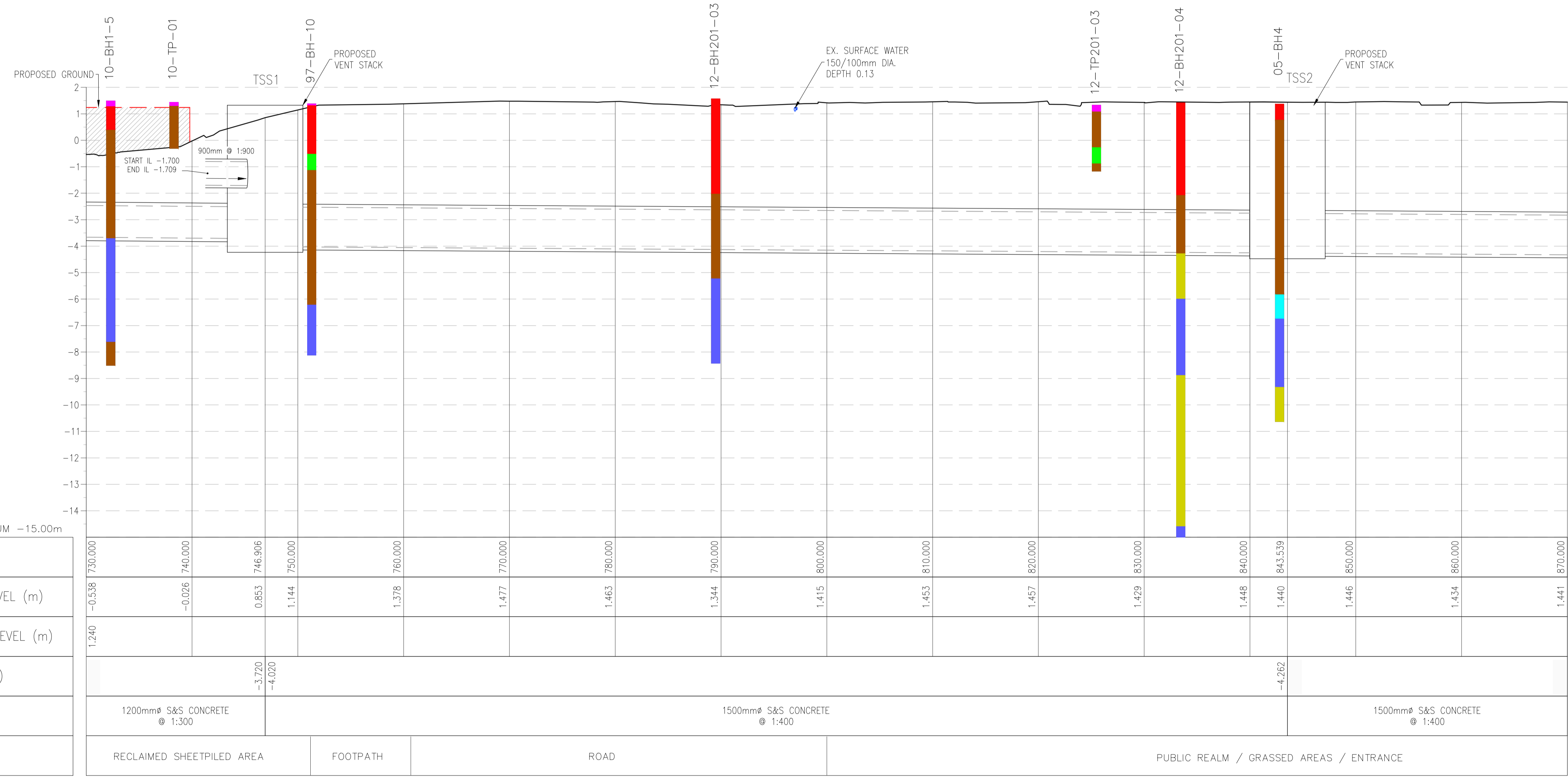


LEGEND

[Symbol]	COHESIVE ALLUVIUM
[Symbol]	COHESIVE GLACIAL TILL BOULDER CLAY
[Symbol]	DENSE SANDS AND GRAVELS
[Symbol]	DENSE CLAYEY SAND AND GRAVELS
[Symbol]	MEDIUM DENSE SANDS AND GRAVELS
[Symbol]	MADE GROUND
[Symbol]	SOFT ORGANIC SILT AND CLAY
[Symbol]	ROCK
[Symbol]	TOPSOIL
[Symbol]	2016 CAUSEWAY SITE INVESTIGATION
[Symbol]	2017 CAUSEWAY SITE INVESTIGATION
[Symbol]	2018 GEOTECH SITE INVESTIGATION
[Symbol]	1996 CLOVER SITE INVESTIGATION
[Symbol]	1997 CLOVER SITE INVESTIGATION
[Symbol]	2006 SITE INVESTIGATION
[Symbol]	2012 SITE INVESTIGATION
[Symbol]	SOHR SITE INVESTIGATION

LOCATION PLAN SCALE: 1:250 @ A1

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SOUTHERN INTERCEPTOR - LONGSECTION CH. 730-870M SCALE: H 1:250, V 1:100.

Iss	Date	Description	By	Chkd	Appd
D1	30.08	FOR PLANNING	JL	AD	AW

Client
Obair | geomhachairtocht
Working in Partnership

Job Title
ARKLOW SEWERAGE SCHEME

Scale at A1 AS SHOWN

Discipline CIVIL

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Dublin 4
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www.arup.ie

