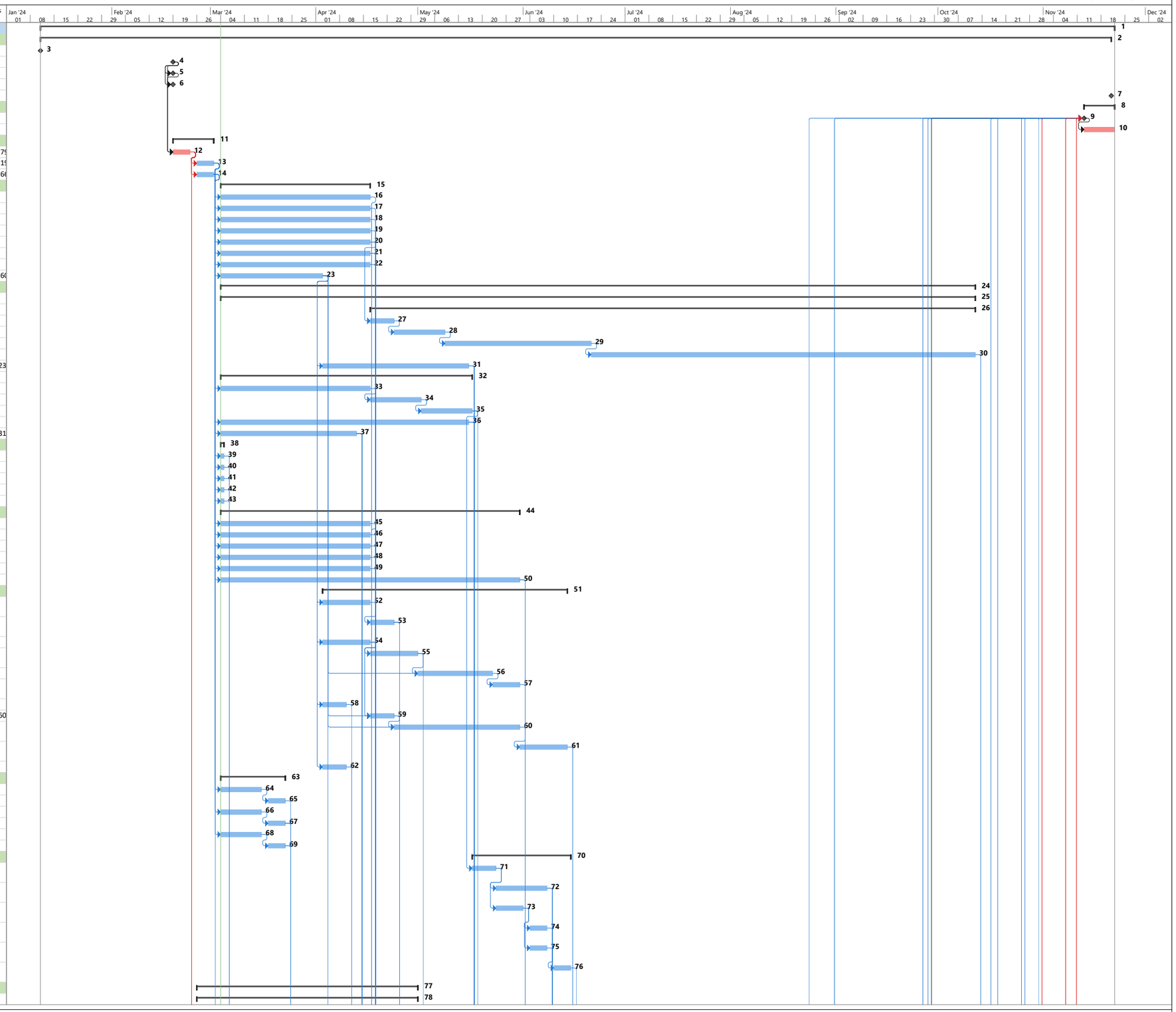
Stanhope Road Programme - Clause 14 Rev 002

MILESTONE INFRASTRUCTURE
A part of MGroupServices

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Successors
1		**Stanhope Road Bridge**	**221 days**	**Thu 11/01/24**	**Thu 21/11/24**		
2		**Contract Data**	**220 days**	**Thu 11/01/24**	**Thu 21/11/24**		
3		Confirmation of Contract Award	0 days	Thu 11/01/24	Thu 11/01/24		
4		Contract Commencement Date	0 days	Mon 19/02/24	Mon 19/02/24		5,12,6
5		Drawings issued for Construction	0 days	Mon 19/02/24	Mon 19/02/24	4	12
6		Access Date all areas	0 days	Mon 19/02/24	Mon 19/02/24	4	
7		Completion Date	0 days	Thu 21/11/24	Thu 21/11/24		
8		**Planned Completion**	**7 days**	**Tue 12/11/24**	**Thu 21/11/24**		
9		Planned Completion	0 days	Tue 12/11/24	Tue 12/11/24	403,432,385,	10
10		Terminal Float	7 days	Wed 13/11/24	Thu 21/11/24	9	
11		**Mobilisation**	**10 days**	**Mon 19/02/24**	**Fri 01/03/24**		
12		Mobilise Team	5 days	Mon 19/02/24	Fri 23/02/24	4,5	13,83,81,79
13		Engage with Subcontractors	5 days	Mon 26/02/24	Fri 01/03/24	12	16,17,18,19
14		Place Material Orders	5 days	Mon 26/02/24	Fri 01/03/24	12	33,36,64,66
15		**Subcontractor Procurement**	**30 days**	**Mon 04/03/24**	**Tue 16/04/24**		
16		TM	30 days	Mon 04/03/24	Tue 16/04/24	13	121
17		Demolition	30 days	Mon 04/03/24	Tue 16/04/24	13	134
18		Piling	30 days	Mon 04/03/24	Tue 16/04/24	13	141
19		FRC	30 days	Mon 04/03/24	Tue 16/04/24	13	168
20		Bridge Installation	30 days	Mon 04/03/24	Tue 16/04/24	13	27,408
21		Landscaping	30 days	Mon 04/03/24	Tue 16/04/24	13	402,403
22		Surfacing & Road Marking	30 days	Mon 04/03/24	Tue 16/04/24	13	425
23		Temporary Works Designer	20 days	Mon 04/03/24	Tue 02/04/24	13	52,54,56,60
24		**Procurement**	**155 days**	**Mon 04/03/24**	**Fri 11/10/24**		
25		**Long Lead Materials**	**155 days**	**Mon 04/03/24**	**Fri 11/10/24**		
