



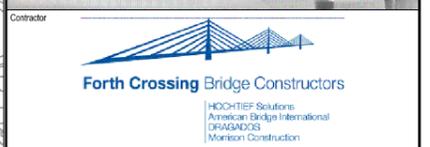
DRAWING NOTES

- General Notes:**
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 2. Only written dimensions shall be used.
 3. All dimensions are in millimetres unless noted otherwise.
 4. All levels & chainages are in metres.

SECTION G : ECHLINE
 SECTION K : SPRINGFIELD (SOUTH)
 SECTION L : SPRINGFIELD (NORTH)

A1 - DO NOT SCALE

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Approved



Project: **FORTH REPLACEMENT CROSSING**

Drawing title: **SOUTHERN NETWORK CONNECTIONS**
SECTIONS KEY PLAN

File reference: Design JV

RAMBOLL **Grontmij**

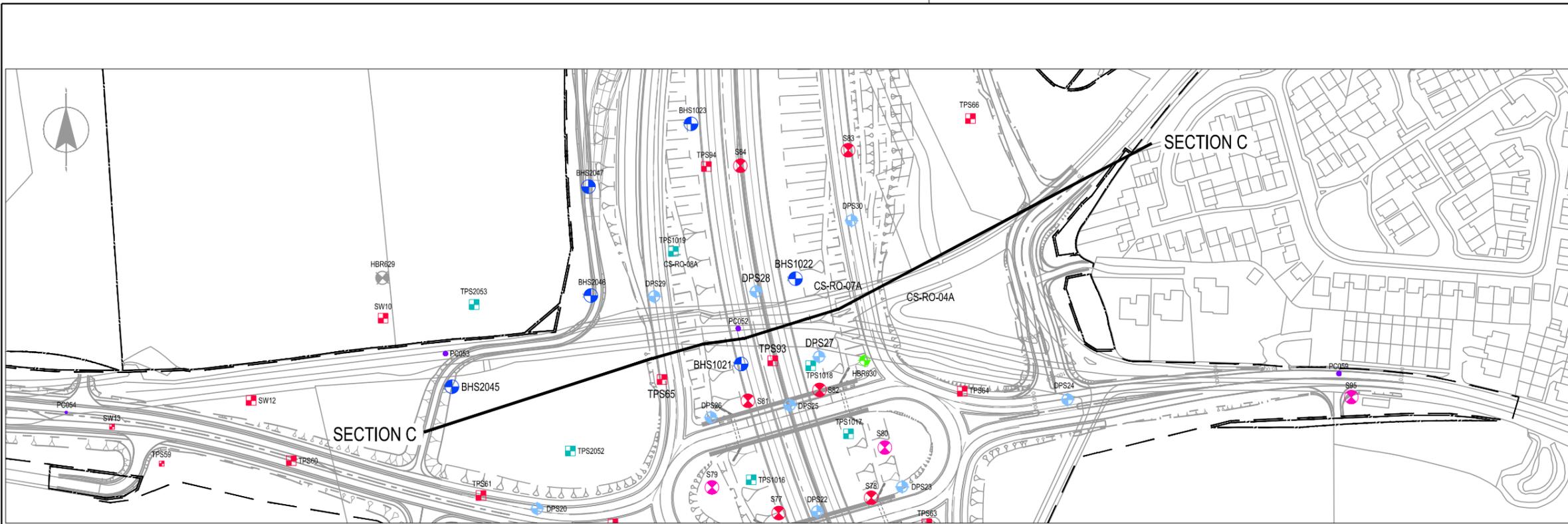
Independent checker: **AECOM** **Scott Wilson** Drawing status: **Final**

Drawn/Designed by: Initials: JUES Checked by: Initials: HC Approved by: Initials: DR