Drawing Title
GEOTECHNICAL LAYOUT PLAN & LONGITUDINAL SECTION 6 OF 16

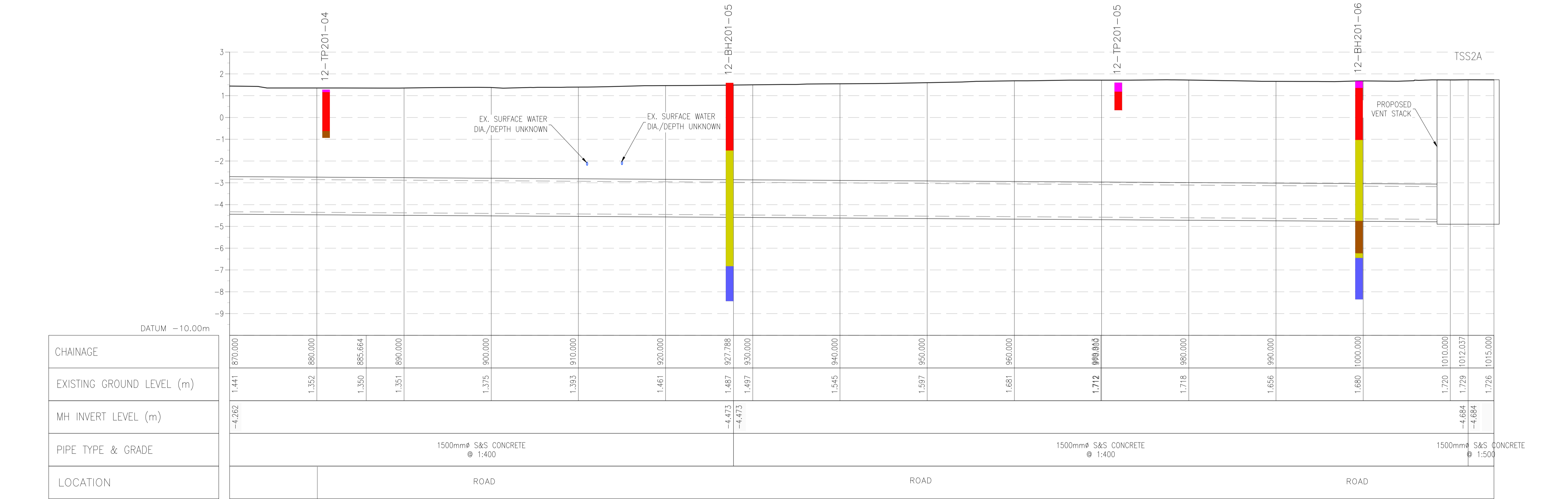
Drawing Status
FOR PLANNING

Job No	Drawing No	Issue
247825-00	C-IS-1325	D1



LOCATION PLAN SCALE: 1:250 @ A1

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SOUTHERN INTERCEPTOR - LONGSECTION CH. 870-1015M SCALE: H 1:250,V 1:100.

Iss	Date	Description	By	Chkd	Appd
D1	30.08	FOR PLANNING	JL	AD	AW

Client: **UISCE EIRIANN - IRISH WATER**

Job Title: **ARKLOW SEWERAGE SCHEME**

Scale at A1: **AS SHOWN**

Discipline: **CIVIL**

ARUP BYRNE LOOBY

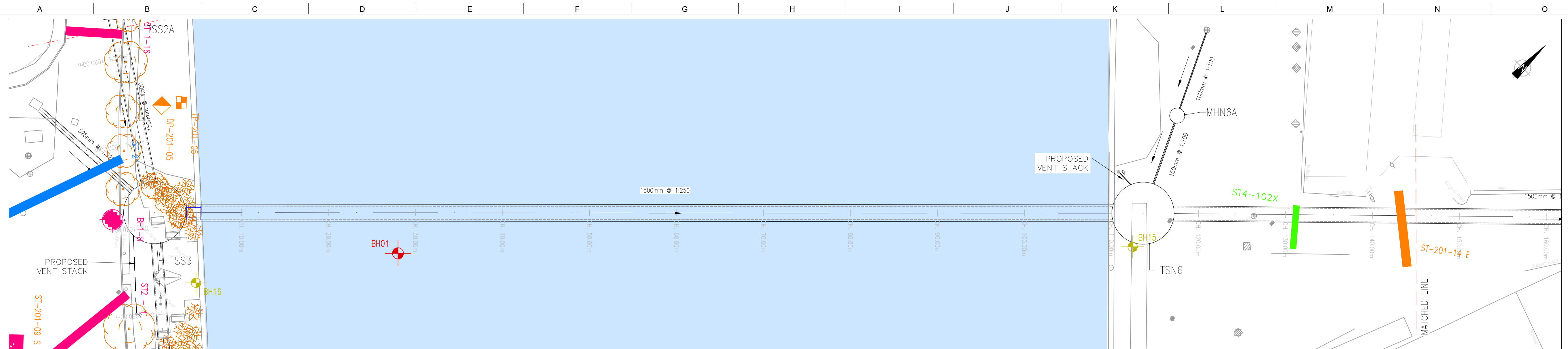
"Anup, 50 Ringsend Road"
Dublin 4
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www.arup.ie

Drawing Title: **GEOTECHNICAL LAYOUT PLAN & LONGITUDINAL SECTION 7 OF 16**

Drawing Status: **FOR PLANNING**

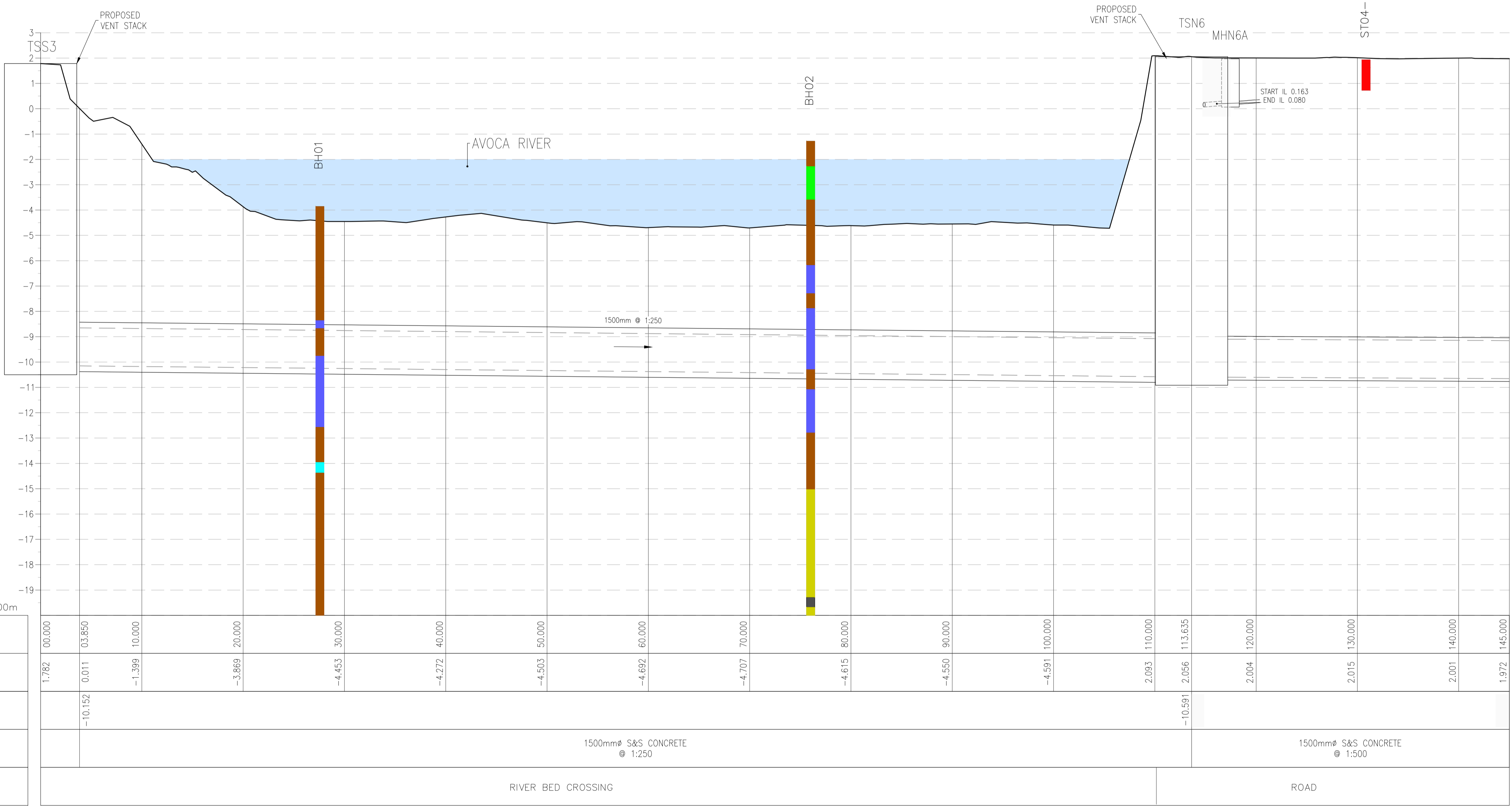
Job No: **247825-00** Drawing No: **C-IS-1326** Issue: **D1**