26		**Bridge Deck**	**125 days**	**Wed 17/04/24**	**Fri 11/10/24**		
27		Mobilisation	5 days	Wed 17/04/24	Tue 23/04/24	20	28
28		Design & Fabrication Drawings	10 days	Wed 24/04/24	Wed 08/05/24	27	29
29		Steelwork Fabrication Details LBH Approc	30 days	Thu 09/05/24	Thu 20/06/24	28	30
30		Fabrication	80 days	Fri 21/06/24	Fri 11/10/24	29	409
31		Tensar Material	30 days	Wed 03/04/24	Wed 15/05/24	23	225,232,23
32		**Formwork & Formliner**	**51 days**	**Mon 04/03/24**	**Thu 16/05/24**		
33		Master Mould	30 days	Mon 04/03/24	Tue 16/04/24	14	34
34		Formliner Production	11 days	Wed 17/04/24	Wed 01/05/24	33	35
35		Delivery	10 days	Thu 02/05/24	Thu 16/05/24	34	170,71
36		Bridge Bearing	50 days	Mon 04/03/24	Wed 15/05/24	14	253,262
37		Slipform Cladding Tiles	28 days	Mon 04/03/24	Fri 12/04/24	14	285,301,31
38		**STATS Engagement**	**1 day**	**Mon 04/03/24**	**Mon 04/03/24**		
39		Cadent Gas	1 day	Mon 04/03/24	Mon 04/03/24	13	118
40		Thames Water	1 day	Mon 04/03/24	Mon 04/03/24	13	118
41		UKPN	1 day	Mon 04/03/24	Mon 04/03/24	13	118
42		Virgin Media	1 day	Mon 04/03/24	Mon 04/03/24	13	118
43		Private suppliers	1 day	Mon 04/03/24	Mon 04/03/24	13	118
44		**Permits & Notices**	**60 days**	**Mon 04/03/24**	**Thu 30/05/24**		
45		Phase 1 - TTRO Streetworks Notice	30 days	Mon 04/03/24	Tue 16/04/24	13	121
46		Phase 2 - TTRO Streetworks Notice	30 days	Mon 04/03/24	Tue 16/04/24	13	131
47		Phase 3 - TTRO Streetworks Notice	30 days	Mon 04/03/24	Tue 16/04/24	13	155
48		Phase 4 - TTRO Streetworks Notice	30 days	Mon 04/03/24	Tue 16/04/24	13	155
49		Phase 5 - TTRO Streetworks Notice	30 days	Mon 04/03/24	Tue 16/04/24	13	406
50		AIP - Formwork Access and Haki Staircase	60 days	Mon 04/03/24	Thu 30/05/24	13	167,254
51		**Temporary Works Design**	**50 days**	**Wed 03/04/24**	**Thu 13/06/24**		
52		Temporary Access Routes to the Parkland Walkway from Stanhope Road	10 days	Wed 03/04/24	Tue 16/04/24	23	53