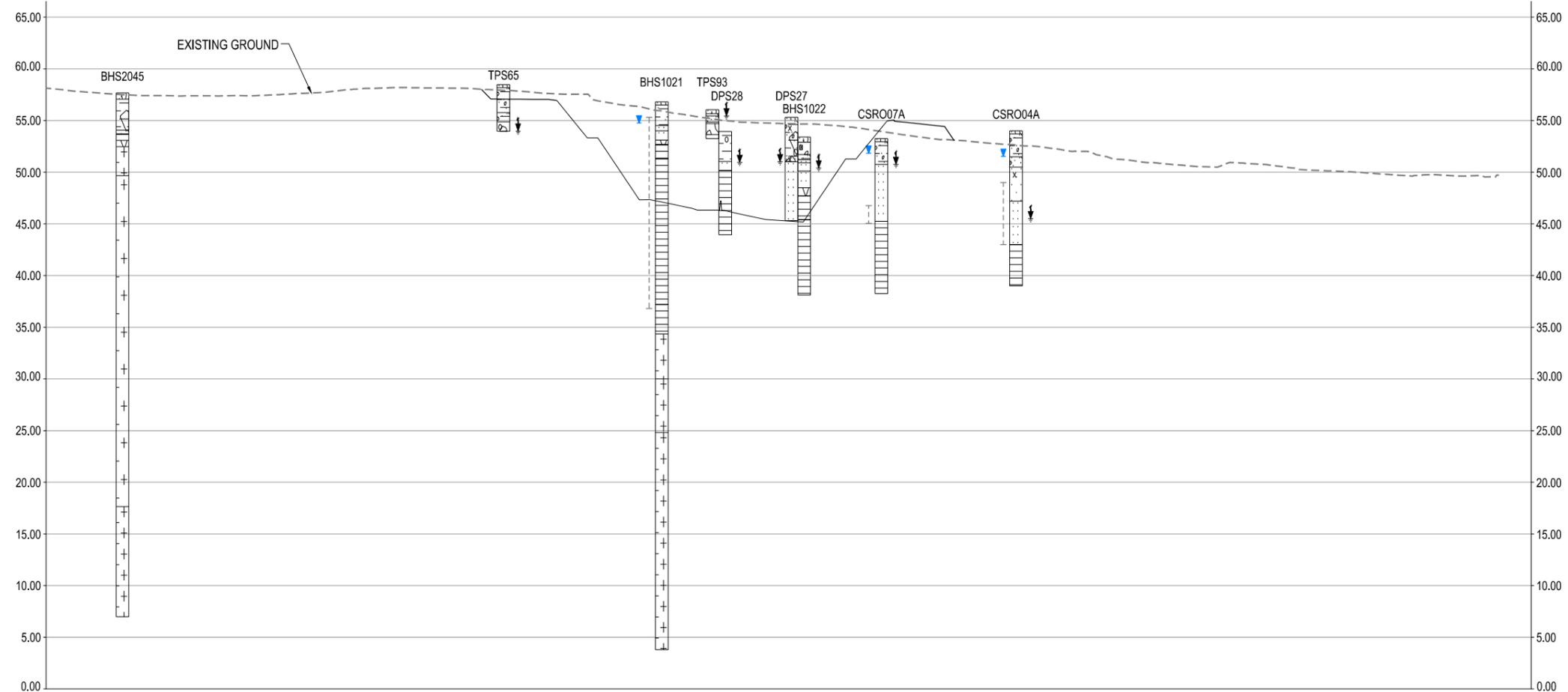
Scale: N.T.S @ A1 DO NOT SCALE

Drawing number: **FIGURE 1**

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SOUTHERN NETWORK PLAN SHOWING SECTION C
SCALE = 1:1250



SOUTH NETWORK CONNECTION - SECTION C
SCALE = 1:750 HORIZONTAL & N.T.S VERTICAL

NOTE: GROUND INVESTIGATIONS / INFORMATION SHOWN, ARE NOT TAKEN DIRECTLY ON THE LINE OF THE LONGSECTION. LEVELS TO TOP MAY APPEAR TO BE ABOVE AND BELOW THE LINE OF EXISTING GROUND, DUE TO THEIR DIFFERING PROXIMITY BEFORE AND BEYOND THE LINE OF THE LONGSECTION.

DRAWING NOTES

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 3. All dimensions are in millimetres unless noted otherwise.
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EXISTING SITE INVESTIGATION ELEVATION LEGEND:

MAIN SOILS	ROCK TYPES
MADE GROUND	TOPSOIL
SOFT ORGANIC CLAY	MUDSTONE
CLAY	SILTSTONE
SAND	SANDSTONE
GRAVEL	LIMESTONE
COBBLES	Coarse-grained Igneous Rock (GABBRO)
BOULDERS	Medium-grained Igneous Rock (DOLERITE)
	Fine-grained Igneous Rock (BASALT)

EXAMPLES OF COMPOSITE SOILS

- Sandy Gravelly CLAY
- Clayey gravelly SAND
- SAND AND GRAVEL

Ground Water Strike **Ground Water Level after 20 minutes**

Due to the variation in soil legends presented on the exploration site records used during the completion of these drawings, only the principal soil types are shown here. Examples composite soils are given to represent the arrangement of subsurface legends within main soil legend brackets. For full details please refer to the individual exploratory site records.

TYPICAL REPORT / EXPLORATORY HOLE SUMMARY LEGEND

THE FOLLOWING GROUND INVESTIGATIONS ARE RELEVANT TO SOUTH NETWORK AREAS PLEASE REFER TO THE RELEVANT REPORTS & ASSOCIATED LABORATORY TESTING FOR DETAILED FINDINGS:

HOLE REF:	INVESTIGATION
BHS1018	FORTH REPLACEMENT CROSSING - DETAILED G.I. - SOUTH OF THE FORTH ESTUARY (BAM RITCHES, REF. 3188, MARCH 2008, RELATING TO INVESTIGATIONS CARRIED OUT IN 2008)
BHS1032	
BHTPS43A	
TPS1031	
SW10	FORTH REPLACEMENT CROSSING NETWORK CONNECTIONS SOUTH - ADDITIONAL GROUND INVESTIGATION (BAM RITCHES, REF. 3189A, DECEMBER 2009)
TPS65	
S59	
PC050	
BP24	
DPS30	FORTH REPLACEMENT CROSSING NETWORK CONNECTIONS SOUTH - DIALOGUE PERIOD GROUND INVESTIGATION (BAM RITCHES, REF. 3189C, JULY 2010)
HBR599	BGS HISTORICAL BOREHOLE RECORDS
HBR694	
DB01	

TYPICAL REPORT / CONFIRMATORY HOLE SUMMARY LEGEND

THE FOLLOWING GROUND INVESTIGATIONS ARE RELEVANT TO SOUTH NETWORK AREAS PLEASE REFER TO THE RELEVANT REPORTS & ASSOCIATED LABORATORY TESTING FOR DETAILED FINDINGS:

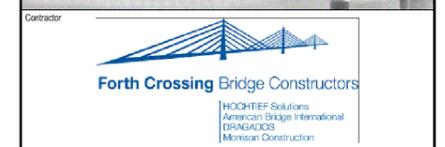
HOLE REF:	INVESTIGATION TYPE	HOLE REF:	INVESTIGATION TYPE
CSRO01	ROTARY OPEN HOLE	CSTP01	TRIAL PIT
CSBP01	CABLE PERCUSSION	CMTP01	CONFIRMATORY MARINE TRIAL PIT
CS-CPT-01	STATIC CONE PENETRATION	CMH01	CONFIRMATORY MARINE BOREHOLE
CSRO01	ROTARY CORE		

FORTH REPLACEMENT CROSSING NETWORK CONNECTIONS SOUTH - CONFIRMATORY GROUND INVESTIGATION (GLOVERS, 2011)

General Key:

- Denotes Observation Borehole Response Zone
- Monitored Water Levels (representing mid range water levels)

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Approved



Project: **FORTH REPLACEMENT CROSSING**

Drawing title: **SOUTHERN NETWORK CONNECTIONS**
SECTION C

File reference:

Design JV: **RAMBOLL** **Grontmij**

Independent checker: **AECOM** **Scottish** **Hydrology** Drawing status: **DO NOT SCALE**