A1



LOCATION PLAN
SCALE: 1:250 @ A1

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SOUTHERN INTERCEPTOR TO WWTW CH. 0-145M - LONGSECTION SCALE: H 1:250,V 1:100.

Iss	Date	Description	By	Chkd	Appd
D1	30.08	FOR PLANNING	JL	AD	AW

Client
 Obeir | geomhphairtíocht
 Working in Partnership

Job Title
ARKLOW SEWERAGE SCHEME

Scale at A1
 AS SHOWN

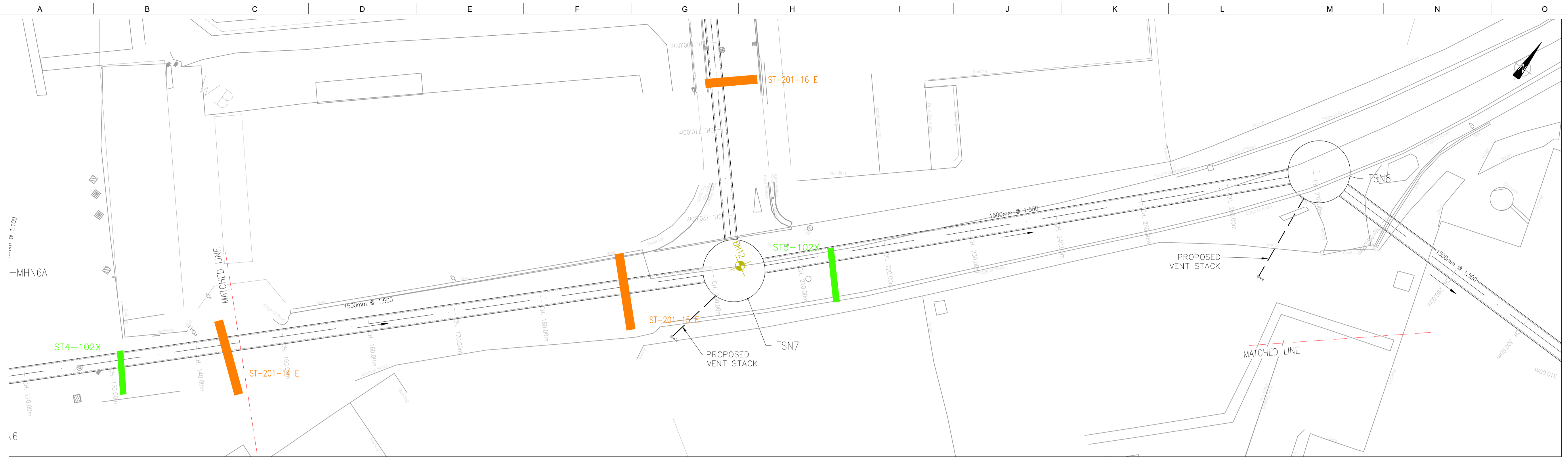
Discipline
 CIVIL

Anup, 50 Ringsend Road
 Dublin 4
 Tel +353(0)1 233 4455 Fax +353(0)1 668 3169
 www.arup.ie

