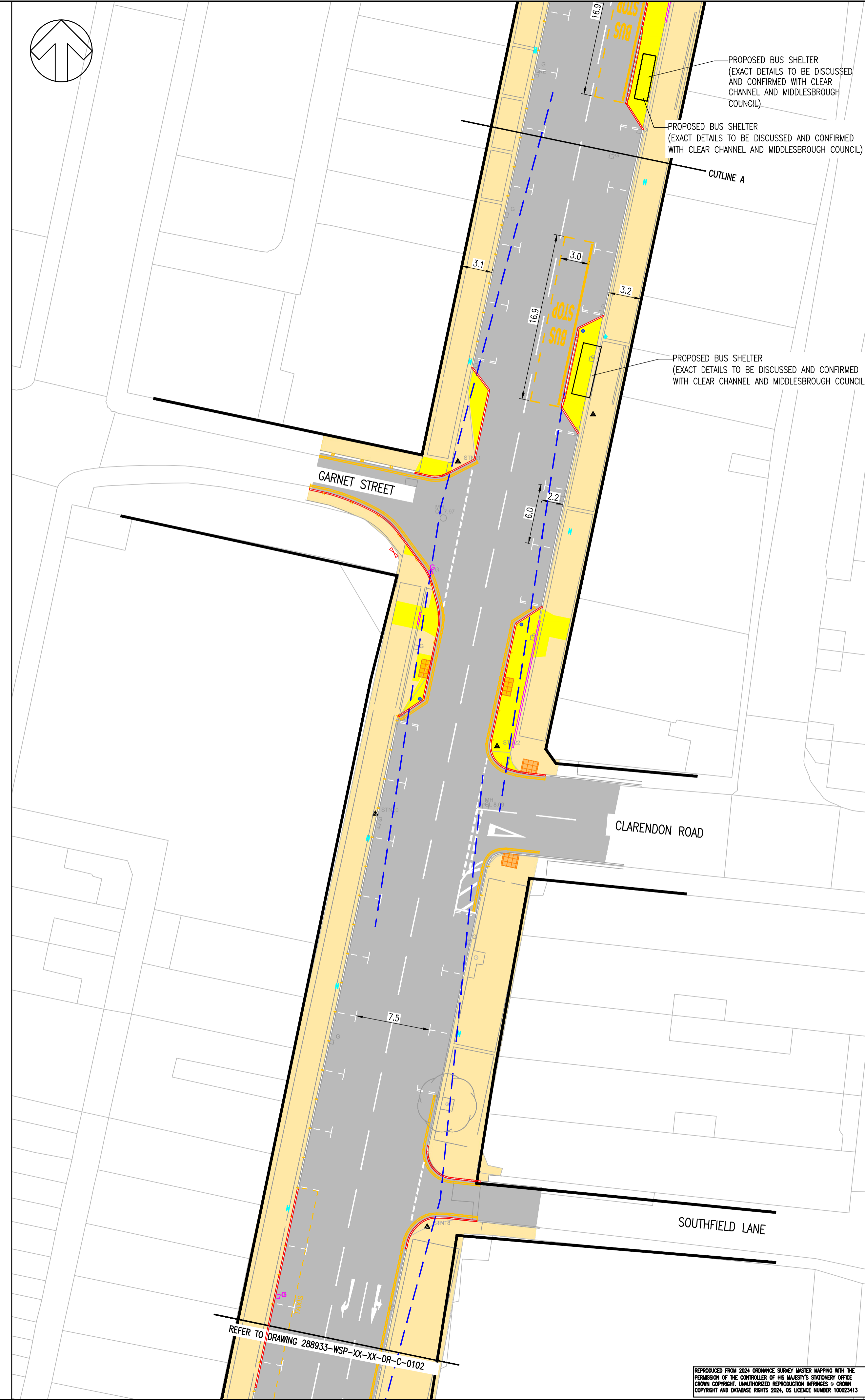
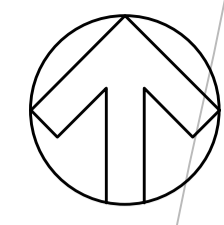


KEY

- HIGHWAY BOUNDARY (REFER TO NOTE 8)
- PROPOSED CARRIAGEWAY
- EXISTING FOOTWAY
- PROPOSED FOOTWAY
- PROPOSED KERB
- PROPOSED BUFF BLISTER TACTILE PAVING
- PROPOSED RED BLISTER TACTILE PAVING
- PROPOSED TRAFFIC SIGN
- PROPOSED ILLUMINATED TRAFFIC SIGN
- PROPOSED BOLLARD
- PROPOSED DRAINAGE CHANNEL
- PROPOSED DRAINAGE GULLY
- PROPOSED WHITE LINE ROAD MARKING
- PROPOSED YELLOW LINE ROAD MARKING
- VISIBILITY SPLAY (43M SSD FOR 30MPH VEHICLE SPEED)
- EXISTING TREE

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HEALTH AND SAFETY SYMBOLS LEGEND

	INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION		INDICATES A RESIDUAL RISK FOR INFORMATION
	INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION		INDICATES A RESIDUAL RISK AS A WARNING
	INDICATES AN ENVIRONMENTAL HAZARD		

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REV	DATE	BY	DESCRIPTION	CHK	APP
P04	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
P03	03/09/24	NR	UPDATED FOLLOWING CLIENT REVIEW	JS	PWW
P02	31/07/24	NR	ISSUED FOR CLIENT APPROVAL	JS	PWW
P01	23/07/24	NR	ISSUE FOR COST ESTIMATE	JS	PWW
DR	10/07/24	NR	DRAFT ISSUE	JS	PWW

DRAWING STATUS: S2 - FOR INFORMATION

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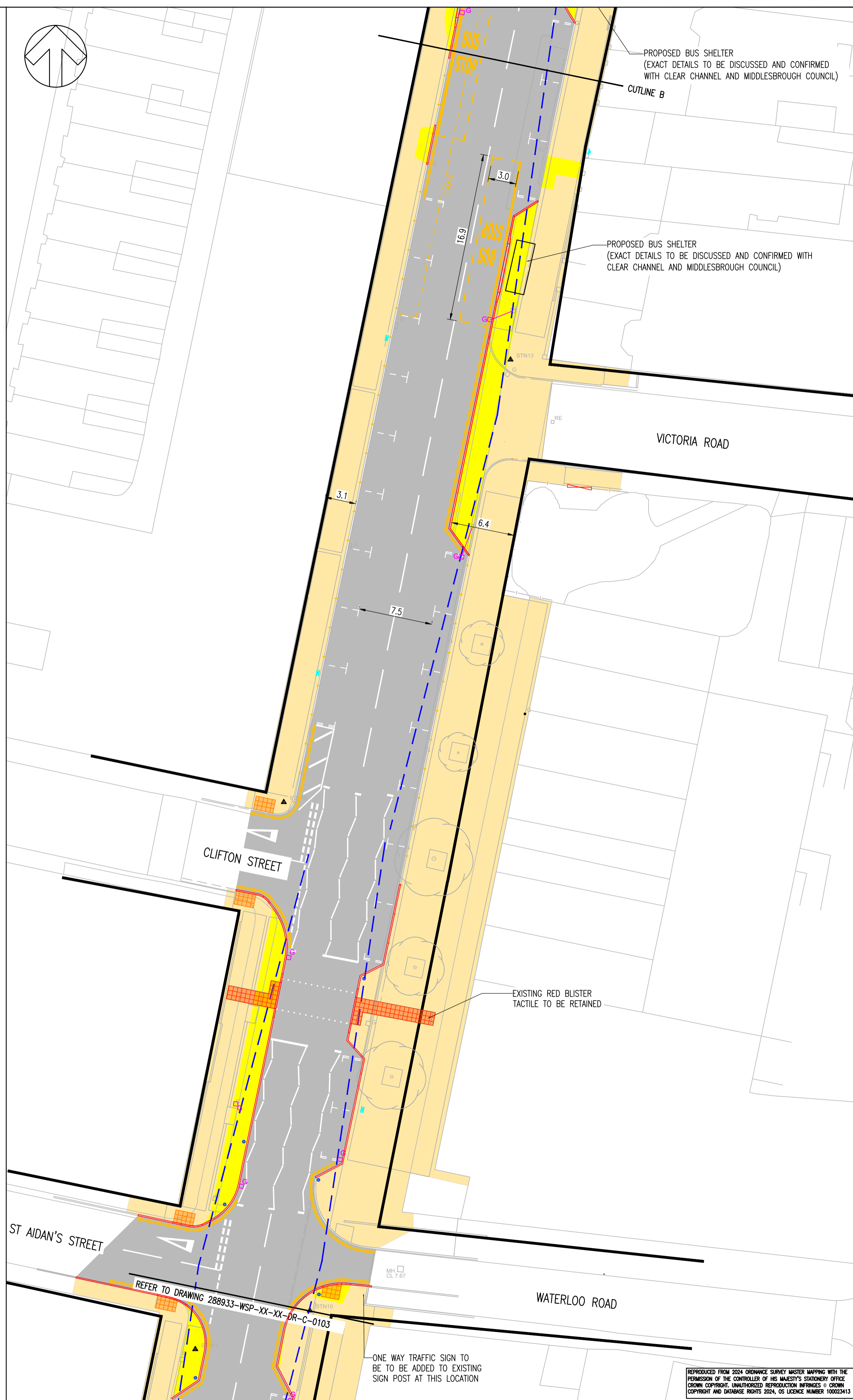
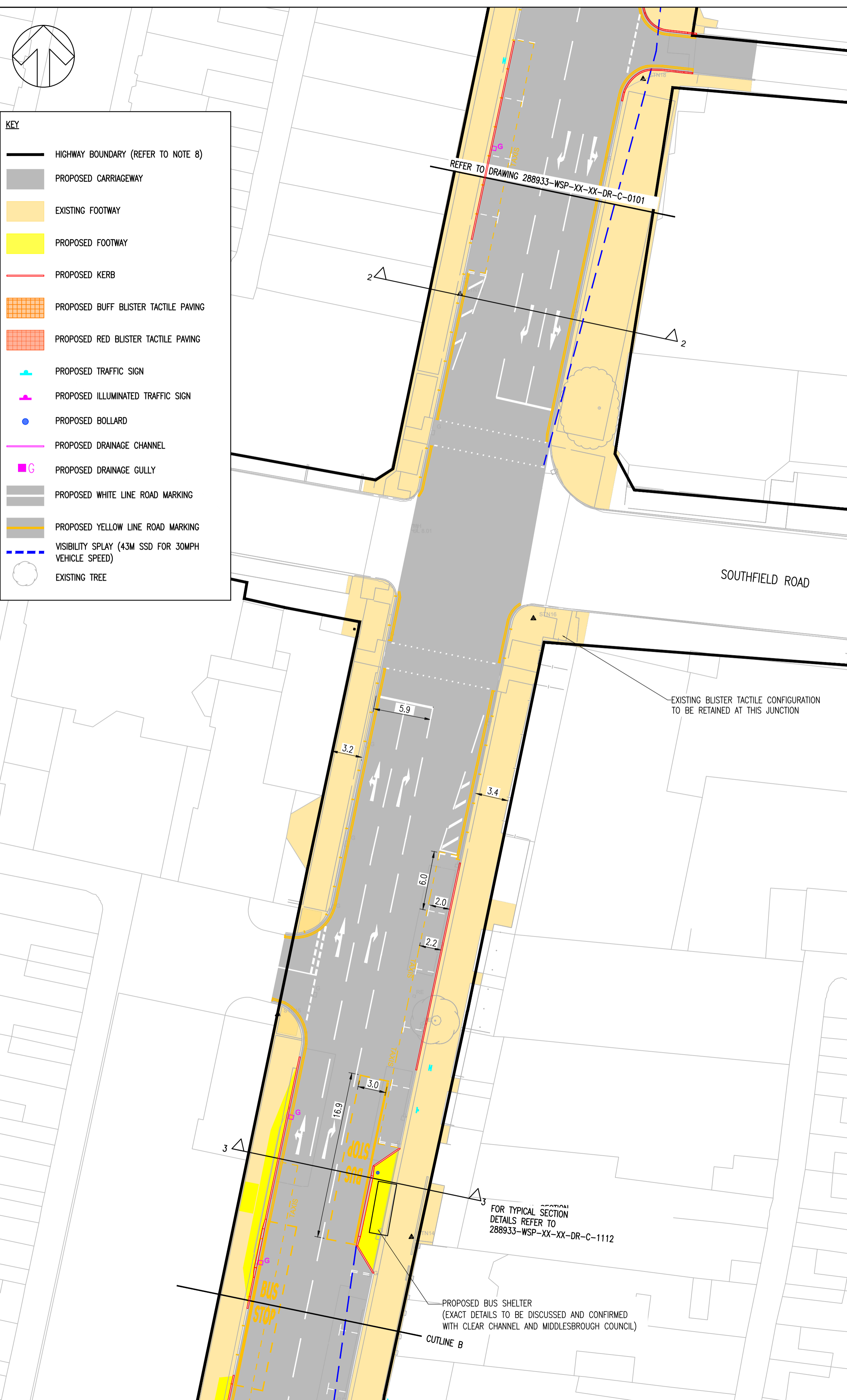
SITE/PROJECT: LINTHORPE ROAD RESTORATION

TITLE: GENERAL ARRANGEMENT (SHEET 1 OF 4)

SCALE @ A1: 1:250	CHECKED: JS	APPROVED: PWW
PROJECT NO: 2024UK293315	DESIGNED: NR	DRAWN: NR
DRAWING NO: 288933-WSP-XX-XX-DR-C-000101	DATE: JULY 2024	REV: P04

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PO4	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
PO3	03/09/24	NR	UPDATED FOLLOWING CLIENT REVIEW	JS	PWW
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PO1	23/07/24	NR	ISSUE FOR COST ESTIMATE	JS	PWW
DR	10/07/24	NR	DRAFT ISSUE	JS	PWW
REV	DATE	BY	DESCRIPTION	CHK	APP

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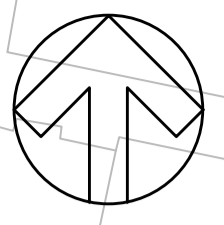
SITE/PROJECT: **LINTHORPE ROAD RESTORATION**

TITLE: **GENERAL ARRANGEMENT (SHEET 2 OF 4)**

SCALE @ A1: 1:250	CHECKED: JS	APPROVED: PWW
PROJECT NO: 2024UK293315	DESIGNED: NR	DRAWN: NR
		DATE: JULY 2024
DRAWING NO: 288933-WSP-XX-XX-DR-C-000102	REV: P04	

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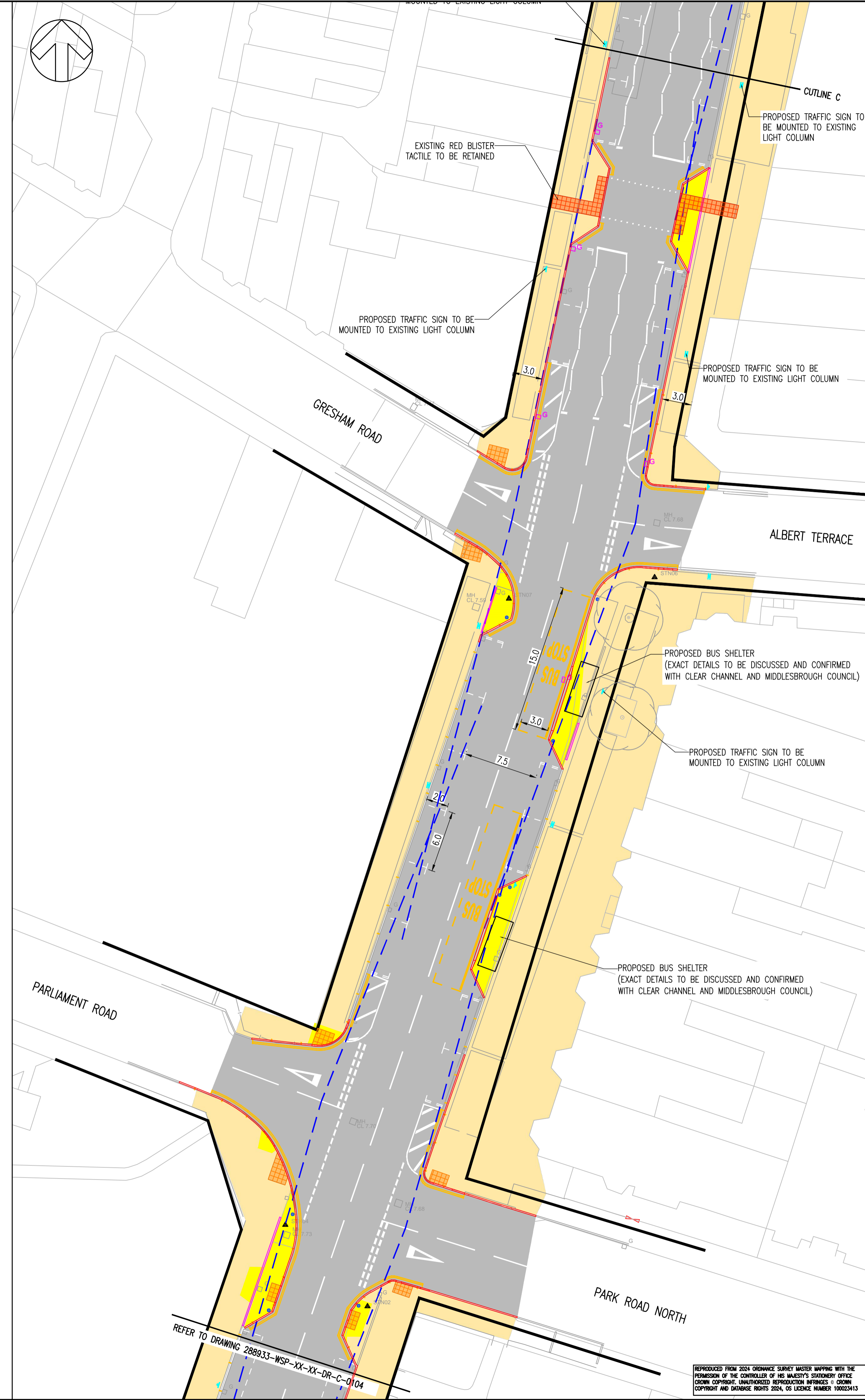
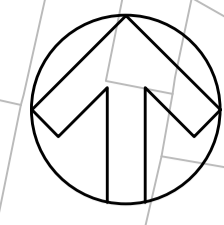
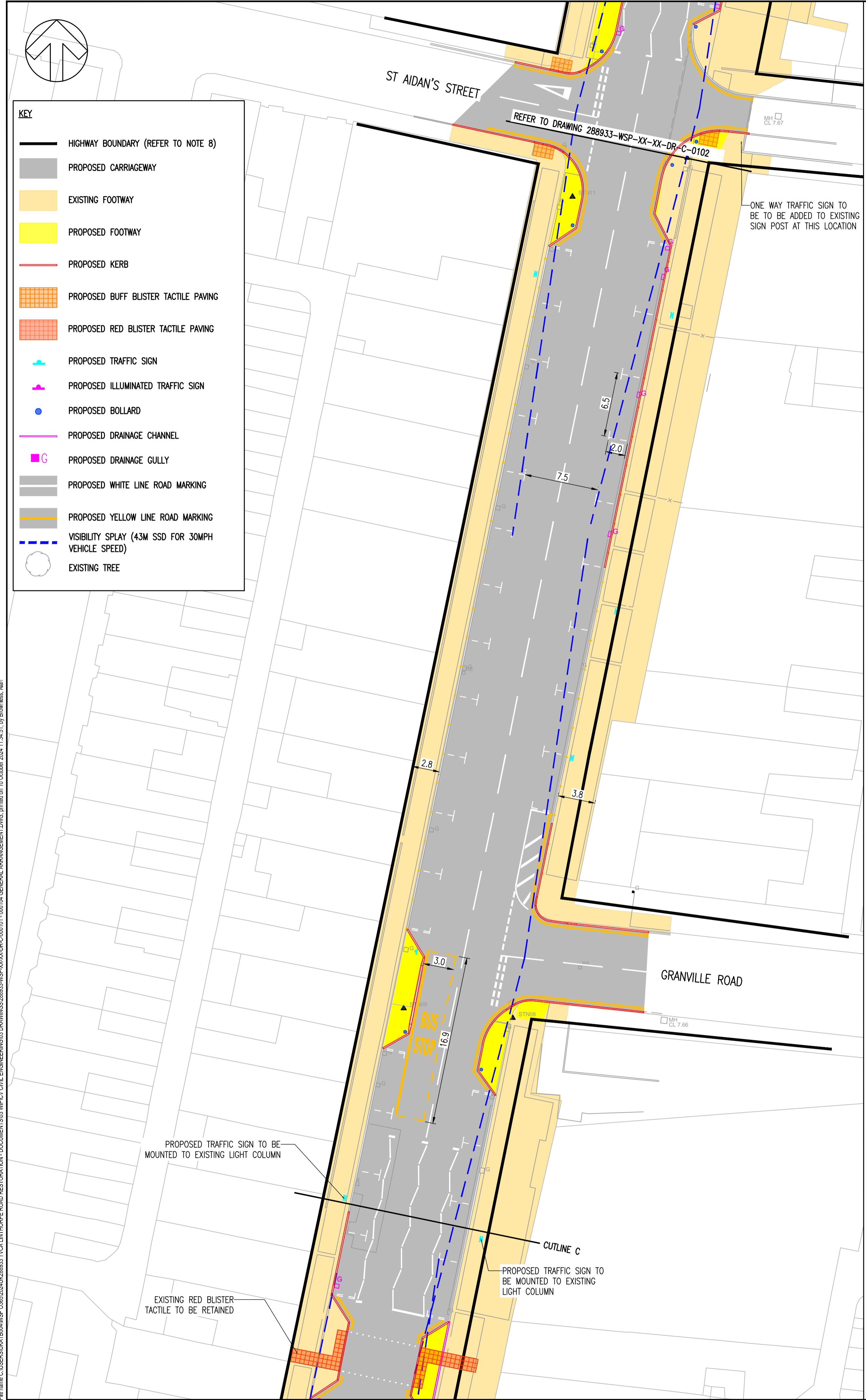
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KEY

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- EXISTING TREE

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REV	DATE	BY	DESCRIPTION	CHK	APP
P04	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
P03	03/09/24	NR	UPDATED FOLLOWING CLIENT REVIEW	JS	PWW
P02	31/07/24	NR	ISSUE FOR CLIENT APPROVAL	JS	PWW
P01	23/07/24	NR	ISSUE FOR COST ESTIMATE	JS	PWW
DR	10/07/24	NR	DRAFT ISSUE	JS	PWW

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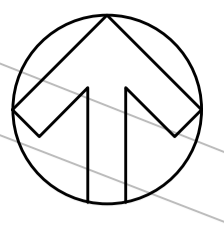
SITE/PROJECT: LINTHORPE ROAD RESTORATION

TITLE: GENERAL ARRANGEMENT (SHEET 3 OF 4)

SCALE @ A1: 1:250	CHECKED: JS	APPROVED: PWW
PROJECT NO: 2024UK293315	DESIGNED: NR	DRAWN: NR
DRAWING NO: 288933-WSP-XX-XX-DR-C-000103	DATE: JULY 2024	REV: P04

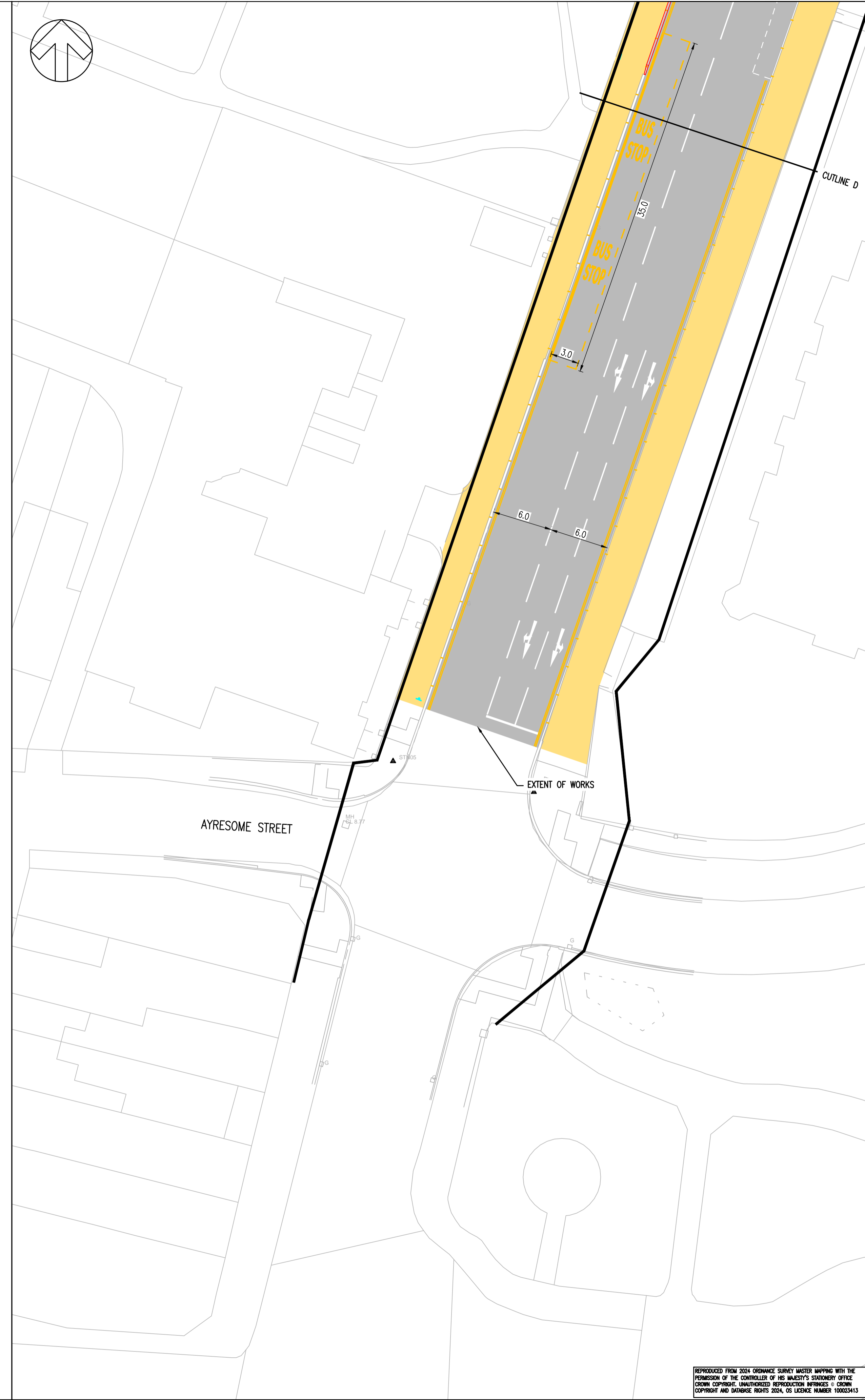
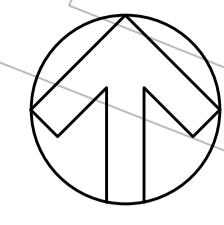
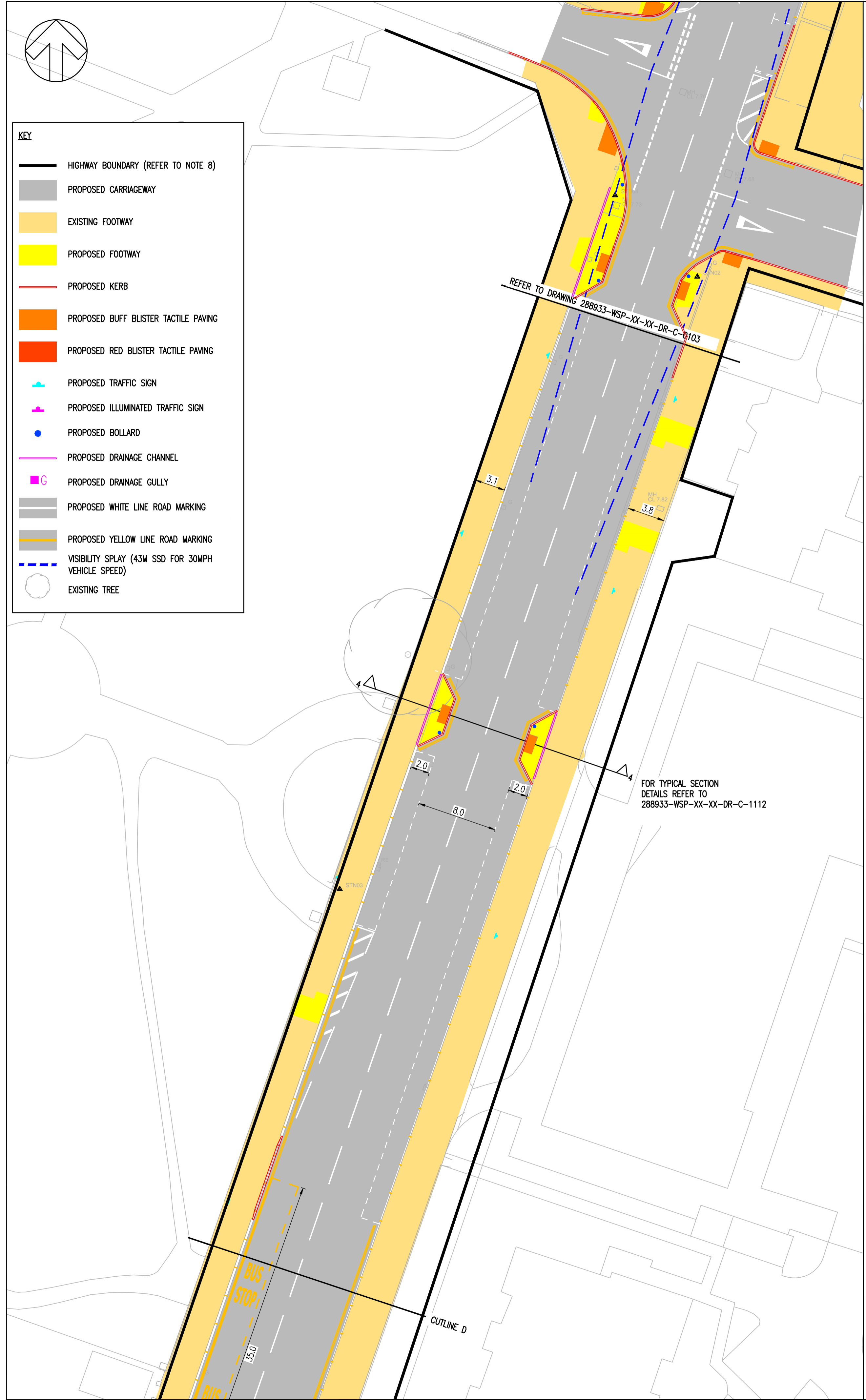
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KEY

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PO4	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
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REV	DATE	BY	DESCRIPTION	CHK	APP

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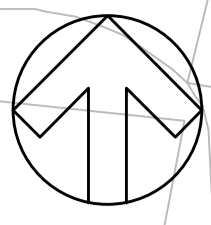
SITE/PROJECT: **LINTHORPE ROAD RESTORATION**

TITLE: **GENERAL ARRANGEMENT (SHEET 4 OF 4)**

SCALE @ A1:	1:250	CHECKED:	JS	APPROVED:	PWW
PROJECT NO:	2024UK293315	DESIGNED:	NR	DRAWN:	NR
DRAWING NO:	288933-WSP-XX-XX-DR-C-000104	DATE:	JULY 2024	REV:	P04

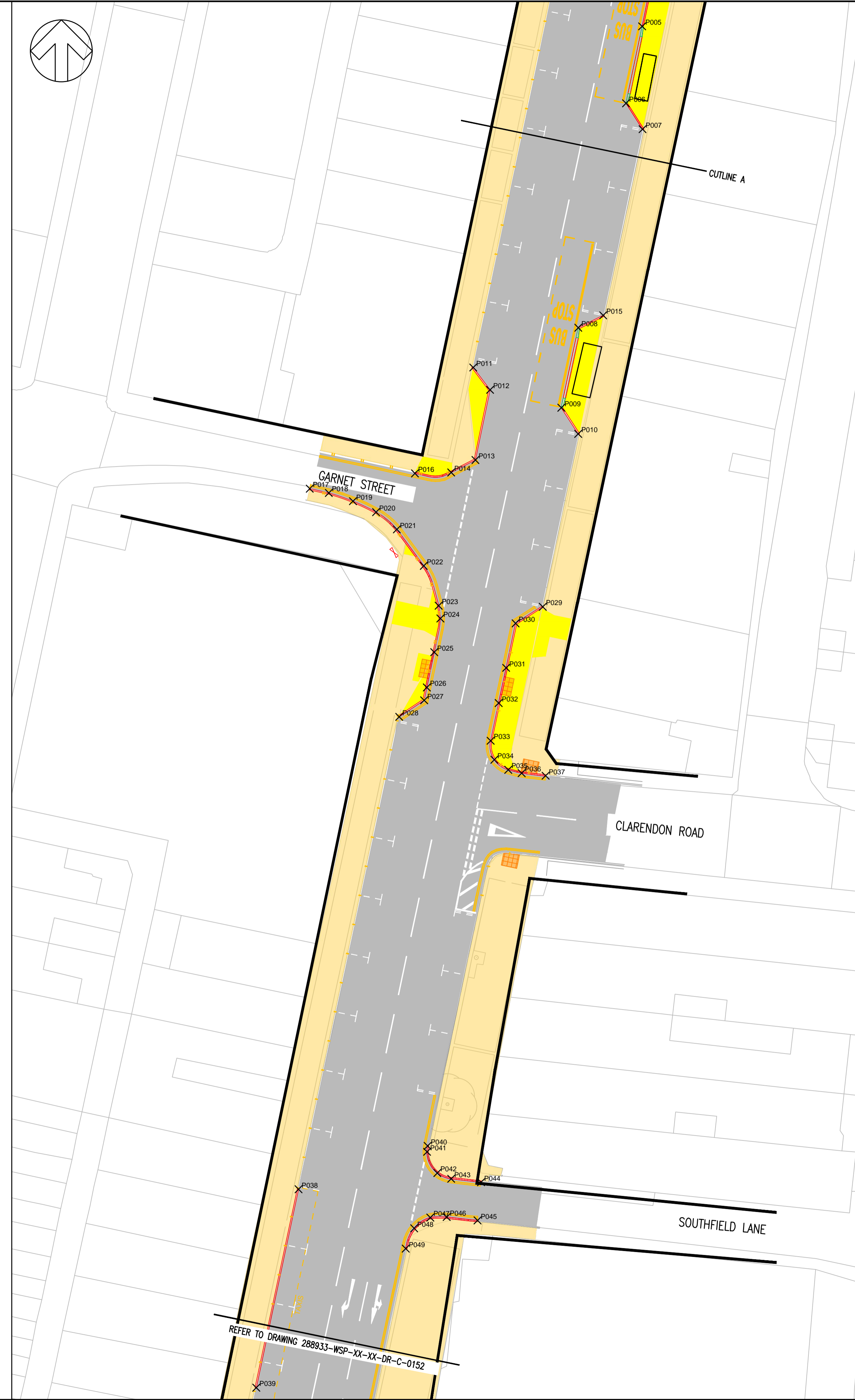
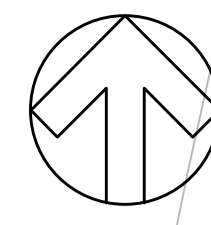
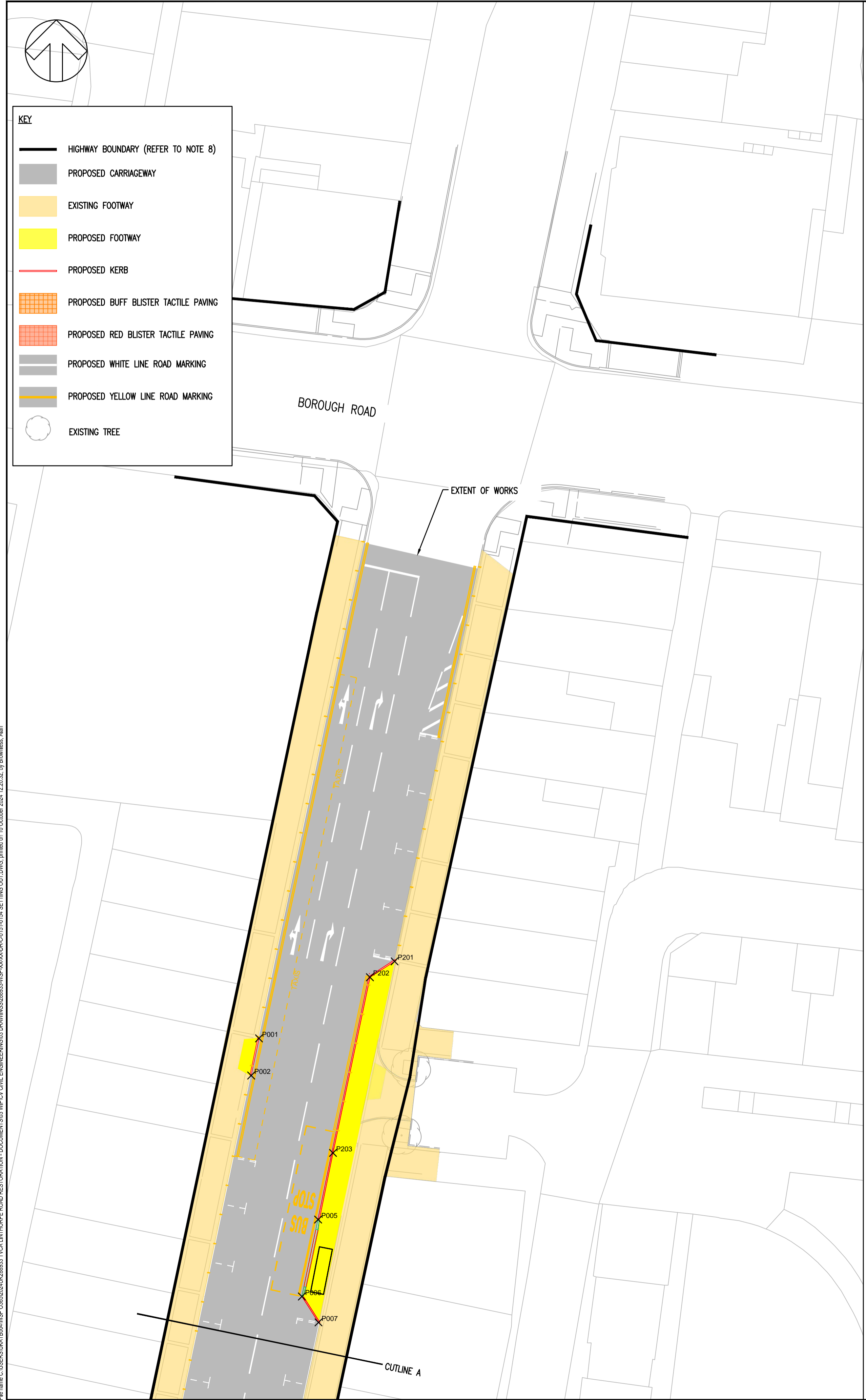
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SAFETY HEALTH & ENVIRONMENTAL INFORMATION BOX