Drawn/Designed by: **JUES** Checked by: **HC** Approved by: **DAV**

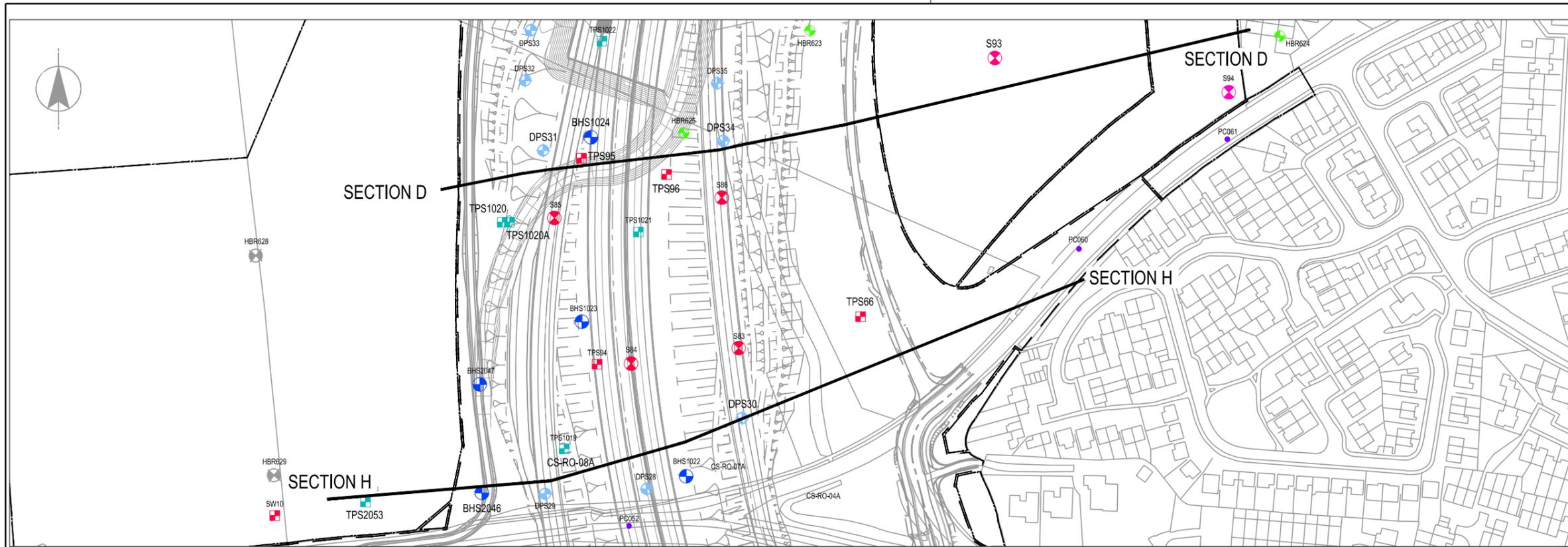
Initials: **JUES** Initials: **HC** Initials: **DAV**

Scale: **N.T.S @ A1** **DO NOT SCALE**

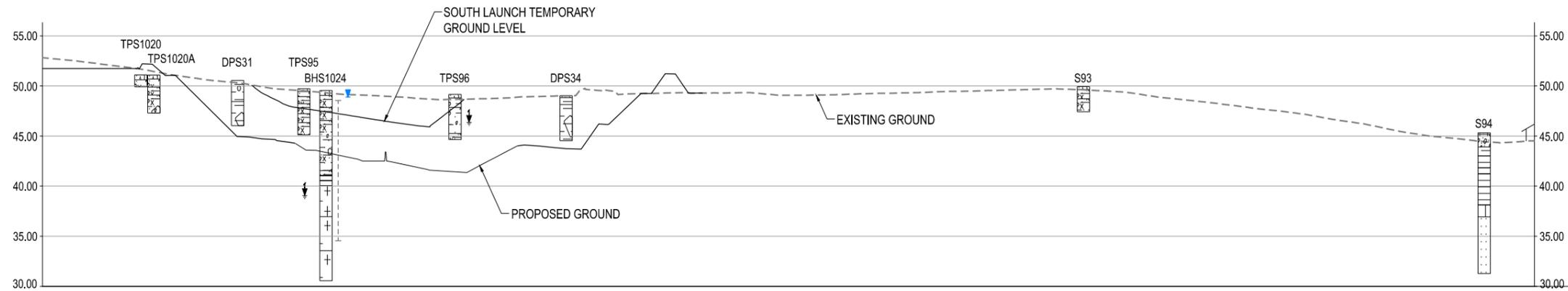
Drawing number: **FIGURE 3**

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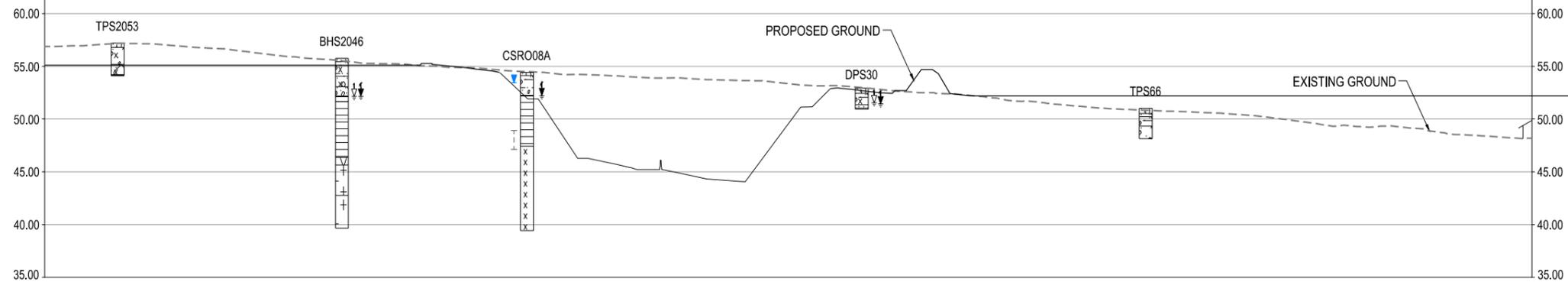
This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office (© Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Scottish Government 10002940 2009)



SOUTHERN NETWORK PLAN SHOWING SECTIONS D & H
SCALE = 1:1250



SOUTH NETWORK CONNECTION - SECTION D
SCALE = 1:750 HORIZONTAL & N.T.S VERTICAL



SOUTH NETWORK CONNECTION - SECTION H
SCALE = 1:750 HORIZONTAL & N.T.S VERTICAL

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EXISTING SITE INVESTIGATION ELEVATION LEGEND:

MAIN SOILS	ROCK TYPES
MADE GROUND	TOPSOIL
SOFT ORGANIC CLAY	MUDSTONE
CLAY	SILTSTONE
SAND	SANDSTONE
GRAVEL	LIMESTONE
COBBLES	Coarse-grained Igneous Rock (GABBRO)
BOULDERS	Medium-grained Igneous Rock (DOLERITE)
	Fine-grained Igneous Rock (BASALT)