53		Temporary Access Routes to the Parkland Walkway from Stanhope Road LBH Approval	5 days	Wed 17/04/24	Tue 23/04/24	52	127,128
54		Demolition of the brick Abutments TWD	10 days	Wed 03/04/24	Tue 16/04/24	23	55,59
55		Demolition of the brick Abutments TWD LBH Approval	10 days	Wed 17/04/24	Tue 30/04/24	54	134,56
56		Abutment & Ramp Formwork Proposals	15 days	Wed 01/05/24	Wed 22/05/24	23,55	57
57		Abutment and ramp formwork proposals LBH Approval	5 days	Thu 23/05/24	Thu 30/05/24	56	167
58		Protection Mat	5 days	Wed 03/04/24	Tue 09/04/24	23	133
59		Piling Mat	5 days	Wed 17/04/24	Tue 23/04/24	23,54	141,144,60
60		Temporary slope stabilisation for installation of king post (T1 RPA)	25 days	Wed 24/04/24	Thu 30/05/24	23,59	61
61		Temporary slope stabilisation for installation of king post (T1 RPA) - LBH Approval	10 days	Fri 31/05/24	Thu 13/06/24	60	268
62		Crane Mat	5 days	Wed 03/04/24	Tue 09/04/24	23	408
63		**Permanent Design**	**15 days**	**Mon 04/03/24**	**Fri 22/03/24**		
64		Submit Guardrail Fabrication Details	10 days	Mon 04/03/24	Fri 15/03/24	14	65
65		Guardrail Fabrication Details LBH Approval	5 days	Mon 18/03/24	Fri 22/03/24	64	411
66		Replica Railings fabrication Drawings	10 days	Mon 04/03/24	Fri 15/03/24	14	67
67		Replica railings LBH	5 days	Mon 18/03/24	Fri 22/03/24	66	402,403
68		Submit Sign faces to LBH	10 days	Mon 04/03/24	Fri 15/03/24	14	69
69		Sign faces LBH Approval	5 days	Mon 18/03/24	Fri 22/03/24	68	402,403
70		**Trial Panels & Samples**	**20 days**	**Fri 17/05/24**	**Fri 14/06/24**		
71		Concrete Trial Panels - Concrete colour and Form-liner finish - Produce	5 days	Fri 17/05/24	Thu 23/05/24	35	72,73
72		Concrete Trial Panels - Concrete colour and Form-liner finish - LBH Approval	10 days	Fri 24/05/24	Fri 07/06/24	71	170,190
73		Precast concrete King Post infill colouring (Site compound) - Produce	5 days	Fri 24/05/24	Fri 31/05/24	71	74,75