HEALTH AND SAFETY SYMBOLS LEGEND

	INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION		INDICATES A RESIDUAL RISK FOR INFORMATION
	INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION		INDICATES A RESIDUAL RISK AS A WARNING
	INDICATES AN ENVIRONMENTAL HAZARD		

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PO2	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
P01	12/09/24	NR	ISSUED FOR CLIENT APPROVAL	JS	PWW
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **S2 - FOR INFORMATION**

wsp

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ, UK
T+ 44 (0) 191 226 2000, F+ 44 (0) 191 226 2104
wsp.com

CLIENT:

TEES VALLEY

SITE/PROJECT: **LINTHORPE ROAD RESTORATION**

TITLE: **SETTING OUT (SHEET 1 OF 4)**

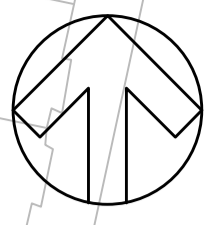
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PROJECT NO:	2024UK293315	DESIGNED:	NR	DRAWN:	NR
DATE:	JULY 2024	DATE:	JULY 2024	DATE:	JULY 2024

DRAWING NO:	288933-WSP-XX-XX-DR-C-0151	REV:	P02
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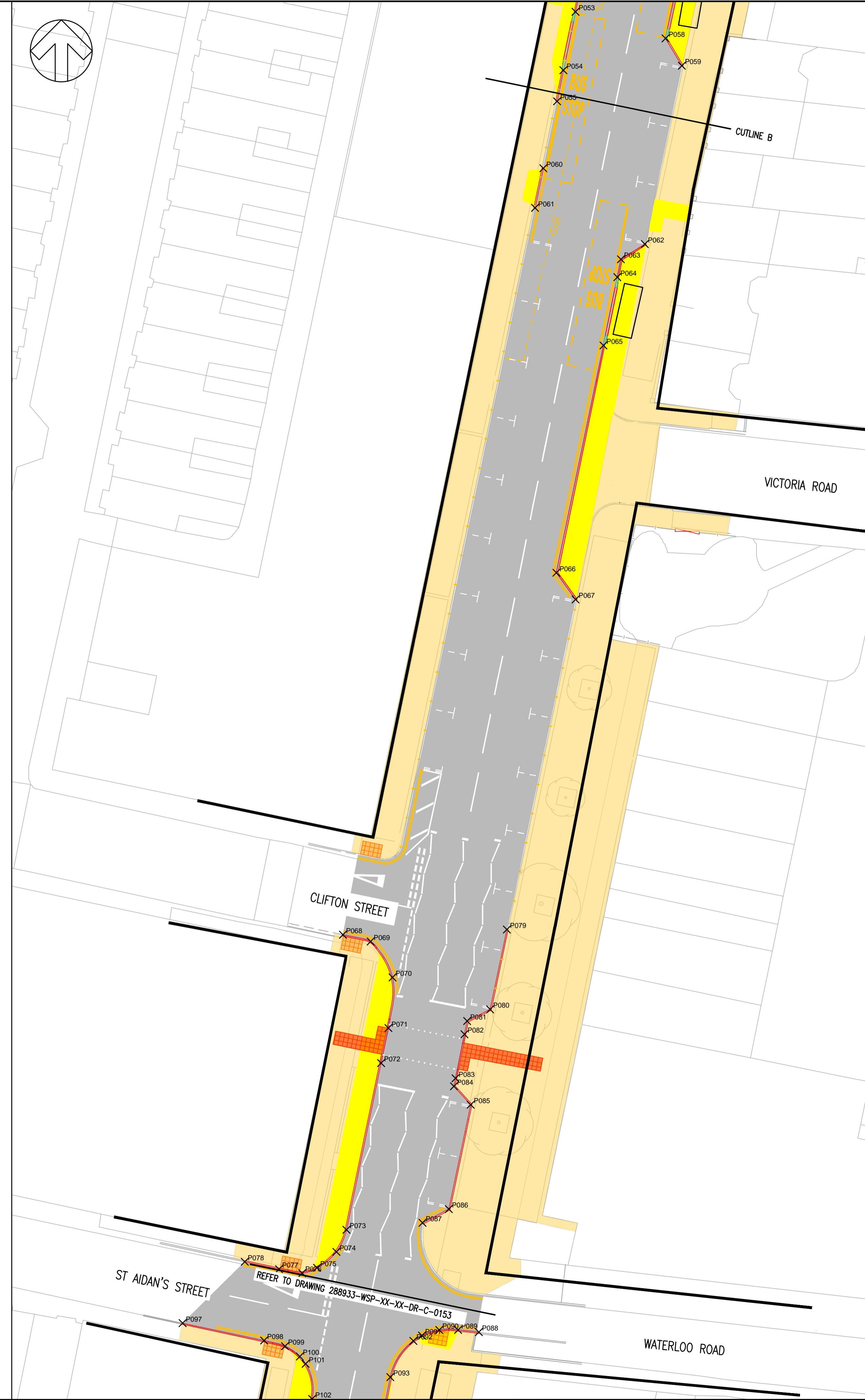
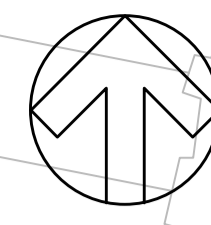
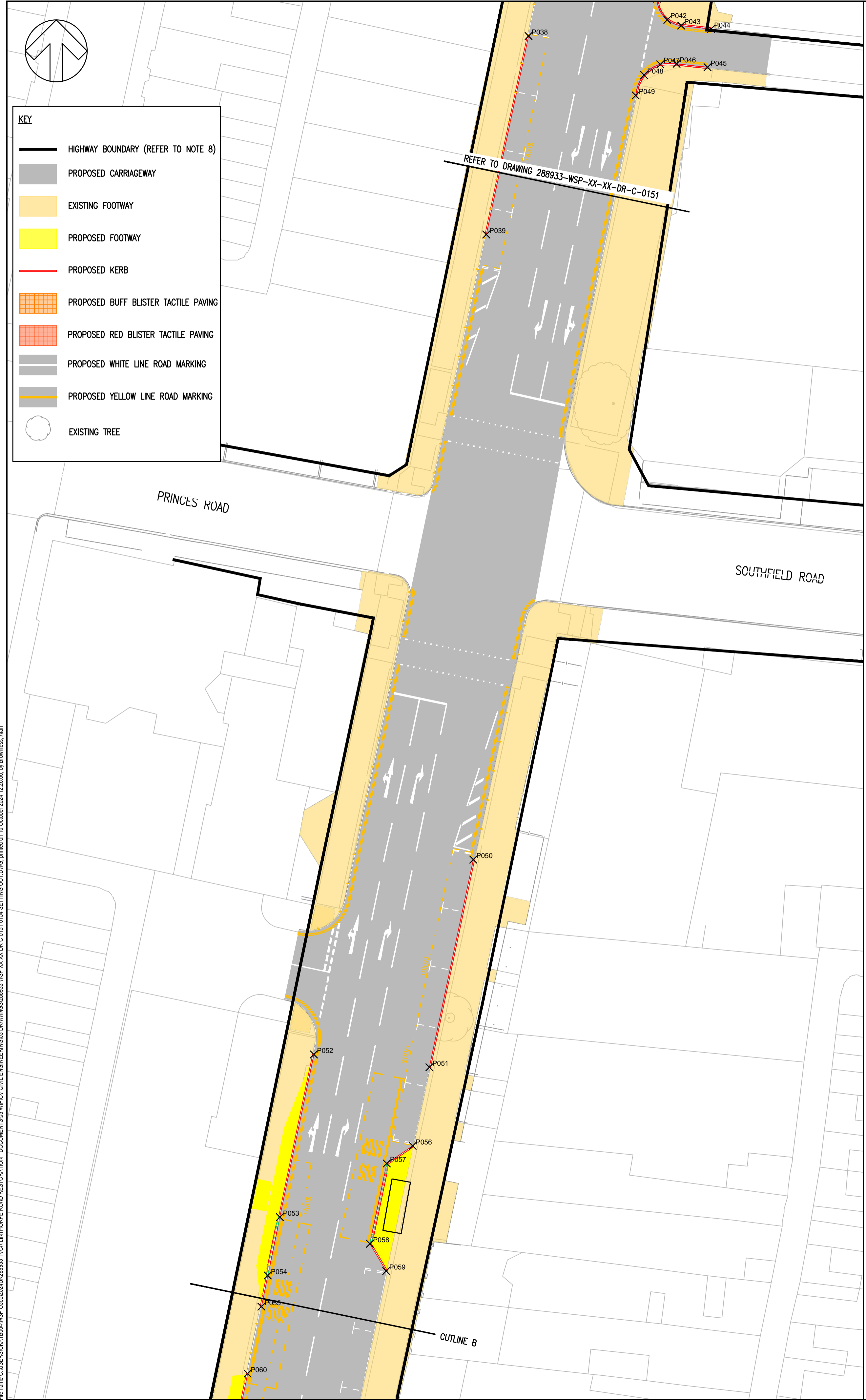
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REFER TO DRAWING 288933-WSP-XX-XX-DR-C-0152



KEY

- HIGHWAY BOUNDARY (REFER TO NOTE 8)
- PROPOSED CARRIAGEWAY
- EXISTING FOOTWAY
- PROPOSED FOOTWAY
- PROPOSED KERB
- PROPOSED BUFF BLISTER TACTILE PAVING
- PROPOSED RED BLISTER TACTILE PAVING
- PROPOSED WHITE LINE ROAD MARKING
- PROPOSED YELLOW LINE ROAD MARKING
- EXISTING TREE



DO NOT SCALE

- NOTES**
1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELATED DOCUMENTATION, DRAWINGS AND STANDARD DETAILS.
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 5. THE DESIGN IS BASED ON TOPOGRAPHICAL SURVEY REFERENCE ASS 2963 BY ADH SITE SURVEYS LIMITED RECEIVED FEBRUARY 2021
 6. REFERENCE SHOULD BE MADE TO INDIVIDUAL DISCIPLINE DRAWINGS AND THE DESIGN RISK MANAGEMENT SCHEDULE FOR FURTHER HEALTH AND SAFETY INFORMATION - NOT ALL RISKS ARE IDENTIFIED IN THIS DRAWING.
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SAFETY HEALTH & ENVIRONMENTAL INFORMATION BOX

HEALTH AND SAFETY SYMBOLS LEGEND

	INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION		INDICATES A RESIDUAL RISK FOR INFORMATION
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	INDICATES AN ENVIRONMENTAL HAZARD		

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PO2	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
P01	12/09/24	NR	ISSUED FOR CLIENT APPROVAL	JS	PWW
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: S2 - FOR INFORMATION

wsp

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ, UK
T+ 44 (0) 191 226 2000, F+ 44 (0) 191 226 2104
wsp.com

CLIENT:

TEES VALLEY

SITE/PROJECT: LINTHORPE ROAD RESTORATION

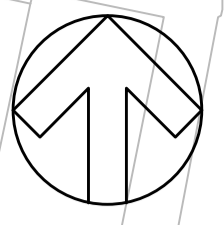
TITLE: SETTING OUT (SHEET 2 OF 4)

SCALE @ A1: 1:250	CHECKED: JS	APPROVED: PWW
PROJECT NO: 2024UK293315	DESIGNED: NR	DRAWN: NR
		DATE: JULY 2024

DRAWING NO: 288933-WSP-XX-XX-DR-C-0152 REV: P02

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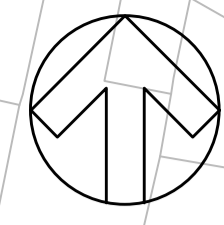
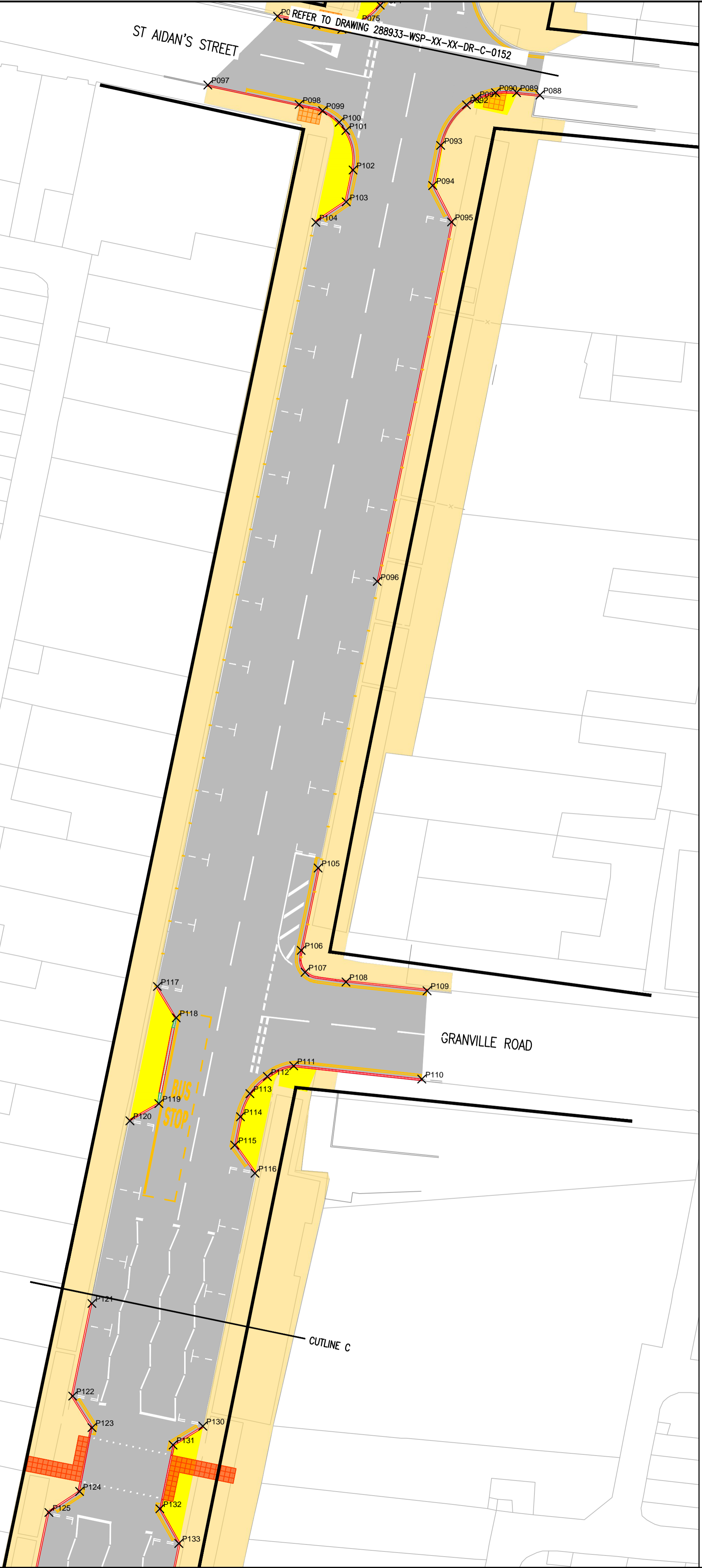
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ST AIDAN'S STREET
REFER TO DRAWING 288933-WSP-XX-XX-DR-C-0152

KEY

- HIGHWAY BOUNDARY (REFER TO NOTE 8)
- PROPOSED CARRIAGEWAY
- EXISTING FOOTWAY
- PROPOSED FOOTWAY
- PROPOSED KERB
- PROPOSED BUFF BLISTER TACTILE PAVING
- PROPOSED RED BLISTER TACTILE PAVING
- PROPOSED WHITE LINE ROAD MARKING
- PROPOSED YELLOW LINE ROAD MARKING
- EXISTING TREE



GRESHAM ROAD

ALBERT TERRACE

PARLIAMENT ROAD

PARK ROAD NORTH

REFER TO DRAWING 288933-WSP-XX-XX-DR-C-0154



DO NOT SCALE

- NOTES**
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SAFETY HEALTH & ENVIRONMENTAL INFORMATION BOX

HEALTH AND SAFETY SYMBOLS LEGEND

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PO2	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
P01	12/09/24	NR	ISSUED FOR CLIENT APPROVAL	JS	PWW
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: S2 - FOR INFORMATION

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ, UK
T+44 (0) 191 226 2000, F+44 (0) 191 226 2104
wsp.com

CLIENT:

SITE/PROJECT: LINTHORPE ROAD RESTORATION

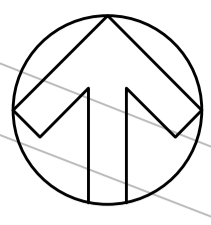
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PROJECT NO:	2024UK293315	DESIGNED:	NR	DRAWN:	NR
		DATE:	JULY 2024		

DRAWING NO:	288933-WSP-XX-XX-DR-C-0153	REV:	P02
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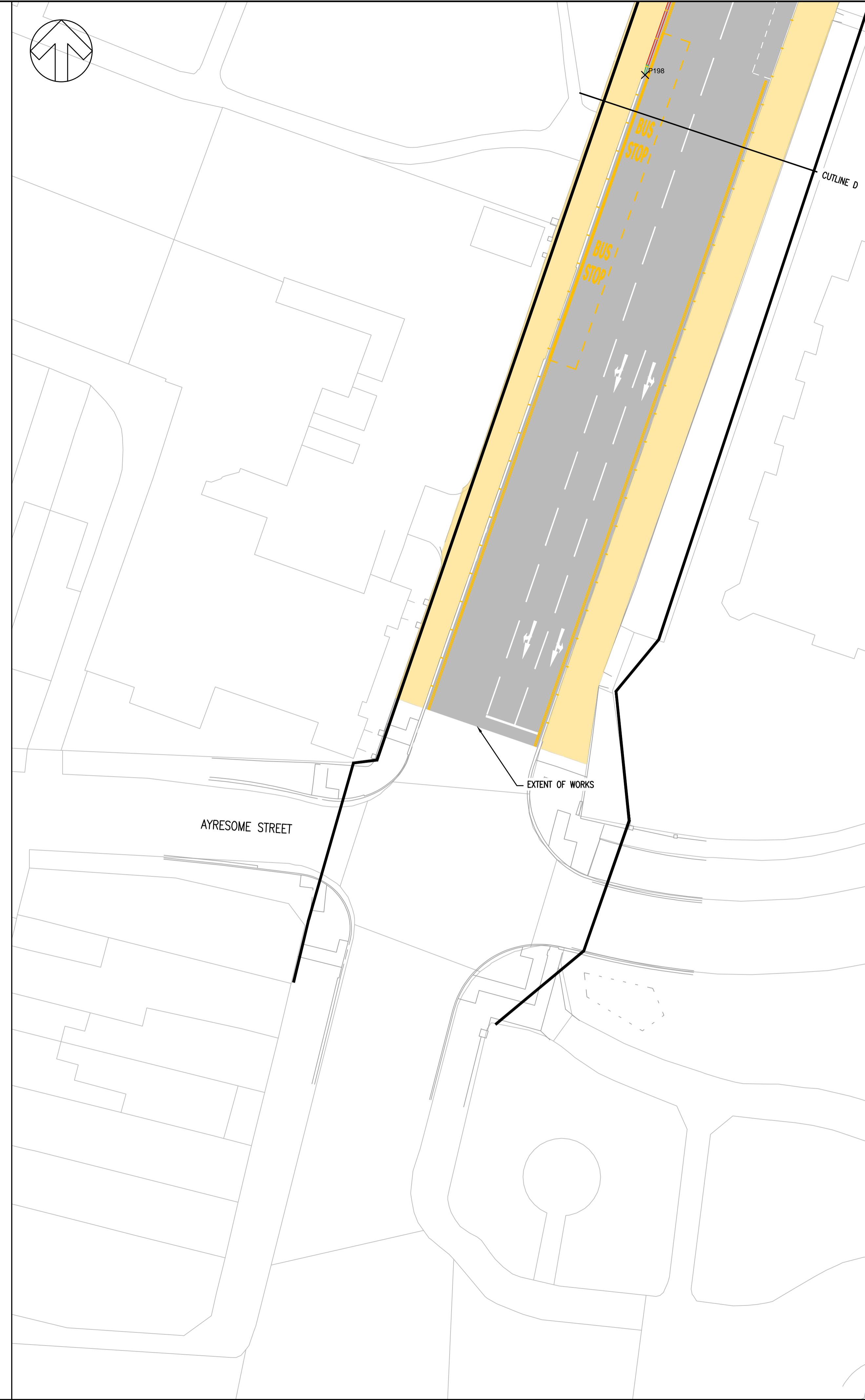
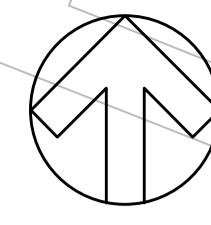
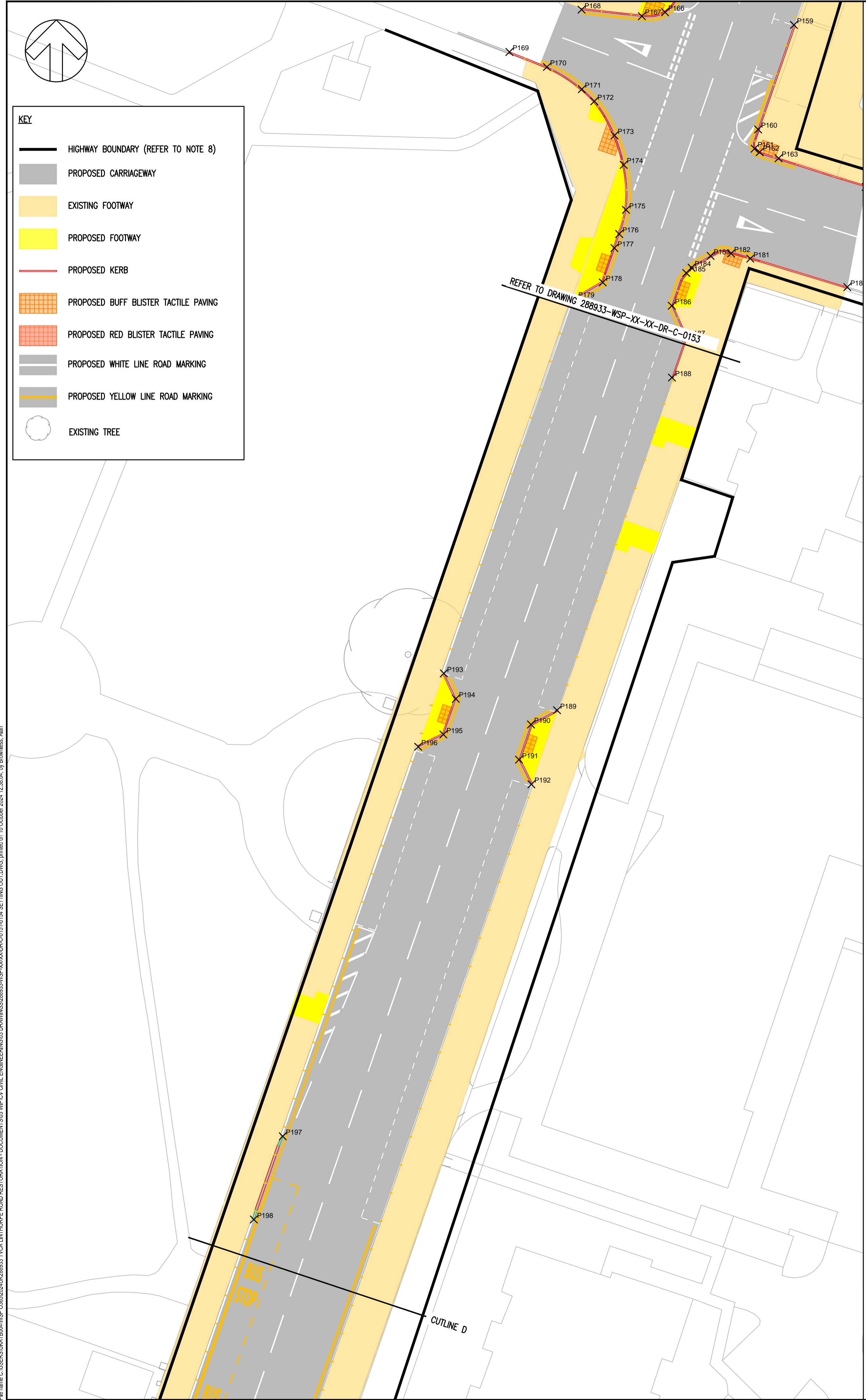
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KEY

- HIGHWAY BOUNDARY (REFER TO NOTE 8)
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- EXISTING FOOTWAY
- PROPOSED FOOTWAY
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PO2	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
P01	12/09/24	NR	ISSUED FOR CLIENT APPROVAL	JS	PWW
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **S2 - FOR INFORMATION**

wsp

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ, UK
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wsp.com

CLIENT:

TEES VALLEY

SITE/PROJECT: **LINTHORPE ROAD RESTORATION**

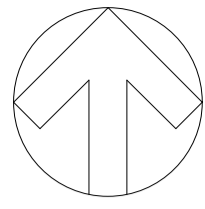
TITLE: **SETTING OUT (SHEET 4 OF 4)**

SCALE @ A1:	1:250	CHECKED:	JS	APPROVED:	PWW
PROJECT NO:	2024UK293315	DESIGNED:	NR	DRAWN:	NR
		DATE:	JULY 2024		

DRAWING NO:	288933-WSP-XX-XX-DR-C-0154	REV:	P02
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Point #	Northing	Easting
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P002	1705886.984	1474263.484
P005	1705839.340	1474285.629
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P007	1705805.309	1474285.756
P008	1705739.651	1474264.493
P009	1705713.180	1474258.896
P010	1705704.543	1474264.467
P011	1705726.487	1474229.766
P012	1705719.102	1474235.324
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P014	1705691.781	1474222.462
P015	1705743.733	1474272.722
P016	1705691.463	1474210.486
P017	1705686.410	1474175.688
P018	1705684.990	1474182.007
P019	1705682.271	1474190.001
P020	1705678.655	1474197.634
P021	1705672.926	1474204.497
P022	1705660.874	1474213.411
P023	1705647.707	1474218.338
P024	1705643.477	1474218.893
P025	1705632.333	1474216.861
P026	1705620.674	1474214.418
P027	1705616.408	1474213.532
P028	1705610.941	1474205.295
P029	1705647.323	1474252.759
P030	1705641.877	1474243.776
P031	1705627.153	1474240.646
P032	1705615.511	1474238.171
P033	1705603.038	1474235.520
P034	1705596.759	1474236.734
P035	1705593.413	1474241.353
P036	1705592.320	1474245.769
P037	1705591.462	1474253.702
P038	1705454.687	1474171.993
P039	1705389.046	1474158.023
P040	1705469.006	1474214.697
P041	1705467.063	1474214.496
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P043	1705458.149	1474222.482
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P047	1705445.300	1474215.576
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P051	1705113.584	1474139.184
P052	1705117.832	1474100.979
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P055	1705034.411	1474083.632
P056	1705087.601	1474133.667
P057	1705081.752	1474125.093
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P059	1705046.191	1474124.914
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P064	1704976.236	1474103.543
P065	1704953.656	1474098.963
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Point #	Northing	Easting
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P073	1704661.151	1474013.952
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P091	1704626.158	1474038.920
P092	1704624.405	1474036.067
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P094	1704600.578	1474026.098
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P099	1704622.654	1473993.598
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P102	1704605.171	1474002.568
P103	1704595.766	1474000.582
P104	1704589.717	1473991.595
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P107	1704368.224	1473988.412
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P115	1704317.188	1473967.664
P116	1704308.866	1473973.611
P117	1704364.026	1473944.809
P118	1704354.788	1473950.375
P119	1704329.444	1473945.247
P120	1704324.363	1473936.698
P121	1704270.411	1473925.489
P122	1704243.072	1473919.803
P123	1704233.747	1473925.519
P124	1704214.901	1473921.836
P125	1704208.676	1473912.790
P126	1704141.229	1473898.674
P127	1704134.271	1473895.100
P128	1704136.130	1473888.033
P129	1704140.185	1473881.406
P130	1704234.189	1473958.224
P131	1704228.621	1473949.454
P132	1704209.776	1473945.527
P133	1704199.544	1473951.128
P134	1704135.199	1473937.745
P135	1704130.241	1473937.844
P136	1704128.426	1473946.326
P137	1704127.527	1473957.166
P138	1704101.300	1473947.841
P139	1704101.415	1473946.267
P140	1704102.083	1473933.381

Point #	Northing	Easting
P141	1704100.360	1473927.657
P142	1704099.355	1473925.964
P143	1704090.712	1473919.525
P144	1704069.213	1473912.863
P145	1704044.873	1473905.064
P146	1704035.143	1473909.585
P147	1704113.208	1473874.260
P148	1704110.472	1473878.993
P149	1704105.244	1473886.467
P150	1704099.651	1473891.466
P151	1704095.068	1473893.372
P152	1704084.501	1473892.935
P153	1704079.290	1473882.985
P154	1704077.168	1473882.307
P155	1703999.991	1473897.677
P156	1703995.574	1473888.312
P157	1703968.898	1473879.290
P158	1703959.476	1473883.628
P159	1703940.739	1473877.157
P160	1703906.181	1473865.280
P161	1703899.802	1473864.120
P162	1703898.128	1473866.063
P163	1703896.647	1473872.067
P164	1703887.154	1473900.911
P165	1703952.214	1473839.436
P166	1703944.915	1473834.542
P167	1703943.622	1473826.847
P168	1703945.784	1473806.885
P169	1703931.812	1473783.038
P170	1703926.819	1473795.431
P171	1703919.473	1473806.978
P172	1703915.500	1473811.130
P173	1703904.180	1473817.819
P174	1703894.453	1473820.830
P175	1703879.575	1473821.579
P176	1703871.575	1473819.342
P177	1703866.931	1473817.763
P178	1703855.560	1473813.899
P179	1703850.198	1473804.753
P180	1703854.007	1473894.808
P181	1703863.586	1473863.361
P182	1703866.160	1473854.047
P183	1703864.329	1473849.596
P184	1703860.431	1473843.282
P185	1703858.683	1473841.534
P186	1703847.850	1473836.751
P187	1703837.399	1473841.402
P188	1703824.100	1473836.807
P189	1703714.070	1473798.764
P190	1703709.338	1473790.181
P191	1703697.701	1473786.201
P192	1703689.552	1473790.310
P193	1703726.242	1473761.331
P194	1703717.844	1473765.293
P195	1703706.033	1473761.182
P196	1703701.984	1473752.843
P199	1704622.796	1474211.988
P200	1705861.788	1474290.284
P201	1705924.734	1474310.919
P202	1705919.485	1474302.775
P203	1705861.374	1474290.556

DO NOT SCALE

NOTES

- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELATED DOCUMENTATION, DRAWINGS AND STANDARD DETAILS.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

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PO2	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
P01	12/09/24	NR	ISSUED FOR CLIENT APPROVAL	JS	PWW
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: S2 - FOR INFORMATION



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CLIENT:



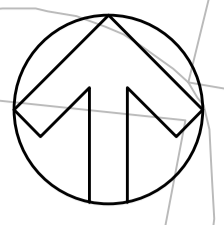
SITE/PROJECT: LINTHORPE ROAD RESTORATION

TITLE: SETTING OUT

SCALE @ A1:	1:250	CHECKED:	JS	APPROVED:	PWW
PROJECT NO:	2024UK283315	DESIGNED:	NR	DRAWN:	NR
		DATE:	JULY 2024		

DRAWING NO:	288933-WSP-XX-XX-DR-C-0155	REV:	P02
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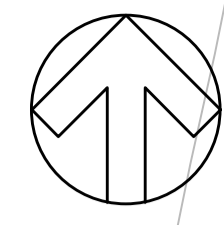


- KEY**
- HIGHWAY BOUNDARY (REFER TO NOTE 15)
 - KERB TO BE REMOVED TO TIP
 - CYCLE LANE SEPARATOR (ORCAS & WANDS) TO BE REMOVED TO STORE
 - TREE PLANTERS TO BE REMOVED TO STORE
 - CYCLE STAND TO BE REMOVED TO STORE
 - G EXISTING GULLY (REFER TO SERIES 500 DRAWINGS)
 - EXISTING DRAINAGE CHANNEL (REFER TO SERIES 500 DRAWINGS)
 - BOLLARD TO BE REMOVED TO TIP
 - ILLUMINATED TRAFFIC SIGN AND POST TO BE REMOVED TO TIP
 - NON ILLUMINATED TRAFFIC SIGN AND POST TO BE REMOVED TO TIP
 - MH EXISTING UTILITY CHAMBER (REFER TO SERIES 500 DRAWINGS)
 - ▨ PAVED FOOTWAY TO BE RE-LAID TO SUIT NEW LEVELS
 - ▨ ASPHALT CARRIAGEWAY/CYCLEWAY SURFACING TO BE REMOVED (FOR RESURFACING)
 - ▨ ASPHALT CARRIAGEWAY/CYCLEWAY TO BE REDUCED TO FORMATION LEVEL AND REMOVED TO TIP
 - ▨ PAVED FOOTWAY TO BE REDUCED TO FORMATION LEVEL AND REMOVED TO TIP
 - ▨ BUS STOP SHELTER TO BE REMOVED (BY OTHERS)

- ⚠ UNKNOWN GROUND CONDITIONS PRIOR TO INTRUSIVE GROUND INVESTIGATION WORKS
- ⚠ CONSTRUCTION WORKS IN LIVE ROADS ON A BUS ROUTE
- ⚠ POTENTIAL FOR SHALLOW GROUNDWATER TO BE ENCOUNTERED DURING EXCAVATION WORKS
- ⚠ EXCAVATION IN AND AROUND BURIED SERVICES
- ⚠ POTENTIAL FOR CONTAMINATED TAR IN EXISTING ROAD PAVEMENT
- ⚠ UNEXPLODED ORDNANCE MAY BE PRESENT
- ⚠ HIGH PEDESTRIAN NUMBERS IN TOWN CENTRE

● SITE CLEARANCE MAY INCLUDE CONCRETE BREAKOUT WORKS ON EXISTING HIGHWAY

NOTE:
ALL WORKS ON EXISTING CARRIAGEWAY BUILDOUTS MAY INCLUDE REINFORCED CONCRETE BREAKOUT WORKS FROM APPROXIMATELY 100mm FROM SURFACE LEVEL TO SUBBASE / FORMATION LEVEL



SAFETY HEALTH & ENVIRONMENTAL INFORMATION BOX

HEALTH AND SAFETY SYMBOLS LEGEND

● XXX	INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION	ⓘ XXX	INDICATES A RESIDUAL RISK FOR INFORMATION
⊘ XXX	INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION	⚠ XXX	INDICATES A RESIDUAL RISK AS A WARNING
⚠ XXX	INDICATES AN ENVIRONMENTAL HAZARD		

This table is provided to assist the Principal Contractor to fulfill their obligations under the Construction Design & Management Regulations, 2015. It does not include residual risks that a competent Contractor will be aware of nor does it absolve the Principal Contractor of their legal responsibilities.
The reference number corresponds to the Design Risk Management Schedule.