Drawing Title
GEOTECHNICAL LAYOUT PLAN & LONGITUDINAL SECTION
 9 OF 16

Drawing Status
FOR PLANNING

Job No	Drawing No	Issue
247825-00	C-IS-1328	D1



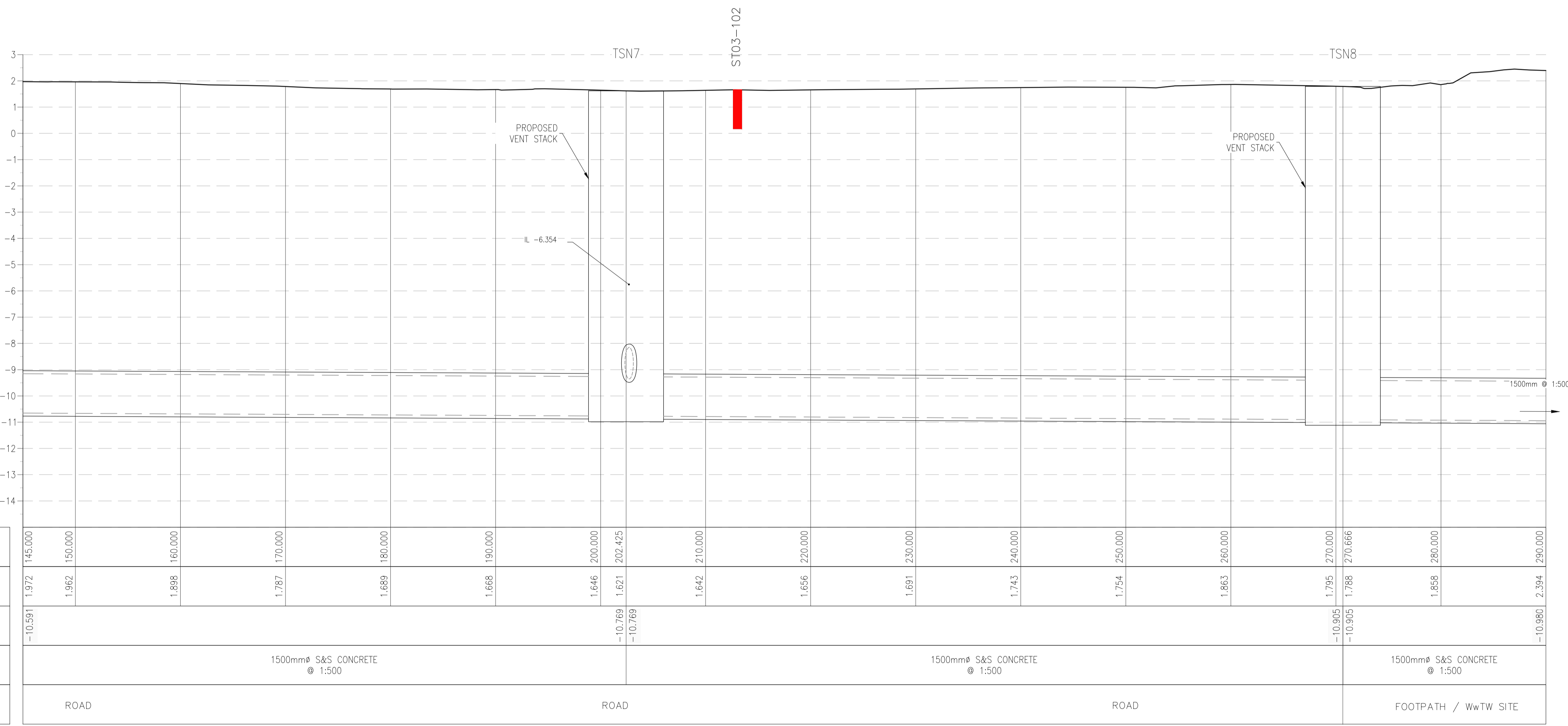
LEGEND

[Cyan]	COHESIVE ALLUVIUM
[Blue]	COHESIVE GLACIAL TILL (BOULDER CLAY)
[Yellow]	DENSE SANDS AND GRAVELS
[Green]	DENSE CLAYEY SAND AND GRAVELS
[Brown]	MEDIUM DENSE SANDS AND GRAVELS
[Red]	MADE GROUND
[Light Green]	SOFT ORGANIC SILT AND CLAY
[Grey]	ROCK
[Pink]	TOPSOIL
[Symbol]	2016 CAUSEWAY SITE INVESTIGATION
[Symbol]	2017 CAUSEWAY SITE INVESTIGATION
[Symbol]	2018 CAUSEWAY SITE INVESTIGATION
[Symbol]	1998 CLOVER SITE INVESTIGATION
[Symbol]	1997 CLOVER SITE INVESTIGATION
[Symbol]	2006 SITE INVESTIGATION
[Symbol]	2012 SITE INVESTIGATION
[Symbol]	2008 SITE INVESTIGATION

LOCATION PLAN
SCALE: 1:250 © A1

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X:\Waters\W0200\01\01\Arklow Sewerage Scheme\Drawings\A1\Drawings\1320-1326.dwg



DATUM -15.00m	
CHAINAGE	145.000 150.000 160.000 170.000 180.000 190.000 200.000 202.425 210.000 220.000 230.000 240.000 250.000 260.000 270.000 270.666 280.000 290.000
EXISTING GROUND LEVEL (m)	1.972 1.962 1.898 1.787 1.689 1.668 1.646 1.621 1.642 1.656 1.691 1.743 1.754 1.863 1.795 1.786 1.658 2.394
MH INVERT LEVEL (m)	-10.591 -10.769 -10.769
PIPE TYPE & GRADE	1500mm S&S CONCRETE @ 1:500
LOCATION	ROAD ROAD ROAD FOOTPATH / WwTW SITE

SOUTHERN INTERCEPTOR TO WWTW CH. 145-290M - LONGSECTION SCALE: H 1:250,V 1:100.

D1 30.08	FOR PLANNING	JL	AD	AW	
Iss	Date	Description	By	Chkd	Appd

Client
Obeir | gomphaháirtíocht
Working in Partnership



Job Title
ARKLOW SEWERAGE SCHEME

Scale at A1 AS SHOWN

Discipline CIVIL

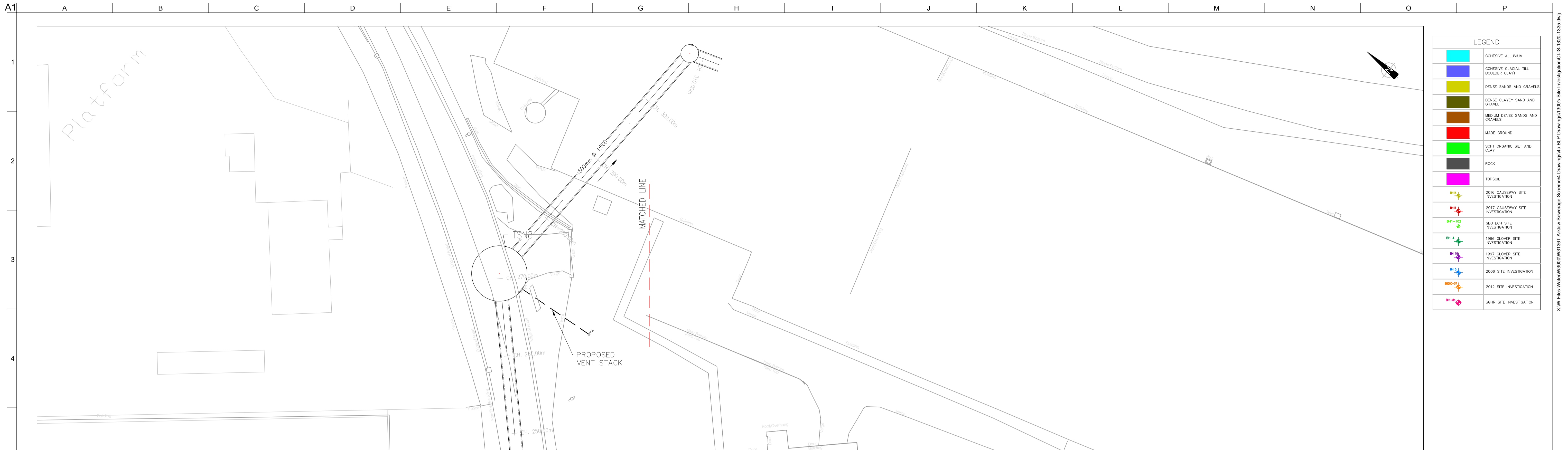


*Anup, 50 Ringsend Road
Dublin 4
Tel +353(0)1 233 4455 Fax +353(0)1 668 3169
www.arup.ie