74		Precast concrete King Post infill colouring (Site compound) - LBH Approval	5 days	Mon 03/06/24	Fri 07/06/24	73	268
75		In-situ concrete colouring (Ramp wall F4 Finish) -Produce	5 days	Mon 03/06/24	Fri 07/06/24	73	76
76		In-situ concrete colouring (Ramp wall F4 Finish) - LBH Approval	5 days	Mon 10/06/24	Fri 14/06/24	75	269
77		**Produce Project Documentation**	**45 days**	**Mon 26/02/24**	**Tue 30/04/24**		
78		**Management Documentation**	**45 days**	**Mon 26/02/24**	**Tue 30/04/24**		



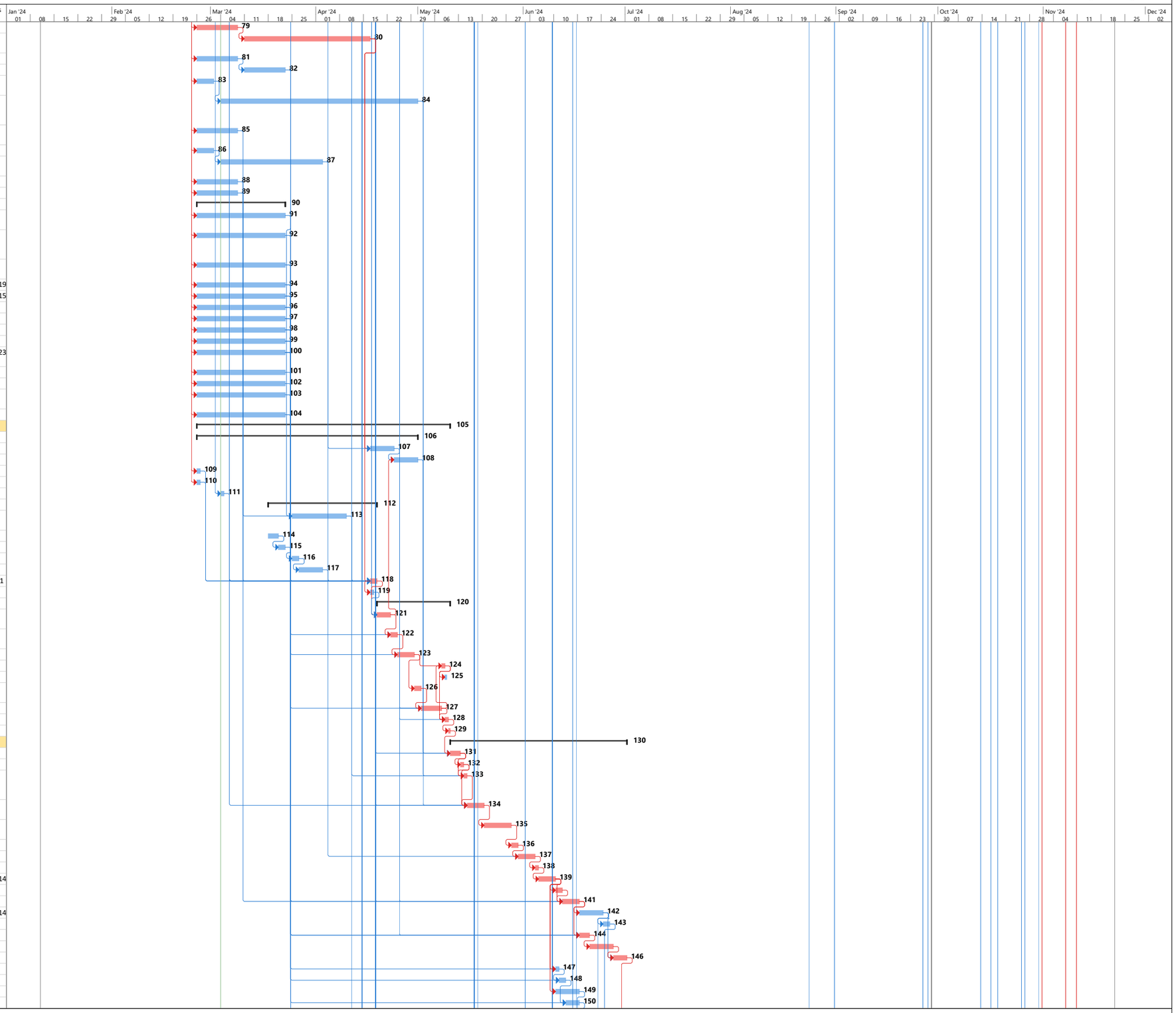
Project: Stanhope Bridge Tende
Date: Mon 04/03/24

Task | Milestone | Project Summary | Inactive Milestone | Manual Task | Manual Summary Rollup | Start-only | External Tasks | Deadline | Critical Split | Manual Progress
Split | Summary | Inactive Task | Inactive Summary | Duration-only | Manual Summary | Finish-only | External Milestone | Critical | Progress

Stanhope Road Programme - Clause 14 Rev 002

MILESTONE INFRASTRUCTURE
A part of MGroupServices

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Successors
79		Construction Management Plan (CMP)	10 days	Mon 26/02/24	Fri 08/03/24	12	80
80		Construction Management Plan (CMP) - LBH Approval	25 days	Mon 11/03/24	Tue 16/04/24	79	118,107
81		Traffic Management Plan	10 days	Mon 26/02/24	Fri 08/03/24	12	82
82		TM LBH Approval	10 days	Mon 11/03/24	Fri 22/03/24	81	118
83		Demolition/ Construction Environmental Management Plans (DEMP/CEMP)	5 days	Mon 26/02/24	Fri 01/03/24	12	84
84		Demolition/ Construction Environmental Management Plans (DEMP/CEMP) - LBH Approval	40 days	Mon 04/03/24	Tue 30/04/24	83	131
85		Communication & Stakeholder Management Plan	10 days	Mon 26/02/24	Fri 08/03/24	12	113
86		Logistics Strategy Document	5 days	Mon 26/02/24	Fri 01/03/24	12	87
87		Logistics Strategy Document Prior site commencement	20 days	Mon 04/03/24	Tue 02/04/24	86	107