- NOTES**
1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTATION DRAWINGS AND STANDARD DETAILS BUT WITH PARTICULAR REFERENCE TO THE FOLLOWING
-288933-WSP-XX-XX-DR-C-0101-0104
-288933-WSP-XX-XX-DR-C-1101-1104
-288933-WSP-XX-XX-DR-C-0501-0504
 2. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
 3. THE ORIGINAL OF THIS DRAWING WAS PRODUCED IN COLOUR - A MONOCHROME COPY CANNOT BE RELIED ON.
 4. INFORMATION REGARDING THE LOCATION AND DEPTH OF EXISTING SERVICES CANNOT BE GUARANTEED BY THE STATUTORY UNDERTAKER AND SHOULD BE INVESTIGATED. THE CONTRACTOR SHALL ESTABLISH THE PRECISE LINE AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO COMMENCING ANY EXCAVATION WORK.
 5. THE DESIGN IS BASED ON TOPOGRAPHICAL SURVEY REFERENCE ASS 2963 BY ADH SITE SURVEYS LIMITED RECEIVED FEBRUARY 2021.
 6. CONFLICTING INFORMATION SHOWN ON THE ENGINEER'S DRAWINGS OR DISCREPANCIES BETWEEN THE INFORMATION GIVEN BY THE ENGINEER AND THAT PROVIDED BY OTHERS MUST BE REFERRED TO THE ENGINEER BEFORE THE WORKS COMMENCE.
 7. ALL ITEMS IN THE KEY ARE EXISTING UNLESS NOTED OTHERWISE.
 8. ALL ITEMS TO BE "REMOVED TO TIP" ARE TO BE MOVED TO THE CONTRACTORS LICENSED TIP OFF SITE.
 9. ALL ITEMS TO BE "REMOVED TO STORE" ARE TO BE STORED TO BE BY THE CONTRACTOR EITHER ON OR OFF SITE UNTIL NEEDED.
 10. EXISTING DRAINAGE APPARATUS TO BE REMOVED AS SHOWN AND BACKFILLED AS PER SPECIFICATION.
 11. ALL ITEMS NOT HIGHLIGHTED ARE TO BE RETAINED UNLESS NOTED OTHERWISE.
 12. FEED TO ALL ELECTRICAL ITEMS IS TO BE DISCONNECTED PRIOR TO REMOVAL.
 13. FOR LOCATION OF PAVING AND KERB ITEMS TO BE REUSED, REFER TO LANDSCAPE ARCHITECT INFORMATION AND 1100 SERIES DRAWING AND SPECIFICATIONS.
 14. NO EXISTING TRAFFIC SIGN OR LIGHTING COLUMN SHALL BE SWITCHED OFF, DISMANTLED OR REMOVED WITHOUT THE PRIOR APPROVAL OF MIDDLESBROUGH COUNCIL.
 15. THIS DRAWING IS BASED IN A WHOLE OR IN PART ON INFORMATION AND/OR DATA APPROVED BY A THIRD PARTY INCLUDING MIDDLESBROUGH COUNCIL AND AS SUCH IN CONTINGENT UPON THE ACCURACY AND COMPLETENESS OF THAT INFORMATION AND/OR DATA. WSP UK LIMITED SHALL NOT BE LIABLE IN RELATION TO ANY INACCURACY PRESENTED WITHIN THE DRAWING AND/OR IN RELATION TO ANY DISCREPANCY OR AMBIGUITY WITH ANY OTHER PROJECT DOCUMENTS SHOULD ANY DATA AND OR INFORMATION UPON WHICH RELIANCE HAS BEEN BASED BE INCORRECT OR OUT OF DATE OR HAVE BEEN CONCEALED, WITHHELD OR BE INCOMPLETE, MISREPRESENTED OR OTHERWISE NOT FULLY DISCLOSED TO WSP UK LIMITED.

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REV	DATE	BY	DESCRIPTION	CHK	APP
P04	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
P03	03/09/24	NR	UPDATED FOLLOWING CLIENT REVIEW	JS	PWW
P02	31/07/24	NR	ISSUED FOR CLIENT APPROVAL	JS	PWW
P01	23/07/24	NR	ISSUE FOR COSTING	JS	PWW
DR	15/07/24	NR	DRAFT ISSUE	JS	PWW

S2 - FOR INFORMATION

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TEES VALLEY

SITE PROJECT:
LINTHORPE ROAD RESTORATION

TITLE:
SITE CLEARANCE (SHEET 1 OF 4)

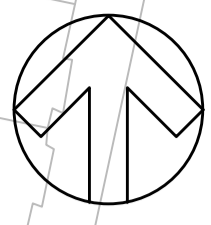
SCALE @ A1:	CHECKED:	APPROVED:
1:250	JS	PWW

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
2024UK293315	NR	NR	JULY 2024

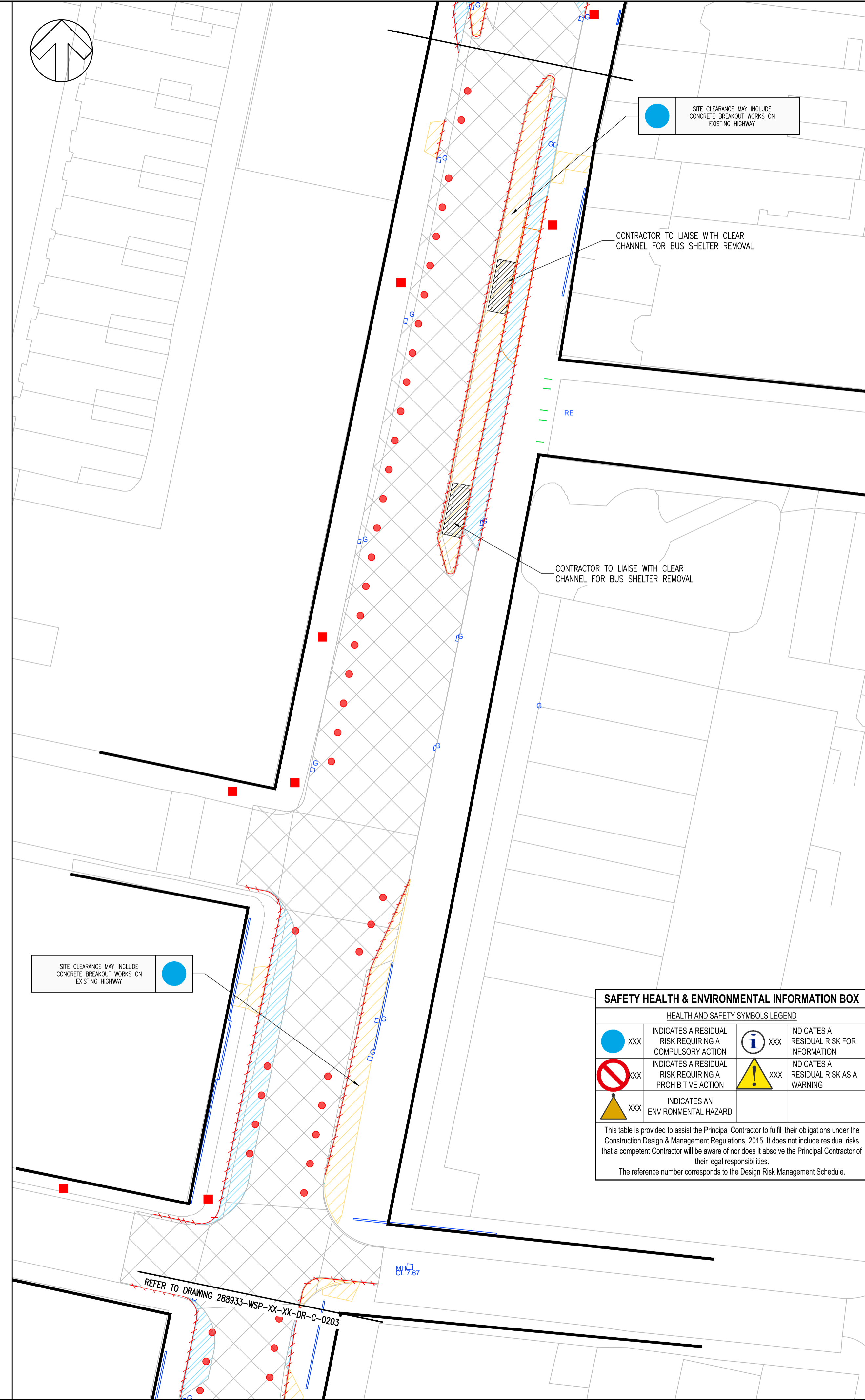
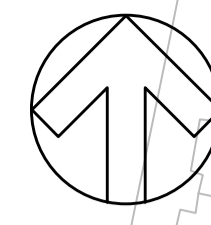
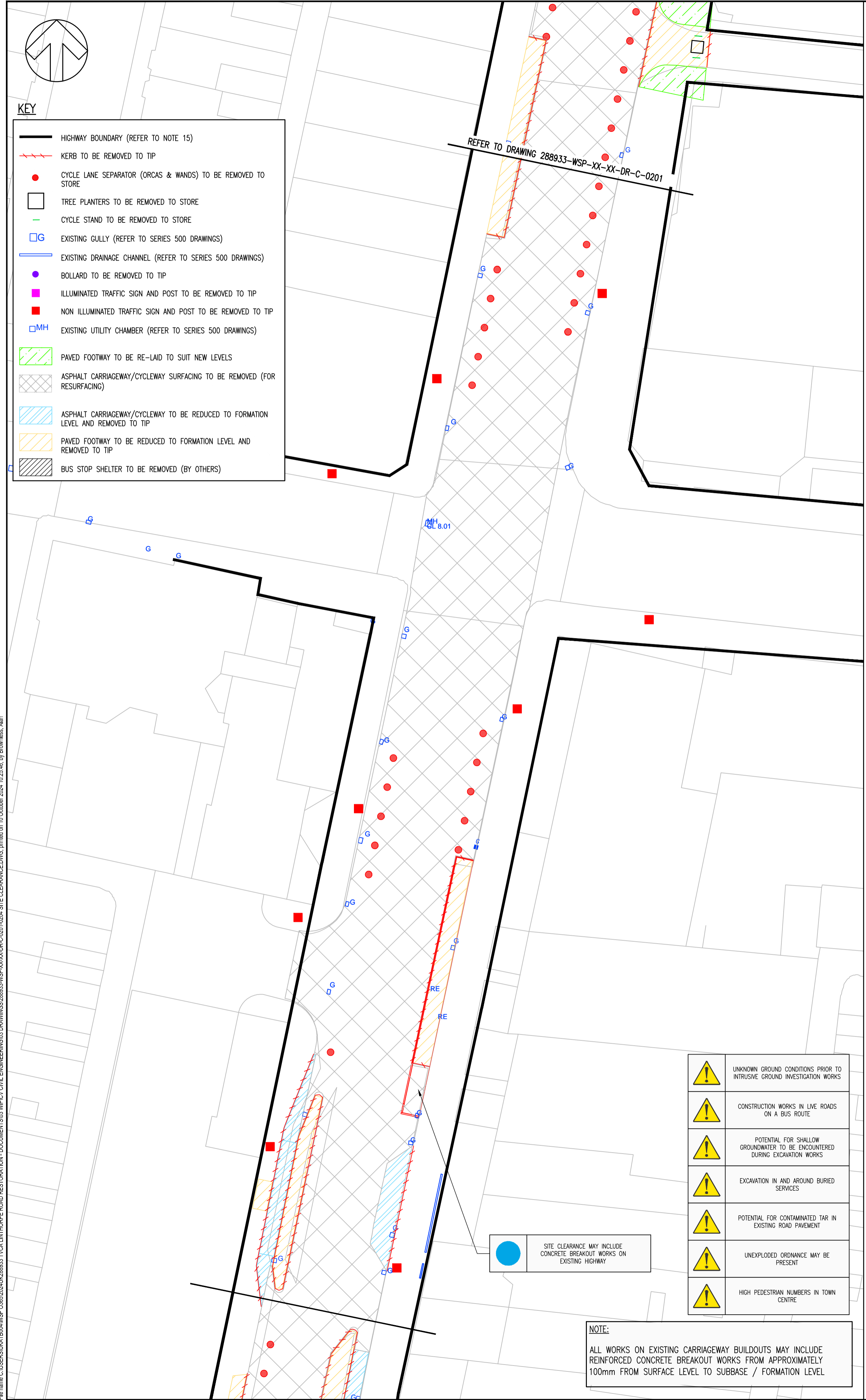
DRAWING NO:	REV:
288933-WSP-XX-XX-DR-C-0201	P04

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File name: C:\Users\JMATB\OneDrive\Documents\WSP\288933-WSP-XX-XX-DR-C-0201-SITE CLEARANCE.DWG, printed on 10 October 2024, 10:19:04, by: Brounias, Alan



- KEY**
- HIGHWAY BOUNDARY (REFER TO NOTE 15)
 - KERB TO BE REMOVED TO TIP
 - CYCLE LANE SEPARATOR (ORCAS & WANDS) TO BE REMOVED TO STORE
 - TREE PLANTERS TO BE REMOVED TO STORE
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 - ILLUMINATED TRAFFIC SIGN AND POST TO BE REMOVED TO TIP
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 - MH EXISTING UTILITY CHAMBER (REFER TO SERIES 500 DRAWINGS)
 - ▨ PAVED FOOTWAY TO BE RE-LAID TO SUIT NEW LEVELS
 - ▨ ASPHALT CARRIAGEWAY/CYCLEWAY SURFING TO BE REMOVED (FOR RESURFACING)
 - ▨ ASPHALT CARRIAGEWAY/CYCLEWAY TO BE REDUCED TO FORMATION LEVEL AND REMOVED TO TIP
 - ▨ PAVED FOOTWAY TO BE REDUCED TO FORMATION LEVEL AND REMOVED TO TIP
 - ▨ BUS STOP SHELTER TO BE REMOVED (BY OTHERS)



NOTES DO NOT SCALE

1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTATION DRAWINGS AND STANDARD DETAILS BUT WITH PARTICULAR REFERENCE TO THE FOLLOWING
-288933-WSP-XX-XX-DR-C-0101-0104
-288933-WSP-XX-XX-DR-C-1101-1104
-288933-WSP-XX-XX-DR-C-0501-0504
2. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
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PO4	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
PO3	03/09/24	NR	UPDATED FOLLOWING CLIENT REVIEW	JS	PWW
PO2	31/07/24	NR	ISSUED FOR CLIENT APPROVAL	JS	PWW
PO1	23/07/24	NR	ISSUE FOR COSTING	JS	PWW
DR	15/07/24	NR	DRAFT ISSUE	JS	PWW
REV	DATE	BY	DESCRIPTION	CHK	APP

S2 - FOR INFORMATION

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SITE PROJECT:
LINTHORPE ROAD RESTORATION

TITLE:
SITE CLEARANCE (SHEET 2 OF 4)

SCALE @ A1: 1:250	CHECKED: JS	APPROVED: PWW
PROJECT NO: 2024UK293315	DESIGNED: NR	DATE: JULY 2024
DRAWING NO: 288933-WSP-XX-XX-DR-C-0202	REV: P04	

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SAFETY HEALTH & ENVIRONMENTAL INFORMATION BOX

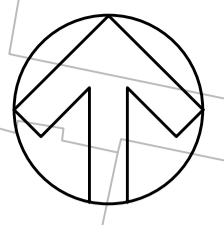
HEALTH AND SAFETY SYMBOLS LEGEND

● XXX	INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION	ⓘ XXX	INDICATES A RESIDUAL RISK FOR INFORMATION
⊘ XXX	INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION	⚠ XXX	INDICATES A RESIDUAL RISK AS A WARNING
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The reference number corresponds to the Design Risk Management Schedule.

- ⚠ UNKNOWN GROUND CONDITIONS PRIOR TO INTRUSIVE GROUND INVESTIGATION WORKS
- ⚠ CONSTRUCTION WORKS IN LIVE ROADS ON A BUS ROUTE
- ⚠ POTENTIAL FOR SHALLOW GROUNDWATER TO BE ENCOUNTERED DURING EXCAVATION WORKS
- ⚠ EXCAVATION IN AND AROUND BURIED SERVICES
- ⚠ POTENTIAL FOR CONTAMINATED TAR IN EXISTING ROAD PAVEMENT
- ⚠ UNEXPLODED ORDNANCE MAY BE PRESENT
- ⚠ HIGH PEDESTRIAN NUMBERS IN TOWN CENTRE

File name: C:\Users\jmatthews\OneDrive\Work\2024\288933\TVC\LINTHORPE ROAD RESTORATION - DOCUMENTS\01\MP\01\CIVIL\ENGINEERING\03\DRAWINGS\288933-WSP-XX-XX-DR-C-0201-SITE CLEARANCE.DWG, printed on 10 October 2024, 10:25:48, by: Broudas, Alan



- KEY**
- HIGHWAY BOUNDARY (REFER TO NOTE 15)
 - - - KERB TO BE REMOVED TO TIP
 - CYCLE LANE SEPARATOR (ORCAS & WANDS) TO BE REMOVED TO STORE
 - TREE PLANTERS TO BE REMOVED TO STORE
 - - - CYCLE STAND TO BE REMOVED TO STORE
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 - ▨ BUS STOP SHELTER TO BE REMOVED (BY OTHERS)

SITE CLEARANCE MAY INCLUDE CONCRETE BREAKOUT WORKS ON EXISTING HIGHWAY

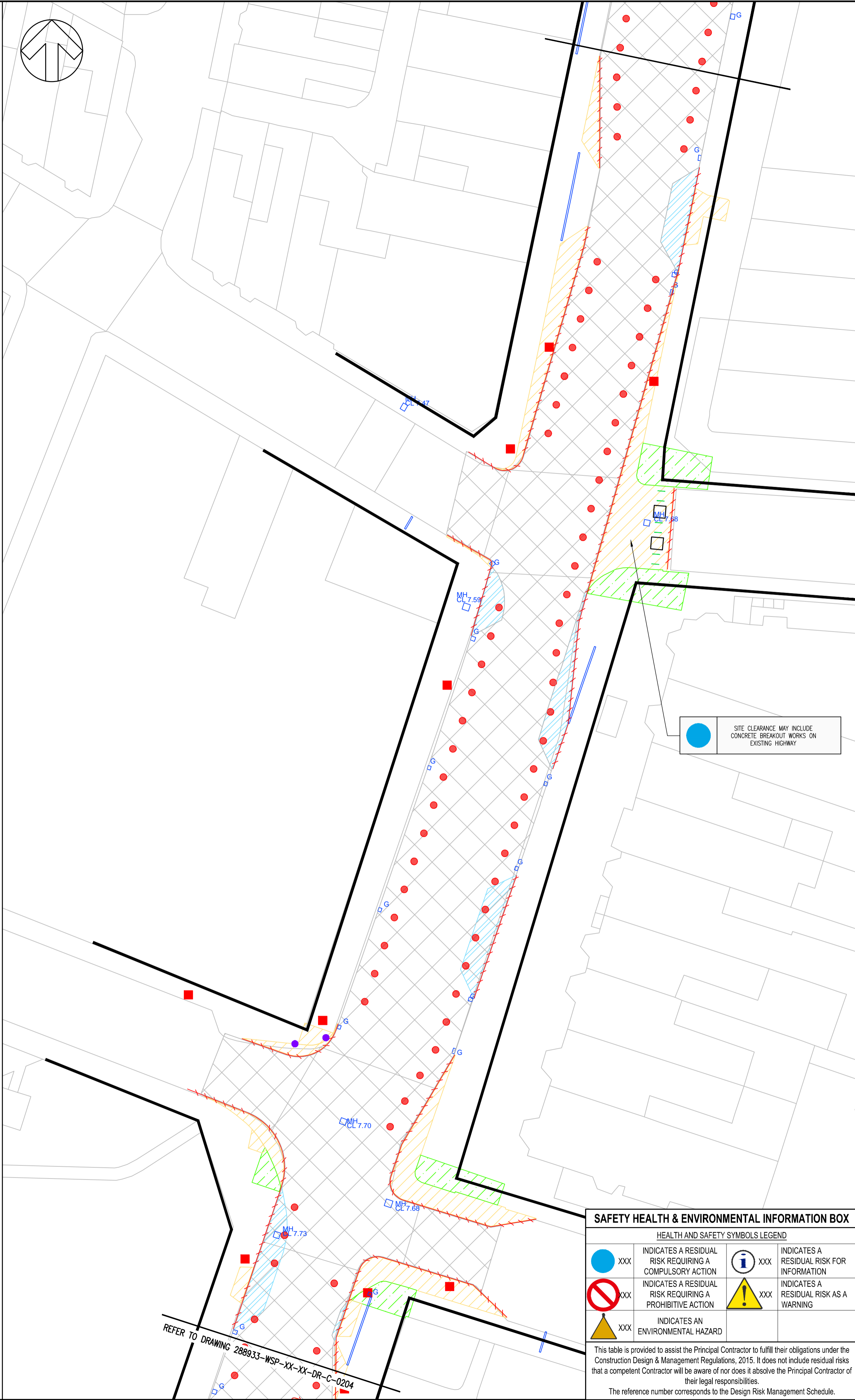
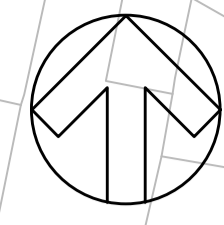
REFER TO DRAWING 288933-WSP-XX-XX-DR-C-0202

File name: C:\Users\JWATSON\OneDrive\Documents\WSP\01 CIVIL ENGINEERING\03 DRAWINGS\288933-WSP-XX-XX-DR-C-0204 SITE CLEARANCE.DWG, printed on 10 October 2024 10:31:18, by: Broussais, Alan

SITE CLEARANCE MAY INCLUDE CONCRETE BREAKOUT WORKS ON EXISTING HIGHWAY

- ⚠ UNKNOWN GROUND CONDITIONS PRIOR TO INTRUSIVE GROUND INVESTIGATION WORKS
- ⚠ CONSTRUCTION WORKS IN LIVE ROADS ON A BUS ROUTE
- ⚠ POTENTIAL FOR SHALLOW GROUNDWATER TO BE ENCOUNTERED DURING EXCAVATION WORKS
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- ⚠ UNEXPLODED ORDNANCE MAY BE PRESENT
- ⚠ HIGH PEDESTRIAN NUMBERS IN TOWN CENTRE

NOTE:
ALL WORKS ON EXISTING CARRIAGEWAY BUILDOUTS MAY INCLUDE REINFORCED CONCRETE BREAKOUT WORKS FROM APPROXIMATELY 100mm FROM SURFACE LEVEL TO SUBBASE / FORMATION LEVEL



REFER TO DRAWING 288933-WSP-XX-XX-DR-C-0204

SITE CLEARANCE MAY INCLUDE CONCRETE BREAKOUT WORKS ON EXISTING HIGHWAY

NOTES DO NOT SCALE

1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTATION DRAWINGS AND STANDARD DETAILS BUT WITH PARTICULAR REFERENCE TO THE FOLLOWING
-288933-WSP-XX-XX-DR-C-0101-0104
-288933-WSP-XX-XX-DR-C-1101-1104
-288933-WSP-XX-XX-DR-C-0501-0504
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PO4	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
PO3	03/09/24	NR	UPDATED FOLLOWING CLIENT REVIEW	JS	PWW
PO2	31/07/24	NR	ISSUED FOR CLIENT APPROVAL	JS	PWW
PO1	23/07/24	NR	ISSUE FOR COSTING	JS	PWW
DR	15/07/24	NR	DRAFT ISSUE	JS	PWW
REV	DATE	BY	DESCRIPTION	CHK	APP

S2 - FOR INFORMATION

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ, UK
T+ 44 (0) 191 226 2000, F+ 44 (0) 191 226 2104
wsp.com

SITE PROJECT:
LINTHORPE ROAD RESTORATION

TITLE:
SITE CLEARANCE (SHEET 3 OF 4)

SCALE @ A1:	1:250	CHECKED:	JS	APPROVED:	PWW
PROJECT NO:	2024UK293315	DESIGNED:	NR	DATE:	JULY 2024
DRAWING NO:	288933-WSP-XX-XX-DR-C-0203	REV:	P04		

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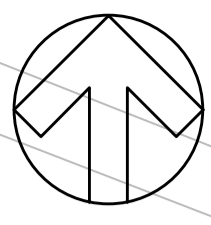
SAFETY HEALTH & ENVIRONMENTAL INFORMATION BOX

HEALTH AND SAFETY SYMBOLS LEGEND

● XXX	INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION	ⓘ XXX	INDICATES A RESIDUAL RISK FOR INFORMATION
⊘ XXX	INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION	⚠ XXX	INDICATES A RESIDUAL RISK AS A WARNING
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- KEY**
- HIGHWAY BOUNDARY (REFER TO NOTE 15)
 - KERB TO BE REMOVED TO TIP
 - CYCLE LANE SEPARATOR (ORCAS & WANDS) TO BE REMOVED TO STORE
 - TREE PLANTERS TO BE REMOVED TO STORE
 - CYCLE STAND TO BE REMOVED TO STORE
 - G EXISTING GULLY (REFER TO SERIES 500 DRAWINGS)
 - EXISTING DRAINAGE CHANNEL (REFER TO SERIES 500 DRAWINGS)
 - BOLLARD TO BE REMOVED TO TIP
 - ILLUMINATED TRAFFIC SIGN AND POST TO BE REMOVED TO TIP
 - NON ILLUMINATED TRAFFIC SIGN AND POST TO BE REMOVED TO TIP
 - MH EXISTING UTILITY CHAMBER (REFER TO SERIES 500 DRAWINGS)
 - ▨ PAVED FOOTWAY TO BE RE-LAID TO SUIT NEW LEVELS
 - ▨ ASPHALT CARRIAGEWAY/CYCLEWAY SURFACING TO BE REMOVED (FOR RESURFACING)
 - ▨ ASPHALT CARRIAGEWAY/CYCLEWAY TO BE REDUCED TO FORMATION LEVEL AND REMOVED TO TIP
 - ▨ PAVED FOOTWAY TO BE REDUCED TO FORMATION LEVEL AND REMOVED TO TIP
 - ▨ BUS STOP SHELTER TO BE REMOVED (BY OTHERS)

REFER TO DRAWING 288933-WSP-XX-XX-DR-C-0203

CONTRACTOR TO LIAISE WITH CLEAR CHANNEL FOR BUS SHELTER REMOVAL

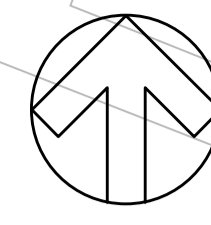
CONTRACTOR TO LIAISE WITH CLEAR CHANNEL FOR BUS SHELTER REMOVAL

SITE CLEARANCE MAY INCLUDE CONCRETE BREAKOUT WORKS ON EXISTING HIGHWAY

CONTRACTOR TO LIAISE WITH CLEAR CHANNEL FOR BUS SHELTER REMOVAL

- ⚠ UNKNOWN GROUND CONDITIONS PRIOR TO INTRUSIVE GROUND INVESTIGATION WORKS
- ⚠ CONSTRUCTION WORKS IN LIVE ROADS ON A BUS ROUTE
- ⚠ POTENTIAL FOR SHALLOW GROUNDWATER TO BE ENCOUNTERED DURING EXCAVATION WORKS
- ⚠ EXCAVATION IN AND AROUND BURIED SERVICES
- ⚠ POTENTIAL FOR CONTAMINATED TAR IN EXISTING ROAD PAVEMENT
- ⚠ UNEXPLODED ORDNANCE MAY BE PRESENT
- ⚠ HIGH PEDESTRIAN NUMBERS IN TOWN CENTRE

NOTE:
ALL WORKS ON EXISTING CARRIAGEWAY BUILDOUTS MAY INCLUDE REINFORCED CONCRETE BREAKOUT WORKS FROM APPROXIMATELY 100mm FROM SURFACE LEVEL TO SUBBASE / FORMATION LEVEL



SAFETY HEALTH & ENVIRONMENTAL INFORMATION BOX

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-288933-WSP-XX-XX-DR-C-0101-0104
-288933-WSP-XX-XX-DR-C-1101-1104
-288933-WSP-XX-XX-DR-C-0501-0504
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DR	15/07/24	NR	DRAFT ISSUE	JS	PWW

DRAWING STATUS: S2 - FOR INFORMATION

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T+ 44 (0) 191 226 2000, F+ 44 (0) 191 226 2104
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TEES VALLEY

SITE PROJECT: LINTHORPE ROAD RESTORATION

TITLE: SITE CLEARANCE (SHEET 4 OF 4)

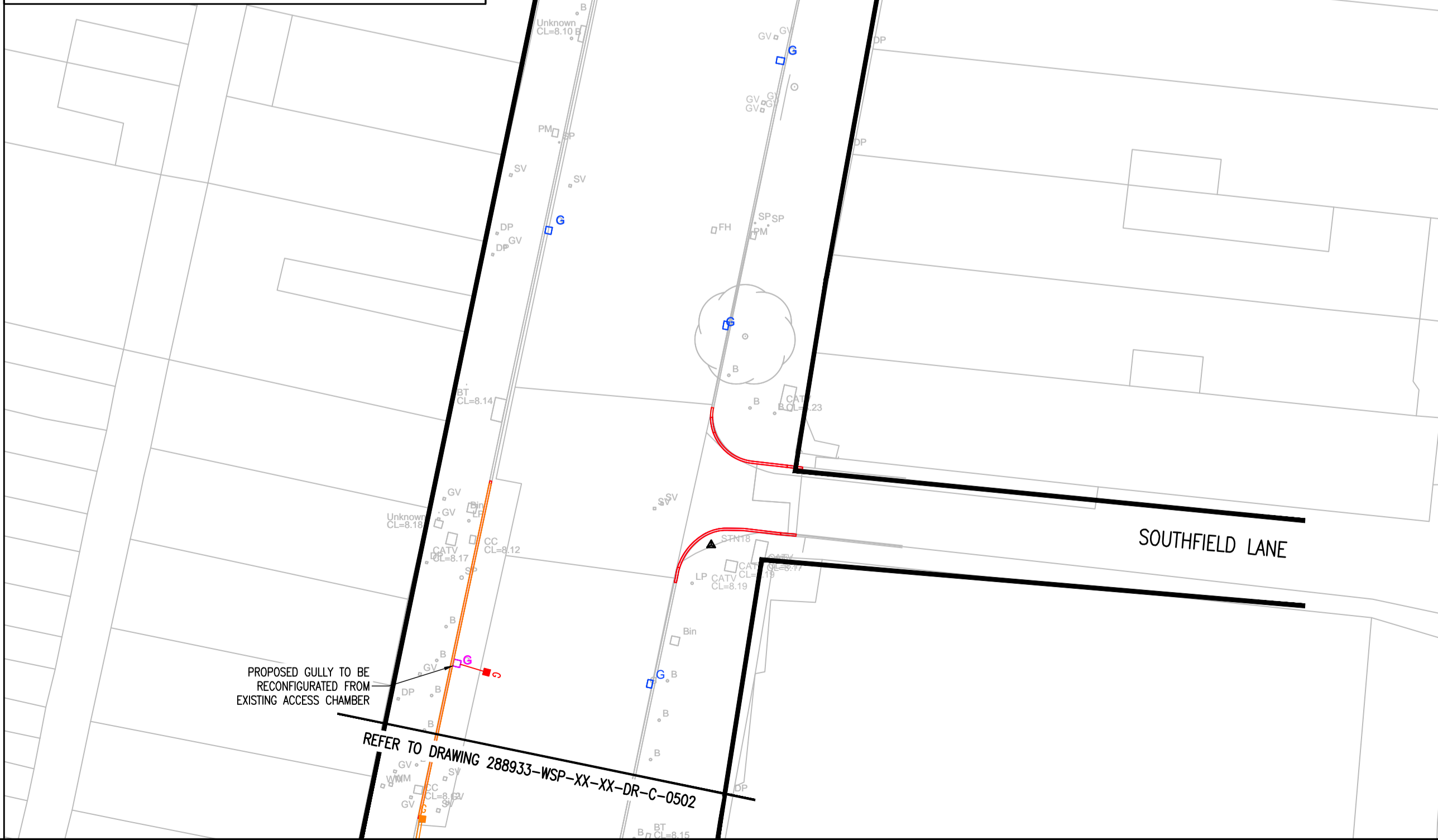
SCALE @ A1: 1:250	CHECKED: JS	APPROVED: PWW
PROJECT NO: 2024UK293315	DESIGNED: NR	DRAWN: NR
DRAWING NO: 288933-WSP-XX-XX-DR-C-0204	DATE: JULY 2024	REV: P04

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File name: C:\USERS\JWATSON\WSP_0360\2024\288933\TVC\LINTHORPE ROAD RESTORATION - DOCUMENTS\01 MP\01 CIVIL ENGINEERING\03 DRAWINGS\288933-WSP-XX-XX-DR-C-0204 SITE CLEARANCE.DWG, printed on 10 October 2024 10:27 AM by: Broudas, Alan



- NOTES**
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 -288933-WSP-XX-XX-DR-C-0101-0104
 -288933-WSP-XX-XX-DR-C-1101-1104
 -288933-WSP-XX-XX-DR-C-0511
 -288933-WSP-XX-XX-DR-C-0201-0204
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 - ALL GULLIES IN FOOTWAYS ARE TO INCLUDE PEDESTRIAN FRIENDLY GULLY GRATINGS TO REDUCE TRIP HAZARDS



DO NOT SCALE

KEY

- HIGHWAY BOUNDARY (REFER TO NOTE 13)
- PROPOSED KERB
- PROPOSED GULLY
- PROPOSED GULLY CONNECTION
- EXISTING GULLY TO BE RETAINED
- EXISTING GULLY TO BE REMOVED
- EXISTING GULLY CONNECTION TO BE REMOVED
- EXISTING DRAINAGE CONNECTION CHAMBER TO BE RETAINED
- PROPOSED DRAINAGE KERB
- PROPOSED DRAINAGE CHANNEL
- EXISTING DRAINAGE CHANNEL TO BE RETAINED
- EXISTING DRAINAGE CHANNEL TO BE REMOVED
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- EXISTING GULLY TO BE ADJUSTED
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SAFETY HEALTH & ENVIRONMENTAL INFORMATION BOX

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P04	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
P03	03/09/24	NR	UPDATED FOLLOWING CLIENT REVIEW	JS	PWW
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DR	16/07/24	NR	DRAFT ISSUE	JS	PWW

DRAWING STATUS: **S2 - FOR INFORMATION**

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ, UK
 T+ 44 (0) 191 226 2000, F+ 44 (0) 191 226 2104
 wsp.com

CLIENT:

SITE/PROJECT: **LINTHORPE ROAD RESTORATION**

TITLE: **BELOW GROUND DRAINAGE LAYOUT (SHEET 1 OF 4)**

SCALE @ A1: 1:250	CHECKED: JS	APPROVED: PWW
PROJECT NO: 2024UK293315	DESIGNED: NR	DRAWN: NR
	DATE: JULY 2024	

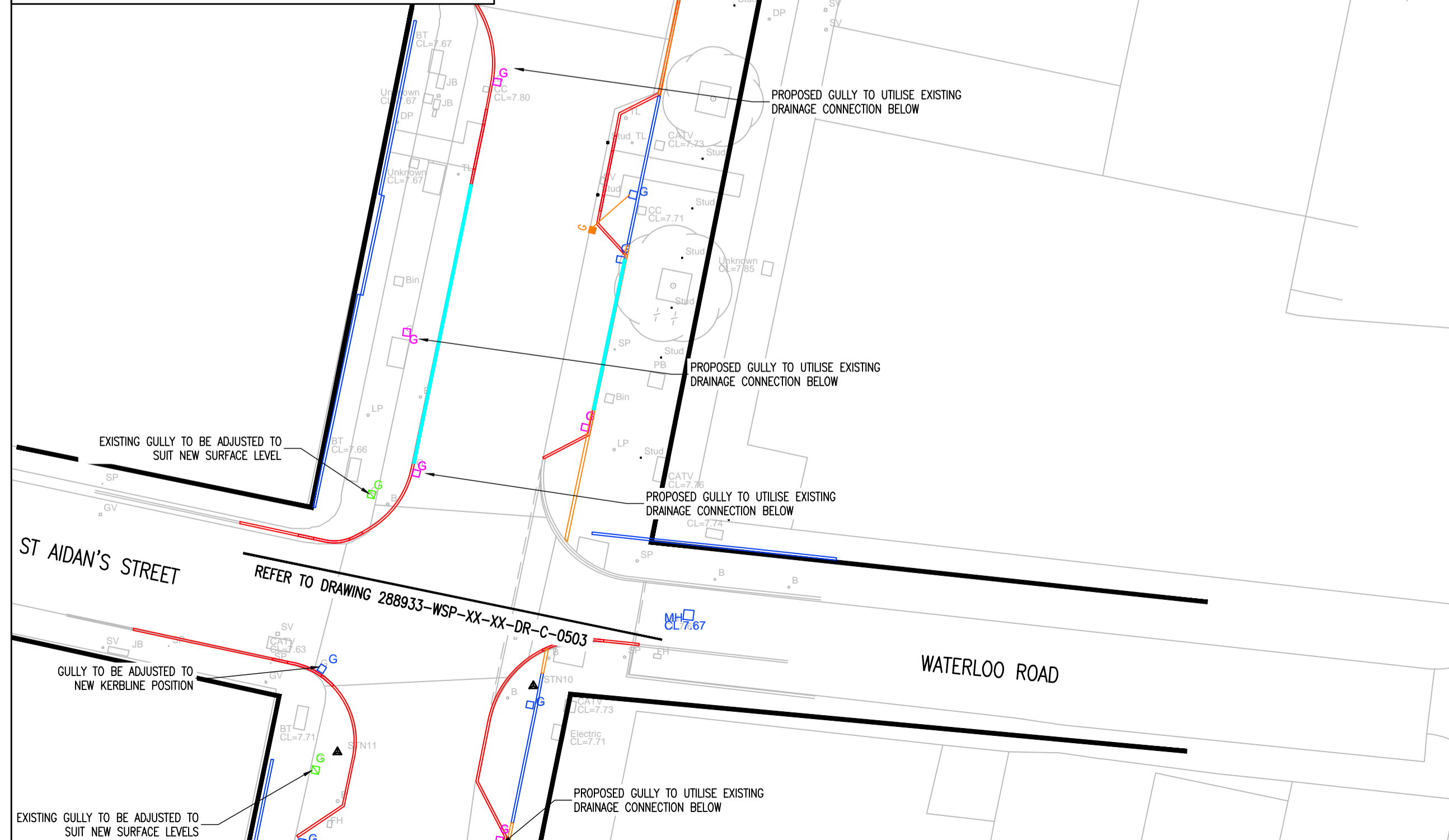
DRAWING NO: **288933-WSP-XX-XX-DR-C-0501** REV: **P04**

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File name: C:\USERS\WATBOW\NSP_0360\2024\288933\T\CL\LINTHORPE ROAD RESTORATION - DOCUMENTS\03\WPC\01\CIVIL\ENGINEERING\03\DRAWINGS\288933-WSP-XX-XX-DR-C-0501-0501-DRAINAGE.DWG, printed on: 10 October 2024 12:47:31, by: Rowland, Alan