EXAMPLES OF COMPOSITE SOILS

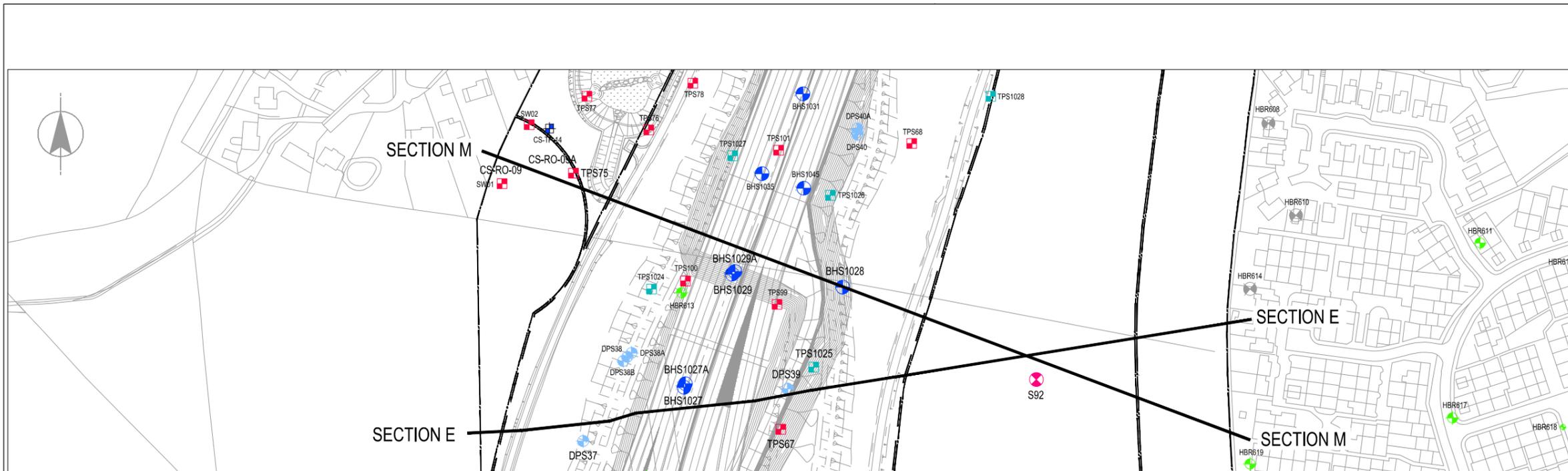
Sandy Gravelly CLAY	Clayey gravelly SAND	SAND AND GRAVEL
---------------------	----------------------	-----------------

Ground Water Strike
 Ground Water Level after 20 minutes
Due to the variation in soil legends presented on the exploration hole records used during the completion of these drawings, only the principal soil types are shown here. Examples composite soils are given to represent the arrangement of subsurface legends with main soil legend bitmaps. For full details please refer to the individual exploratory hole records.

TYPICAL REPORT / EXPLORATORY HOLE SUMMARY LEGEND

THE FOLLOWING GROUND INVESTIGATIONS ARE RELEVANT TO SOUTH NETWORK AREAS PLEASE REFER TO THE RELEVANT REPORTS & ASSOCIATED LABORATORY TESTING FOR DETAILED FINDINGS:

HOLE REF:	INVESTIGATION
BHS1018	FORTH REPLACEMENT CROSSING - DETAILED GI - SOUTH OF THE FORTH ESTUARY (BAM RITCHES, REF. 3189, MARCH 2009, RELATING TO INVESTIGATIONS CARRIED OUT IN 2008)
BHTPS43A	
TPS1031	
SW07	FORTH REPLACEMENT CROSSING NETWORK CONNECTIONS SOUTH - ADDITIONAL GROUND INVESTIGATION (BAM RITCHES, REF. 3189A, DECEMBER 2009)
TPS69	
S99	
PC050	
BP24	
DPS30	FORTH REPLACEMENT CROSSING NETWORK CONNECTIONS SOUTH - DIALOGUE PERIOD GROUND INVESTIGATION (BAM RITCHES, REF. 3189C, JULY 2010)
BHS1022	
CS-RO-08A	
BHS1023	
BHS1024	
BHS1027	
BHS1028	
BHS1029	
BHS1030	
BHS1031	
BHS1032	
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BHS1299	
BHS1300	
BHS1301	
BHS1302	
BHS1303	



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MADE GROUND	TOPSOIL
SOFT ORGANIC CLAY	MUDSTONE
CLAY	SILTSTONE
SILT	SANDSTONE
SAND	LIMESTONE
GRAVEL	Coarse-grained Igneous Rock (GABBRO)
COBBLES	Medium-grained Igneous Rock (DOLERITE)
BOULDERS	Fine-grained Igneous Rock (BASALT)

EXAMPLES OF COMPOSITE SOILS

Sandy Gravely CLAY	Clayey gravely SAND	SAND AND GRAVEL
--------------------	---------------------	-----------------

Ground Water Strike Ground Water Level after 20 minutes

Due to the variation in soil types presented on the preliminary site records used during the completion of these drawings, only the principal soil types are shown here. Examples composite soils are given to represent the arrangement of substrata layers within main soil legend classes. For full details please refer to the relevant reports & associated laboratory testing for detailed findings.

TYPICAL REPORT / EXPLORATORY HOLE SUMMARY LEGEND

THE FOLLOWING GROUND INVESTIGATIONS ARE RELEVANT TO SOUTH NETWORK AREAS PLEASE REFER TO THE RELEVANT REPORTS & ASSOCIATED LABORATORY TESTING FOR DETAILED FINDINGS:

HOLE REF.	INVESTIGATION
BHS1010	FORTH REPLACEMENT CROSSING - DETAILED G1 - SOUTH OF THE FORTH ESTUARY (BAM RITCHES, REF. 3189, MARCH 2009, RELATING TO INVESTIGATIONS CARRIED OUT IN 2008)
BHS1032	FORTH REPLACEMENT CROSSING NETWORK CONNECTIONS SOUTH - ADDITIONAL GROUND INVESTIGATION (BAM RITCHES, REF. 3189A, DECEMBER 2009)
BHTPS43A	
TPS1031	
SW07	FORTH REPLACEMENT CROSSING NETWORK CONNECTIONS SOUTH - ADDITIONAL GROUND INVESTIGATION (BAM RITCHES, REF. 3189A, DECEMBER 2009)
TPS69	
S99	
PCI50	
BP24	
DPS30	FORTH REPLACEMENT CROSSING NETWORK CONNECTIONS SOUTH - DIALOGUE PERIOD GROUND INVESTIGATION (BAM RITCHES, REF. 3189C, JULY 2010)
HBR599	BGS HISTORICAL BOREHOLE RECORDS
HBR694	
DB01	