88		Emergency Preparedness Plan (EPP)	10 days	Mon 26/02/24	Fri 08/03/24	12	118
89		Quality Plan (Inc ITP)	10 days	Mon 26/02/24	Fri 08/03/24	12	141
90		**RAMS (Production & Approval)**	**20 days**	**Mon 26/02/24**	**Fri 22/03/24**		
91		Access / egress / control of deliveries to site RAMS	20 days	Mon 26/02/24	Fri 22/03/24	12	113
92		Site clearing and tree removal including an Arboricultural Method Statement (AMS) to cover all works near trees RAMS	20 days	Mon 26/02/24	Fri 22/03/24	12	122
93		Temporary Access Routes to the Parkland Walkway RAMS	20 days	Mon 26/02/24	Fri 22/03/24	12	123,127
94		Drainage RAMS	20 days	Mon 26/02/24	Fri 22/03/24	12	214,204,19
95		Earthworks RAMS	20 days	Mon 26/02/24	Fri 22/03/24	12	147,148,15
96		Piling mobilization and setup RAMS	20 days	Mon 26/02/24	Fri 22/03/24	12	141,144
97		Piling sequence RAMS	20 days	Mon 26/02/24	Fri 22/03/24	12	141,144
98		Abutment construction RAMS	20 days	Mon 26/02/24	Fri 22/03/24	12	167,182
99		Temporary construction access Ramp RAM	20 days	Mon 26/02/24	Fri 22/03/24	12	152,153
100		Installation of reinforced earth elements RAMS	20 days	Mon 26/02/24	Fri 22/03/24	12	225,232,23
101		Delivery of bridge deck to site RAMS	20 days	Mon 26/02/24	Fri 22/03/24	12	409
102		Installation of bridge deck RAMS	20 days	Mon 26/02/24	Fri 22/03/24	12	410
103		Construction of ancillary structures (Ramps and stairs) RAMS	20 days	Mon 26/02/24	Fri 22/03/24	12	377,272
104		Landscaping and finishes RAMS	20 days	Mon 26/02/24	Fri 22/03/24	12	402,403
105		**Phase 1: Site Establishment**	**51.5 days**	**Mon 26/02/24**	**Fri 10/05/24**		
106		**Surveys**	**45 days**	**Mon 26/02/24**	**Tue 30/04/24**		
107		Undertake PAS 128 Survey of works Area	5 days	Wed 17/04/24	Tue 23/04/24	80,87	108
108		Trial holes to verify STATS survey	5 days	Wed 24/04/24	Tue 30/04/24	107,121	133
109		Condition Survey	1 day	Mon 26/02/24	Mon 26/02/24	12	118