- NOTES**
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P01	23/07/24	NR	ISSUE FOR COST ESTIMATE	JS	PWW
DR	16/07/24	NR	DRAFT ISSUE	JS	PWW

S2 - FOR INFORMATION

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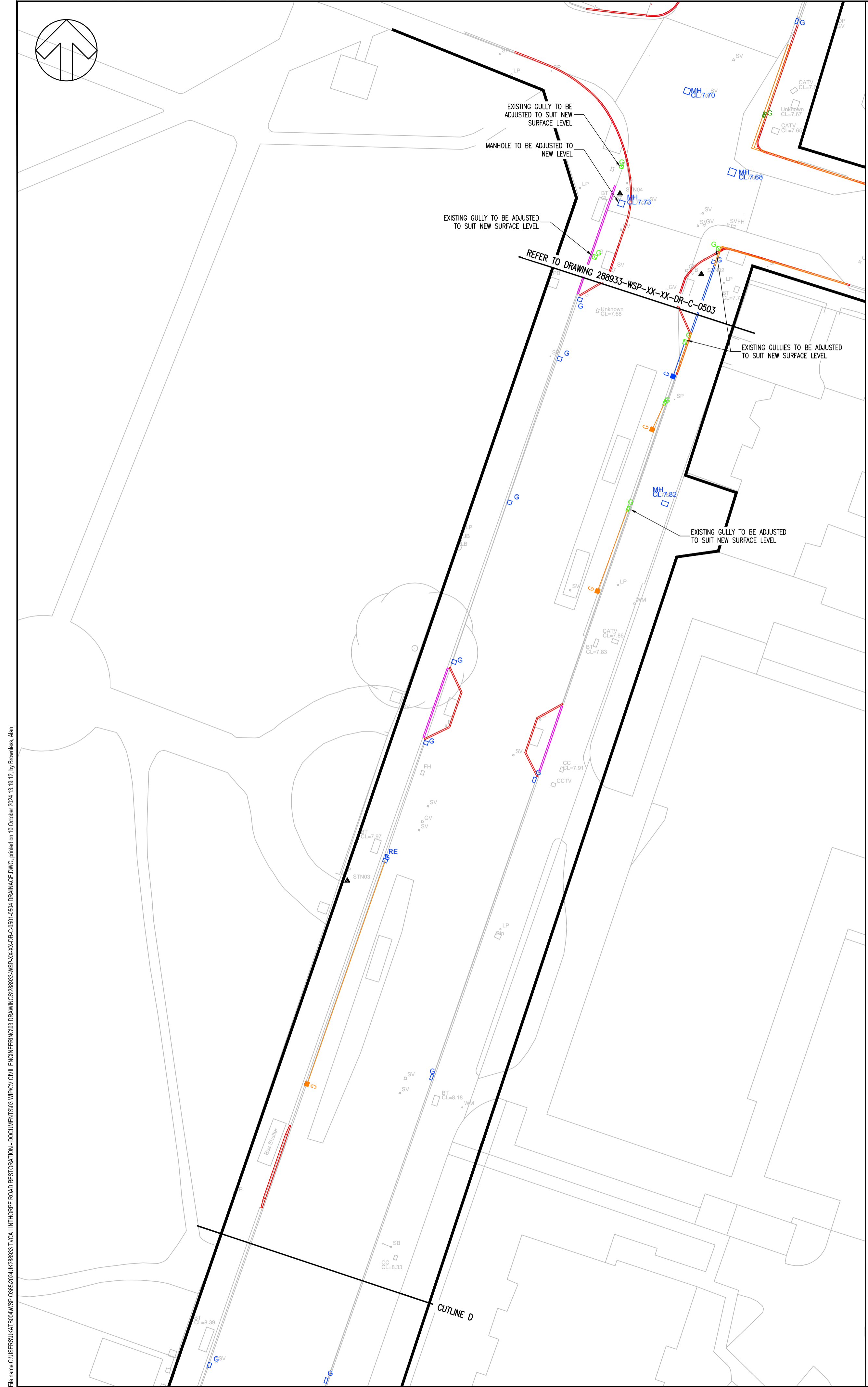
SITE/PROJECT: **LINTHORPE ROAD RESTORATION**

TITLE: **BELOW GROUND DRAINAGE LAYOUT (SHEET 2 OF 4)**

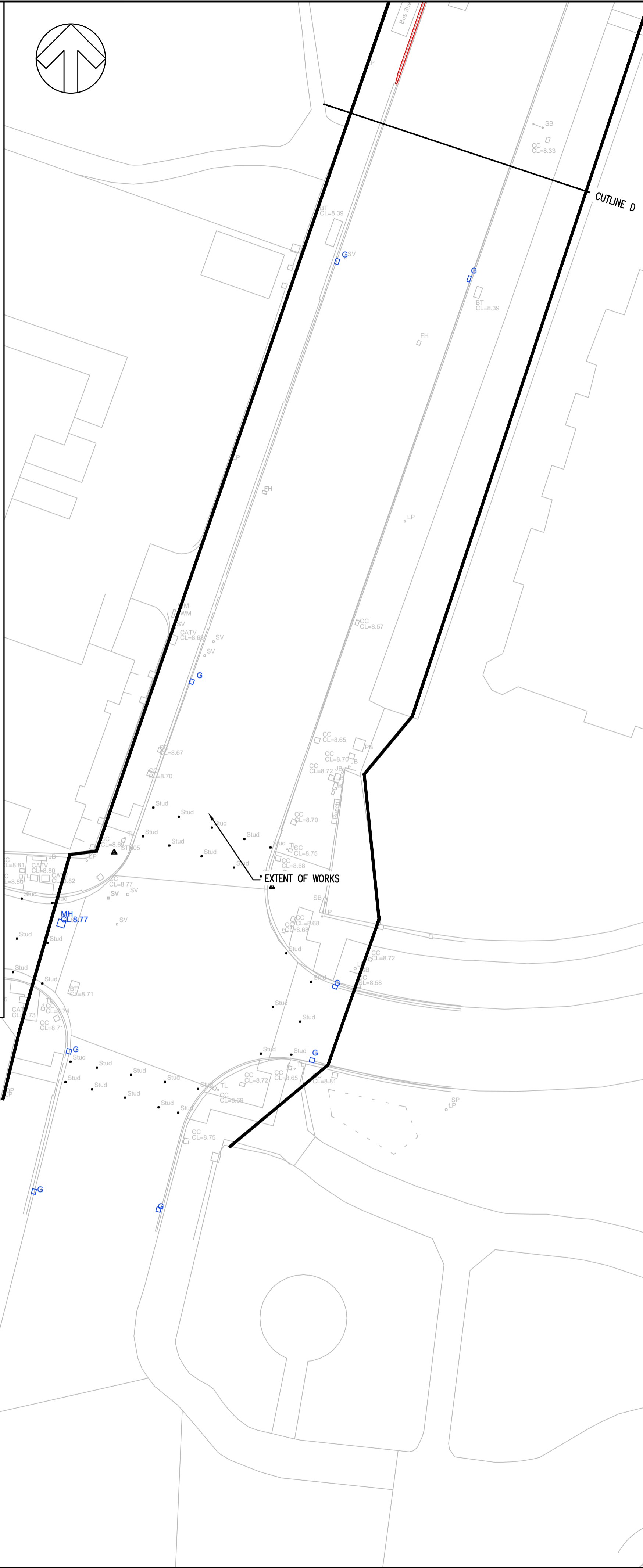
SCALE @ A1: 1:250	CHECKED: JS	APPROVED: PWW
PROJECT NO: 2024UK293315	DESIGNED: NR	DATE: JULY 2024
DRAWING NO: 288933-WSP-XX-XX-DR-C-0502	REV: P04	

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File name: C:\Users\WATBOW\OneDrive\Documents\WSP\Projects\288933\TVAL\LINTHORPE ROAD RESTORATION - DOCUMENTS\DWG\DWG\288933-WSP-XX-XX-DR-C-0502-0501-DRAINAGE.DWG, printed on 10 October 2024 13:02:27 by Rowland.Alden



- NOTES**
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTATION DRAWINGS AND STANDARD DETAILS BUT WITH PARTICULAR REFERENCE TO THE FOLLOWING
 -288933-WSP-XX-XX-DR-C-0101-0104
 -288933-WSP-XX-XX-DR-C-1101-1104
 -288933-WSP-XX-XX-DR-C-0511
 -288933-WSP-XX-XX-DR-C-0201-0204
 - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 - THE ORIGINAL OF THIS DRAWING WAS PRODUCED IN COLOUR - A MONOCHROME COPY CANNOT BE RELIED ON.
 - INFORMATION REGARDING THE LOCATION AND DEPTH OF EXISTING SERVICES CANNOT BE GUARANTEED BY THE STATUTORY UNDERTAKER AND SHOULD BE INVESTIGATED. THE CONTRACTOR SHALL ESTABLISH THE PRECISE LINE AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO COMMENCING ANY EXCAVATION WORK.
 - THE CONTRACTOR SHALL CONDUCT THE WORKS WITH DUE REGARD TO ANY ECOLOGICAL AND ENVIRONMENTAL REQUIREMENTS OF THE SCHEME. THE CONTRACTOR SHALL TAKE SUCH STEPS TO SAFEGUARD AGAINST CONTAMINATION OF LOCAL WATERCOURSES.
 - UPON COMPLETION OF THE WORKS, THE CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE APPARATUS IS JETTED AND FREE FROM OBSTRUCTIONS AND SUBSEQUENT SUBJECT TO CCTV SURVEY AND TESTING IN ACCORDANCE WITH THE DRAINAGE SPECIFICATION.
 - GRATINGS OF GULLIES LOCATED IN THE CYCLEWAY ARE TO BE CYCLE FRIENDLY. EXISTING GULLY GRATINGS ARE TO BE ASSESSED FOR THE SUITABILITY AND REPLACED WHERE APPROPRIATE
 - NEW DRAINAGE CHANNELS ARE TO BE ACO PARK DRAIN UNIT REFERENCE PD100C 25.1 (SUBJECT TO CONFIRMATION OF CONNECTING CHANNEL SIZES). FOR CONSTRUCTION DETAILS REFER TO WSP DRAWING 288933-WSP-XX-XX-DR-C-0511.
 - WHERE EXISTING GULLY OUTLETS TO BE KEPT LIVE AND GRATING TO BE REPLACED WITH ACCESS COVER, THEY SHOULD BE ADJUSTED TO FINISH LEVEL AND MOVED IF FEASIBLE TO AVOID CLASH WITH KERBLINE.
 - WHERE GULLIES ARE TO BE REPLACED WITH SHALLOW INSPECTION CHAMBERS, THEY ARE TO BE LOCATED OUTSIDE THE CARRIAGEWAY WHERE POSSIBLE AND THE EXISTING GULLY CONNECTION IS TO BE RE-USED.
 - WHERE SHALLOW GULLIES ARE REQUIRED DUE TO EXISTING SHALLOW CONNECTION DEPTHS OR UTILITY CONSTRAINTS, WREKIN GULLY CHUTE CONNECTOR (OR SIMILAR APPROVED) IS TO BE USED.
 - THE DESIGN IS BASED ON TOPOGRAPHICAL SURVEY REFERENCE ASS 2963 BY ADH SITE SURVEYS LIMITED RECEIVED FEBRUARY 2021.
 - THIS DRAWING IS BASED IN A WHOLE OR IN PART ON INFORMATION AND/OR DATA APPROVED BY A THIRD PARTY INCLUDING MIDDLESBROUGH COUNCIL AND AS SUCH IN CONTINGENT UPON THE ACCURACY AND COMPLETENESS OF THAT INFORMATION AND/OR DATA. WSP UK LIMITED SHALL NOT BE LIABLE IN RELATION TO ANY INACCURACY PRESENTED WITHIN THE DRAWING AND/OR IN RELATION TO ANY DISCREPANCY OR AMBIGUITY WITH ANY OTHER PROJECT DOCUMENTS SHOULD ANY DATA AND/OR INFORMATION UPON WHICH RELIANCE HAS BEEN BASED BE INCORRECT OR OUT OF DATE OR HAVE BEEN CONCEALED, WITHHELD OR BE INCOMPLETE, MISREPRESENTED OR OTHERWISE NOT FULLY DISCLOSED TO WSP UK LIMITED.
 - REFERENCE SHOULD BE MADE TO INDIVIDUAL DISCIPLINE DRAWINGS AND THE DESIGN RISK MANAGEMENT SCHEDULE FOR FURTHER HEALTH AND SAFETY INFORMATION - NOT ALL RISKS ARE IDENTIFIED WITHIN THIS DRAWING.
 - ALL PROPOSED BELOW GROUND DRAINAGE PIPELINES/GULLY CONNECTIONS TO BE 150MM DIAMETER UNLESS NOTED OTHERWISE.
 - TEMPORARY WORKS DEIGN ASSOCIATED WITH THE CONSTRUCTION OF THE WORKS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL GULLIES IN FOOTWAYS ARE TO INCLUDE PEDESTRIAN FRIENDLY GULLY GRATINGS TO REDUCE TRIP HAZARDS



DO NOT SCALE

KEY

- HIGHWAY BOUNDARY (REFER TO NOTE 13)
- PROPOSED KERB
- PROPOSED GULLY
- PROPOSED GULLY CONNECTION
- EXISTING GULLY TO BE RETAINED
- EXISTING GULLY TO BE REMOVED
- EXISTING GULLY CONNECTION TO BE REMOVED
- EXISTING DRAINAGE CONNECTION CHAMBER TO BE RETAINED
- PROPOSED DRAINAGE KERB
- PROPOSED DRAINAGE CHANNEL
- EXISTING DRAINAGE CHANNEL TO BE RETAINED
- EXISTING DRAINAGE CHANNEL TO BE REMOVED
- EXISTING DRAINAGE MANHOLE CHAMBER
- EXISTING GULLY TO BE ADJUSTED
- EXISTING DRAINAGE CONNECTION CHAMBER TO BE ADJUSTED

SAFETY HEALTH & ENVIRONMENTAL INFORMATION BOX

HEALTH AND SAFETY SYMBOLS LEGEND

	INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION		INDICATES A RESIDUAL RISK FOR INFORMATION
	INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION		INDICATES A RESIDUAL RISK AS A WARNING
	INDICATES AN ENVIRONMENTAL HAZARD		

This table is provided to assist the Principal Contractor to fulfill their obligations under the Construction Design & Management Regulations, 2015. It does not include residual risks that a competent Contractor will be aware of nor does it absolve the Principal Contractor of their legal responsibilities.
 The reference number corresponds to the Design Risk Management Schedule.

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

REV	DATE	BY	DESCRIPTION	CHK	APP
P04	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
P03	03/09/24	NR	UPDATED FOLLOWING CLIENT REVIEW	JS	PWW
P02	31/07/24	NR	ISSUED FOR CLIENT APPROVAL	JS	PWW
P01	23/07/24	NR	ISSUE FOR COST ESTIMATE	JS	PWW
DR	16/07/24	NR	DRAFT ISSUE	JS	PWW

DRAWING STATUS: **S2 - FOR INFORMATION**

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CLIENT:

SITE/PROJECT: **LINTHORPE ROAD RESTORATION**

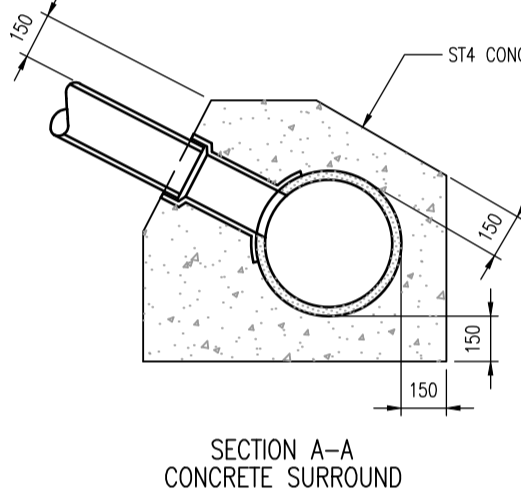
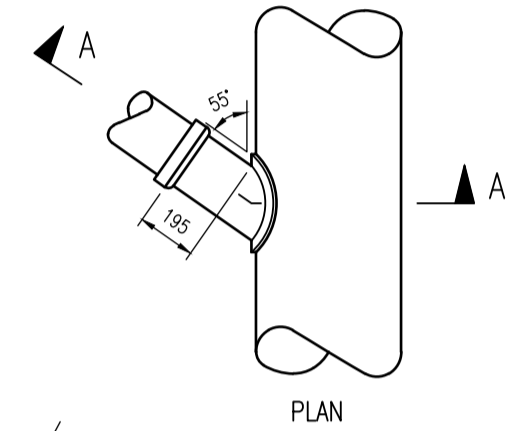
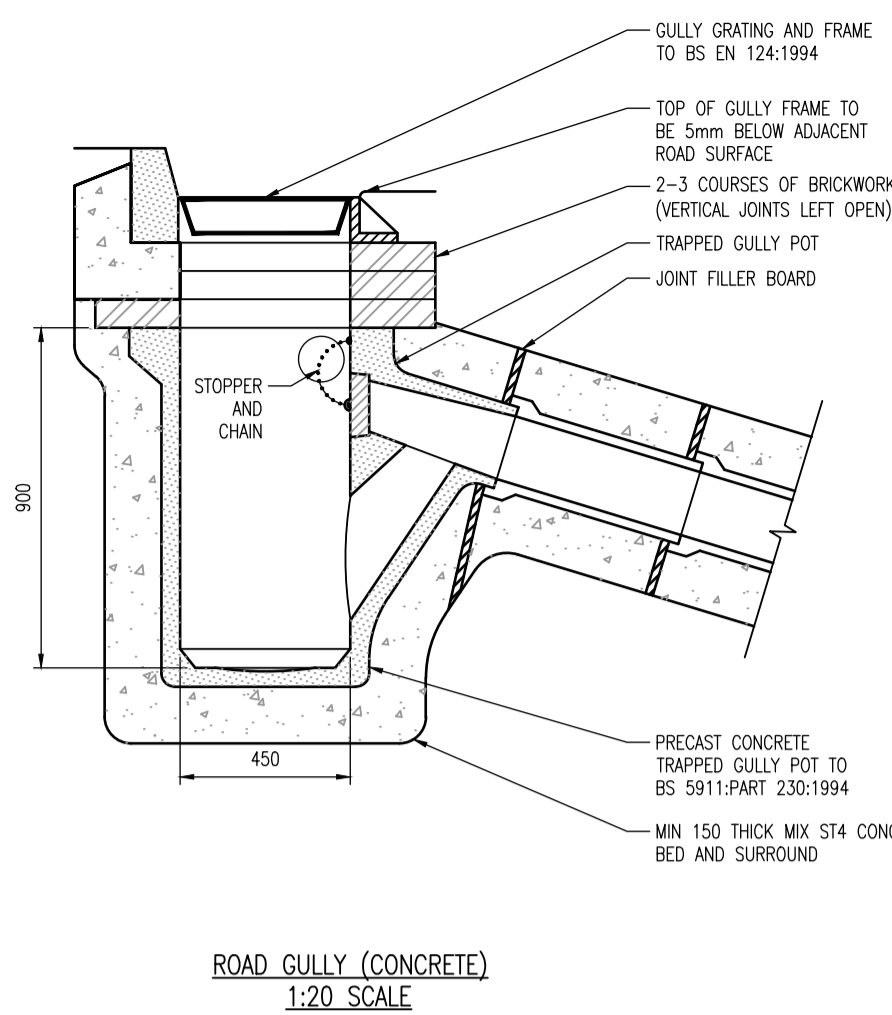
TITLE: **BELOW GROUND DRAINAGE LAYOUT (SHEET 4 OF 4)**

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PROJECT NO: 2024UK293315	DESIGNED: NR	DRAWN: NR
		DATE: JULY 2024

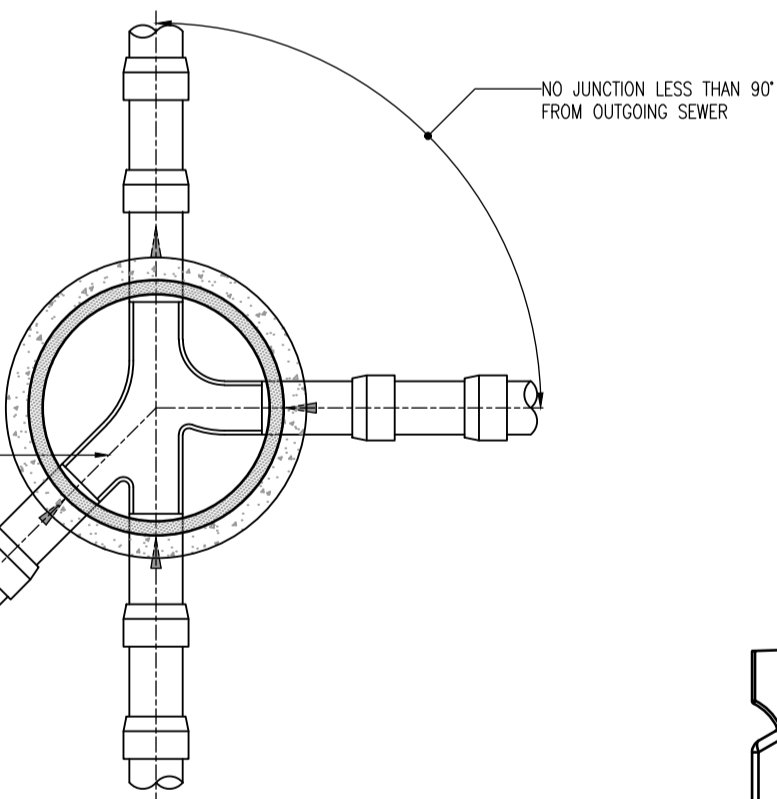
DRAWING NO: **288933-WSP-XX-XX-DR-C-0504** REV: **P04**

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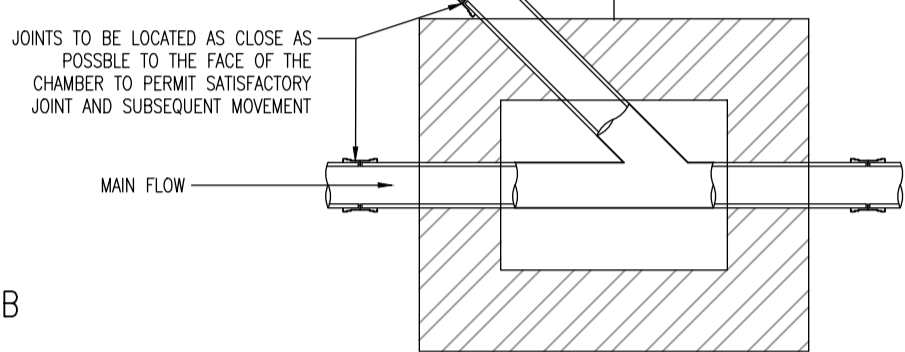
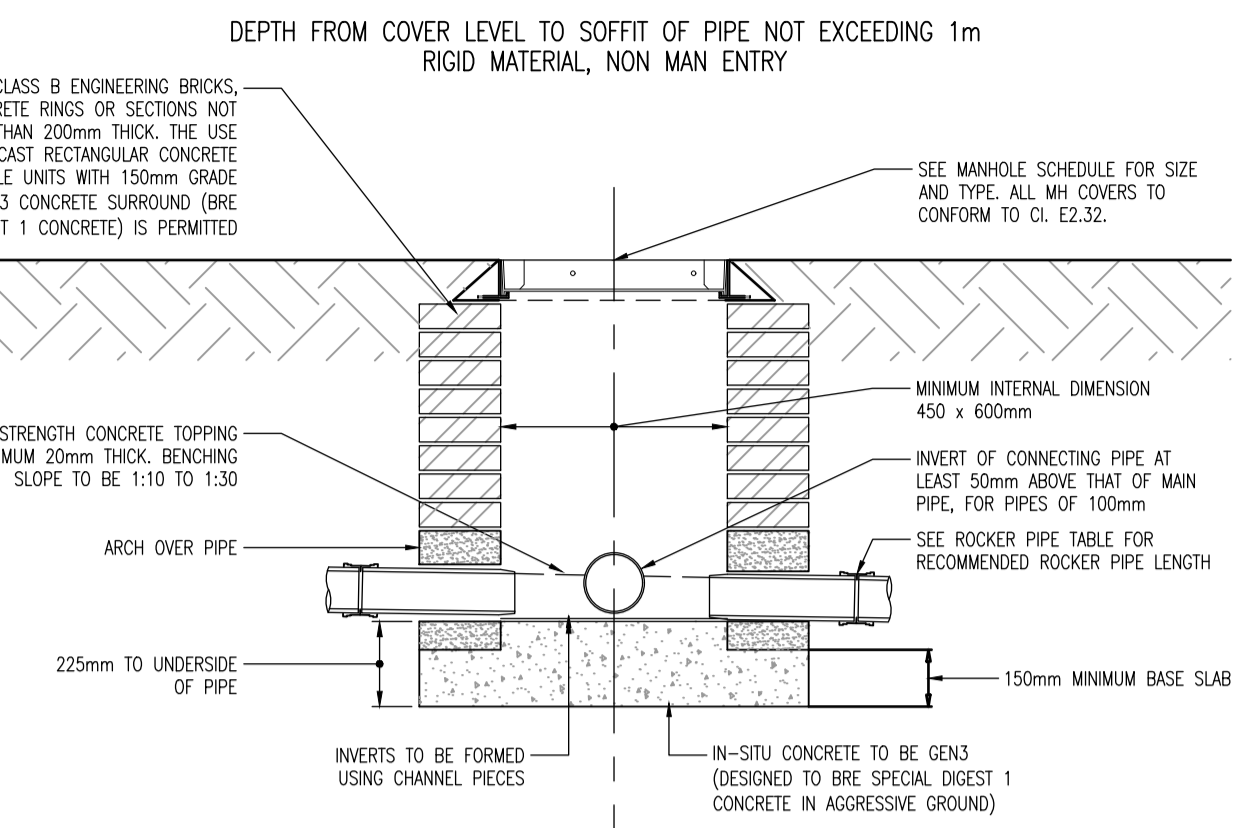


GULLY CONNECTIONS
1:25 SCALE



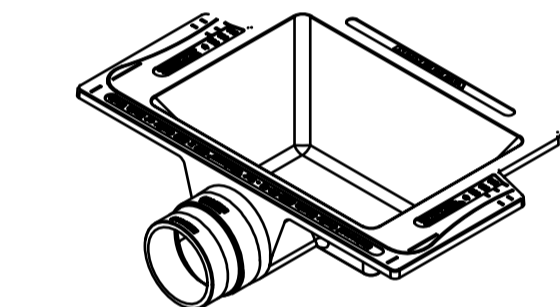
MAXIMUM ROCKER PIPE LENGTHS	
NOMINAL DIAMETER (mm)	EFFECTIVE LENGTH (mm)
150 - 600	600
601 - 750	1000
OVER 750	1250

PIPES BUILT INTO A STRUCTURE OR CHAMBER SHOULD HAVE A FLEXIBLE JOINT AS CLOSE AS FEASIBLE TO THE EXTERNAL FACE OF THE STRUCTURE AND THE LENGTH OF THE NEXT ROCKER PIPE SHOULD BE AS SHOWN ABOVE



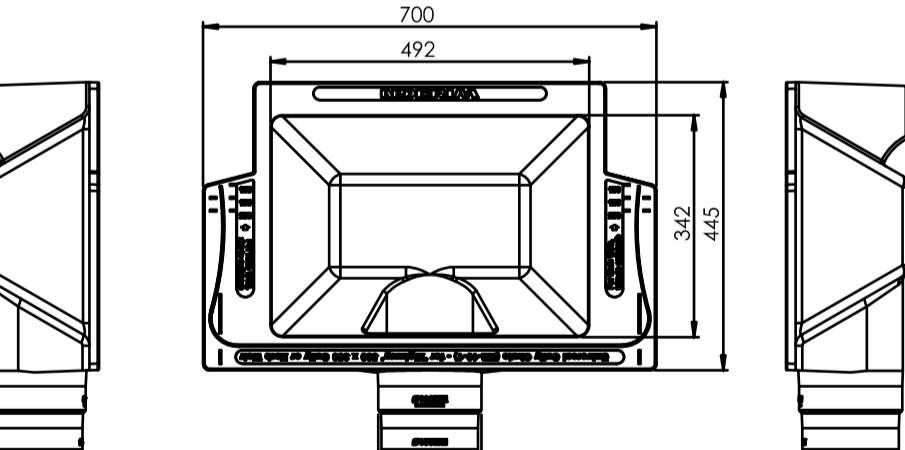
NB: ALL CLAUSE REFERENCES ARE TAKEN FROM SEWERS FOR ADOPTION 7TH EDITION

ACO PARK DRAIN CHANNEL UNIT REFERENCE PD100C 25.1. INVERT DEPTH 300mm. (CONTRACTOR TO CHECK CHANNEL OUTFALL DEPTHS PRIOR TO ORDERING DRAINAGE MATERIALS TO CONFIRM CHANNEL SPECIFICATION SUITABILITY)



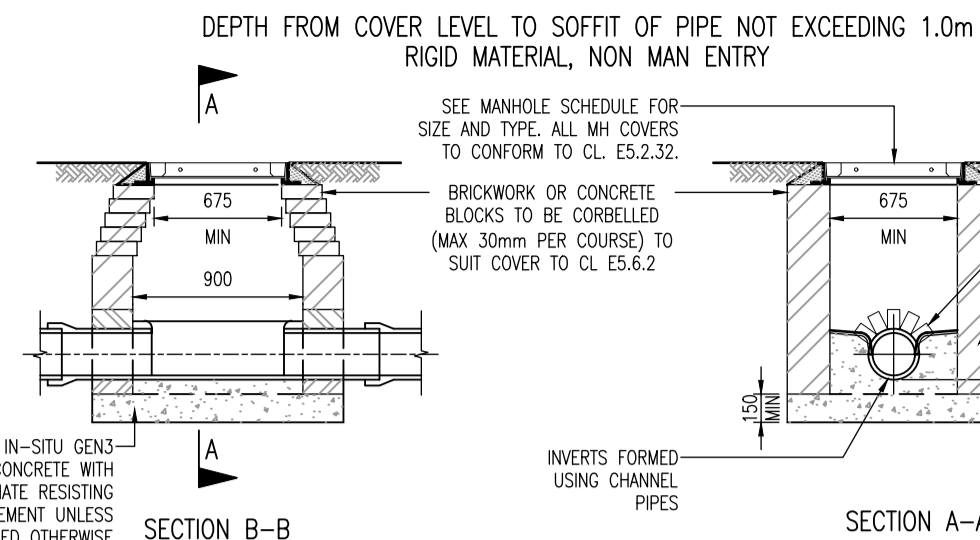
DRAINAGE CHANNEL INSTALLATION DETAIL - ACO PARK DRAIN INSTALLED IN BLOCK PAVING
NTS

DRAINAGE CHANNEL INSTALLATION DETAIL - ACO PARK DRAIN INSTALLED IN TARMAC PAVING
NTS



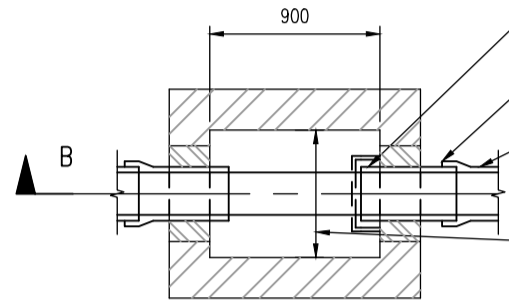
TYPE S PIPE BEDDING (FULL GRANULAR BED & SURROUND)
1:10 SCALE

TYPE S PIPE BEDDING (FULL GRANULAR BED & SURROUND)
1:10 SCALE



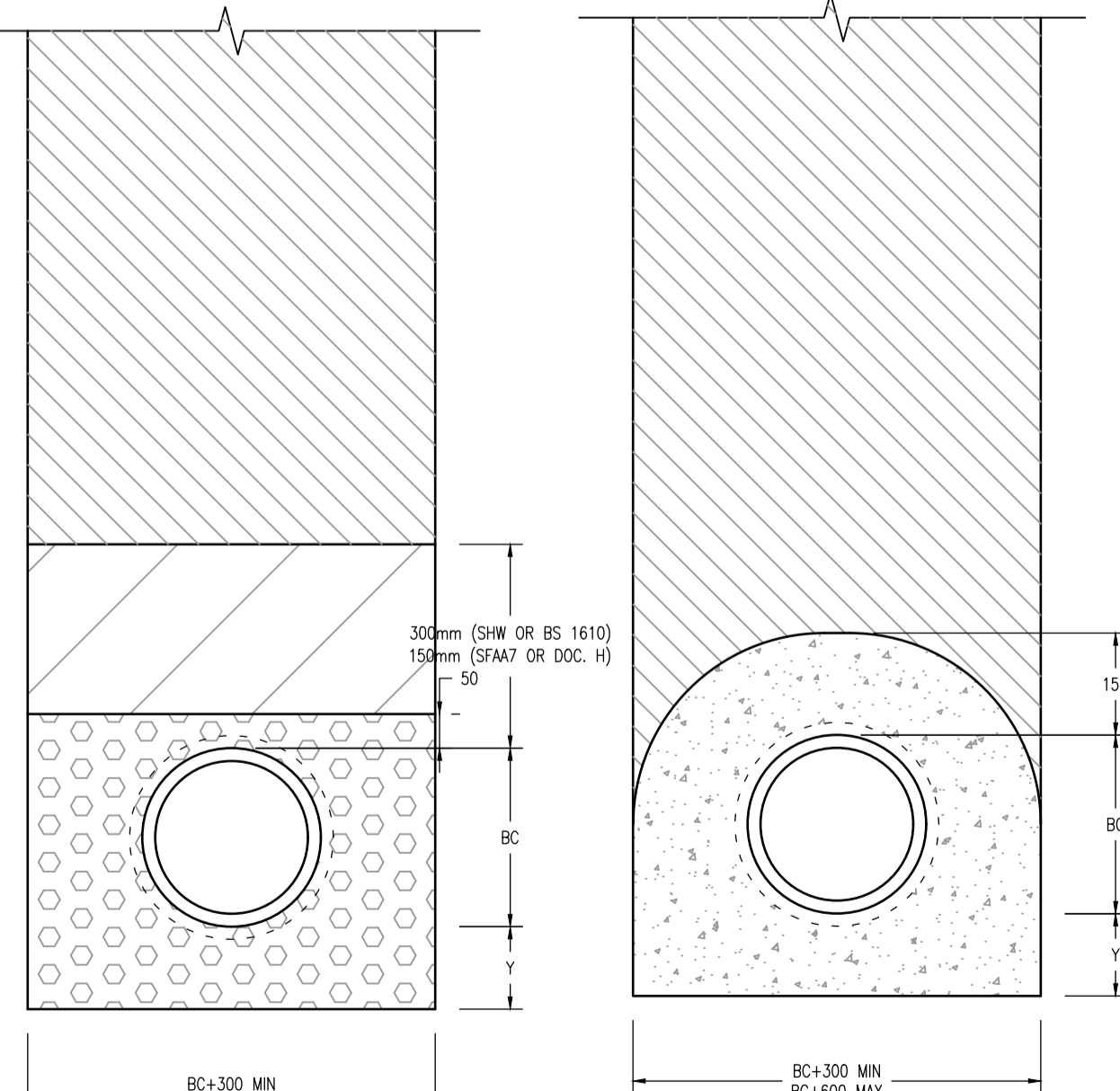
SECTION B-B

SECTION A-A

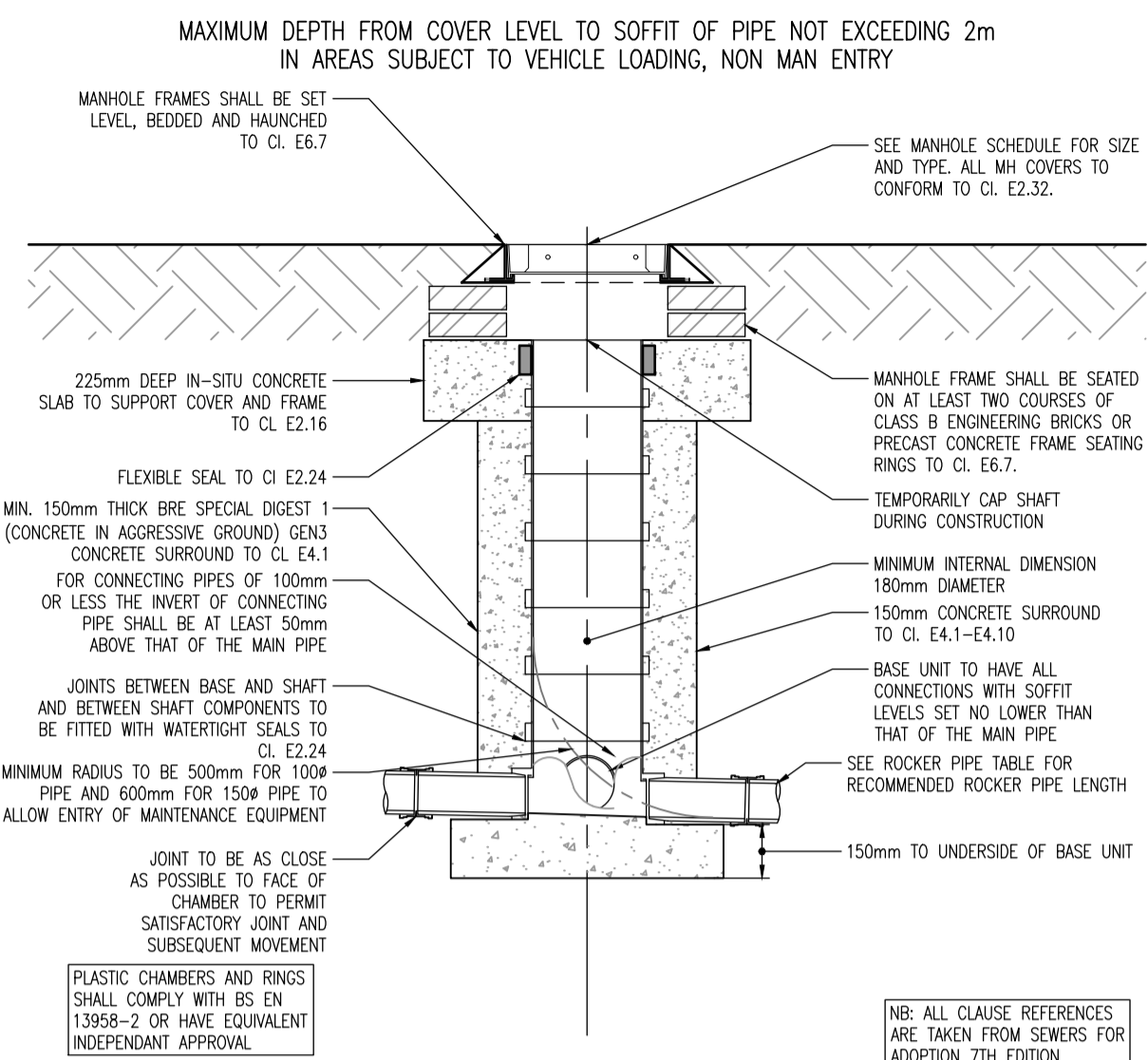


SEAF6 TYPE D MANHOLE
1:40 SCALE

NB: ALL CLAUSE REFERENCES ARE TAKEN FROM SEWERS FOR ADOPTION 6TH EDITION



TYPE Z PIPE BEDDING (FULL CONCRETE BED & SURROUND)
1:10 SCALE



ACCESS CHAMBER DETAIL - TYPE 4
1:20 SCALE

WHERE ACCESS CHAMBER IS LOCATED WITHIN THE ADOPTED HIGHWAY, THE LOCAL HIGHWAY AUTHORITY MAY HAVE ADDITIONAL SPECIFIC REQUIREMENTS

PIPE BEDDING HATCHINGS			
HATCH	SPECIFICATION FOR HIGHWAY WORKS (SHW)	SEWERS FOR ADOPTION 7th EDITION (SFA7)	NON-ADAPTABLE WORKS (DOC. H)
[Hatch]	TRENCH BACKFILL TO SHW CL. 505	20-200mm UNIFORM GRADED MATERIAL TO SFA7 CL. E.3.4*	SELECTED FILL OR GRANULAR FILL FREE FROM STONES>40mm
[Hatch]	CLASS B MATERIAL TO SHW CL. 503.3 (iv)	SELECTED BACKFILL MATERIAL IN ACCORDANCE WITH SFA7 CL. E.3.4*	SELECTED FILL FREE FROM STONES>40mm, LUMPS OF CLAYS>100mm, TIMBER, FROZEN MATERIAL OR VEGETABLE MATTER
[Hatch]	CONCRETE TO SHW CL. 503.3 (ii)	GEN3 (C16/C20) CONCRETE TO SFA7 CL. E.5.3	S74 CONCRETE TO BS 8500-2
[Hatch]	GRANULAR MATERIAL TO SHW CL. 503.3 (i)	GRANULAR OR AS-DUG MATERIAL TO WIS 4-08-02 - REFER TO TABLE BELOW	GRANULAR OR AS-DUG MATERIAL TO BS EN 12953-1 - REFER TO TABLE BELOW
[Hatch]	TYPE B FILTER MEDIA TO SHW CL. 505	N/A	20/40mm SIZE CLEAN GRANULAR MATERIAL
[Hatch]	TYPE A OR C FILTER MATERIAL TO SHW CL. 505 OR GRANULAR MATERIAL TO SHW CL. 503.3 (i)	N/A	0/20mm SIZE CLEAN GRANULAR MATERIAL
[Hatch]	TURF OR SEED ON TOPSOIL AS DESCRIBED IN SHW APPENDIX 5/1	N/A	TURF OR SEED ON TOPSOIL AS PER LANDSCAPE ARCHITECT'S SPECIFICATION
[Hatch]	GRANULAR MATERIAL TO SHW CL. 503.3 (i) e.g. SAND	N/A	0-4mm FINE AGGREGATE OR SHARP SAND

*WHERE SFA7 SEWERS ARE LOCATED INSIDE OR WITHIN 1m OF ADOPTED CARRIAGEWAYS (FUTURE OR EXISTING), BACKFILL AND REINSTATEMENT SHALL BE IN ACCORDANCE WITH THE RELEVANT HIGHWAY REINSTATEMENT SPECIFICATION.