Drawing Title
GEOTECHNICAL LAYOUT PLAN & LONGITUDINAL SECTION
10 OF 16

Drawing Status
FOR PLANNING

Job No	Drawing No	Issue
247825-00	C-IS-1329	D1

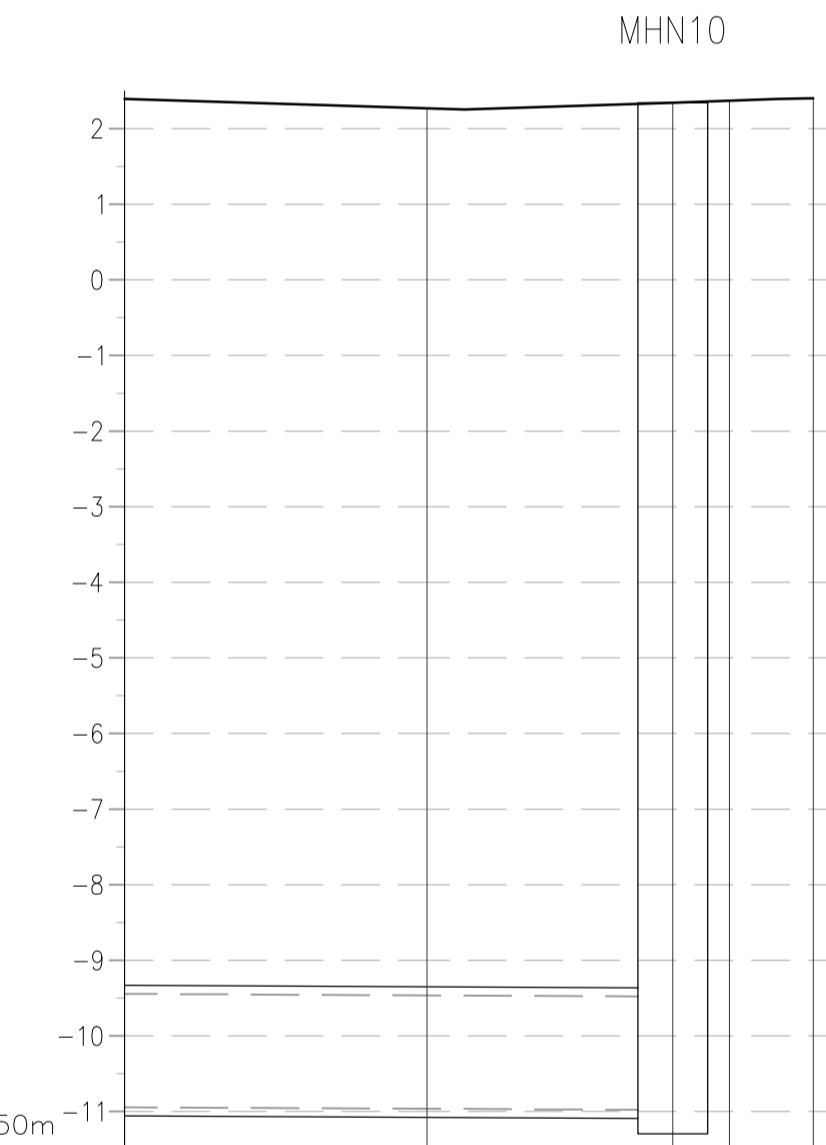


LEGEND

[Symbol]	COHESIVE ALLUVIUM
[Symbol]	COHESIVE GLACIAL TILL BOULDER CLAY
[Symbol]	DENSE SANDS AND GRAVELS
[Symbol]	DENSE CLAYEY SAND AND GRAVEL
[Symbol]	MEDIUM DENSE SANDS AND GRAVELS
[Symbol]	MADE GROUND
[Symbol]	SOFT ORGANIC SILT AND CLAY
[Symbol]	ROCK
[Symbol]	TOPSOIL
[Symbol]	2016 CAUSEWAY SITE INVESTIGATION
[Symbol]	2017 CAUSEWAY SITE INVESTIGATION
[Symbol]	GEOTECH SITE INVESTIGATION
[Symbol]	1996 CLOVER SITE INVESTIGATION
[Symbol]	1997 CLOVER SITE INVESTIGATION
[Symbol]	2006 SITE INVESTIGATION
[Symbol]	2012 SITE INVESTIGATION
[Symbol]	SOHR SITE INVESTIGATION

LOCATION PLAN
SCALE: 1:250 @ A1

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CHAINAGE	290.000	300.000	310.815	310.000	313.347
EXISTING GROUND LEVEL (m)	2.394	2.270	2.381	2.370	
MH INVERT LEVEL (m)	-10.905			-10.980	
PIPE TYPE & GRADE	1500mm Ø S&S CONCRETE @ 1:500				
LOCATION	FOOTPATH / WWTW SITE				

SOUTHERN INTERCEPTOR TO WWTW CH. 290-313M - LONGSECTION SCALE: H 1:250, V 1:100.

Iss	Date	Description	By	Chkd	Appd
D1	30.08	FOR PLANNING	JL	AD	AW

Client
Obeir | gcomhpháirtíocht
Working in Partnership



Job Title
ARKLOW SEWERAGE SCHEME

Scale at A1 AS SHOWN

Discipline
CIVIL

ARUP BYRNE LOOBY

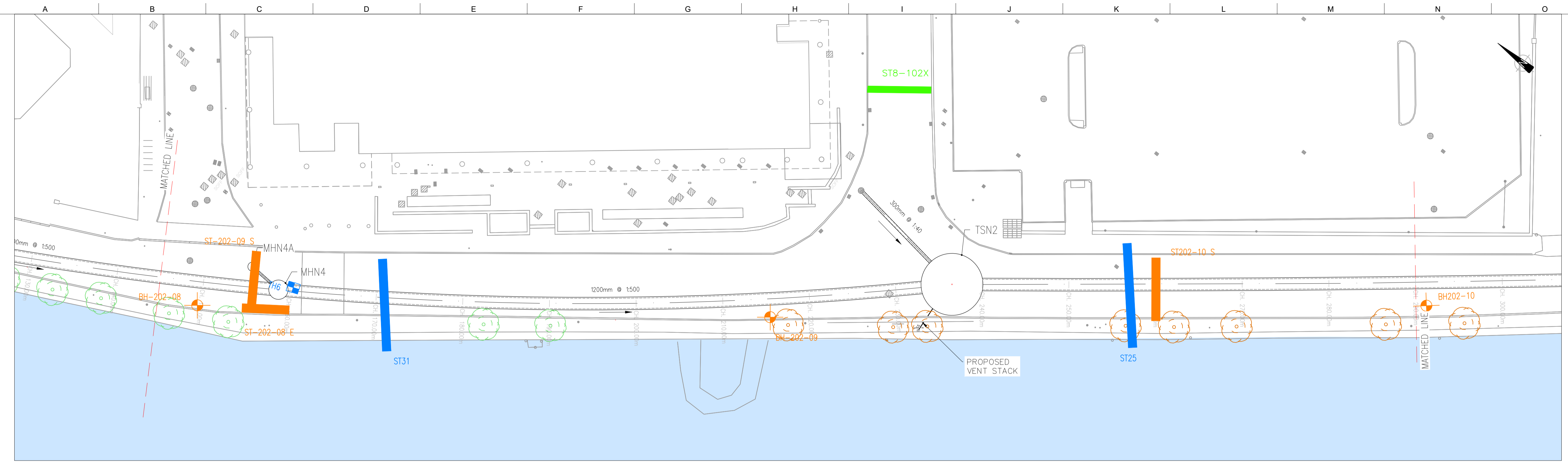
*Arup, 50 Ringsend Road
Dublin 4
Tel +353(0)1 233 4455 Fax +353(0)1 668 3169
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Drawing Title
GEOTECHNICAL LAYOUT PLAN & LONGITUDINAL SECTION
11 OF 16