TYPICAL REPORT / CONFIRMATORY HOLE SUMMARY LEGEND

THE FOLLOWING GROUND INVESTIGATIONS ARE RELEVANT TO SOUTH NETWORK AREAS PLEASE REFER TO THE RELEVANT REPORTS & ASSOCIATED LABORATORY TESTING FOR DETAILED FINDINGS:

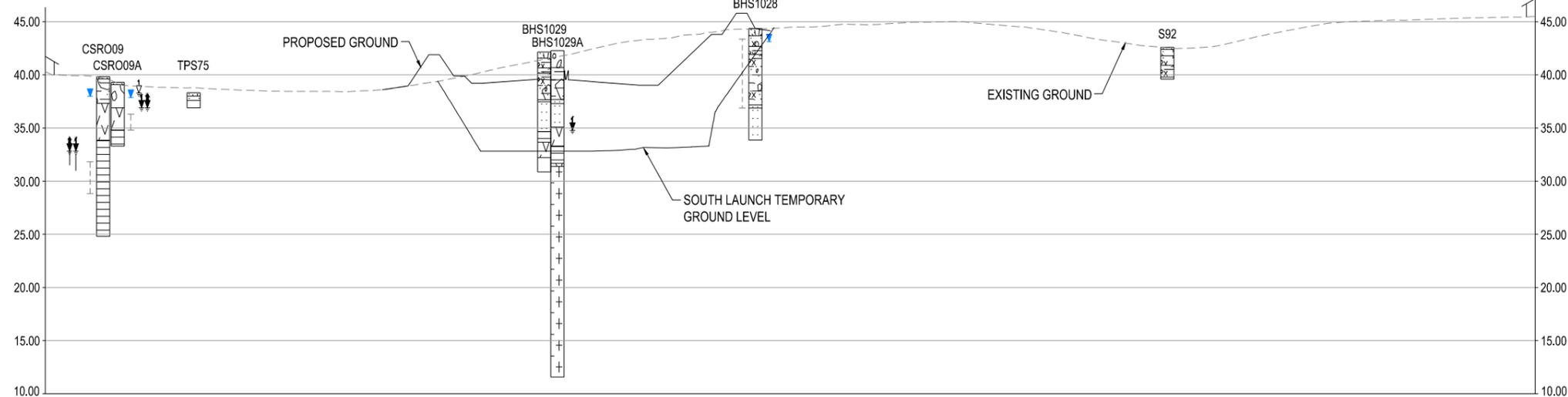
HOLE REF.	INVESTIGATION TYPE	HOLE REF.	INVESTIGATION TYPE
CSRO01	ROTARY OPEN HOLE	CSTP01	TRIAL PIT
CSRH01	CABLE PERCUSSION	CMT01	CONFIRMATORY MARINE TRIAL PIT
CS-CPT-01	STATIC CONE PENETRATION	CMB01	CONFIRMATORY MARINE BOREHOLE
CSRC01	ROTARY CORE		

FORTH REPLACEMENT CROSSING NETWORK CONNECTIONS SOUTH - CONFIRMATORY GROUND INVESTIGATION (GLOVERS, 2011)

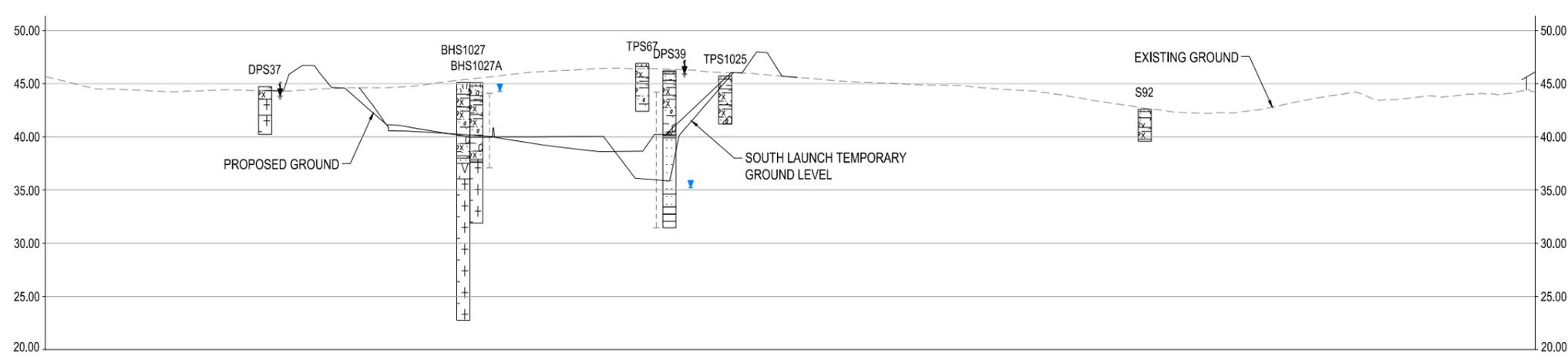
General Key:

- Denotes Observation Borehole Response Zone
- Monitored Water Levels (representing mid range water levels)

SOUTHERN NETWORK PLAN SHOWING SECTIONS E & M
SCALE = 1:1250



SOUTH NETWORK CONNECTION - SECTION M
SCALE = 1:750 HORIZONTAL & N.T.S VERTICAL



SOUTH NETWORK CONNECTION - SECTION E
SCALE = 1:750 HORIZONTAL & N.T.S VERTICAL

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Rev	Rev. Date	Purpose of revision	Design	Checked	Approved