"BC" REFERS TO PIPE OUTER BARREL DIAMETER, EXCLUDING SOCKET SECTIONS

DIMENSION Y		
CLASS	MACHINE DUG UNIFORM SOIL	ROCK OR MIXED SOILS
N,F,B & S	NOTE (i)	NOTE (ii)
A & Z	NOTE (i)	NOTE (ii)

(i) Y=BC/6, WITH MIN 100mm UNDER BARRELS (50mm IF SLEEVE JOINTED) AND MIN 50mm UNDER SOCKETS, WHICHEVER IS THE GREATER

(ii) Y=BC/4, WITH MIN 200 UNDER BARRELS (150 FOR SLEEVE JOINTED) AND MIN 150 UNDER SOCKETS, WHICHEVER IS THE GREATER

NOMINAL BORE OF PIPE	SIZE (mm)	
	SINGLE SIZED	GRADED
100-125	10	-
150-200	10 OR 14	14 TO 5
225-300	10, 14 OR 20	14 TO 5
		OR
375-500	14 OR 20	14 TO 5
		OR
		20 TO 5
EXCEEDING 500	14, 20 OR 40	14 TO 5
		OR
		40 TO 5

TABLE SIZE OF GRANULAR MATERIAL FOR PIPE BEDDING COMPLIES WITH ION 4-11-02, WIS 4-08-02, BS EN 1610 AND THE TRRL DOCUMENT "STRUCTURAL DESIGN OF BURIED RIGID PIPES", 1983; REFERRED BY BS 1295-1.

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NOTES DO NOT SCALE

- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELATED DOCUMENTATION AND DRAWINGS.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
- THE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DFT MCHW, DMRS AND MIDDLESBROUGH LOCAL REQUIREMENTS.
- REFER TO BELOW GROUND DRAINAGE AND LEVELS DRAWINGS FOR SITE SPECIFIC DETAILS OF DRAINAGE.
- FOR DESIGNED, DESIGNATED OR STANDARDISED PRESCRIBED CONCRETE REFER TO BS EN 206-1 AND BS 8500. THEY SHALL HAVE A 20mm NOMINAL MAXIMUM SIZE OF AGGREGATE, AND A SLUMP CLASS S2 FOR TARGET 70mm AND NO ADMIXTURES.
- CONCRETE PIPES TO BE TO BS EN 1916 & BS 5911-1, CLAYWARE PIPES TO BE TO BS EN 295, DUCTILE IRON PIPES TO BE TO BS EN 598 & PLASTIC PIPES TO BS EN 13476-1 AND 13476-2
- ALL TRENCHES SITUATED WITHIN TRAFFICKED AREAS TO BE BACKFILLED IN ACCORDANCE WITH HAUC SPECIFICATION FOR THE REINSTATEMENT OF OPENINGS IN HIGHWAYS APPENDIX A1 CLASSES A,B,C,D.
- BACKFILL TO TRENCHES TO BE SELECTED AS-DUG MATERIAL IN ACCORDANCE WITH BUILDING REGULATIONS APPROVED DOCUMENT H.
- NOTE THE MAXIMUM TRENCH WIDTH MUST NOT BE EXCEEDED. IF THE WIDTH IS EXCEEDED THE CONTRACTOR MUST SUBMIT REvised BEDDING PROPOSALS TO THE SUPERVISING OFFICER/ENGINEER.
- SOFT SPOTS SHALL BE REMOVED FROM THE BOTTOM OF THE TRENCH AND OTHER EXCAVATIONS AND THEN BE REFILLED TO FORMATION LEVEL WITH THE SAME MATERIAL AS THE PERMANENT WORK WHICH IS TO REST ON THAT FORMATION. OVERDIG SHALL BE TREATED IN THE SAME MANNER AT CONTRACTORS EXPENSE AS INSTRUCTED BY THE SUPERVISING OFFICER/ENGINEER.
- NOT WITHSTANDING SPECIFIC REQUIREMENTS FOR INDIVIDUAL CHAMBER TYPES ALL PIPES LEADING TO AND FROM CHAMBERS SHALL INCLUDE ROCKER PIPES.
- INSPECTION CHAMBERS SHALL BE IN ACCORDANCE WITH THE RELEVANT BRITISH STANDARD FOR THEIR MATERIAL, AS STATED IN TABLE 14 OF BUILDING REGULATIONS APPROVED DOCUMENT H.
- ALL PIPES SHALL BE LAID SOFFIT TO SOFFIT UNO.
- PCC MANHOLES, SOAKAWAYS & COVER SLABS TO BE BS EN 1917 AND BS 5911-3.
- PREFORMED SWEEP CHANNELS SHALL BE USED AT JUNCTIONS AND NO BRANCH SHALL ENTER AT LESS THAN 90 DEGREES FROM THE OUTGOING SEWER.
- MANHOLE ACCESS OPENINGS TO BE IN ACCORDANCE WITH TABLE 12 OF BUILDING REGULATIONS APPROVED DOCUMENT H.
- ALL MANHOLE COVERS SHOULD BE IN ACCORDANCE AND BE BEDDED AND HAUNCHED IN MORTAR.
- WHERE THERE IS DOUBT AS TO WHICH MANHOLE COVER SHOULD BE USED, A STRONGER CLASS SHOULD BE SELECTED. FRAMES FOR MANHOLES SHALL BE BEDDED IN CLASS M1 BEDDING MORTAR.
- ALL MANHOLE FRAMES TO BE SET PARALLEL TO ADJACENT KERBS OR NEAREST BUILDINGS AND COVERS AND FRAMES TO BE FLUSH WITH SURFACE ±5mm MAX.
- COMPRESSIBLE FILLER TO PIPELINES TO BE USED TO INTERRUPT CONCRETE PROTECTION TO PIPELINES AND SHALL CONSIST OF BITUMEN IMPREGNATED INSULATING BOARD TO BS 1142 AT EACH PIPE JOINT.
- REFERENCE SHALL BE MADE TO THE MANUFACTURER'S INSTRUCTIONS FOR PROPRIETARY PRODUCTS. CONSIDERATION WILL BE GIVEN TO ALTERNATIVE PRODUCTS OF EQUAL QUALITY BUT THE CONTRACTOR MAY NOT USE A SUBSTITUTE MATERIAL WITHOUT PRIOR WRITTEN APPROVAL OF THE SUPERVISING OFFICER/ENGINEER.
- CONFLICTING INFORMATION SHOWN ON THE ENGINEER'S DRAWINGS OR DISCREPANCIES BETWEEN THE INFORMATION GIVEN BY THE ENGINEER AND THAT PROVIDED BY OTHERS MUST BE REFERRED TO THE ENGINEER BEFORE THE WORKS COMMENCE.

PO2	31/07/24	NR	ISSUED FOR CLIENT APPROVAL	JS	PWW
PO1	23/07/24	NR	ISSUE FOR COSTING	JS	PWW
DR	16/07/24	NR	DRAFT ISSUE	JS	PWW
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: S2 - FOR INFORMATION

CLIENT:

SITE/PROJECT:

LINTHORPE ROAD RESTORATION

TITLE:

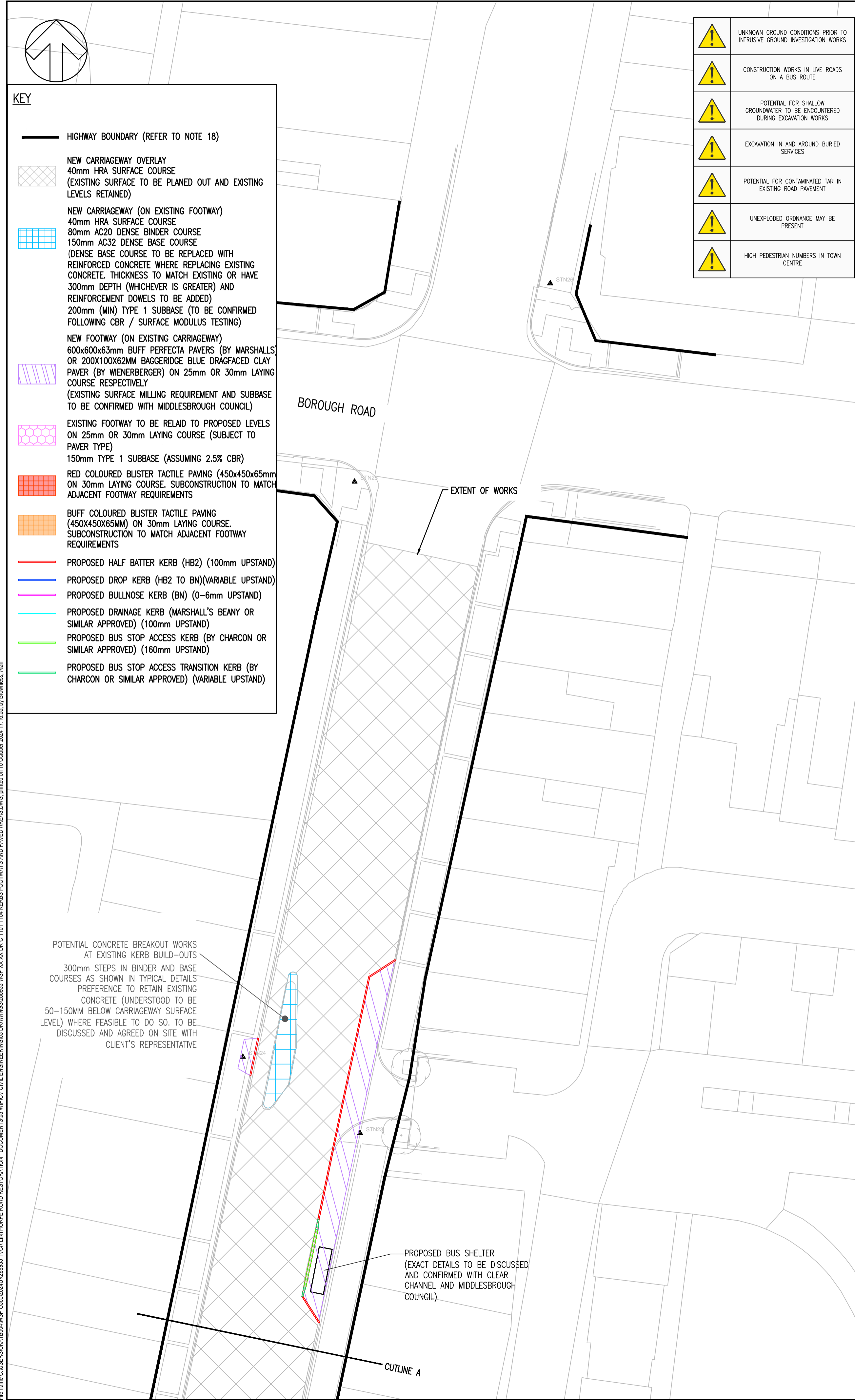
DRAINAGE TYPICAL DETAILS

SCALE @ AT:	CHECKED:	APPROVED:
NTS	JS	PWW

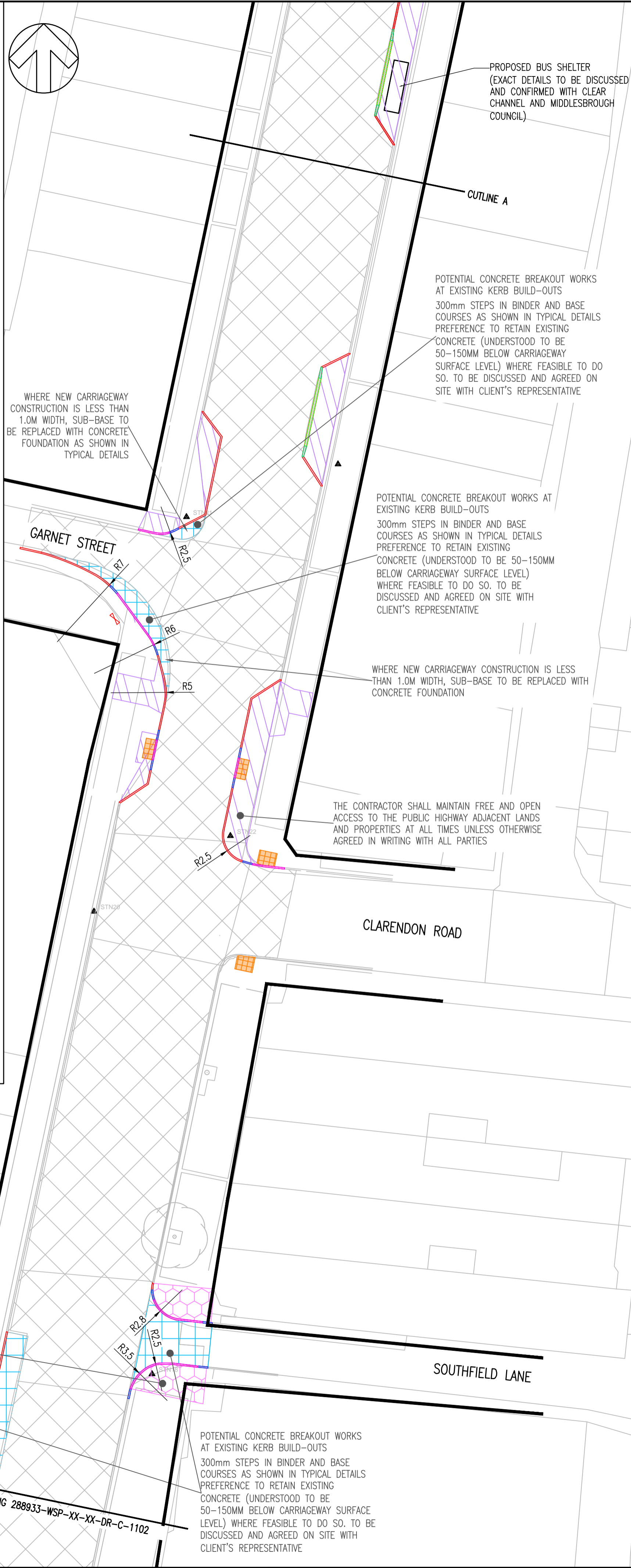
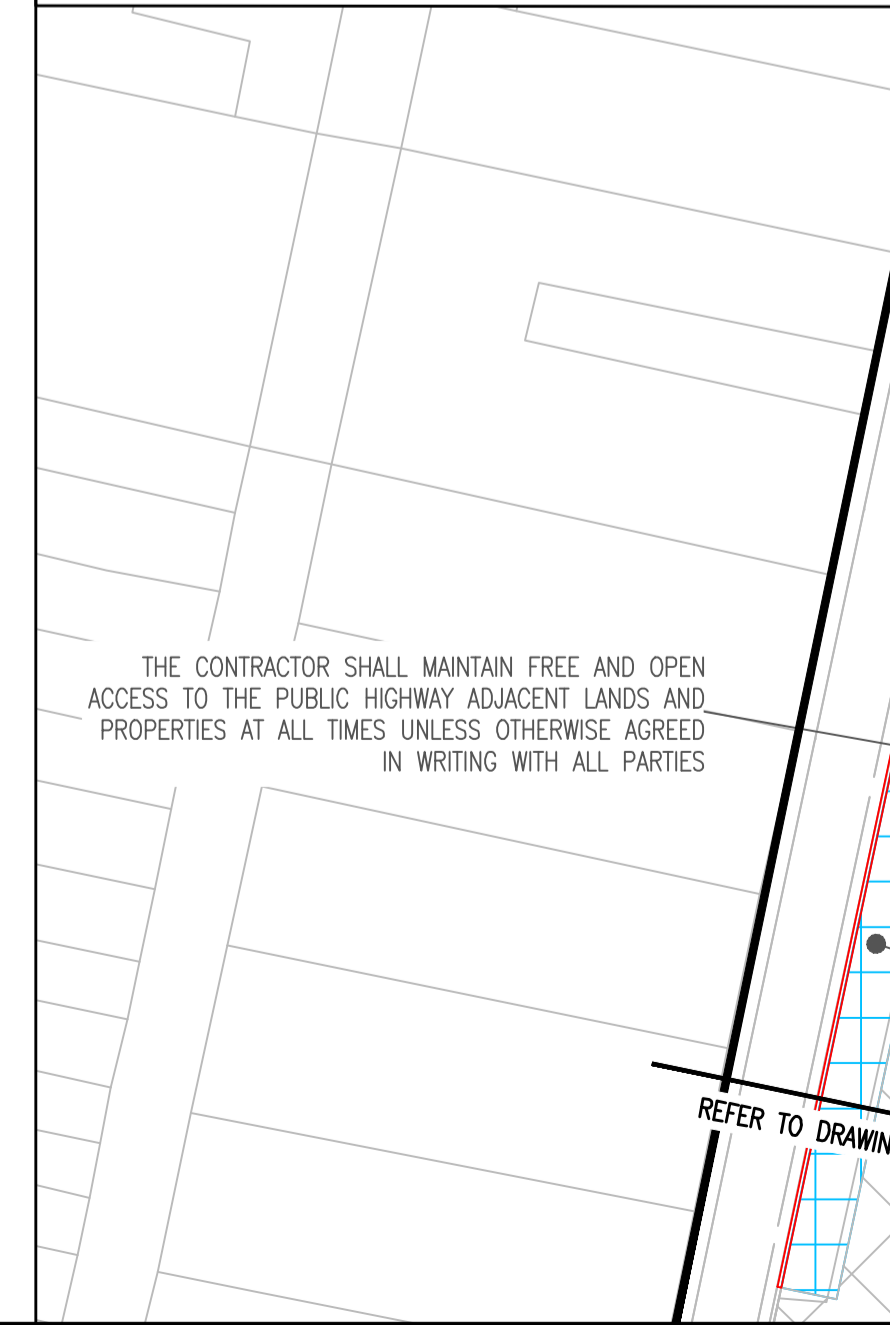
PROJECT NO:	DESIGNED:	DRAWN:	DATE:
2024UK293315	NR	NR	JULY 2024

DRAWING NO:	REV:
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-288933-WSP-XX-XX-DR-C-1101-1104
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 - ALL PROPOSED KERBS ARE TO TIE INTO EXISTING KERB ALIGNMENTS.
 - ALL PROPOSED PAVING LEVELS ARE TO TIE INTO EXISTING PAVING LEVELS AND BE FREE FROM PROTRUDING STEPS FROM THE FINISHED LEVEL.
 - STREET FURNITURE, KERBS, GULLIES, ETC. SHALL BE COVERED WITH A SUITABLE MASKING MATERIAL TO PREVENT OVER SPRAY OF BITUMINOUS MATERIALS.
 - IN THE AREAS OF NEW CARRIAGEWAY CONSTRUCTION, WHERE THE WIDTH OF CARRIAGEWAY IS LESS THAN 1.0M, CONCRETE FILL TYPE ST1 / ST2 OR OTHER SIMILAR SPECIFICATION AS APPROVED BY MIDDLESBROUGH COUNCIL TO BE USED AS A REPLACEMENT FOR TYPE 1 SUBBASE.
 - AREAS OF FOOTWAY / HARDSTANDING & GRASSED VERGES TO BE MADE GOOD ONCE NEW KERBING / PAVING HAS BEEN INSTALLED.
 - ALL FOUNDATIONS SHOULD BE PROOF ROLLED PRIOR TO CONSTRUCTION WITH AND SOFT OR LOOSE POCKETS REPLACED WITH SUITABLE GRANULAR FILL MATERIAL.
 - WHERE SUBGRADE SURFACE MODULUS HAS A VALUE OF LESS THAN 30MPa (APPROX.2.5% CBR), IT MUST BE IMPROVED IN ACCORDANCE WITH DMRB CD 225.
 - THE DESIGN IS BASED ON TOPOGRAPHICAL SURVEY REFERENCE ASS 2963 BY ADH SITE SURVEYS LIMITED RECEIVED FEBRUARY 2021.
 - CONFLICTING INFORMATION SHOWN ON THE ENGINEER'S DRAWINGS OR DISCREPANCIES BETWEEN THE INFORMATION GIVEN BY THE ENGINEER AND THAT PROVIDED BY OTHERS MUST BE REFERRED TO THE ENGINEER BEFORE THE WORKS COMMENCE.
 - ALL REPAIRS TO THE EXISTING FOOTWAY RESULTING FROM CONSTRUCTION, NOT INDICATED ON THIS DRAWING, SHALL BE REINSTATED TO MATCH EXISTING.
 - WHERE IT IS NECESSARY TO AMEND BLOCK PAVING / KERB SIZES, IT IS ADVISED TO MEASURE AND CUT MATERIALS OFF-SITE, OR THE USE OF A BLOCK SPLITTER, TO REDUCE EXPOSURE TO DUST AND NOISE POLLUTION.
 - WHERE IT IS NECESSARY TO AMEND BLOCK PAVING / KERB SIZES, IT IS ADVISED TO MEASURE AND CUT MATERIALS OFF-SITE, OR THE USE OF A BLOCK SPLITTER, TO REDUCE EXPOSURE TO DUST AND NOISE POLLUTION.
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HEALTH AND SAFETY SYMBOLS LEGEND

XXX	INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION	XXX	INDICATES A RESIDUAL RISK FOR INFORMATION
XXX	INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION	XXX	INDICATES A RESIDUAL RISK AS A WARNING
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PO4	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
PO3	12/09/24	NR	UPDATED FOLLOWING CLIENT REVIEW	JS	PWW
PO2	31/07/24	NR	ISSUED FOR CLIENT APPROVAL	JS	PWW
PO1	23/07/24	NR	ISSUE FOR COST ESTIMATE	JS	PWW
DR	16/07/24	NR	DRAFT ISSUE	JS	PWW
REV	DATE	BY	DESCRIPTION	CHK	APP

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CLIENT:

SITE/PROJECT:

LINTHORPE ROAD RESTORATION

TITLE:

KERBS, FOOTWAYS AND PAVED AREAS
(SHEET 1 OF 4)

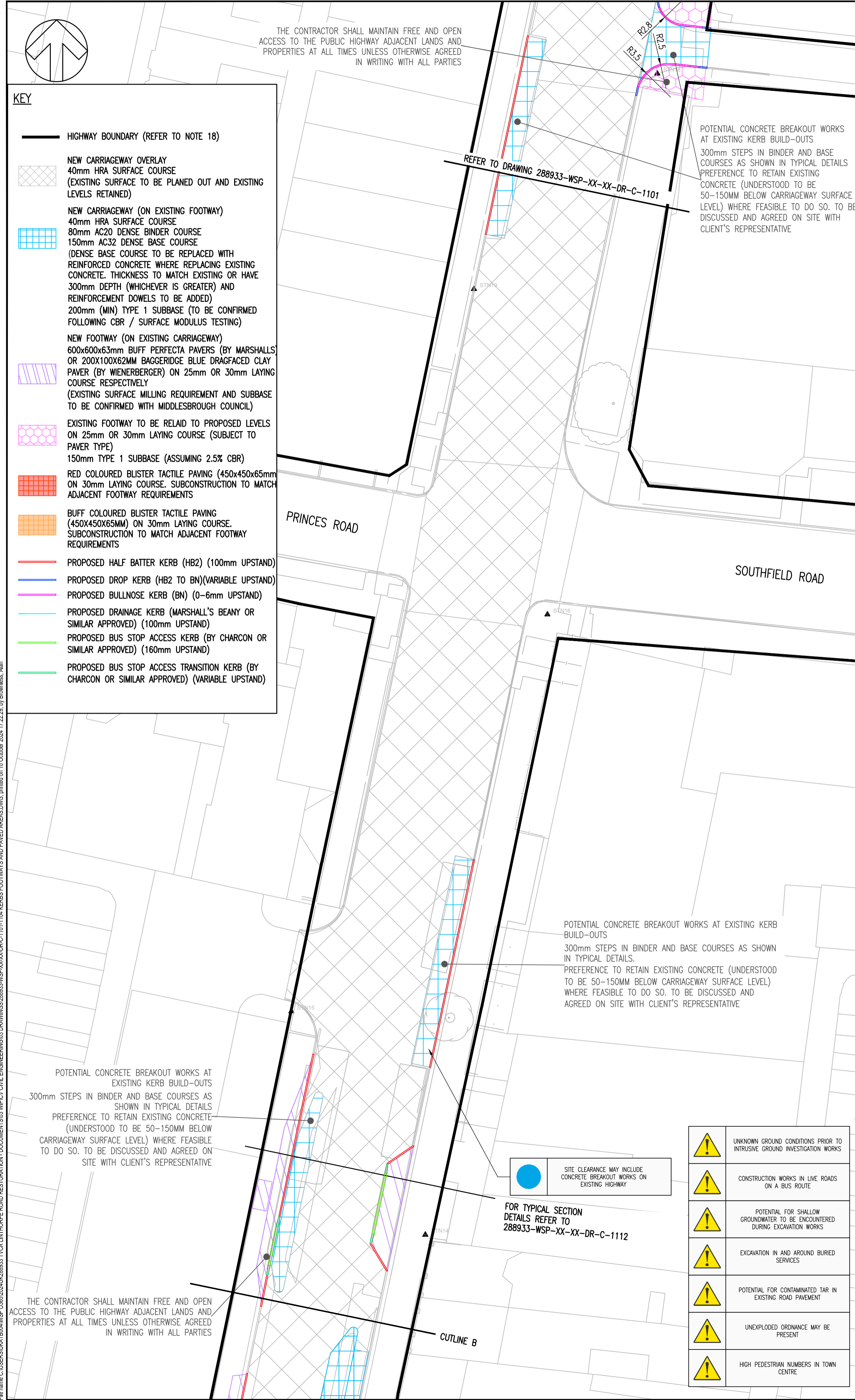
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1:250	JS	PWW

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
2024UK293315	NR	NR	JULY 2024

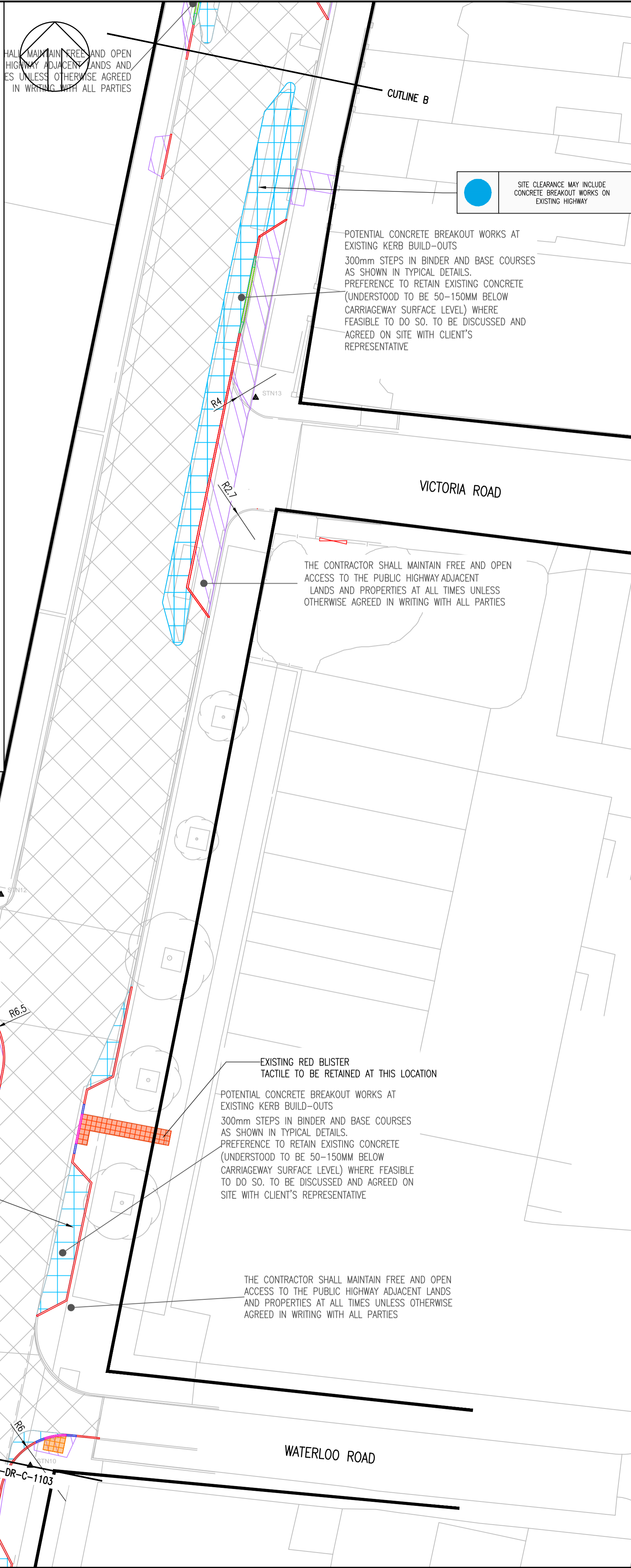
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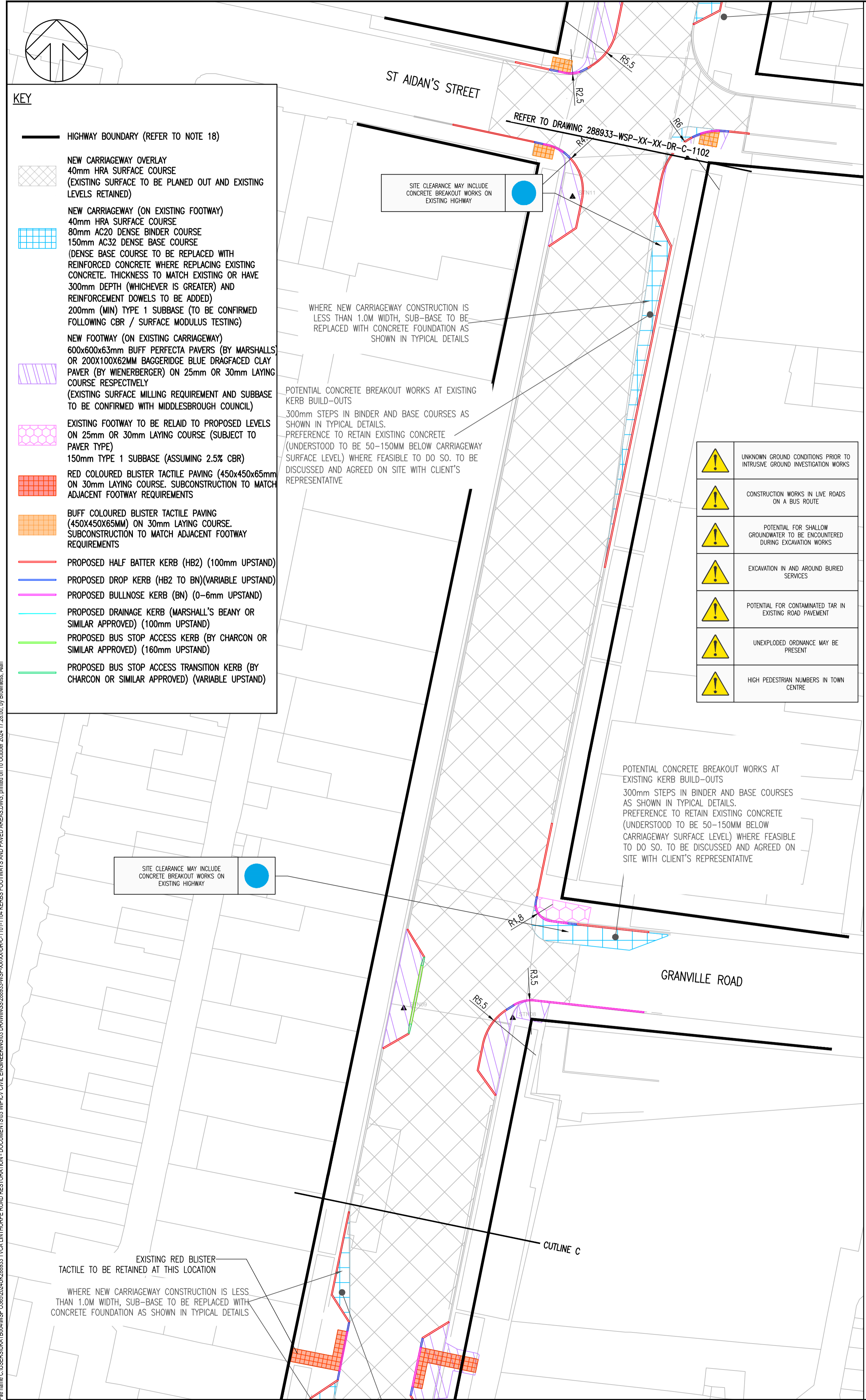
SITE PROJECT: LINTHORPE ROAD RESTORATION

TITLE: KERBS, FOOTWAYS AND PAVED AREAS (SHEET 2 OF 4)