Drawing Status
FOR PLANNING

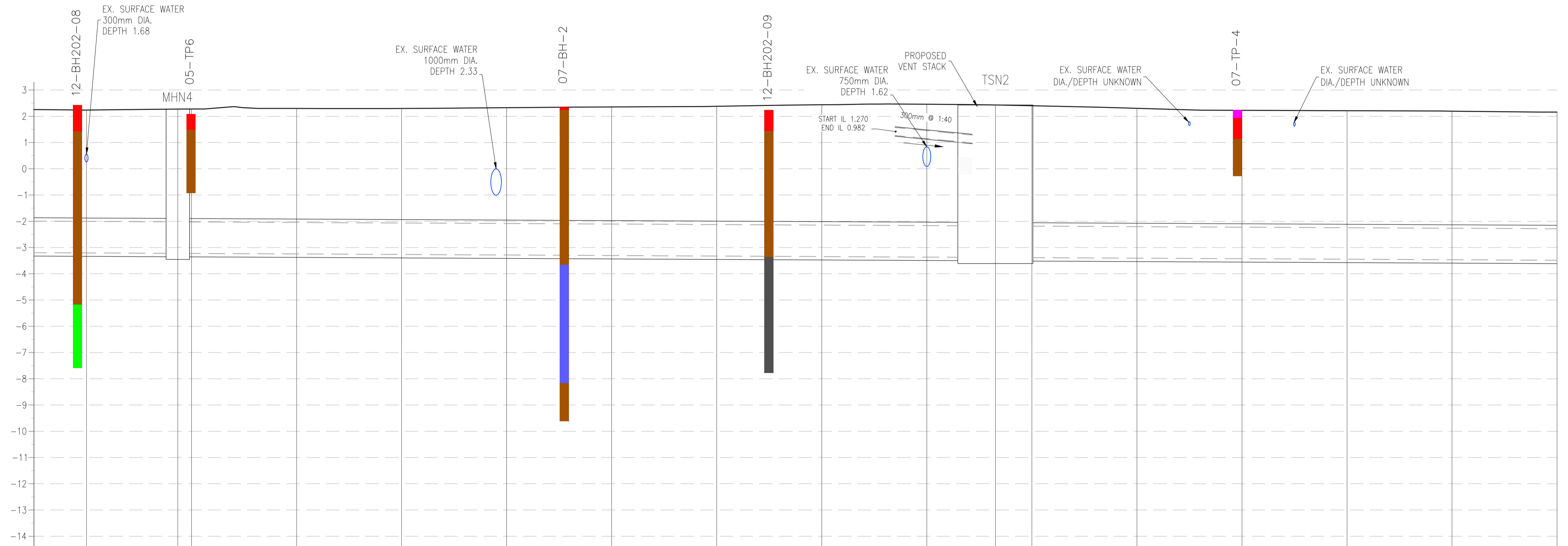
Job No 247825-00	Drawing No C-IS-1330	Issue D1
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A1



LOCATION PLAN
SCALE: 1:250 @ A1

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DATUM -15.00m		145.000	150.000	158.695	160.000	170.000	180.000	190.000	197.611	200.000	210.000	220.000	230.000	236.527	240.000	250.000	260.000	270.000	280.000	290.000
CHAINAGE																				
EXISTING GROUND LEVEL (m)		2.257	2.236	2.271	2.276	2.296	2.296	2.326	2.350	2.354	2.378	2.437	2.457	2.431	2.401	2.302	2.225	2.212	2.194	2.160
MH INVERT LEVEL (m)				-3.223										-3.379						
PIPE TYPE & GRADE		1200mm ϕ S&S CONCRETE @ 1:500			1200mm ϕ S&S CONCRETE @ 1:500									1200mm ϕ S&S CONCRETE @ 1:500						
LOCATION		ROAD			ROAD								ROAD							

NORTHERN INTERCEPTOR CH. 145-290M - LONGSECTION SCALE: H 1:250,V 1:100.

Iss	Date	Description	By	Chkd	Appd
D1	30.08	FOR PLANNING	JL	AD	AW

Client
Obeir | gompháirtíocht Working in Partnership

Job Title
ARKLOW SEWERAGE SCHEME

Scale at A1 AS SHOWN

Discipline
CIVIL

ARUP BYRNELOOBY

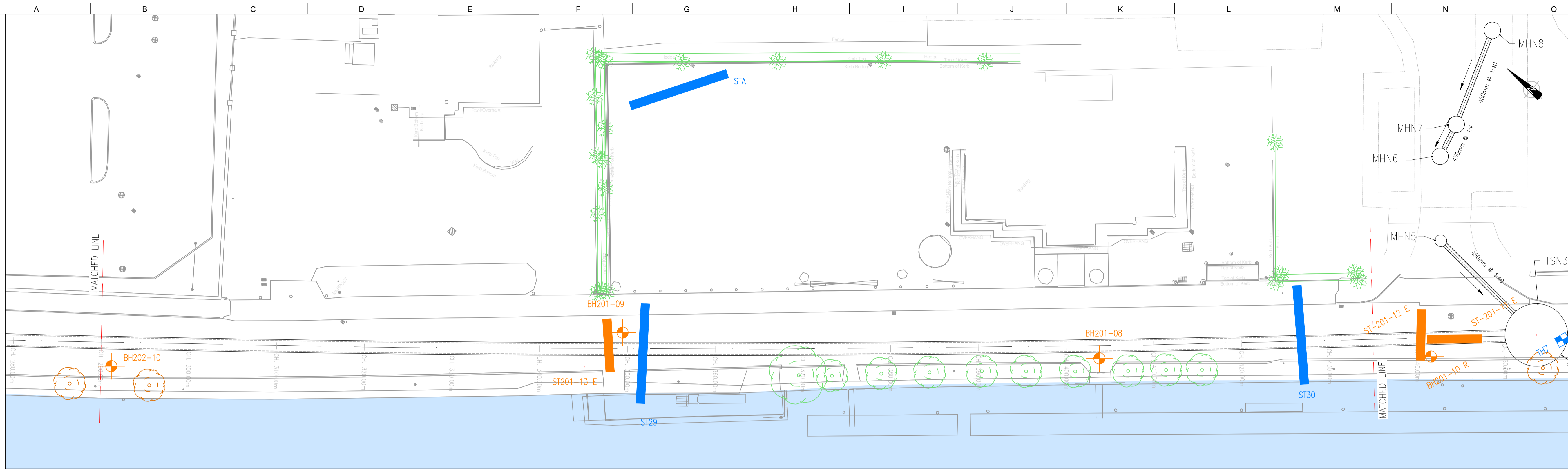
"Arup, 50 Ringsend Road"
Dublin 4
Tel +353(0)1 233 4455 Fax +353(0)1 668 3169
www.arup.ie

Drawing Title
GEOTECHNICAL LAYOUT PLAN & LONGITUDINAL SECTION
13 OF 16

Drawing Status
FOR PLANNING

Job No 247825-00	Drawing No C-IS-1332	Issue D1
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A1