Project
FORTH REPLACEMENT CROSSING

Drawing Title
SOUTHERN NETWORK CONNECTIONS
SECTIONS E & M

File Reference
Design JV

Independent checker
AECOM

Design/Drawn by: JUES **Checked by:** HC **Approved by:** DJV

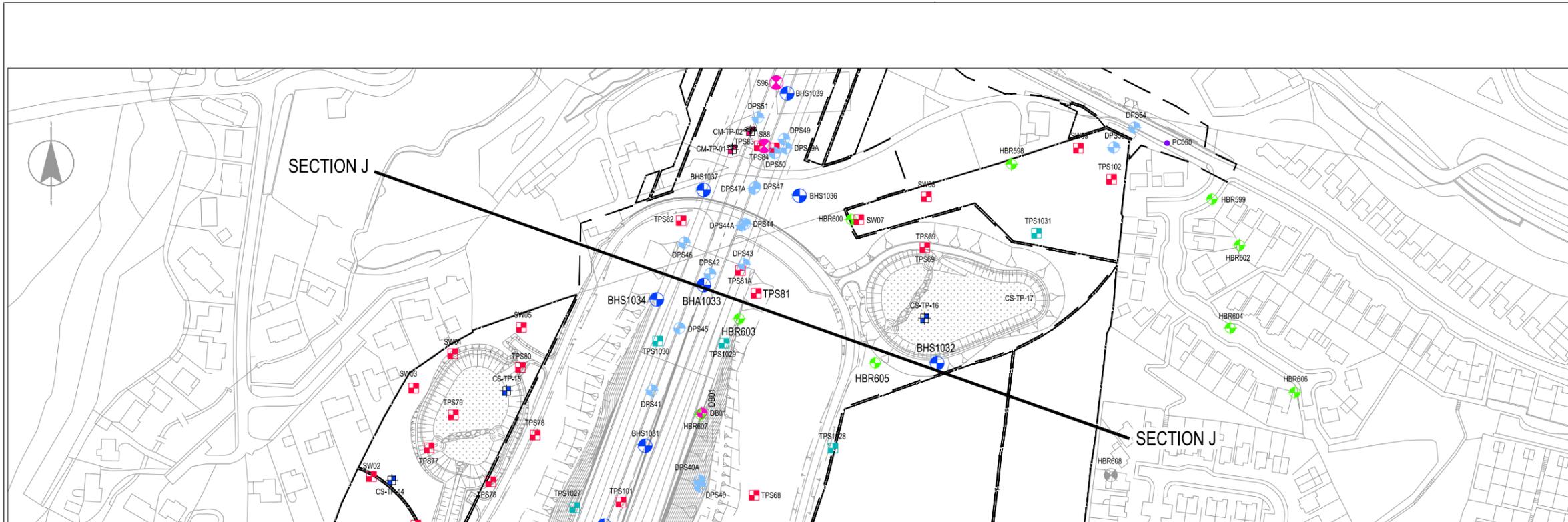
Initials: JUES **Initials:** HC **Initials:** DR

Scale: N.T.S @ A1 **DO NOT SCALE**

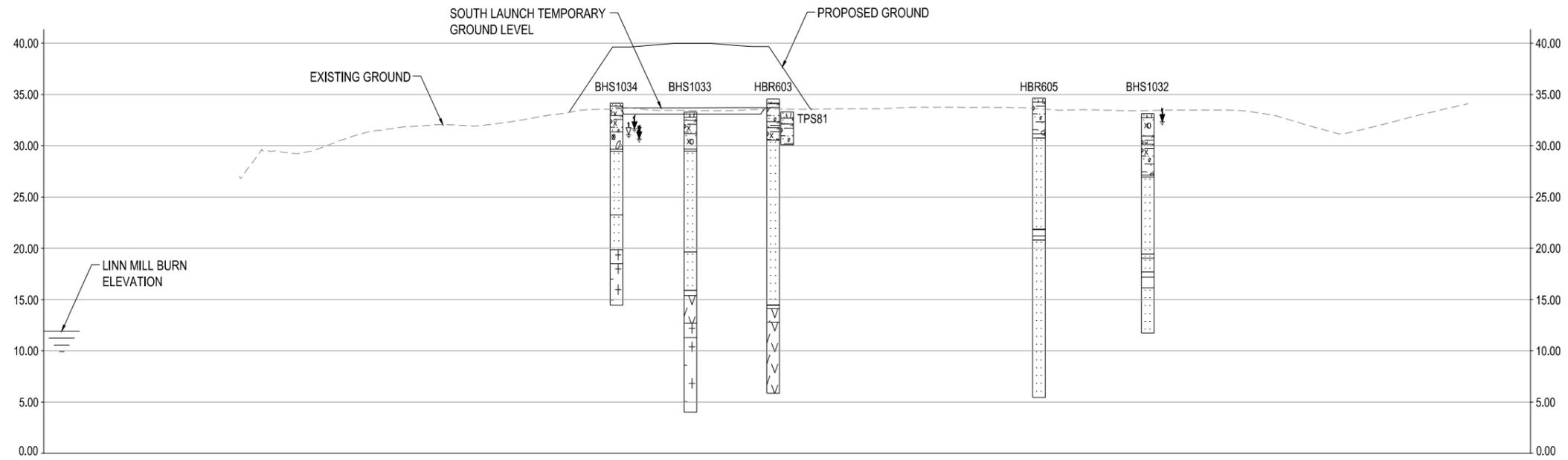
Drawing number
FIGURE 5

Rev
-

A1 - DO NOT SCALE



SOUTHERN NETWORK PLAN SHOWING SECTION J
SCALE = 1:1250



SOUTH NETWORK CONNECTION - SECTION J
SCALE = 1:750 HORIZONTAL & N.T.S VERTICAL

NOTE: GROUND INVESTIGATIONS / INFORMATION SHOWN, ARE NOT TAKEN DIRECTLY ON THE LINE OF THE LONGSECTION. LEVELS TO TOP MAY APPEAR TO BE ABOVE AND BELOW THE LINE OF EXISTING GROUND, DUE TO THEIR DIFFERING PROXIMITY BEFORE AND BEYOND THE LINE OF THE LONGSECTION.

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EXISTING SITE INVESTIGATION ELEVATION LEGEND:

MAIN SOILS	ROCK TYPES
MADE GROUND	TOPSOIL
SOFT ORGANIC CLAY	MUDSTONE
CLAY	SILTSTONE
SILT	SANDSTONE
SAND	LIMESTONE
GRAVEL	Coarse-grained Igneous Rock (GABBRO)
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EXAMPLES OF COMPOSITE SOILS

- Sandy Gravelly CLAY
- Clayey gravelly SAND
- SAND AND GRAVEL

Ground Water Strike
Ground Water Level after 20 minutes

Due to the variation in soil types presented on the exploratory hole records used during the completion of these drawings, only the principal soil types are shown here. Example composite soils are given to represent the arrangement of subsoils layers within main soil legend classes. For full details please refer to the relevant reports and associated laboratory testing.