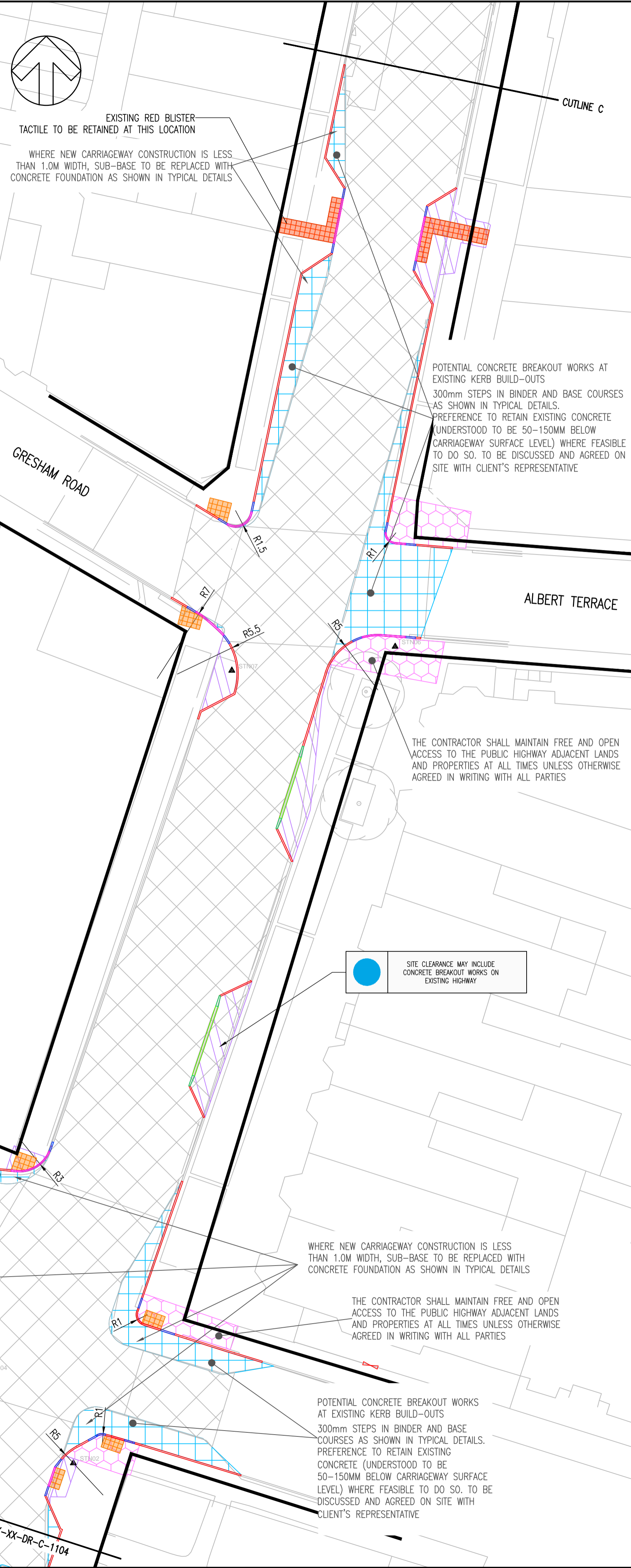
SCALE @ A1: 1:250	CHECKED: JS	APPROVED: PWW
PROJECT NO: 2024UK293315	DESIGNED: NR	DRAWN: NR
DRAWING NO: 288933-WSP-XX-XX-DR-C-1102	DATE: JULY 2024	REV: P04

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KEY

- HIGHWAY BOUNDARY (REFER TO NOTE 18)
- NEW CARRIAGEWAY OVERLAY
40mm HRA SURFACE COURSE
(EXISTING SURFACE TO BE PLAINED OUT AND EXISTING LEVELS RETAINED)
- NEW CARRIAGEWAY (ON EXISTING FOOTWAY)
40mm HRA SURFACE COURSE
80mm AC20 DENSE BINDER COURSE
150mm AC32 DENSE BASE COURSE
(DENSE BASE COURSE TO BE REPLACED WITH REINFORCED CONCRETE WHERE REPLACING EXISTING CONCRETE. THICKNESS TO MATCH EXISTING OR HAVE 300mm DEPTH (WHICHEVER IS GREATER) AND REINFORCEMENT DOWNELS TO BE ADDED)
200mm (MIN) TYPE 1 SUBBASE (TO BE CONFIRMED FOLLOWING CBR / SURFACE MODULUS TESTING)
- NEW FOOTWAY (ON EXISTING CARRIAGEWAY)
600x600x63mm BUFF PERFECTA PAVERS (BY MARSHALLS OR 200X100X62MM BAGGERIDGE BLUE DRAGFACED CLAY PAVES (BY WIENERBERGER) ON 25mm OR 30mm LAYING COURSE RESPECTIVELY
(EXISTING SURFACE MILLING REQUIREMENT AND SUBBASE TO BE CONFIRMED WITH MIDDLESBROUGH COUNCIL)
- EXISTING FOOTWAY TO BE RELAID TO PROPOSED LEVELS ON 25mm OR 30mm LAYING COURSE (SUBJECT TO PAVES TYPE)
150mm TYPE 1 SUBBASE (ASSUMING 2.5% CBR)
- RED COLOURED BLISTER TACTILE PAVING (450x450x65mm) ON 30mm LAYING COURSE. SUBCONSTRUCTION TO MATCH ADJACENT FOOTWAY REQUIREMENTS
- BUFF COLOURED BLISTER TACTILE PAVING (450x450x65mm) ON 30mm LAYING COURSE. SUBCONSTRUCTION TO MATCH ADJACENT FOOTWAY REQUIREMENTS
- PROPOSED HALF BATTER KERB (HB2) (100mm UPSTAND)
- PROPOSED DROP KERB (HB2 TO BN)(VARIABLE UPSTAND)
- PROPOSED BULLNOSE KERB (BN) (0-6mm UPSTAND)
- PROPOSED DRAINAGE KERB (MARSHALL'S BEANY OR SIMILAR APPROVED) (100mm UPSTAND)
- PROPOSED BUS STOP ACCESS KERB (BY CHARCON OR SIMILAR APPROVED) (160mm UPSTAND)
- PROPOSED BUS STOP ACCESS TRANSITION KERB (BY CHARCON OR SIMILAR APPROVED) (VARIABLE UPSTAND)

NOTES

- UNKNOWN GROUND CONDITIONS PRIOR TO INTRUSIVE GROUND INVESTIGATION WORKS
- CONSTRUCTION WORKS IN LIVE ROADS ON A BUS ROUTE
- POTENTIAL FOR SHALLOW GROUNDWATER TO BE ENCOUNTERED DURING EXCAVATION WORKS
- EXCAVATION IN AND AROUND BURIED SERVICES
- POTENTIAL FOR CONTAMINATED TAR IN EXISTING ROAD PAVEMENT
- UNEXPLODED ORDNANCE MAY BE PRESENT
- HIGH PEDESTRIAN NUMBERS IN TOWN CENTRE

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CLIENT: **TEES VALLEY**

SITE/PROJECT: **LINTHORPE ROAD RESTORATION**

TITLE: **KERBS, FOOTWAYS AND PAVED AREAS (SHEET 3 OF 4)**

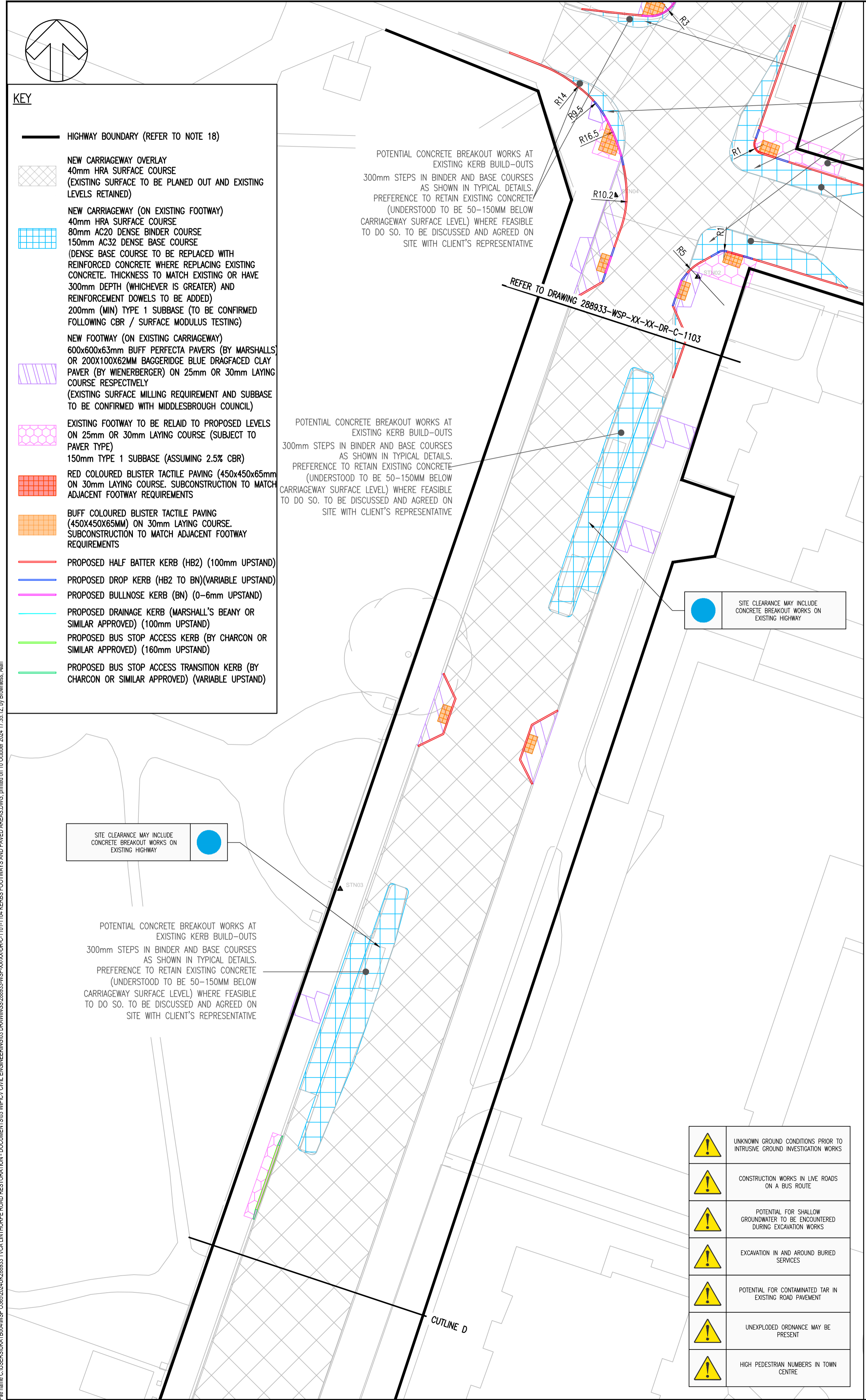
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PROJECT NO:	DESIGNED:	DRAWN:	DATE:
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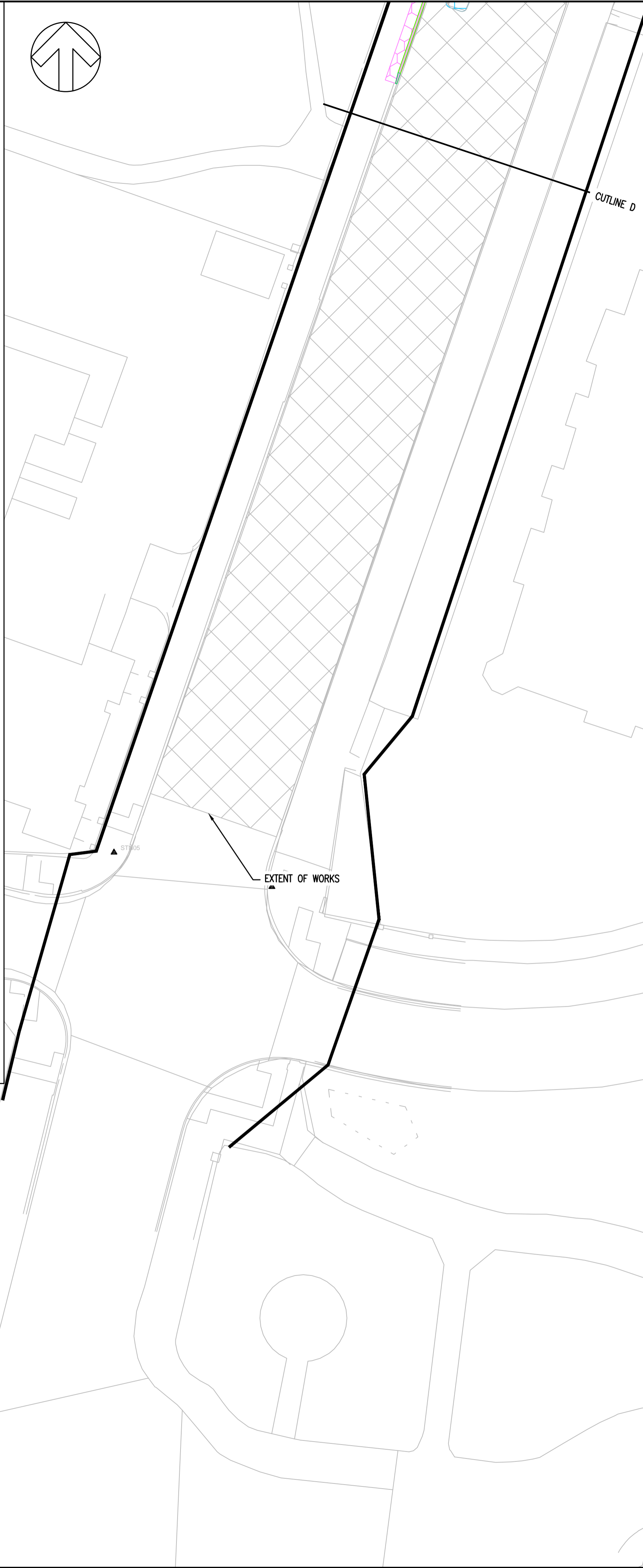
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THICKNESS (mm)	420	330	270	230	200	200

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

REV	DATE	BY	DESCRIPTION	CHK	APP
P04	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
P03	12/09/24	NR	UPDATED FOLLOWING CLIENT REVIEW	JS	PWW
P02	31/07/24	NR	ISSUED FOR CLIENT APPROVAL	JS	PWW
P01	23/07/24	NR	ISSUE FOR COST ESTIMATE	JS	PWW
DR	16/07/24	NR	DRAFT ISSUE	JS	PWW

DRAWING STATUS: **S2 - FOR INFORMATION**

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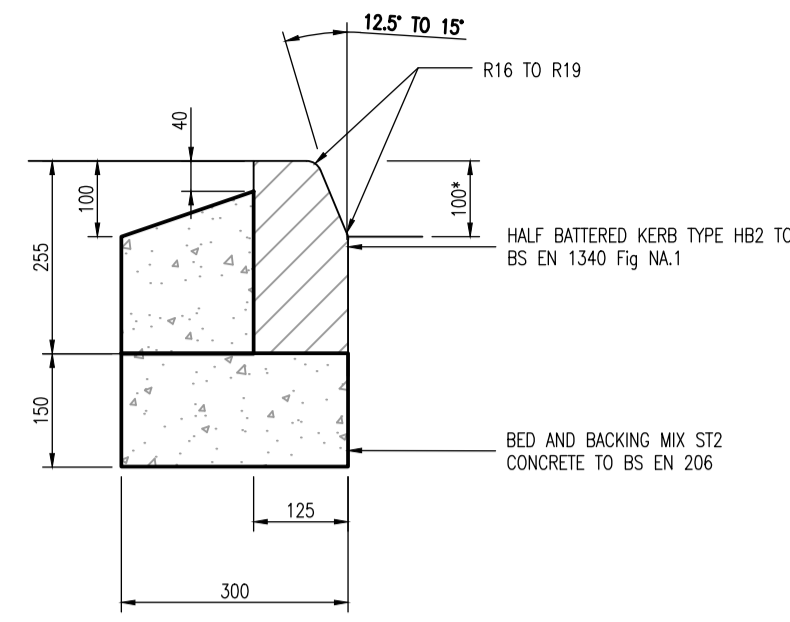
SITE/PROJECT: **LINTHORPE ROAD RESTORATION**

TITLE: **KERBS, FOOTWAYS AND PAVED AREAS (SHEET 4 OF 4)**

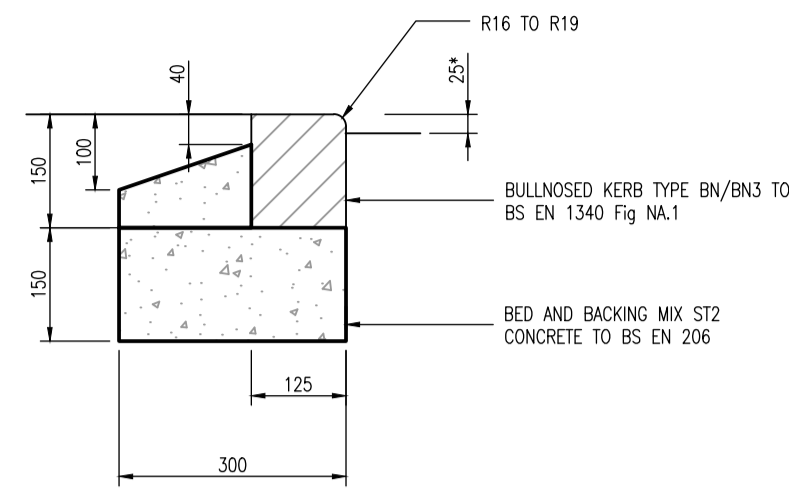
SCALE @ A1: 1:250	CHECKED: JS	APPROVED: PWW
PROJECT NO: 2024UK293315	DESIGNED: NR	DRAWN: NR
		DATE: JULY 2024
DRAWING NO: 288933-WSP-XX-XX-DR-C-1104		REV: P04

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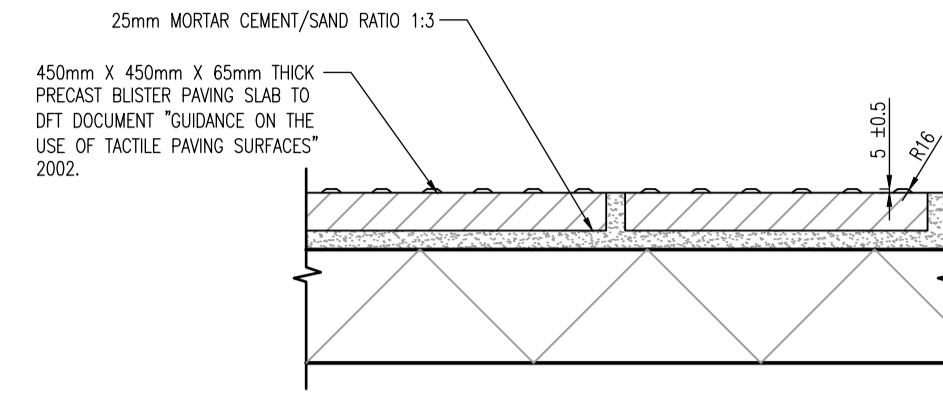
- | | |
|--|---|
| | UNKNOWN GROUND CONDITIONS PRIOR TO INTRUSIVE GROUND INVESTIGATION WORKS |
| | CONSTRUCTION WORKS IN LIVE ROADS ON A BUS ROUTE |
| | POTENTIAL FOR SHALLOW GROUNDWATER TO BE ENCOUNTERED DURING EXCAVATION WORKS |
| | EXCAVATION IN AND AROUND BURIED SERVICES |
| | POTENTIAL FOR CONTAMINATED TAR IN EXISTING ROAD PAVEMENT |
| | UNEXPLODED ORDNANCE MAY BE PRESENT |
| | HIGH PEDESTRIAN NUMBERS IN TOWN CENTRE |



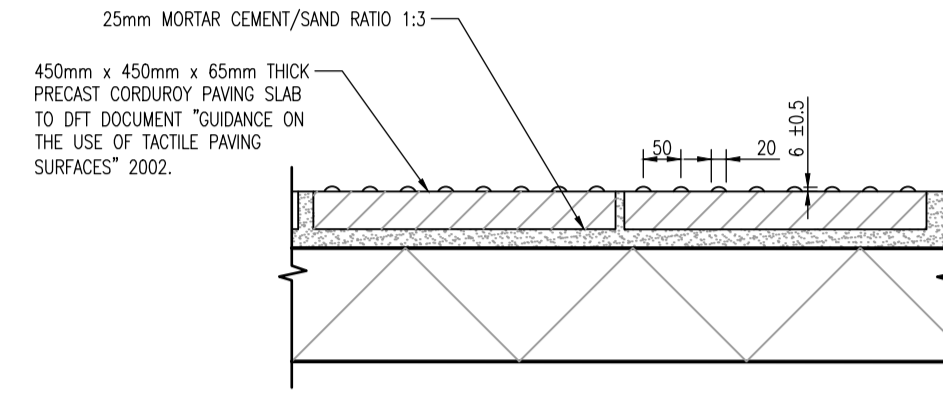
HB2 TYPE KERB
1:10 SCALE
(*UPSTAND HEIGHT IS SUBJECT TO CHANGE)



BN3 TYPE KERB
1:10 SCALE
(*UPSTAND HEIGHT IS SUBJECT TO CHANGE)

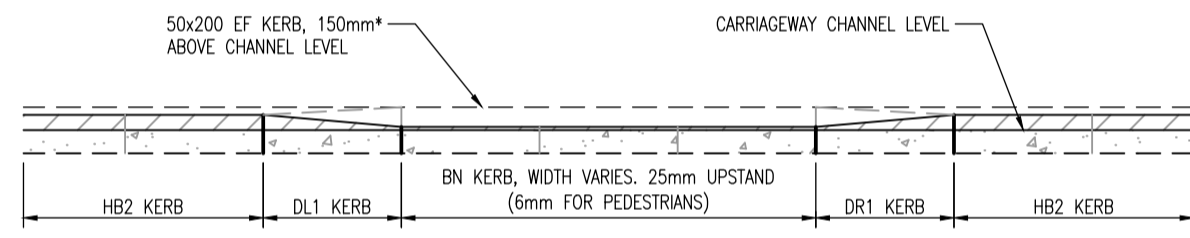


TACTILE PAVING - BLUSTER SLAB UNITS
1:10 SCALE

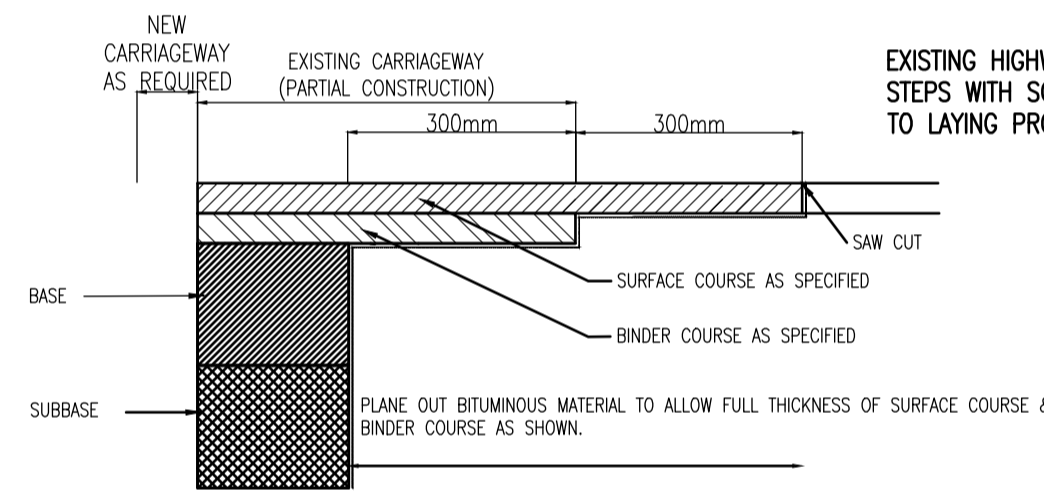


TACTILE PAVING - CORDUROY SLAB UNITS (HAZARD WARNING)
1:10 SCALE

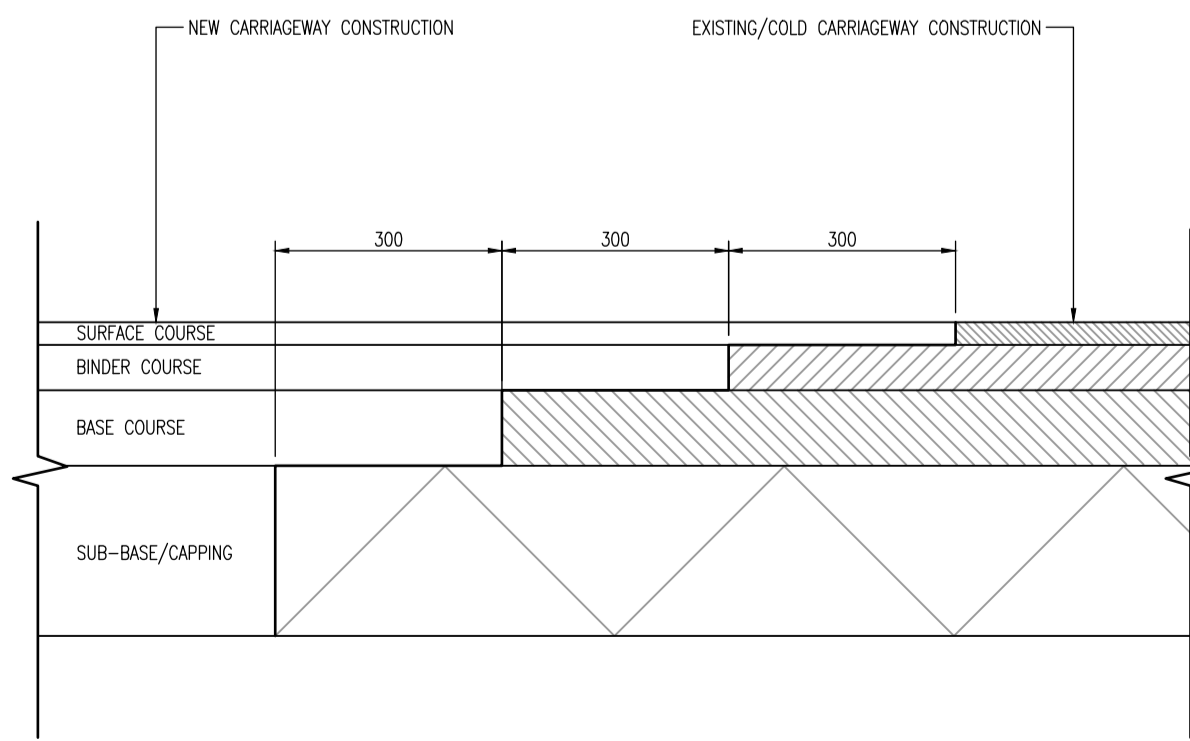
PRIOR TO LAYING SUBSEQUENT LAYERS OF BITUMINOUS MATERIAL THE SURFACE SHALL BE THOROUGHLY CLEANED AND A TACK COAT OF BITUMEN EMULSION CLASS K1-40 TO BS434 SHALL BE APPLIED AT A RATE OF 0.4 TO 0.6 LITRES PER SQUARE METRE TO ANY BITUMINOUS SURFACE THAT HAS BEEN LEFT UNCOVERED FOR MORE THEN THREE DAYS



(*DIMENSIONS TO BE ADJUSTED TO SUIT SITE LAYOUT/DESIGN. REFER TO EXTERNAL WORKS DESIGN LAYOUTS AND SPECIFICATION)

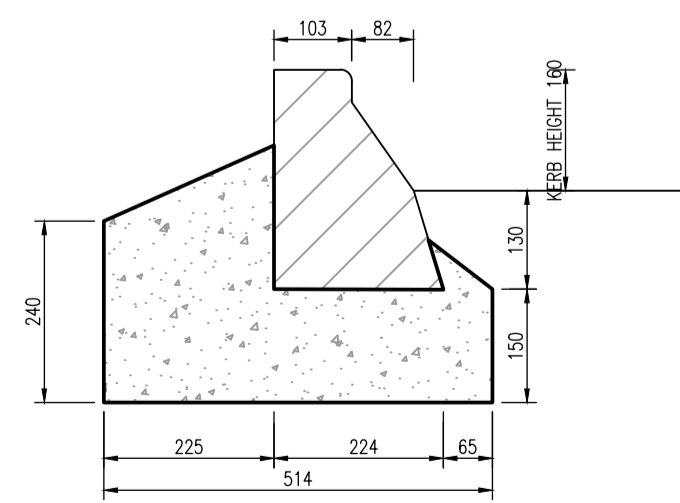


ROAD PAVEMENT TIE-IN CONSTRUCTION
NARROW WIDTHS
(SCALE 1:10)

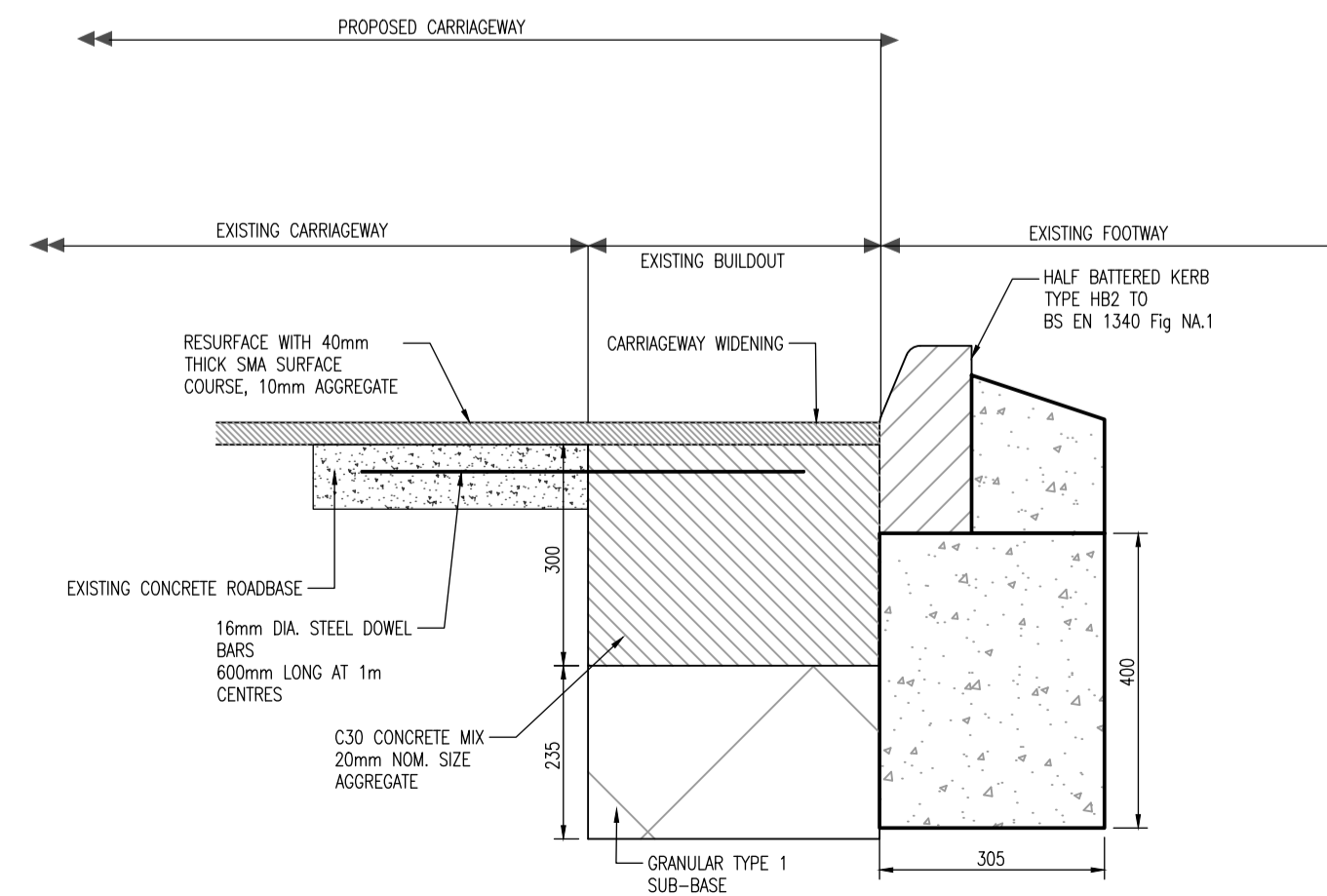


LONGITUDINAL CARRIAGEWAY JOINT
1:10 SCALE

VERTICAL FACES OF COLD BITUMINOUS MATERIALS TO BE PAINTED WITH HOT BITUMINOUS BINDER OF NOT LESS THAN 40/60 PEN. ALL HORIZONTAL OR INCLINED EXISTING SURFACES TO ACCEPT BITUMINOUS MATERIALS TO BE PREPARED WITH A BOND COAT IN ACCORDANCE WITH BS 594987



160MM ACCESS KERB BY CHARCON
STANDARD PROFILE WITHOUT MARKER BUMP
(SIDE VIEW)
1:10 SCALE



TYPICAL CROSS SECTION
1:10 SCALE

NOTES

- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELATED DOCUMENTATION AND DRAWINGS.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
- THE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DFT MCHW, DMRB AND MIDDLESBROUGH COUNCIL REQUIREMENTS.
- REFER TO THE KERBS, FOOTWAYS AND PAVED AREAS DRAWINGS FOR SITE SPECIFIC DETAILS OF KERBING AND SURFACING
- KERBS TO BE BUTT JOINTED. WHERE KERB ALIGNMENTS INCUR MINOR OPEN JOINT TAPERS IN EXCESS OF 5mm BETWEEN FORMED SURFACES, MORTAR JOINTING SHALL BE USED.
- FULL LENGTH PCC KERBS ARE TO BE MECHANICALLY HANDLED.
- ALL PRECAST KERBS, CHANNELS AND EDGINGS SHALL BE TO BS EN 1340 AND LAID TO BS 7533-6 AND ALL SETTS OF NATURAL STONE SHALL BE TO BS EN 1342 AND LAID TO BS 7533-7.
- ALL KERBS, CHANNELS AND EDGINGS BED & BACKING SHALL BE ST2 CONCRETE WELL COMPACTED. UNLESS OTHERWISE STATED, THIS SHALL BE A MINIMUM BED THICKNESS OF 150mm FOR KERBS AND CHANNELS, 100mm FOR EDGINGS.
- THE MINIMUM CUT OF ANY LENGTH OF KERB SHALL BE 450mm.
- THE CORRECT TRANSITION SHALL BE USED FOR ALL DROP KERBS AND UPSTAND VARIATION LOCATIONS.
- KERBS SHALL BE LAID ON BEDDING WHILST CONCRETE IS STILL "GREEN", WHERE THE BEDDING CONCRETE HAS CURED PRIOR TO INSTALLING THE FINISHED KERBING, 20mm NOMINAL THICKNESS CEMENT MORTAR BED DESIGNATION (f) SHALL BE USED. N.B. THE MINIMUM BEDDING THICKNESS OF 150mm SHALL BE MAINTAINED.

DO NOT SCALE

- TACTILE PAVING SHALL BE COLOURED RED AT CONTROLLED CROSSING POINTS AND BUFF AT UNCONTROLLED CROSSINGS.
- MORTAR FOR TACTILE PAVING BE AS PER THAT SPECIFIED FOR BLOCK PAVING. CHLORIDE ION CONTENT OF MORTAR SHALL BE IN ACCORDANCE WITH BS EN 1744-1 AND SHALL NOT EXCEED 0.3% MASS OF CEMENT (0.2% FOR SULPHATE RESISTANT CEMENT. CALCIUM CHLORIDE IS NOT ACCEPTABLE).
- NO FROST-SUSCEPTIBLE MATERIALS TO BE USED WITHIN 450mm OF THE FINISHED SURFACE UNLESS EXPRESSLY REQUIRED BY THE ENGINEER.
- WHERE THE TRIMMING OF BLOCKS IS NECESSARY, PORTIONS OF LESS THAN ONE THIRD OF AN ENTIRE BLOCK SHALL NOT BE LAID. INSTEAD THE PATTERN SHOULD BE ALTERED TO ENABLE LARGER PIECES OF BLOCK TO BE USED.
- IF THE DEPTH OF AN ACCESS COVER FRAME PROHIBITS BLOCKS FROM BEING LAID UP CLOSE TO THE FRAME IT SHOULD BE SURROUNDED IN CONCRETE GRADE ST2 UP TO FINISHED GROUND LEVEL.
- JOINTING MATERIAL SHALL BE 0.5mm DRIED FREE FLOWING SILICA TO BS 7533-3 TABLE D.4. JOINT FILLING SHALL TAKE PLACE IMMEDIATELY AFTER THE BLOCK PAVERS HAVE BEEN COMPACTED INTO THE LAYING COURSE, AND COMPLETED WITH A FINAL COMPACTION OF THE FINISHED SURFACE.
- ASPHALTIC CONCRETE MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT SECTION WITHIN BS EN 13108 PARTS 1-21, WITH ADDITIONAL GUIDANCE PROVIDED WITHIN PD 6691.
- INSTALLATION OF ASPHALTIC SURFACES TO BE IN ACCORDANCE WITH BS 594987.
- APPLICATION OF BOND COATS SHALL BE APPLIED IN COMPLIANCE WITH BS 594987 CL3.5 AND APPLIED AT A UNIFORM RATE OF SPREAD. TACK COATS SHALL NOT BE ACCEPTED, UNLESS AGREED IN ADVANCE WITH THE ENGINEER.
- COLD SURFACES OF ASPHALT AT TIE-INS TO BE CLEANED PRIOR TO APPLICATION OF BOND COAT TO ENSURE ADEQUATE COHESION OF NEW MATERIALS.
- IN THE AREAS OF NEW CARRIAGEWAY CONSTRUCTION, WHERE THE WIDTH OF CARRIAGEWAY IS LESS THAN 1.0M, CONCRETE FILL TYPE ST1 / ST2 OR OTHER SIMILAR SPECIFICATION AS APPROVED BY MIDDLESBROUGH COUNCIL TO BE USED AS A REPLACEMENT FOR TYPE 1 SUBBASE.
- CONFLICTING INFORMATION SHOWN ON THE ENGINEER'S DRAWINGS OR DISCREPANCIES BETWEEN THE INFORMATION GIVEN BY THE ENGINEER AND THAT PROVIDED BY OTHERS MUST BE REFERRED TO THE ENGINEER BEFORE THE WORKS COMMENCE.