110		Environmental Surveys	1 day	Mon 26/02/24	Mon 26/02/24	12	118
111		Demolition Survey	1 day	Mon 04/03/24	Mon 04/03/24	13	134
112		**Compound Establishment**	**22 days**	**Mon 18/03/24**	**Thu 18/04/24**		
113		Install Information signs (1.8m x 3m) prior work commencement	10 days	Mon 25/03/24	Tue 09/04/24	91,85	118
114		Install Crossover & Gates	3 days	Mon 18/03/24	Wed 20/03/24		115
115		Remove Soft Strip	2 days	Thu 21/03/24	Fri 22/03/24	114	116
116		Excavate Topsoil	2 days	Mon 25/03/24	Tue 26/03/24	115	117
117		Install Type 1 & Compact	3 days	Wed 27/03/24	Tue 02/04/24	116	118
118		Site Accommodation & Connections	2 days	Wed 17/04/24	Thu 18/04/24	82,80,39,40,4	119SS,121
119		Install environmental monitoring stations	1 day	Wed 17/04/24	Wed 17/04/24	118SS	121
120		**Temporary Access Ramps & Site Fencing**	**14.5 days**	**Fri 19/04/24**	**Fri 10/05/24**		
121		Set-up TM - half road closure inc. Signalised pedestrian crossing	2 days	Fri 19/04/24	Mon 22/04/24	118,119,16,4	122,108
122		De-vegetation to proposed walkway & Removal of Existing Railing (Southwest)	2 days	Tue 23/04/24	Wed 24/04/24	121,92	123
123		Install temp walkway (Southwest)	3 days	Thu 25/04/24	Mon 29/04/24	122,93	124,126
124		Install perimeter fencing (West)	1 day	Wed 08/05/24	Wed 08/05/24	123,127	125,128
125		Install temporary signage & Divert Pedestr	0.5 days	Thu 09/05/24	Thu 09/05/24	124	
126		De-vegetation to proposed walkway & Removal of Existing Railing (Southeast)	2 days	Tue 30/04/24	Wed 01/05/24	123	127
127		Install temp walkway (Southeast)	3 days	Thu 02/05/24	Tue 07/05/24	126,53,93	128,124
128		Install perimeter fencing (East)	1 day	Thu 09/05/24	Thu 09/05/24	127,124,53	129
129		Close Footbridge & Divert Pedestrians	0.5 days	Fri 10/05/24	Fri 10/05/24	128	131
130		**Phase 2: 6-Week Closure**	**35 days**	**Fri 10/05/24**	**Mon 01/07/24**		