TYPICAL REPORT / EXPLORATORY HOLE SUMMARY LEGEND

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HOLE REF.	INVESTIGATION
BHS1016	FORTH REPLACEMENT CROSSING - DETAILED G1 - SOUTH OF THE FORTH ESTUARY (BAM RITCHES, REF. 3189, MARCH 2009, RELATING TO INVESTIGATIONS CARRIED OUT IN 2008)
BHS1032	FORTH REPLACEMENT CROSSING NETWORK CONNECTIONS SOUTH - ADDITIONAL GROUND INVESTIGATION (BAM RITCHES, REF. 3189A, DECEMBER 2009)
BHTPS43A	
TPS1031	
SW07	FORTH REPLACEMENT CROSSING NETWORK CONNECTIONS SOUTH - ADDITIONAL GROUND INVESTIGATION (BAM RITCHES, REF. 3189A, DECEMBER 2009)
TPS69	
S99	
PC050	
BP24	
DPS30	FORTH REPLACEMENT CROSSING NETWORK CONNECTIONS SOUTH - DIALOGUE PERIOD GROUND INVESTIGATION (BAM RITCHES, REF. 3189C, JULY 2010)
HBR599	BGS HISTORICAL BOREHOLE RECORDS
HBR694	
DB01	

TYPICAL REPORT / CONFIRMATORY HOLE SUMMARY LEGEND

THE FOLLOWING GROUND INVESTIGATIONS ARE RELEVANT TO SOUTH NETWORK AREAS. PLEASE REFER TO THE RELEVANT REPORTS & ASSOCIATED LABORATORY TESTING FOR DETAILED FINDINGS:

HOLE REF.	INVESTIGATION TYPE	HOLE REF.	INVESTIGATION TYPE
CSR001	ROTARY OPEN HOLE	CSTP01	TRIAL PIT
CSH001	CABLE PERCUSSION	CMT01	CONFIRMATORY MARINE TRIAL PIT
CS-CPT-01	STATIC CONE PENETRATION	CMB01	CONFIRMATORY MARINE BOREHOLE
CSRC01	ROTARY CORE		

FORTH REPLACEMENT CROSSING NETWORK CONNECTIONS SOUTH - CONFIRMATORY GROUND INVESTIGATION (GLOVERS, 2011)

General Key:

- Denotes Observation Borehole Response Zone
- Monitored Water Levels (representing mid range water levels)