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PO2	31/07/24	NR	ISSUED FOR CLIENT APPROVAL	JS	PWW
PO1	23/07/24	NR	ISSUE FOR COSTING	JS	PWW
DR	16/07/24	NR	DRAFT ISSUE	JS	PWW
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS:
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CLIENT:

SITE/PROJECT:
LINTHORPE ROAD RESTORATION

TITLE:
TYPICAL HIGHWAY DETAILS

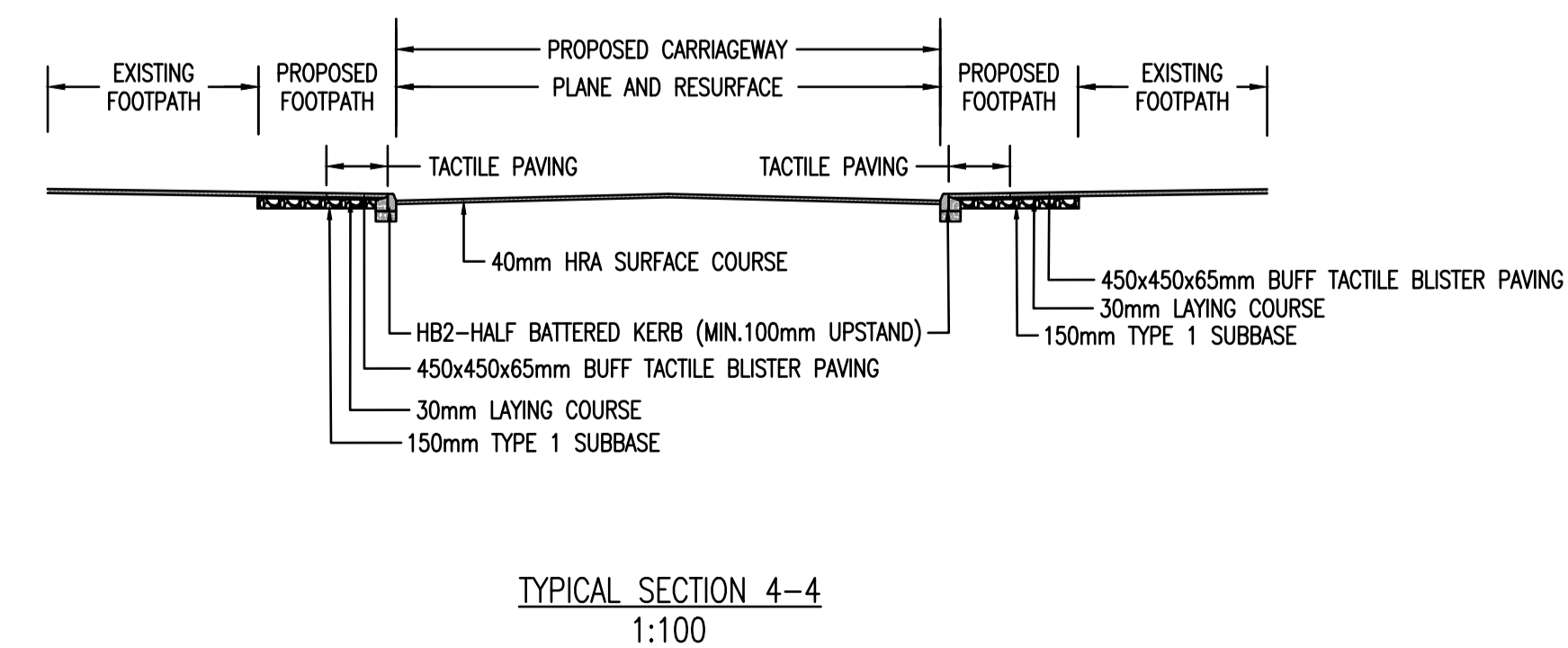
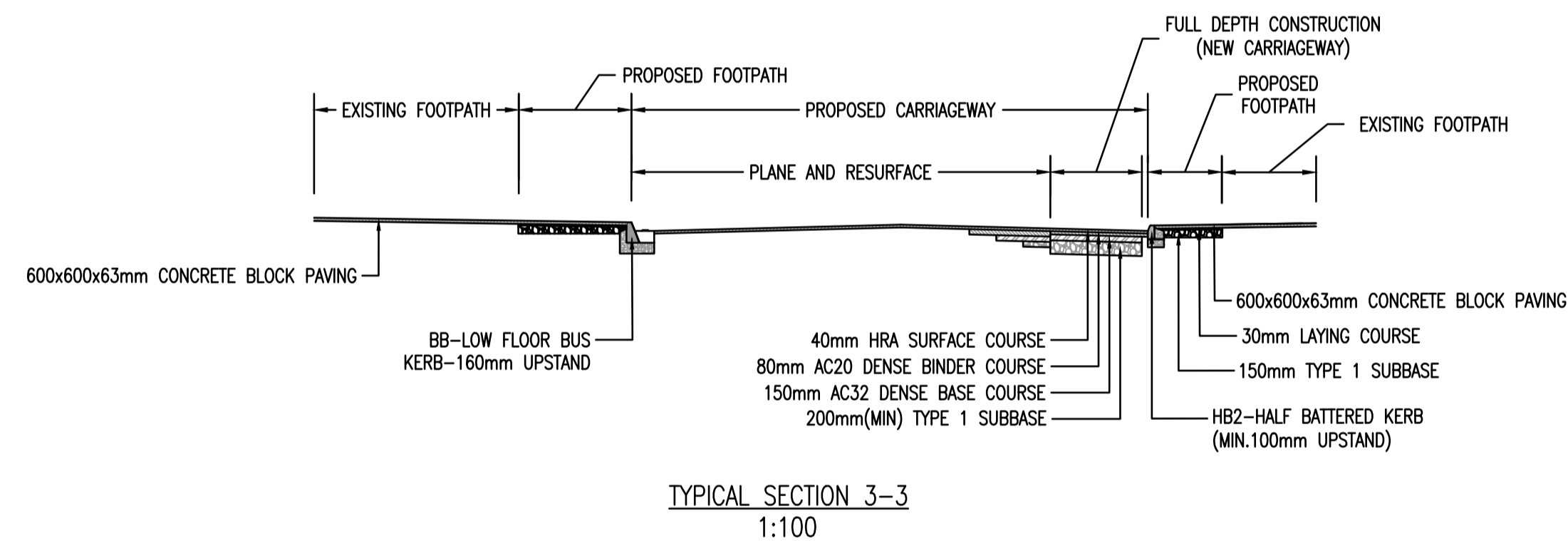
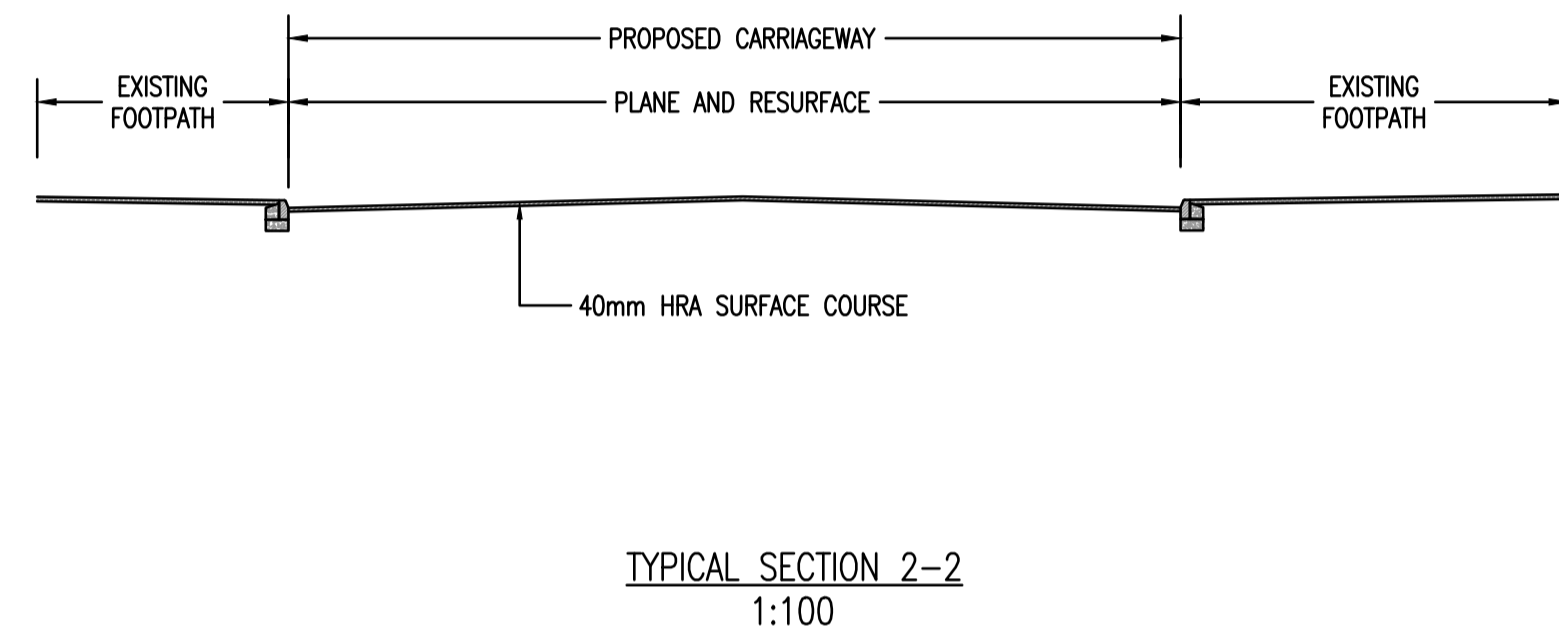
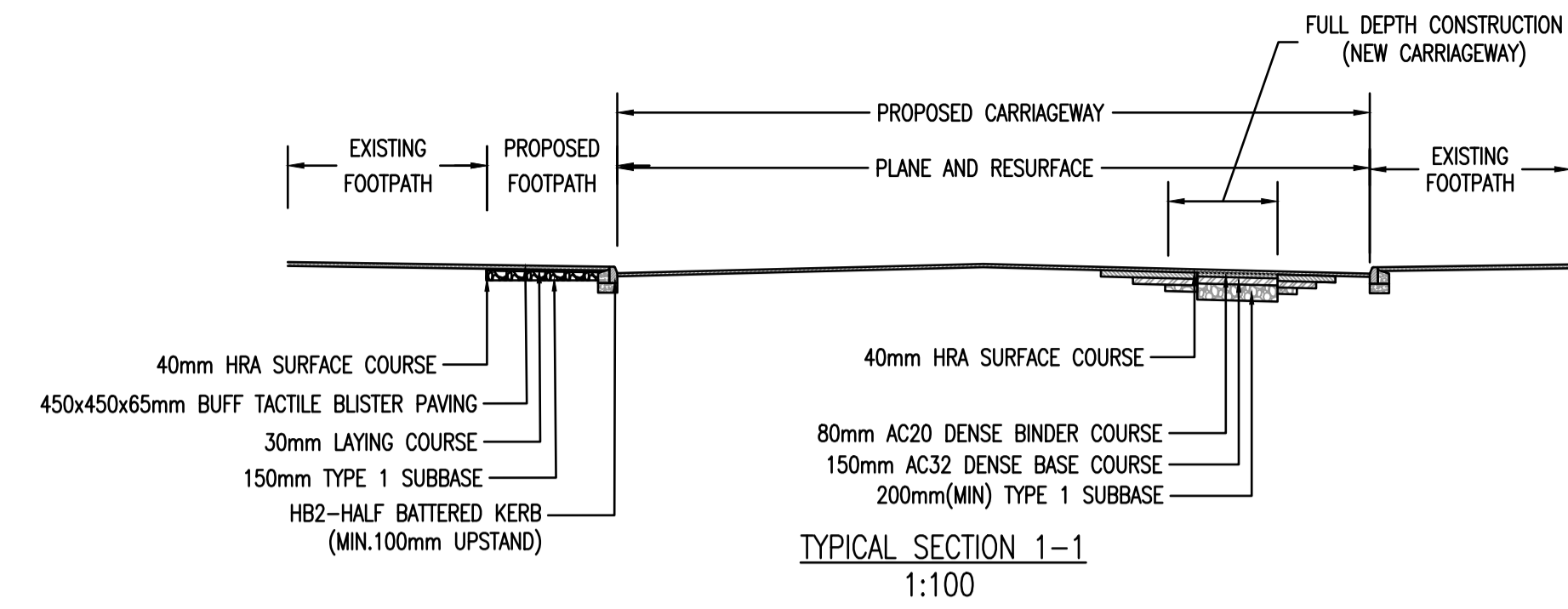
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PROJECT NO:	2024UK293315	DESIGNED:	NR	DRAWN:	NR
DRAWING NO:	288933-WSP-XX-XX-DR-C-1111	DATE:	JULY 2024	REV:	PO2

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NOTES

1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
2. FOR SECTION LOCATIONS, REFER DRAWING NO. 288933-WSP-XX-XX-DR-C-000101 - 000104.
3. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTATION DRAWINGS AND STANDARD DETAILS BUT WITH PARTICULAR REFERENCE TO THE FOLLOWING 288933-WSP-XX-XX-DR-C-1101.



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PO2	31/07/24	NR	ISSUED FOR CLIENT APPROVAL	JS	PWW
PO1	23/07/24	NR	ISSUE FOR COST ESTIMATE	JS	PWW
DR	10/07/24	NR	DRAFT ISSUE	JS	PWW
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: S2 - FOR INFORMATION

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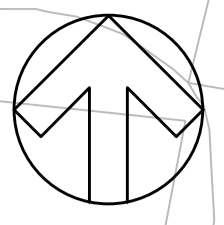
SITE/PROJECT: LINTHORPE ROAD RESTORATION

TITLE: TYPICAL HIGHWAY SECTIONS

SCALE @ A1: AS SHOWN	CHECKED: JS	APPROVED: PWW
PROJECT NO: 2024UK293315	DESIGNED: NR	DRAWN: NR
DRAWING NO: 288933-WSP-XX-XX-DR-C-1112	DATE: JULY 2024	REV: P02

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File name: C:\USERS\JIN\S276761\WSP\0367024\288933\TYPICAL SECTIONS\DWG\DOCUMENTS\DWG\MPCV\CIVIL\ENGINEERING\03\DRAWINGS\288933-WSP-XX-XX-DR-C-001112 - TYPICAL SECTIONS.DWG, printed on 31 July 2024 16:45:54, by Shanghai_Tup



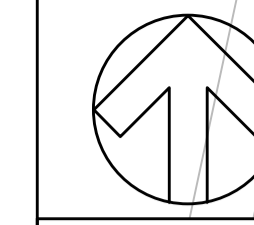
KEY

- HIGHWAY BOUNDARY (REFER TO NOTE 8)
- PROPOSED CARRIAGEWAY
- PROPOSED KERB
- PROPOSED TRAFFIC SIGN
- PROPOSED ILLUMINATED TRAFFIC SIGN
- PROPOSED WHITE LINE ROAD MARKING
- PROPOSED YELLOW LINE ROAD MARKING
- PROPOSED PARKING METER

TSRGD DIAGRAM NUMBER

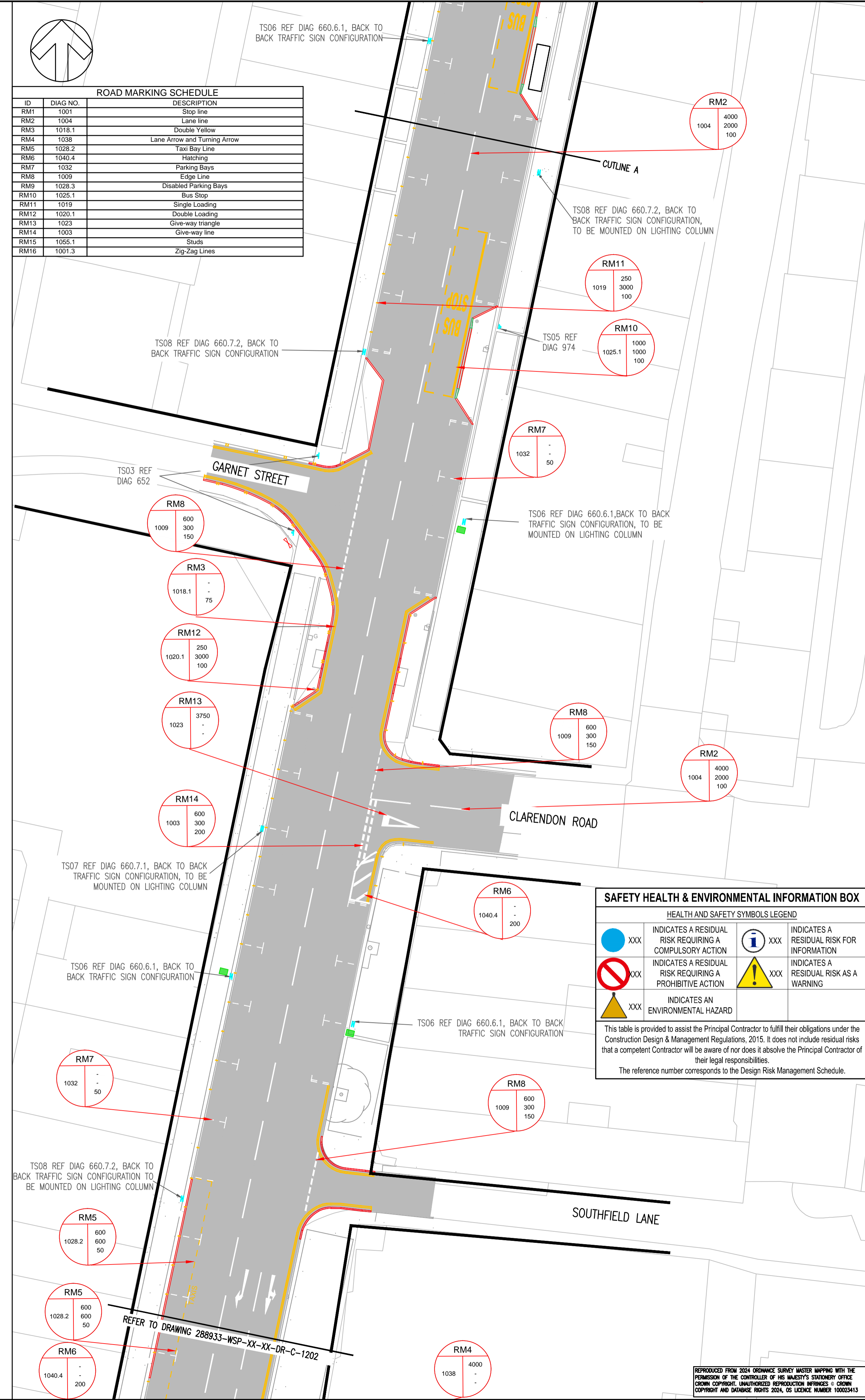
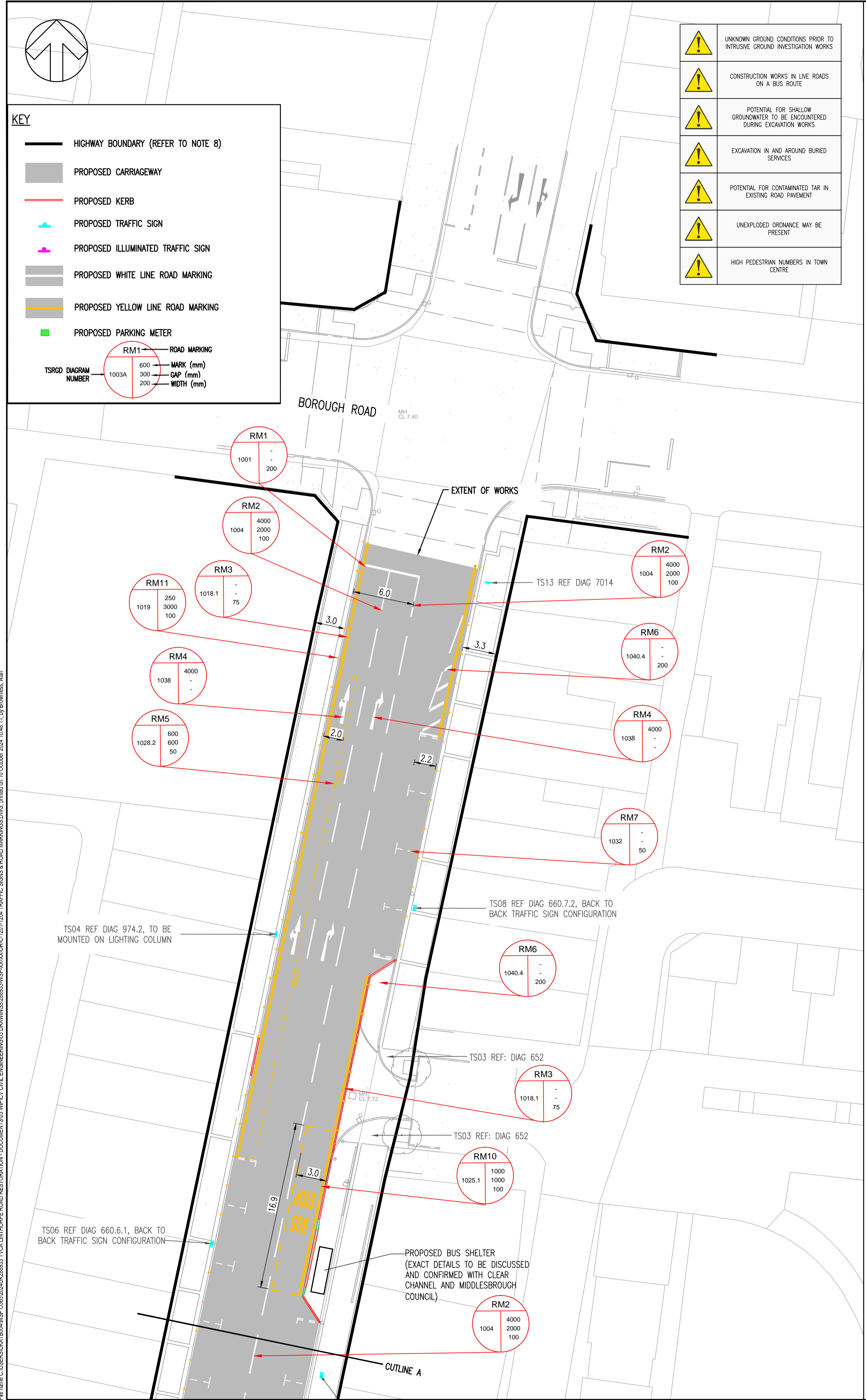
RM1	ROAD MARKING
600	MARK (mm)
300	GAP (mm)
200	WIDTH (mm)

	UNKNOWN GROUND CONDITIONS PRIOR TO INTRUSIVE GROUND INVESTIGATION WORKS
	CONSTRUCTION WORKS IN LIVE ROADS ON A BUS ROUTE
	POTENTIAL FOR SHALLOW GROUNDWATER TO BE ENCOUNTERED DURING EXCAVATION WORKS
	EXCAVATION IN AND AROUND BURIED SERVICES
	POTENTIAL FOR CONTAMINATED TAR IN EXISTING ROAD PAVEMENT
	UNEXPLODED ORDNANCE MAY BE PRESENT
	HIGH PEDESTRIAN NUMBERS IN TOWN CENTRE



ROAD MARKING SCHEDULE

ID	DIAG NO.	DESCRIPTION
RM1	1001	Stop Line
RM2	1004	Lane Line
RM3	1018.1	Double Yellow
RM4	1038	Lane Arrow and Turning Arrow
RM5	1028.2	Taxi Bay Line
RM6	1040.4	Hatching
RM7	1032	Parking Bays
RM8	1009	Edge Line
RM9	1028.3	Disabled Parking Bays
RM10	1025.1	Bus Stop
RM11	1019	Single Loading
RM12	1020.1	Double Loading
RM13	1023	Give-way triangle
RM14	1003	Shuts
RM15	1055.1	Give-way line
RM16	1001.3	Zig-Zag Lines



SAFETY HEALTH & ENVIRONMENTAL INFORMATION BOX

HEALTH AND SAFETY SYMBOLS LEGEND

	INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION		INDICATES A RESIDUAL RISK FOR INFORMATION
	INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION		INDICATES A RESIDUAL RISK AS A WARNING
	INDICATES AN ENVIRONMENTAL HAZARD		

This table is provided to assist the Principal Contractor to fulfill their obligations under the Construction Design & Management Regulations, 2015. It does not include residual risks that a competent Contractor will be aware of nor does it absolve the Principal Contractor of their legal responsibilities.

The reference number corresponds to the Design Risk Management Schedule.

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NOTES

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- INFORMATION REGARDING THE LOCATION AND DEPTH OF EXISTING SERVICES CANNOT BE GUARANTEED BY THE STATUTORY UNDERTAKER AND SHOULD BE INVESTIGATED. THE CONTRACTOR SHALL ESTABLISH THE PRECISE LINE AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO COMMENCING ANY EXCAVATION WORK.
- THE DESIGN IS BASED ON TOPOGRAPHICAL SURVEY REFERENCE ASS 2963 BY ADH SITE SURVEYS LIMITED RECEIVED FEBRUARY 2021.
- CONFLICTING INFORMATION SHOWN ON THE ENGINEER'S DRAWINGS OR DISCREPANCIES BETWEEN THE INFORMATION GIVEN BY THE ENGINEER AND THAT PROVIDED BY OTHERS MUST BE REFERRED TO THE ENGINEER BEFORE THE WORKS COMMENCE.
- ALL TRAFFIC SIGNS AND ROAD MARKINGS CONFORM TO TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS (TSRGD) 2016 AND THE TRAFFIC SIGNS MANUAL (TSM).
- ALL PROPOSED ROAD MARKINGS ARE TO TIE INTO EXISTING AT SCHEME EXTENTS.
- THE USE OF TRAFFIC SIGN DIAGRAM REF 7014 IS RESTRICTED TO A PERIOD OF 3 MONTHS AFTER THE COMPLETION OF THE WORKS AND A 'REMOVE BY' DATE MUST BE INCLUDED AT THE BACK OF THE SIGN CONFORMING TO TSRGD 2016.
- ALL POST SIZES ASSUME LEVEL GROUND CONDITIONS.
- SIGN LOCATIONS ARE SHOWN INDICATIVELY AND CAN BE ADJUSTED TO EASE BUILDABILITY / AVOID UNDERGROUND SERVICES
- THIS DRAWING IS BASED IN A WHOLE OR IN PART ON INFORMATION AND/OR DATA APPROVED BY A THIRD PARTY INCLUDING MIDDLESBROUGH COUNCIL AND AS SUCH IN CONTINGENT UPON THE ACCURACY AND COMPLETENESS OF THAT INFORMATION AND/OR DATA. WSP UK LIMITED SHALL NOT BE LIABLE IN RELATION TO ANY INACCURACY PRESENTED WITHIN THE DRAWING AND/OR IN RELATION TO ANY DISCREPANCY OR AMBIGUITY WITH ANY OTHER PROJECT DOCUMENTS SHOULD ANY DATA AND OR INFORMATION UPON WHICH RELIANCE HAS BEEN BASED BE INCORRECT OR OUT OF DATE OR HAVE BEEN CONCEALED, WITHHELD OR BE INCOMPLETE, MISREPRESENTED OR OTHERWISE NOT FULLY DISCLOSED TO WSP UK LIMITED.

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REV	DATE	BY	DESCRIPTION	CHK	APP
P04	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
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P01	23/07/24	NR	ISSUE FOR COSTING	JS	PWW
DR	12/07/24	NR	DRAFT ISSUE	JS	PWW

DRAWING STATUS:

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wsp.com

CLIENT:

TEES VALLEY

SITE/PROJECT:

LINTHORPE ROAD RESTORATION

TITLE:

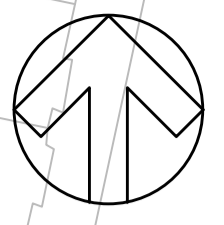
TRAFFIC SIGNS AND ROAD MARKINGS (SHEET 1 OF 4)

SCALE @ A1:	1:250	CHECKED:	JS	APPROVED:	PWW
PROJECT NO:	2024UK293315	DESIGNED:	NR	DATE:	JULY 2024
DRAWING NO:	288933-WSP-XX-XX-DR-C-1201	DRAWN:	NR	REV:	P04

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File name: C:\Users\WATBOW\OneDrive\Documents\288933\288933-WSP-XX-XX-DR-C-1201-1202\TRAFFIC SIGNS & ROAD MARKINGS.DWG, created on 10 October 2024 11:48:11, by: Brownless, Alan

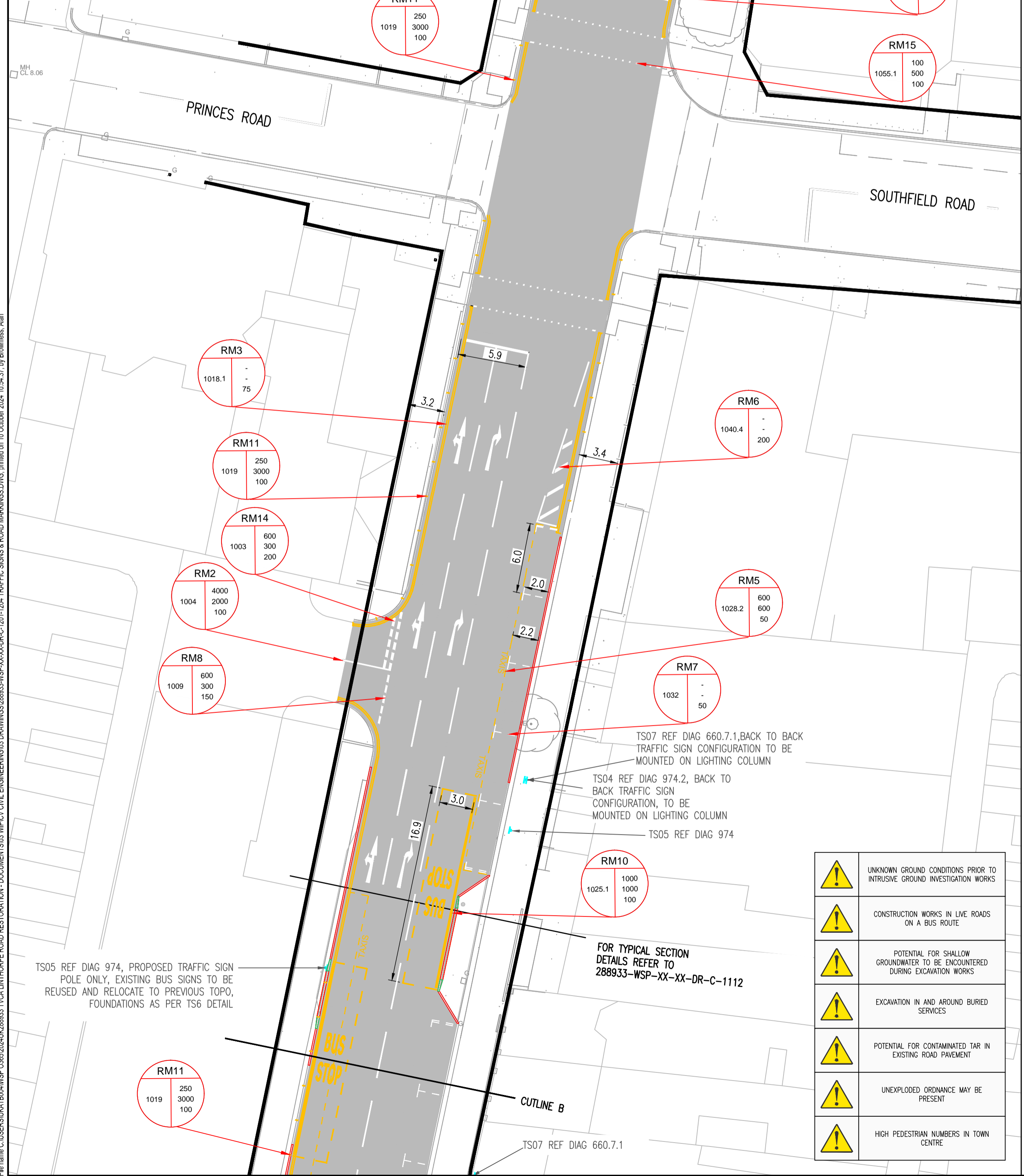
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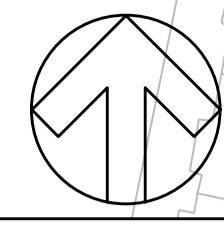
KEY

- HIGHWAY BOUNDARY (REFER TO NOTE 8)
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- PROPOSED ILLUMINATED TRAFFIC SIGN
- PROPOSED WHITE LINE ROAD MARKING
- PROPOSED YELLOW LINE ROAD MARKING
- PROPOSED PARKING METER

TSRGD DIAGRAM NUMBER	ROAD MARKING	MARK (mm)	GAP (mm)	WIDTH (mm)
1003A	RM1	600	300	200

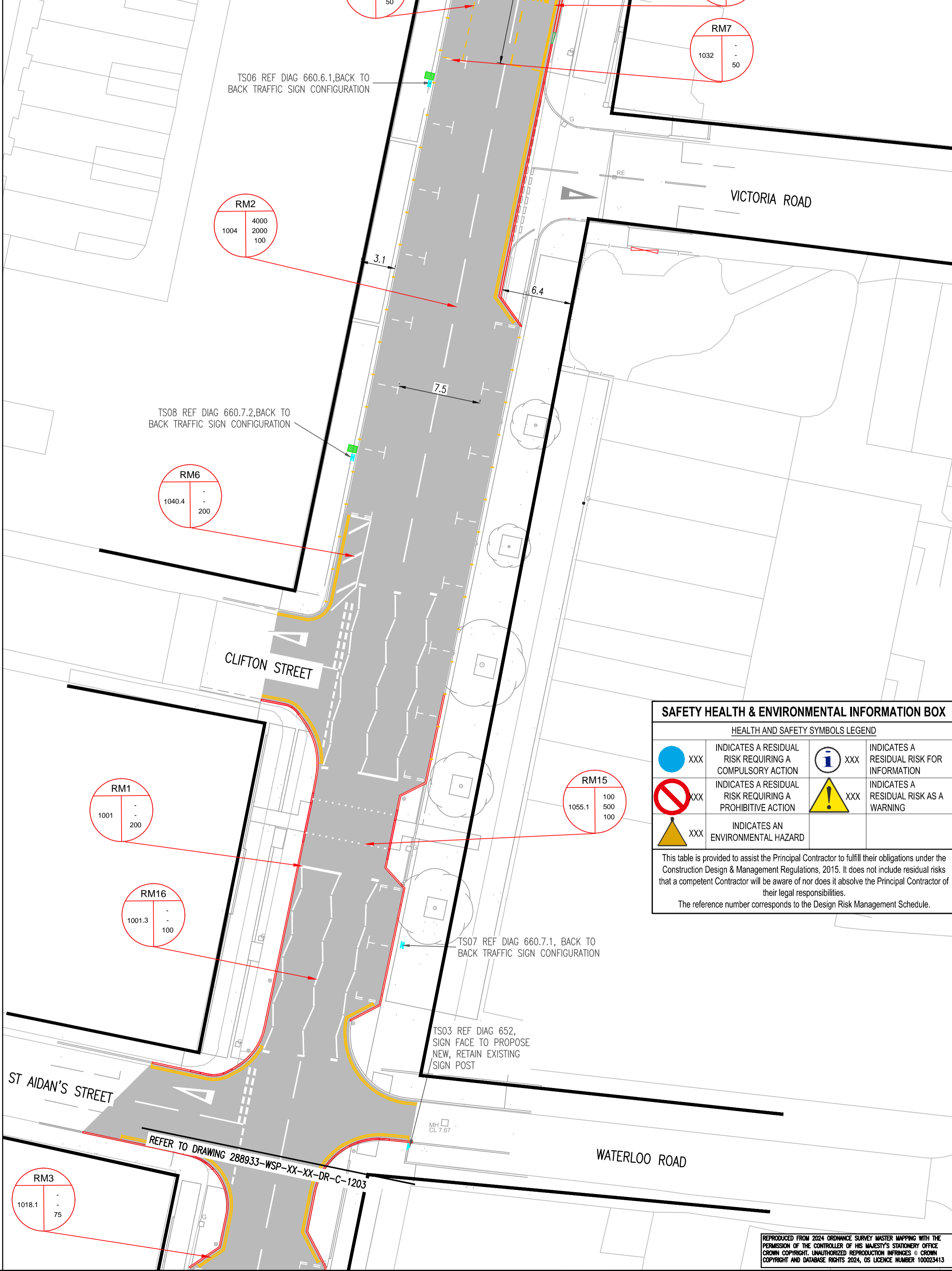


- UNKNOWN GROUND CONDITIONS PRIOR TO INTRUSIVE GROUND INVESTIGATION WORKS
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ROAD MARKING SCHEDULE

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RM7	1032	Parking Bays
RM8	1009	Edge Line
RM9	1028.3	Disabled Parking Bays
RM10	1025.1	Bus Stop
RM11	1019	Single Loading
RM12	1020.1	Double Loading
RM13	1023	Give-way triangle
RM14	1003	Give-way line
RM15	1055.1	Studs
RM16	1001.3	Zig-Zag Lines



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NOTES

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- INFORMATION REGARDING THE LOCATION AND DEPTH OF EXISTING SERVICES CANNOT BE GUARANTEED BY THE STATUTORY UNDERTAKER AND SHOULD BE INVESTIGATED. THE CONTRACTOR SHALL ESTABLISH THE PRECISE LINE AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO COMMENCING ANY EXCAVATION WORK.
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- ALL TRAFFIC SIGNS AND ROAD MARKINGS CONFORM TO TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS (TSRGD) 2016 AND THE TRAFFIC SIGNS MANUAL (TSM).
- ALL PROPOSED ROAD MARKINGS ARE TO TIE INTO EXISTING AT SCHEME EXTENTS.
- THE USE OF TRAFFIC SIGN DIAGRAM REF 7014 IS RESTRICTED TO A PERIOD OF 3 MONTHS AFTER THE COMPLETION OF THE WORKS AND A 'REMOVE BY' DATE MUST BE INCLUDED AT THE BACK OF THE SIGN CONFORMING TO TSRGD 2016.
- ALL POST SIZES ASSUME LEVEL GROUND CONDITIONS.
- SIGN LOCATIONS ARE SHOWN INDICATIVELY AND CAN BE ADJUSTED TO EASE BUILDABILITY / AVOID UNDERGROUND SERVICES
- THIS DRAWING IS BASED IN A WHOLE OR IN PART ON INFORMATION AND/OR DATA APPROVED BY A THIRD PARTY INCLUDING MIDDLESBROUGH COUNCIL AND AS SUCH IN CONTINGENT UPON THE ACCURACY AND COMPLETENESS OF THAT INFORMATION AND/OR DATA. WSP UK LIMITED SHALL NOT BE LIABLE IN RELATION TO ANY INACCURACY PRESENTED WITHIN THE DRAWING AND/OR IN RELATION TO ANY DISCREPANCY OR AMBIGUITY WITH ANY OTHER PROJECT DOCUMENTS SHOULD ANY DATA AND OR INFORMATION UPON WHICH RELIANCE HAS BEEN BASED BE INCORRECT OR OUT OF DATE OR HAVE BEEN CONCEALED, WITHHELD OR BE INCOMPLETE, MISREPRESENTED OR OTHERWISE NOT FULLY DISCLOSED TO WSP UK LIMITED.