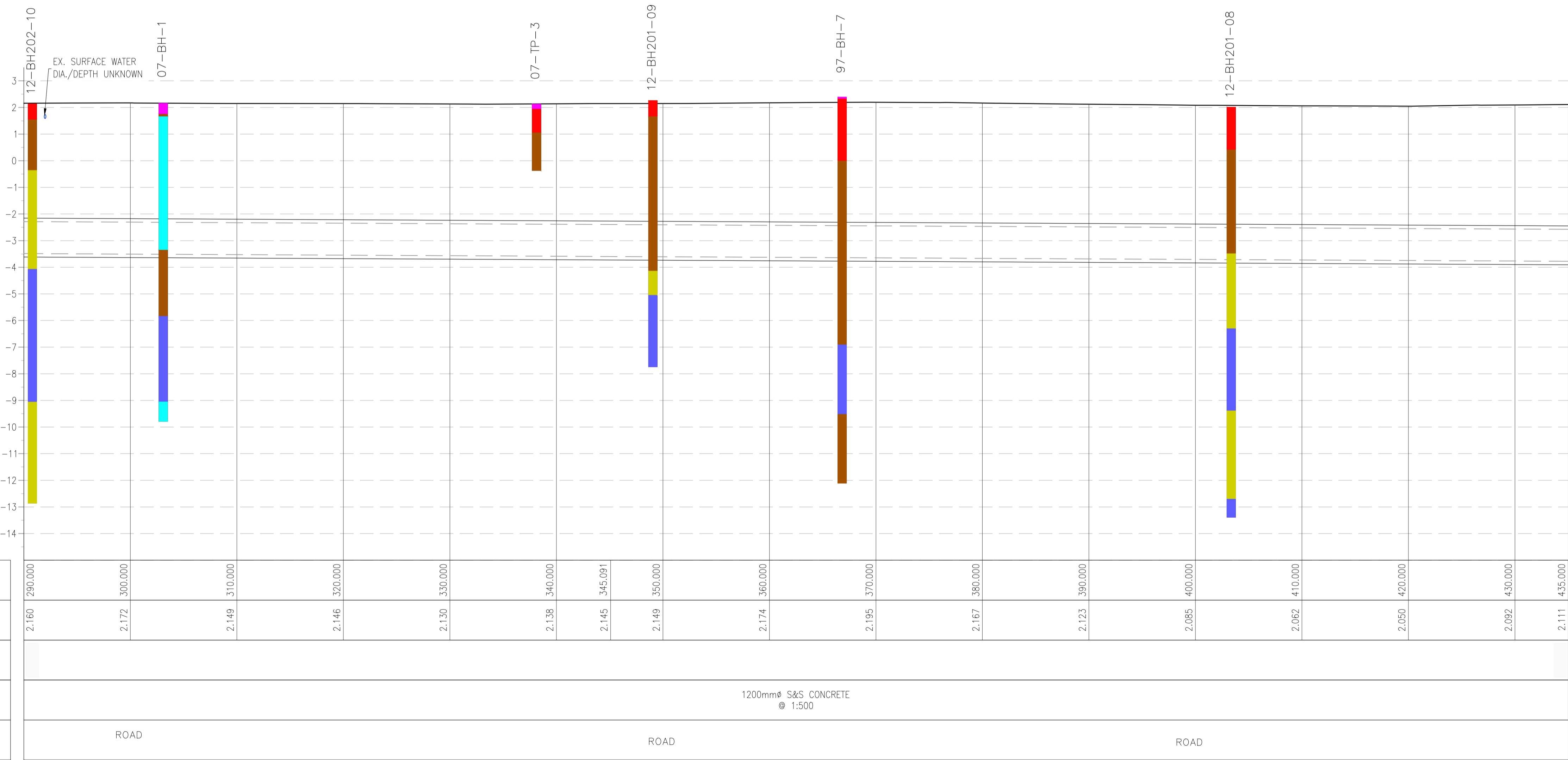


LEGEND

- COHESIVE ALLUVIUM
- COHESIVE GLACIAL TILL (BOULDER CLAY)
- DENSE SANDS AND GRAVELS
- DENSE CLAYEY SAND AND GRAVELS
- MEDIUM DENSE SANDS AND GRAVELS
- MADE GROUND
- SOFT ORGANIC SILT AND CLAY
- ROCK
- TOPSOIL
- 2016 CAUSEWAY SITE INVESTIGATION
- 2017 CAUSEWAY SITE INVESTIGATION
- GEOTECH SITE INVESTIGATION
- 1996 GLOVER SITE INVESTIGATION
- 1997 GLOVER SITE INVESTIGATION
- 2006 SITE INVESTIGATION
- 2012 SITE INVESTIGATION
- SOHR SITE INVESTIGATION

LOCATION PLAN
SCALE: 1:250 @ A1

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NORTHERN INTERCEPTOR CH. 290-435M - LONGSECTION SCALE: H 1:250,V 1:100.

Iss	Date	Description	By	Chkd	Appd
D1	30.08	FOR PLANNING	JL	AD	AW

Client
Obeir | gomhpháirtíocht
Working in Partnership



Job Title
ARKLOW SEWERAGE SCHEME

Scale at A1 AS SHOWN

Discipline CIVIL



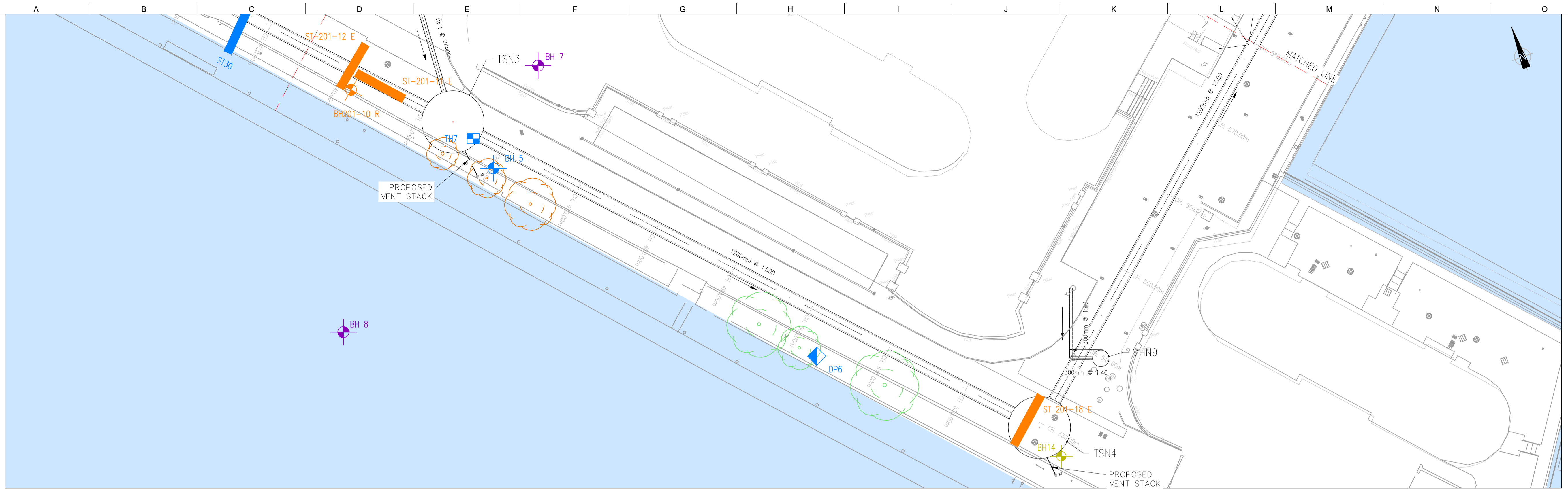
*Anup, 50 Ringsend Road
Dublin 4
Tel +353(0)1 233 4455 Fax +353(0)1 668 3169
www.arup.ie