Rev.	Rev. Date	Purpose of revision	Design	Checked	Approved

Contractor

Project

FORTH REPLACEMENT CROSSING

Drawing title

SOUTHERN NETWORK CONNECTIONS

SECTION J

File reference

Design JV

Independent checker

AECOM

Drawing status

Drawn/Designed by: JUES
Checked by: HC
Approved by: DJV

Initials: JUES
Initials: HC
Initials: DR

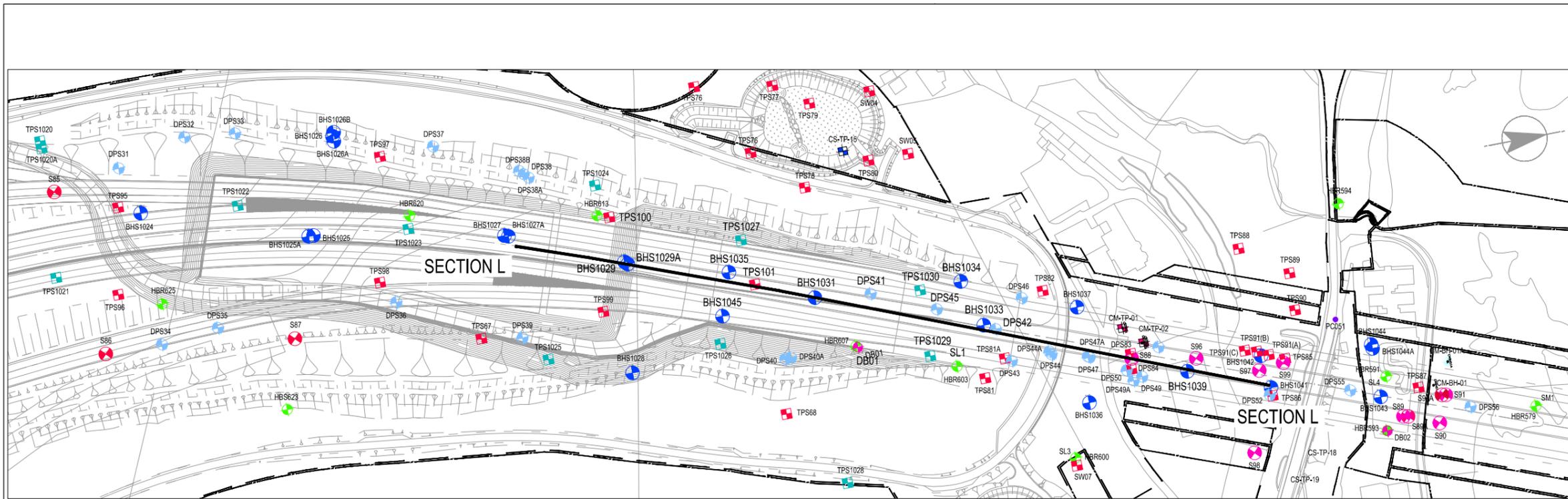
Scale: N.T.S @ A1
DO NOT SCALE

Drawing number

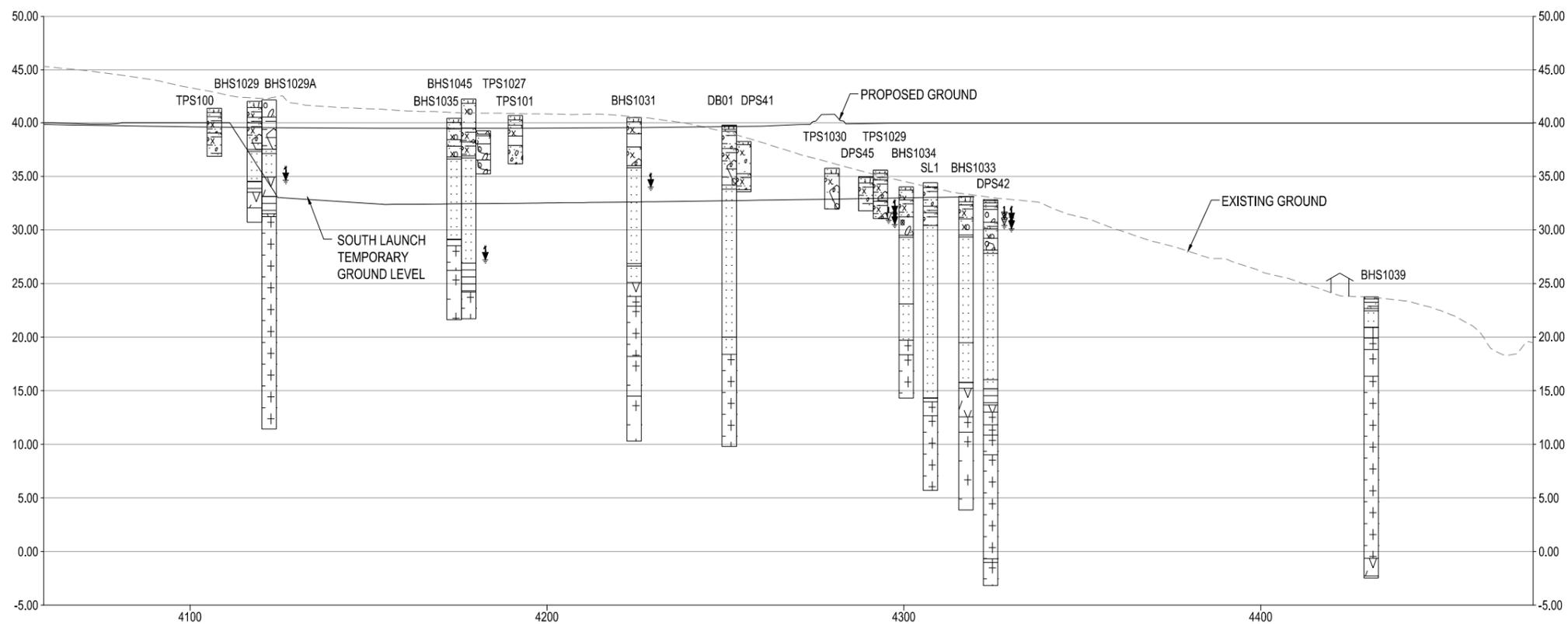
FIGURE 7

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A1 - DO NOT SCALE



SOUTHERN NETWORK PLAN SHOWING SECTIONS L
SCALE = 1:1250



SOUTH NETWORK CONNECTION - SECTION L
SCALE = 1:750 HORIZONTAL & N.T.S VERTICAL

NOTE: GROUND INVESTIGATIONS / INFORMATION SHOWN, ARE NOT TAKEN DIRECTLY ON THE LINE OF THE LONGSECTION. LEVELS TO TOP MAY APPEAR TO BE ABOVE AND BELOW THE LINE OF EXISTING GROUND, DUE TO THEIR DIFFERING PROXIMITY BEFORE AND BEYOND THE LINE OF THE LONGSECTION.

DRAWING NOTES

- General Notes:**
1. This drawing shall only be used for the design element stated in the drawing title.
 2. Only written dimensions shall be used.
 3. All dimensions are in millimetres unless noted otherwise.
 4. All chainages & levels are in metres & all area chainages along centre line of alignment

EXISTING SITE INVESTIGATION ELEVATION LEGEND:

MAIN SOILS	ROCK TYPES
MADE GROUND	TOPSOIL
SOFT ORGANIC CLAY	MUDSTONE
CLAY	SILTSTONE
SILT	SANDSTONE
SAND	LIMESTONE
GRAVEL	Coarse-grained Igneous Rock (GABBRO)
COBBLES	Medium-grained Igneous Rock (DOLERITE)
BOULDERS	Fine-grained Igneous Rock (BASALT)

EXAMPLES OF COMPOSITE SOILS

Sandy Gravely CLAY | Clayey gravely SAND | SAND AND GRAVEL

Ground Water Strike | Ground Water Level after 20 minutes

Due to the variation in soil types presented on the existing site records and during the completion of these drawings, only the principal soil types are shown here. Examples composite soils are given to represent the arrangement of subsoil layers within main soil legend boxes. For full details refer to the relevant reports and associated laboratory testing for detailed findings.

TYPICAL REPORT / EXPLORATORY HOLE SUMMARY LEGEND

THE FOLLOWING GROUND INVESTIGATIONS ARE RELEVANT TO SOUTH NETWORK AREAS PLEASE REFER TO THE RELEVANT REPORTS & ASSOCIATED LABORATORY TESTING FOR DETAILED FINDINGS:

HOLE REF.	INVESTIGATION
BHS1010	FORTH REPLACEMENT CROSSING - DETAILED G1 - SOUTH OF THE FORTH ESTUARY (BAM RITCHES, REF. 3189, MARCH 2009, RELATING TO INVESTIGATIONS CARRIED OUT IN 2008)
BHS1032	
BHTPS43A	
TPS1031	
SW07	FORTH REPLACEMENT CROSSING NETWORK CONNECTIONS SOUTH - ADDITIONAL GROUND INVESTIGATION (BAM RITCHES, REF. 3189A, DECEMBER 2009)
TPS99	
S99	
PC050	
BP24	
DPS30	FORTH REPLACEMENT CROSSING NETWORK CONNECTIONS SOUTH - DIALOGUE PERIOD GROUND INVESTIGATION (BAM RITCHES, REF. 3189C, JULY 2010)
HBR599	BGS HISTORICAL BOREHOLE RECORDS
HBR694	
DB01	

TYPICAL REPORT / CONFIRMATORY HOLE SUMMARY LEGEND

THE FOLLOWING GROUND INVESTIGATIONS ARE RELEVANT TO SOUTH NETWORK AREAS PLEASE REFER TO THE RELEVANT REPORTS AND ASSOCIATED LABORATORY TESTING FOR DETAILED FINDINGS:

HOLE REF.	INVESTIGATION TYPE	HOLE REF.	INVESTIGATION TYPE
CSRC01	ROTARY OPEN HOLE	CS1P01	TRIAL PIT
CS3H01	CABLE PERCUSSION	CMTR01	CONFIRMATORY MARINE TRIAL PIT
CS-CPT-01	STATIC CONE PENETRATION	CMBH01	CONFIRMATORY MARINE BOREHOLE
CSRC01	ROTARY CORE		

FORTH REPLACEMENT CROSSING NETWORK CONNECTIONS SOUTH - CONFIRMATORY GROUND INVESTIGATION (GLOVERS, 2011)

General Key:

- Denotes Observation Borehole Response Zone
- Monitored Water Levels (representing mid range water levels)

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Approved

Contractor: Forth Crossing Bridge Constructors
Hochtief Solutions, American Bridge International, DRAGADIS, Morrison Construction

Project: FORTH REPLACEMENT CROSSING

Drawing title: SOUTHERN NETWORK CONNECTIONS
SECTIONS L

File reference:

Design JV: RAMBOLL | Grontmij

Independent checker: AECOM | Sope Wilson

Drawn/Designed by: JUES | **Checked by:** HC | **Approved by/DJV:** DR

Scale: N.T.S @ A1 | **DO NOT SCALE**

Drawing number: FIGURE 10

A1 - DO NOT SCALE