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REV	DATE	BY	DESCRIPTION	CHK	APP
P04	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
P03	03/09/24	NR	UPDATED FOLLOWING CLIENT REVIEW	JS	PWW
P02	31/07/24	NR	ISSUED FOR CLIENT APPROVAL	JS	PWW
P01	23/07/24	NR	ISSUE FOR COSTING	JS	PWW
DR	12/07/24	NR	DRAFT ISSUE	JS	PWW

DRAWING STATUS:

S2 - FOR INFORMATION

wsp

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ, UK
T+ 44 (0) 191 226 2000, F+ 44 (0) 191 226 2104
wsp.com

CLIENT:

TEES VALLEY

SITE PROJECT:

LINTHORPE ROAD RESTORATION

TITLE:

TRAFFIC SIGNS AND ROAD MARKINGS (SHEET 2 OF 4)

SCALE @ AT:	CHECKED:	APPROVED:
1:250	JS	PWW

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
2024UK293315	NR	NR	JULY 2024

DRAWING NO:	REV:
288933-WSP-XX-XX-DR-C-1202	P04

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File name: C:\USERS\WATBOW\NSP_0360\2024\288933\TVALINTHORPEROADRESTORATION_DOCUMENTS\0360\WPC\0360\CIVIL\ENGINEERING\0360\TRAFFIC SIGNS & ROAD MARKINGS.DWG, printed on 10 October 2024 10:54:42, by: Brownless, Alan

DO NOT SCALE

NOTES

- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTATION DRAWINGS AND STANDARD DETAILS BUT WITH PARTICULAR REFERENCE TO THE FOLLOWING - 288933-WSP-XX-XX-DR-C-1211-1212
- ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
- THE ORIGINAL OF THIS DRAWING WAS PRODUCED IN COLOUR - A MONOCHROME COPY CANNOT BE RELIED ON.
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- THE DESIGN IS BASED ON TOPOGRAPHICAL SURVEY REFERENCE ASS 2963 BY ADH SITE SURVEYS LIMITED RECEIVED FEBRUARY 2021.
- CONFLICTING INFORMATION SHOWN ON THE ENGINEER'S DRAWINGS OR DISCREPANCIES BETWEEN THE INFORMATION GIVEN BY THE ENGINEER AND THAT PROVIDED BY OTHERS MUST BE REFERRED TO THE ENGINEER BEFORE THE WORKS COMMENCE.
- ALL TRAFFIC SIGNS AND ROAD MARKINGS REFERENCES CONFORM TO TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS (TSRGD) 2016 AND THE TRAFFIC SIGNS MANUAL (TSM).
- ALL PROPOSED ROAD MARKINGS ARE TO TIE INTO EXISTING AT SCHEME EXTENTS.
- THE USE OF TRAFFIC SIGN DIAGRAM REF 7014 IS RESTRICTED TO A PERIOD OF 3 MONTHS AFTER THE COMPLETION OF THE WORKS AND A 'REMOVE BY' DATE MUST BE INCLUDED AT THE BACK OF THE SIGN CONFORMING TO TSRGD 2016.
- ALL POST SIZES ASSUME LEVEL GROUND CONDITIONS.
- SIGN LOCATIONS ARE SHOWN INDICATIVELY AND CAN BE ADJUSTED TO EASE BUILDABILITY / AVOID UNDERGROUND SERVICES
- THIS DRAWING IS BASED IN A WHOLE OR IN PART ON INFORMATION AND/OR DATA APPROVED BY A THIRD PARTY INCLUDING MIDDLESBROUGH COUNCIL AND AS SUCH IN CONTINGENT UPON THE ACCURACY AND COMPLETENESS OF THAT INFORMATION AND/OR DATA. WSP UK LIMITED SHALL NOT BE LIABLE IN RELATION TO ANY INACCURACY PRESENTED WITHIN THE DRAWING AND/OR IN RELATION TO ANY DISCREPANCY SHOULD ANY DATA AND OR INFORMATION UPON WHICH RELIANCE HAS BEEN BASED BE INCORRECT OR OUT OF DATE OR HAVE BEEN CONCEALED, WITHHELD OR BE INCOMPLETE, MISREPRESENTED OR OTHERWISE NOT FULLY DISCLOSED TO WSP UK LIMITED.

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P04	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
P03	03/09/24	NR	UPDATED FOLLOWING CLIENT REVIEW	JS	PWW
P02	31/07/24	NR	ISSUED FOR CLIENT APPROVAL	JS	PWW
P01	23/07/24	NR	ISSUE FOR COSTING	JS	PWW
DR	12/07/24	NR	DRAFT ISSUE	JS	PWW
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: S2 - FOR INFORMATION



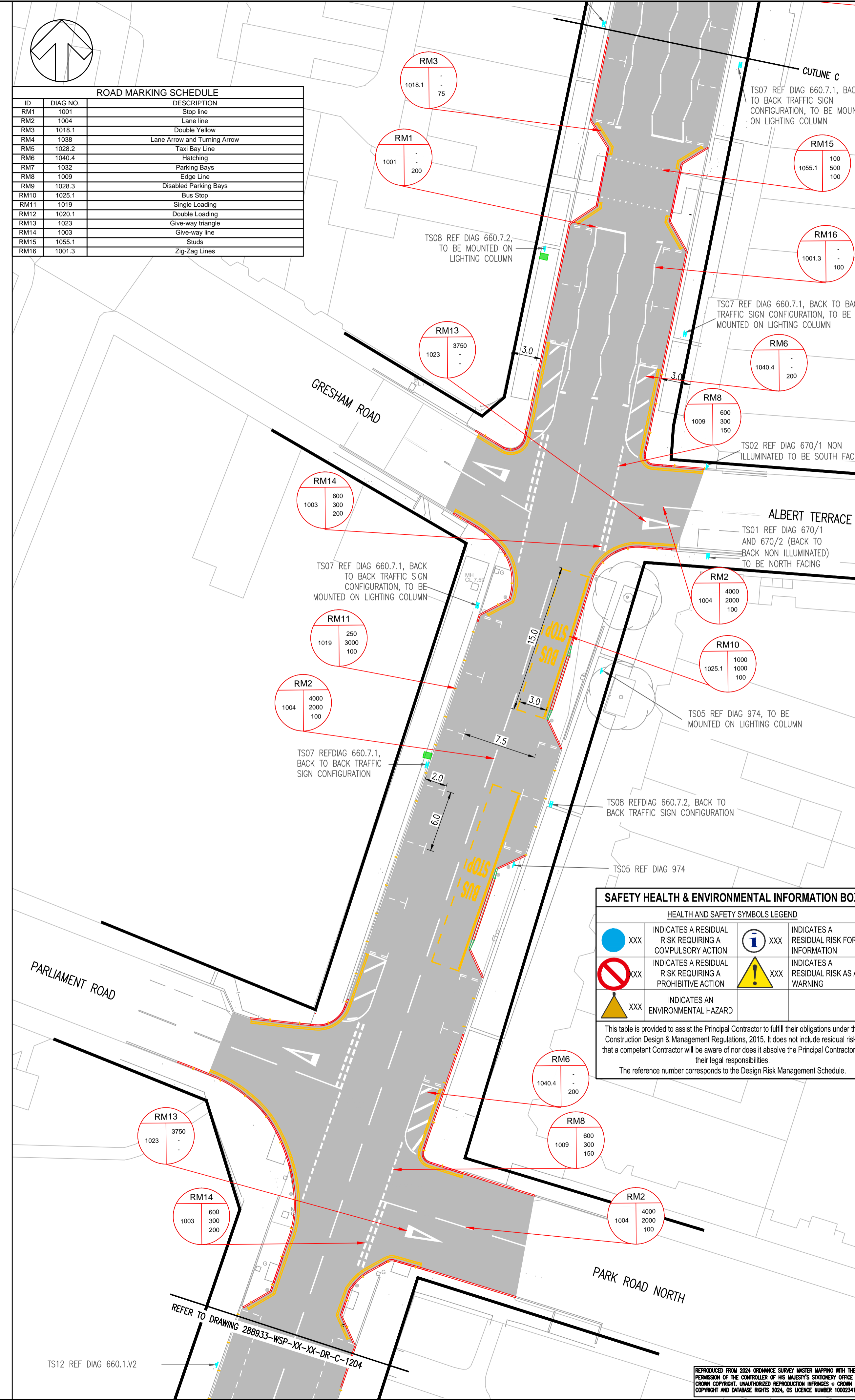
Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ, UK
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SITE PROJECT: LINTHORPE ROAD RESTORATION

TITLE: TRAFFIC SIGNS AND ROAD MARKINGS (SHEET 3 OF 4)

SCALE @ A1:	1:250	CHECKED:	JS	APPROVED:	PWW
PROJECT NO:	2024UK293315	DESIGNED:	NR	DATE:	JULY 2024
DRAWING NO:	288933-WSP-XX-XX-DR-C-1203	REV:			P04
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ID	DIAG NO.	DESCRIPTION
RM1	1001	Stop line
RM2	1004	Lane line
RM3	1018.1	Double Yellow
RM4	1038	Lane Arrow and Turning Arrow
RM5	1028.2	Taxi Bay Line
RM6	1040.4	Hatching
RM7	1032	Parking Bays
RM8	1009	Edge Line
RM9	1028.3	Disabled Parking Bays
RM10	1025.1	Bus Stop
RM11	1019	Single Loading
RM12	1020.1	Double Loading
RM13	1023	Give-way line
RM14	1003	Give-way line
RM15	1055.1	Studs
RM16	1001.3	Zig-Zag Lines

SAFETY HEALTH & ENVIRONMENTAL INFORMATION BOX

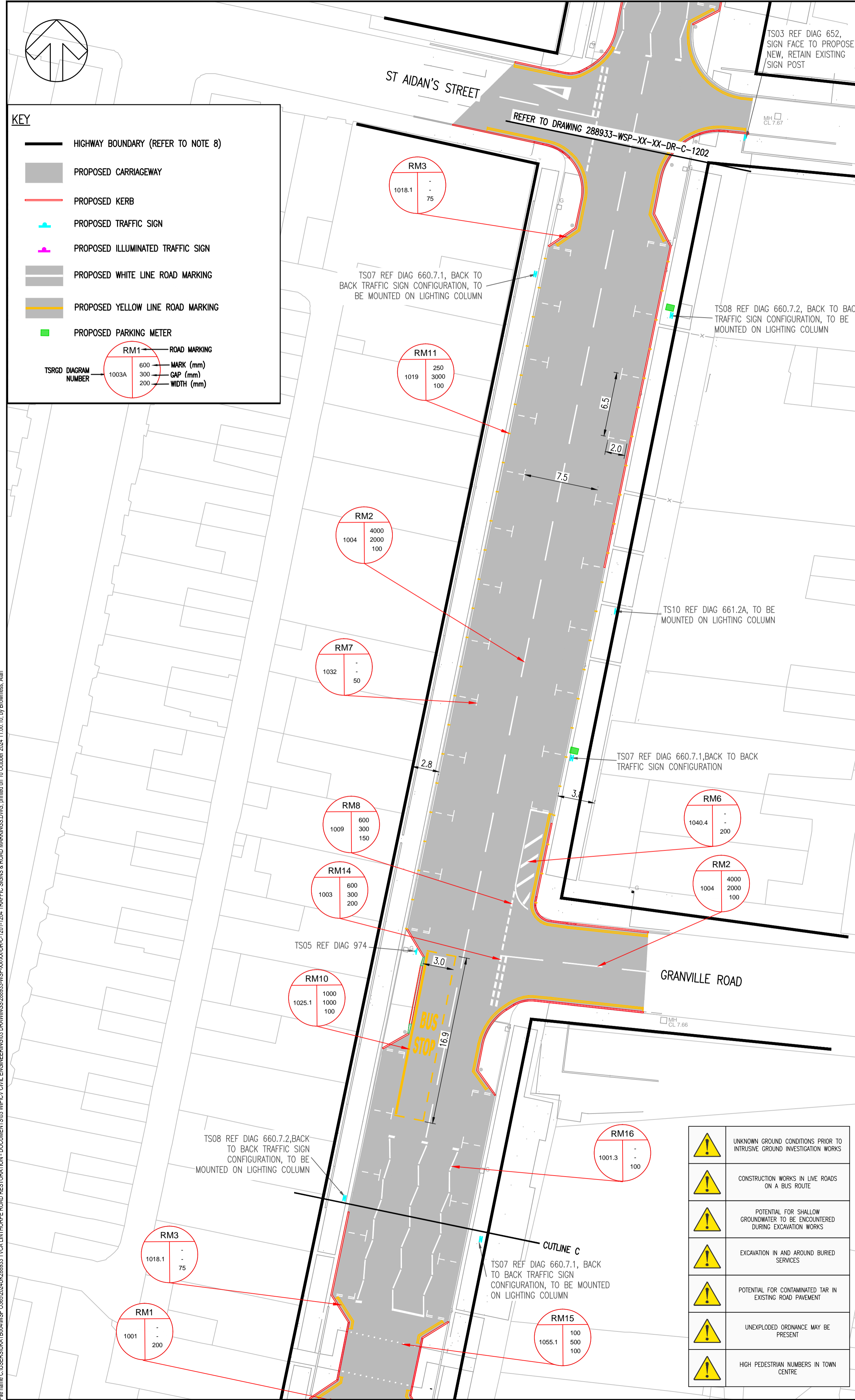
HEALTH AND SAFETY SYMBOLS LEGEND

	INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION		INDICATES A RESIDUAL RISK FOR INFORMATION
	INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION		INDICATES A RESIDUAL RISK AS A WARNING
	INDICATES AN ENVIRONMENTAL HAZARD		

This table is provided to assist the Principal Contractor to fulfill their obligations under the Construction Design & Management Regulations, 2015. It does not include residual risks that a competent Contractor will be aware of nor does it absolve the Principal Contractor of their legal responsibilities.

The reference number corresponds to the Design Risk Management Schedule.

	UNKNOWN GROUND CONDITIONS PRIOR TO INTRUSIVE GROUND INVESTIGATION WORKS
	CONSTRUCTION WORKS IN LIVE ROADS ON A BUS ROUTE
	POTENTIAL FOR SHALLOW GROUNDWATER TO BE ENCOUNTERED DURING EXCAVATION WORKS
	EXCAVATION IN AND AROUND BURIED SERVICES
	POTENTIAL FOR CONTAMINATED TAR IN EXISTING ROAD PAVEMENT
	UNEXPLODED ORDNANCE MAY BE PRESENT
	HIGH PEDESTRIAN NUMBERS IN TOWN CENTRE



KEY

- HIGHWAY BOUNDARY (REFER TO NOTE 8)
- PROPOSED CARRIAGEWAY
- PROPOSED KERB
- PROPOSED TRAFFIC SIGN
- PROPOSED ILLUMINATED TRAFFIC SIGN
- PROPOSED WHITE LINE ROAD MARKING
- PROPOSED YELLOW LINE ROAD MARKING
- PROPOSED PARKING METER

TSRGD DIAGRAM NUMBER

1003A	ROAD MARKING
600	MARK (mm)
300	GAP (mm)
200	WIDTH (mm)

File name: C:\USERS\WATSON\SP_03602024\288933\TVC\LINTHORPE ROAD RESTORATION - DOCUMENTS\03_MPC\01_ENGINEERING\03_DRAWINGS\03_TRAFFIC SIGNS & ROAD MARKINGS\03_2024-10-01\288933-WSP-XX-XX-DR-C-1203.dwg, created on 10 October 2024 11:00:01, by Brownless, Alan

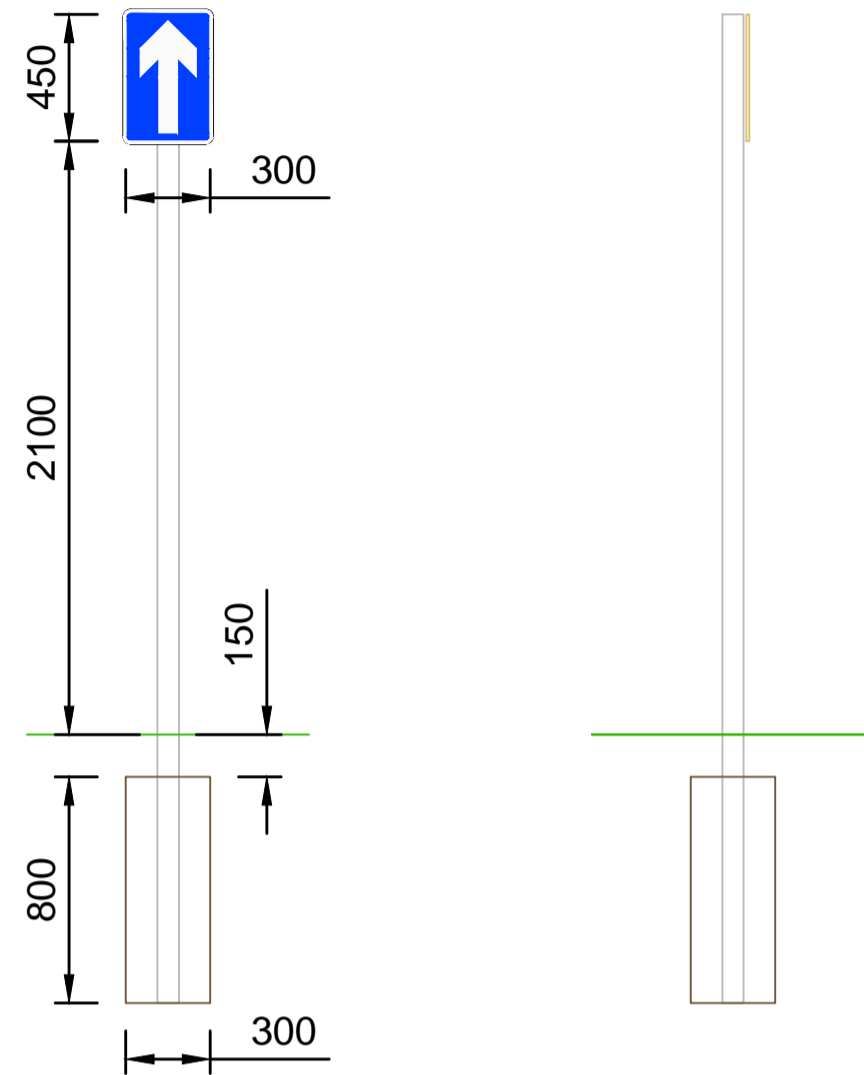
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DO NOT SCALE

NOTES

- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
- ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM.
- WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT B.S, MIDDLESBROUGH COUNCIL HIGHWAY DESIGN GUIDE AND DEPARTMENT OF TRANSPORTS 'SPECIFICATION FOR HIGHWAY WORKS', PUBLISHED BY HMSO. ALL SPECIFICATION CLAUSES REFER TO THIS DOCUMENT UNLESS OTHERWISE STATED.
- ALL SETTING OUT IS TO BE AGREED WITH THE ENGINEER PRIOR TO THE COMMENCEMENT OF THE WORKS. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, SCHEDULES AND SPECIFICATIONS.
- CONFLICTING INFORMATION SHOWN ON THE ENGINEER'S DRAWINGS OR DISCREPANCIES BETWEEN THE INFORMATION GIVEN BY THE ENGINEER AND THAT PROVIDED BY OTHERS MUST BE REFERRED TO THE ENGINEER BEFORE THE WORKS COMMENCE.
- TRAFFIC SIGNS & ROAD MARKING REFERENCES CONFORMS TO TSRGD 2016.
- SIGN POSITIONING AND SIZES ARE NOT TO SCALE, EXACT LOCATION AND ORIENTATION OF SIGNS TO BE CONFIRMED WITH ENGINEERS REPRESENTATIVE PRIOR TO ERECTION ON SITE.
- POST FOUNDATIONS SUBJECT TO FINAL DESIGN BY CONTRACTOR TO AVOID BURIED SERVICES.
- SIGNAGE LOCATED WITHIN FOOTWAYS TO HAVE A MOUNTING HEIGHT OF 2.3m;
- ALL ILLUMINATED SIGNS TO BE MOUNTED ON GALVANISED WIDE BASED POSTS WITH G1 FINISH KCC COASTAL SPECIFICATION AS MANUFACTURED BY STANTON FABRIKAT.
- ALL SIGN LIGHTING UNITS TO BE LED LUA RANGE (TO INCLUDE PHOTOCCELL): 3W FOR SMALL PLATES (600MM AND UNDER), 8W FOR LARGE PLATES (OVER 600MM) AS MANUFACTURED BY SIMMONSIGNS.
- ALL ILLUMINATED AND NON-ILLUMINATED SIGN FACES TO BE CLASS 2 REFLECTIVE.
- NON-ILLUMINATED TRAFFIC BOLLARDS TO BE METRO PLUS ANTI-TWIST (REFLEX BOLLARD) AS MANUFACTURED BY TMP.

Signing Project	Signing Project	Width (mm)	Height (mm)	Area (sq.m)	Background	Border	Legend
Sign Reference	TS03	300	450	0.14	Blue	White	White
x Height							
Material	Class RA2						



TS03 - 652

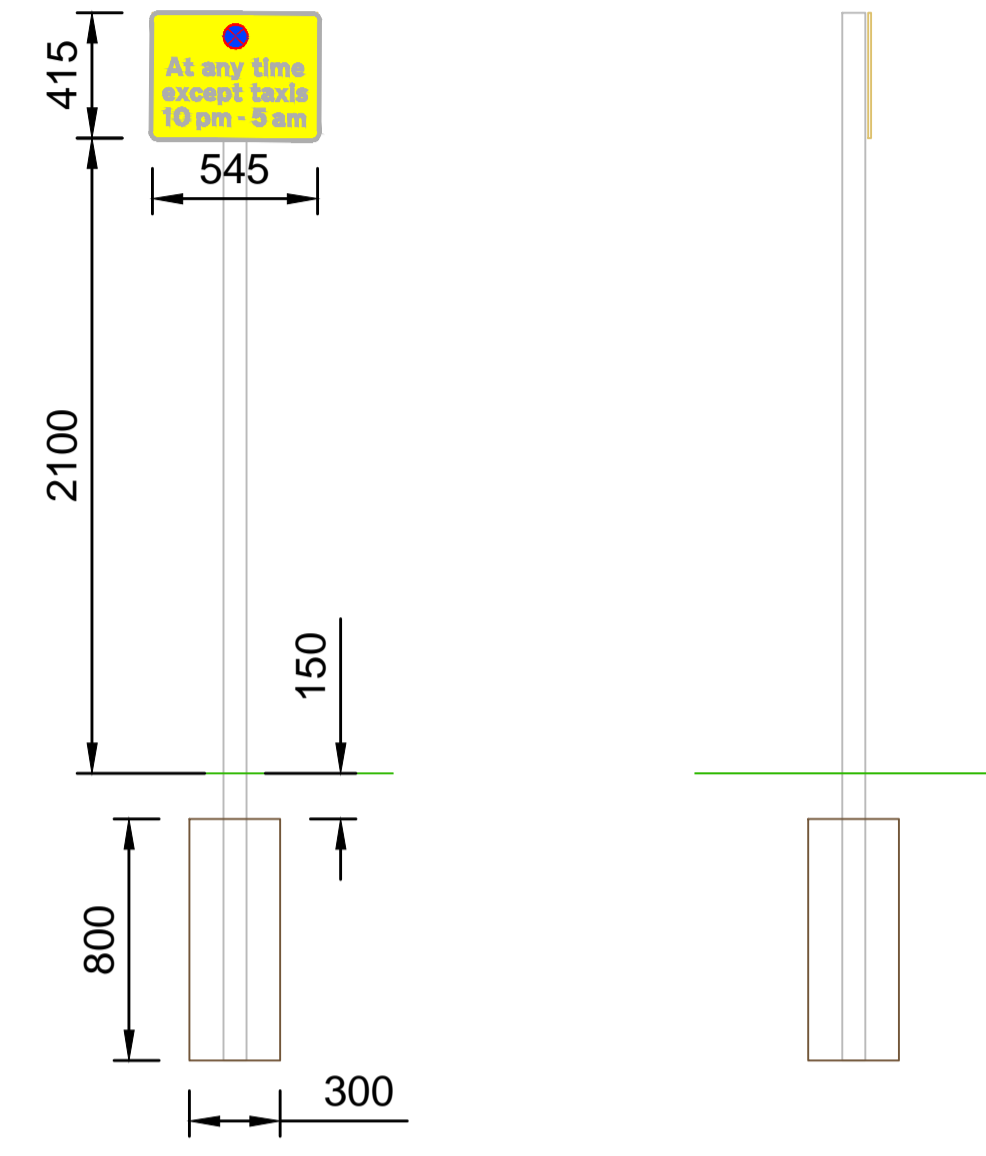
Structural Calculation Details

Signs:
Reference: TS03
Width: 300mm, Height: 450mm
Shape: Rectangle
Orientation: Facing front
Mounted on posts: 1
Mounting height: 2100mm, at post

Posts:
Quantity: 1
Type: 76.1 x 3.2 CHS (S355)
Spacing: N/A
Post 1 Length: 3500mm

Base:
Type: Planted
Diameter: 300mm
Depth: 800mm
Volume: 0.08cu.m
Earth cover: 150mm

Signing Project	Signing Project	Width (mm)	Height (mm)	Area (sq.m)	Background	Border	Legend
Sign Reference	TS04	545	415	0.23	Yellow	Black	Black
x Height							
Material	Class RA2						



TS04 - 974.2

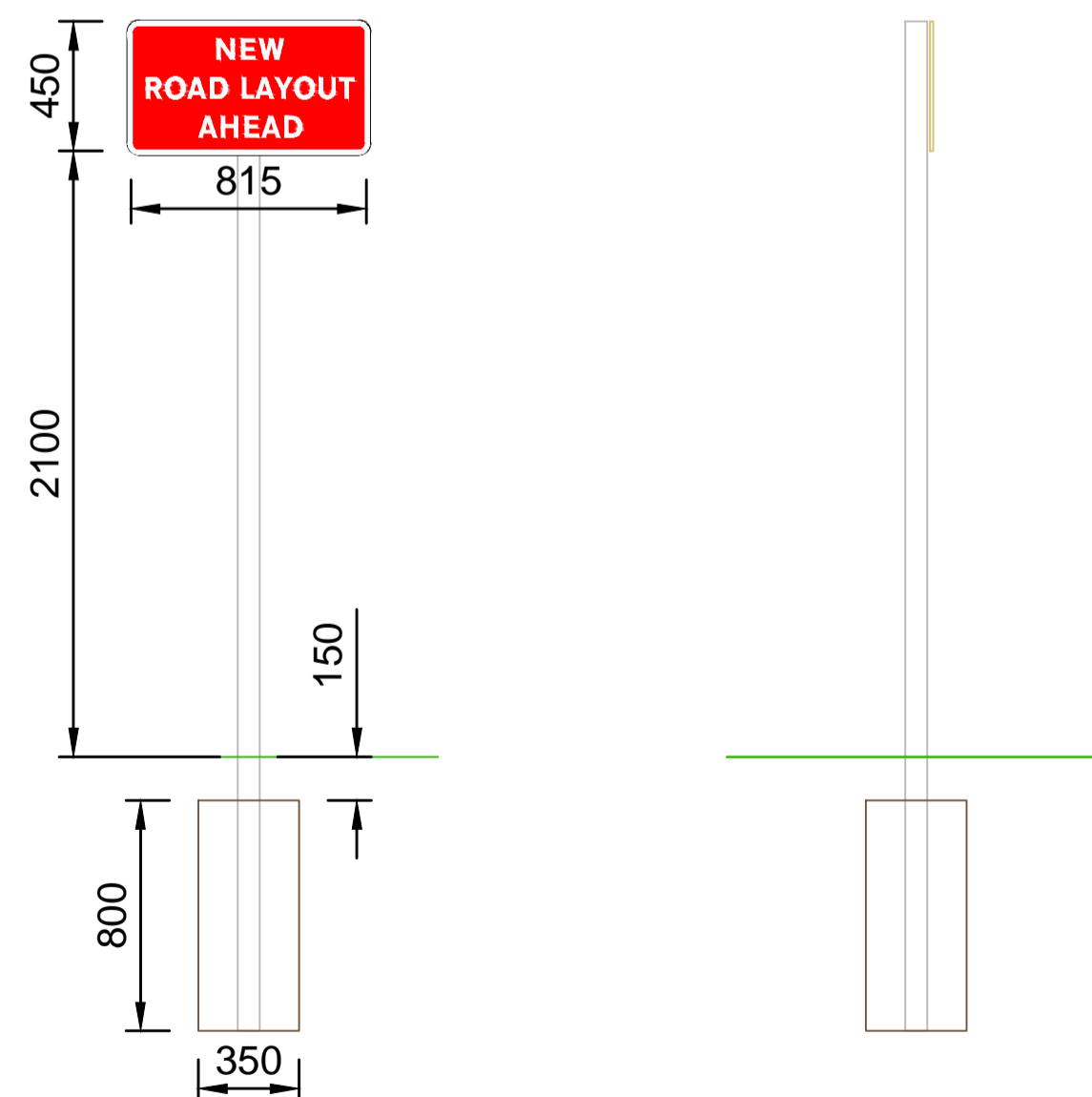
Structural Calculation Details

Signs:
Reference: TS04
Width: 545mm, Height: 415mm
Shape: Rectangle
Orientation: Facing front
Mounted on posts: 1
Mounting height: 2100mm, at post

Posts:
Quantity: 1
Type: 76.1 x 3.2 CHS (S355)
Spacing: N/A
Post 1 Length: 3465mm

Base:
Type: Planted
Diameter: 300mm
Depth: 800mm
Volume: 0.08cu.m
Earth cover: 150mm

Signing Project	Signing Project	Width (mm)	Height (mm)	Area (sq.m)	Background	Border	Legend
Sign Reference	TS13	815	450	0.37	Red	White	White
x Height	50.0						
Material	Class RA2						



TS13 - 7014

Structural Calculation Details

Signs:
Reference: TS13
Width: 815mm, Height: 450mm
Shape: Rectangle
Orientation: Facing front
Mounted on posts: 1
Mounting height: 2100mm, at post

Posts:
Quantity: 1
Type: 76.1 x 3.2 CHS (S355)
Spacing: N/A
Post 1 Length: 3500mm

Base:
Type: Planted
Diameter: 350mm
Depth: 800mm
Volume: 0.08cu.m
Earth cover: 150mm

SIGN SCHEDULE

Sign Reference	TSRGD NO.	x Height	Width (mm)	Height (mm)	Area (m ²)	Mounting height	Post quantity	Post type	Post 1 length	Base type	Base depth	Base volume	Earth cover	Illumination
TS02	670/1	100	600	600	0.28	2100mm, at post	1	76.1 x 3.2 CHS (S355)	3770	Planted	800	0.06	150	Yes
TS04	974.2	40.0	545	415	0.23	2100mm, at post	1	76.1 x 3.2 CHS (S355)	3465	Planted	800	0.06	150	No
TS05	974.2	40.0	590	465	0.27	2100mm, at post	1	76.1 x 3.2 CHS (S355)	3515	Planted	800	0.06	150	No
TS06	660.6.1	15.0	280	455	0.13	2100mm, at post	1	76.1 x 3.2 CHS (S355)	3505	Planted	800	0.06	150	No
TS07	660.7.1	15.0	280	505	0.14	2100mm, at post	1	76.1 x 3.2 CHS (S355)	3555	Planted	800	0.06	150	No
TS08	660.7.2	15.0	280	505	0.14	2100mm, at post	1	76.1 x 3.2 CHS (S355)	3555	Planted	800	0.06	150	No
TS09	660.7.3	15.0	280	505	0.14	2100mm, at post	1	76.1 x 3.2 CHS (S355)	3555	Planted	800	0.06	150	No
TS10	661.2A	15.0	235	165	0.04	2100mm, at post	1	76.1 x 3.2 CHS (S355)	3215	Planted	800	0.06	150	No
TS11	660.1.V1	15.0	270	195	0.05	2100mm, at post	1	76.1 x 3.2 CHS (S355)	3245	Planted	800	0.06	150	No
TS12	660.1.V2	15.0	270	235	0.06	2100mm, at post	1	76.1 x 3.2 CHS (S355)	3285	Planted	800	0.06	150	No
TS13	7014	50.0	815	450	0.37	2100mm, at post	1	76.1 x 3.2 CHS (S355)	3500	Planted	800	0.08	150	No

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	10/10/24	AB	UPDATED FOLLOWING CLIENT REQUIREMENTS	JS	PWW
P02	31/07/24	NR	ISSUED FOR CLIENT APPROVAL	JS	PWW
P01	23/07/24	NR	ISSUE FOR COST ESTIMATE	JS	PWW
DR	15/07/24	NR	DRAFT ISSUE	JS	PWW

DRAWING STATUS: S2 - FOR INFORMATION

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ, UK
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wsp.com

SITE PROJECT: LINTHORPE ROAD RESTORATION

TITLE: TRAFFIC SIGN DETAILS (SHEET 1 OF 3)

SCALE @ A1:	CHECKED:	APPROVED:
NTS	JS	PWW

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
2024UK293315	NR	NR	JULY 2024

DRAWING NO:	REV:
288933-WSP-XX-XX-DR-C-1211	P03

File name: C:\USERS\NAT1800\WSP_03602024\288933\TVC\LINTHORPE ROAD RESTORATION - DOCUMENTS\00\WSP\01\CIVIL\ENGINEERING\03\DRAWINGS\S2\TRAFFIC SIGNS DETAILS\DWG_01.dwg, printed on 10/10/2024 13:22:39 by: Brawless_Alan



Document & Drawing Issue Sheet

Project No: 2024UK288933
Project Name: TVCA Linthorpe Road Restoration
Date of Issue: 10-Oct-2024
Purpose of Issue: Client Approval
Method of Issue: Email
Number of items Issued: 28
Format of Issue: PDF
Service: DI

Issue No: 5
Issuing Office:
#N/A

Issued to:		No of Recipients: 1
Company	Name	Position/Function
Tees Valley Combined Authority	Craig MacLennan	

Dwg/Doc Number	Title	Scale	Size	Revision
288933-WSP-XX-XX-DR-C-0101	General Arrangement (Sheet 1 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-0102	General Arrangement (Sheet 2 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-0103	General Arrangement (Sheet 3 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-0104	General Arrangement (Sheet 4 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-0151	Setting Out (Sheet 1 of 4)	1:250	A1	P02
288933-WSP-XX-XX-DR-C-0152	Setting Out (Sheet 2 of 4)	1:250	A1	P02
288933-WSP-XX-XX-DR-C-0153	Setting Out (Sheet 3 of 4)	1:250	A1	P02
288933-WSP-XX-XX-DR-C-0154	Setting Out (Sheet 4 of 4)	1:250	A1	P02
288933-WSP-XX-XX-DR-C-0155	Setting Out	1:250	A1	P02
288933-WSP-XX-XX-DR-C-0201	Site Clearance (Sheet 1 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-0202	Site Clearance (Sheet 2 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-0203	Site Clearance (Sheet 3 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-0204	Site Clearance (Sheet 4 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-0501	Drainage Layout (Sheet 1 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-0502	Drainage Layout (Sheet 1 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-0503	Drainage Layout (Sheet 1 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-0504	Drainage Layout (Sheet 1 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-1101	Kerbs, Footways & Paved Areas (Sheet 1 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-1102	Kerbs, Footways & Paved Areas (Sheet 2 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-1103	Kerbs, Footways & Paved Areas (Sheet 3 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-1104	Kerbs, Footways & Paved Areas (Sheet 4 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-1201	Traffic Signs & Road Markings (Sheet 1 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-1202	Traffic Signs & Road Markings (Sheet 2 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-1203	Traffic Signs & Road Markings (Sheet 3 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-1204	Traffic Signs & Road Markings (Sheet 4 of 4)	1:250	A1	P04
288933-WSP-XX-XX-DR-C-1211	Traffic Sign Details (Sheet 1 of 3)	NTS	A1	P03
288933-WSP-XX-XX-DR-C-1212	Traffic Sign Details (Sheet 2 of 3)	NTS	A1	P03
288933-WSP-XX-XX-DR-C-1213	Traffic Sign Details (Sheet 3 of 3)	NTS	A1	P03