Drawing Title
GEOTECHNICAL LAYOUT PLAN & LONGITUDINAL SECTION
14 OF 16

Drawing Status
FOR PLANNING

Job No 247825-00	Drawing No C-IS-1333	Issue D1
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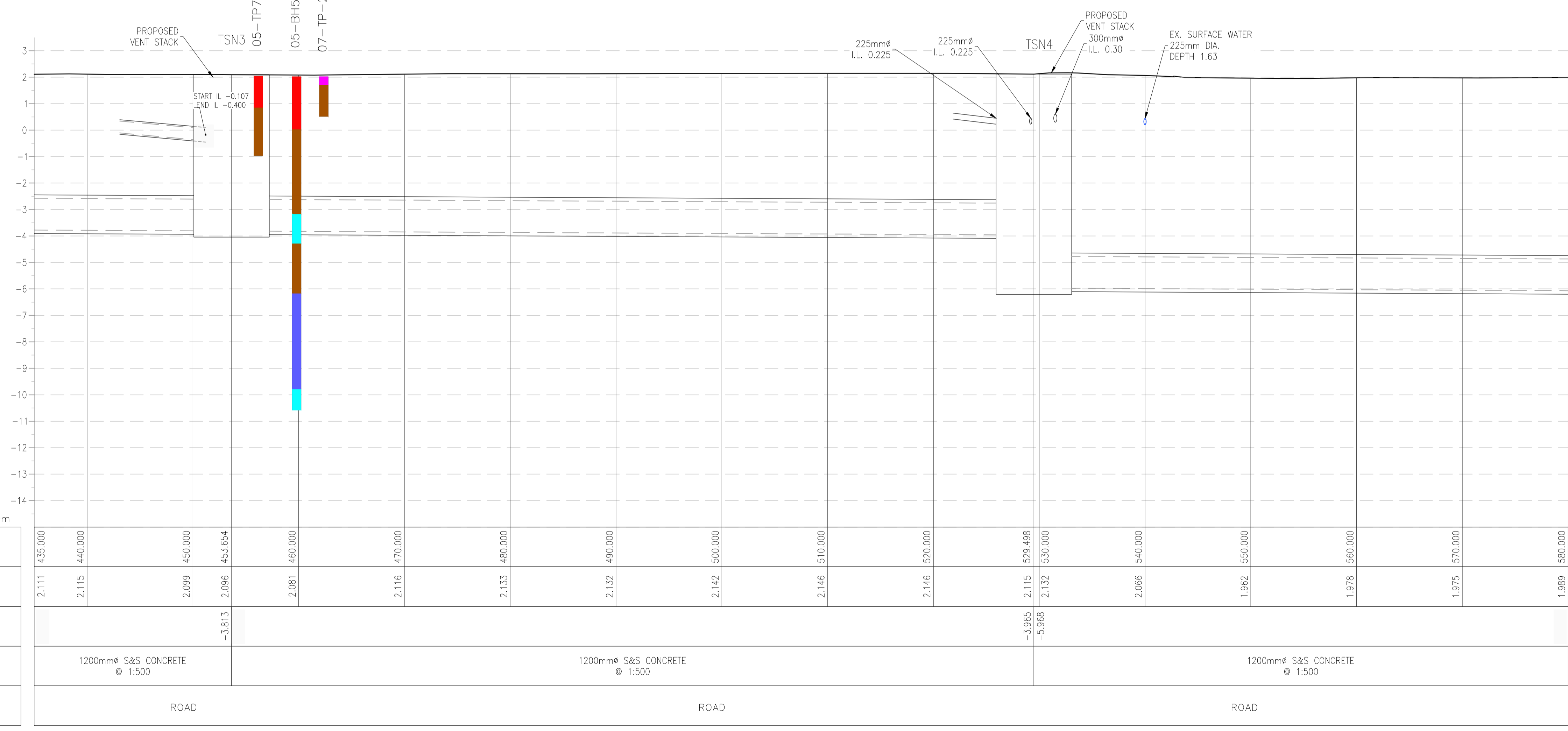
A1
1
2
3
4
5
6
7
8
9
10



LEGEND	
[Light Blue]	COHESIVE ALLUVIUM
[Dark Blue]	COHESIVE GLACIAL TILL BOULDER CLAY
[Yellow]	DENSE SANDS AND GRAVELS
[Green]	DENSE CLAYEY SAND AND GRAVEL
[Brown]	MEDIUM DENSE SANDS AND GRAVELS
[Red]	MADE GROUND
[Light Green]	SOFT ORGANIC SILT AND CLAY
[Grey]	ROCK
[Pink]	TOPSOIL
[Symbol]	2016 CAUSEWAY SITE INVESTIGATION
[Symbol]	2017 CAUSEWAY SITE INVESTIGATION
[Symbol]	GEOTECH SITE INVESTIGATION
[Symbol]	1998 CLOVER SITE INVESTIGATION
[Symbol]	1997 CLOVER SITE INVESTIGATION
[Symbol]	2006 SITE INVESTIGATION
[Symbol]	2012 SITE INVESTIGATION
[Symbol]	SOHR SITE INVESTIGATION

LOCATION PLAN
SCALE: 1:250 @ A1

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DATUM -15.00m	
CHAINAGE	435.000 440.000 450.000 453.654 460.000 470.000 480.000 490.000 500.000 510.000 520.000 529.498 530.000 540.000 550.000 560.000 570.000 580.000
EXISTING GROUND LEVEL (m)	2.111 2.115 2.089 2.086 2.081 2.116 2.133 2.132 2.142 2.146 2.146 2.115 2.132 2.066 1.962 1.978 1.975 1.989
MH INVERT LEVEL (m)	-3.813
PIPE TYPE & GRADE	1200mm S&S CONCRETE @ 1:500
LOCATION	ROAD

NORTHERN INTERCEPTOR CH. 435-580M - LONGSECTION SCALE: H 1:250, V 1:100.

Iss	Date	Description	By	Chkd	Appd
D1	30.08	FOR PLANNING	JL	AD	AW

Client
 Obeir | gomhpháirtíocht
 Working in Partnership



Job Title
ARKLOW SEWERAGE SCHEME
 Scale at A1 AS SHOWN
 Discipline CIVIL



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 Dublin 4
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 www.arup.ie

Drawing Title
GEOTECHNICAL LAYOUT PLAN & LONGITUDINAL SECTION
 15 OF 16
 Drawing Status
FOR PLANNING
 Job No 247825-00
 Issue No C-IS-1334
 Issue D1