131		Install Road Closure TM	1 day	Fri 10/05/24	Mon 13/05/24	129,84,46	132,133
132		Install wheel wash within the closed highway	1 day	Mon 13/05/24	Tue 14/05/24	131	134,133
133		Install ground protection system to highway/footway inc. sleepers, visqueen, hardwood mats, Vibration monitoretc	1 day	Tue 14/05/24	Wed 15/05/24	131,58,132,1	134
134		Remove surface finishes from bridge deck and parapet wall	3 days	Wed 15/05/24	Mon 20/05/24	133,132,55,1	135
135		Break out bridge deck in sections from East to West	5 days	Mon 20/05/24	Tue 28/05/24	134	136
136		Lift out Bridge Beams	2 days	Tue 28/05/24	Thu 30/05/24	135	137
137		Breakdown existing wingwalls (West)	3 days	Thu 30/05/24	Tue 04/06/24	136,23	138
138		Soft-strip of embankment (Southwest)	1 day	Tue 04/06/24	Wed 05/06/24	137	139
139		Break-down abutment walls (East)	3 days	Wed 05/06/24	Mon 10/06/24	138	147,149,14
140		6N backfill and Piling Mat Installation	2 days	Mon 10/06/24	Wed 12/06/24	139	141
141		Install 9no. Piles (East)	3 days	Wed 12/06/24	Mon 17/06/24	139,59,96,97	144,142
142		Install 9no. Piles (East) Curing	5 days	Mon 17/06/24	Mon 24/06/24	141	146,155,14
143		Breakdown and test piles	2 days	Mon 24/06/24	Wed 26/06/24	142	157
144		Install 9no Piles (West)	3 days	Mon 17/06/24	Thu 20/06/24	141,59,96,97	145
145		Install 9no. Piles (West) Curing	5 days	Thu 20/06/24	Thu 27/06/24	144	146
146		Breakdown and test piles	2 days	Thu 27/06/24	Mon 01/07/24	145,142	162
147		Topsoil Strip & Excavation (Southeast)	1 day	Mon 10/06/24	Tue 11/06/24	139,95	148
148		Topsoil Strip & Excavation (Northeast)	2 days	Tue 11/06/24	Thu 13/06/24	147,95	150
149		Excavate and prepare pond area	5 days	Mon 10/06/24	Mon 17/06/24	139	152
150		Topsoil Strip & Excavation (Northwest)	2 days	Thu 13/06/24	Mon 17/06/24	148,95	151



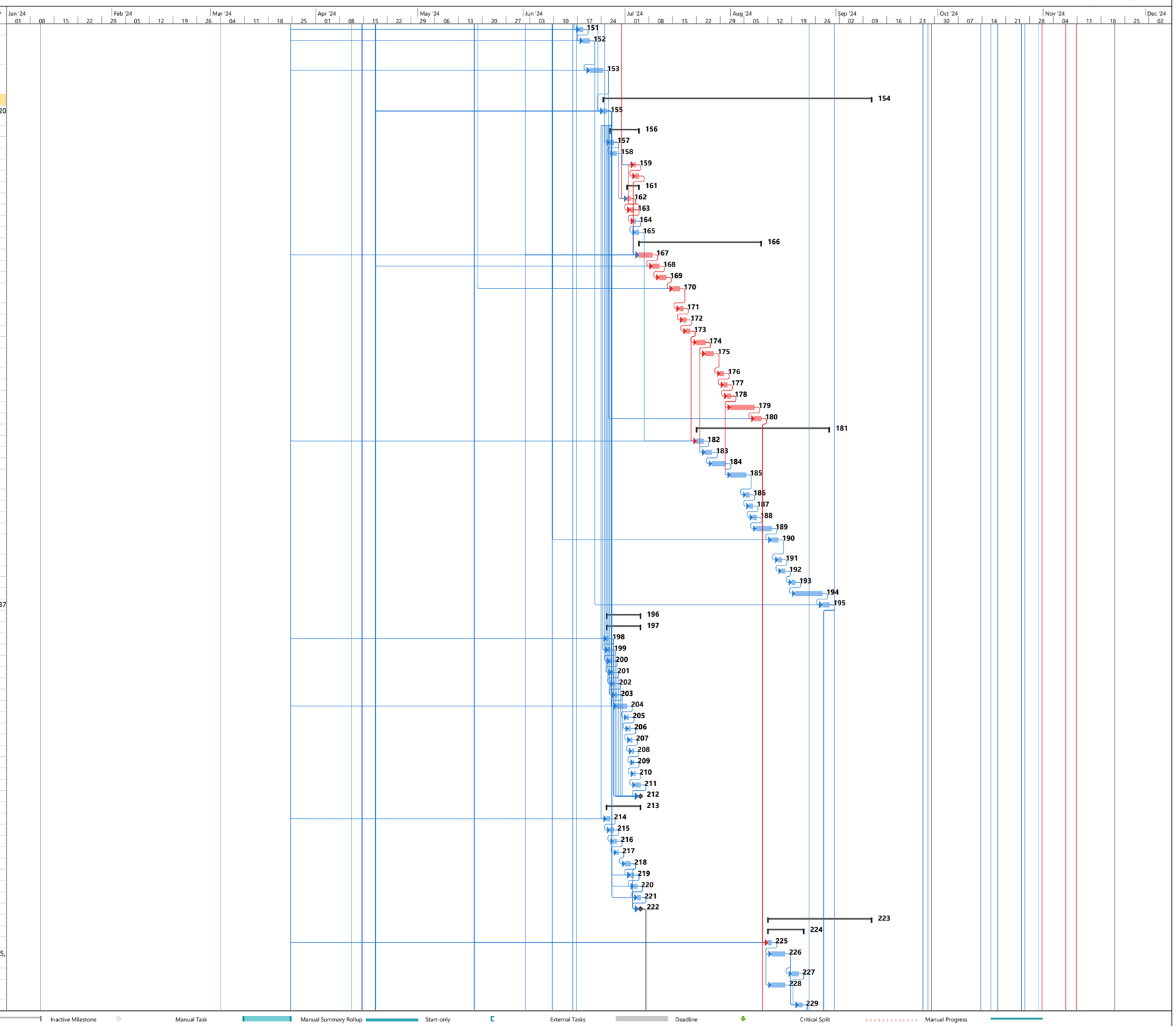
Project: Stanhope Bridge Tende
Date: Mon 04/03/24

Task, Split, Milestone, Summary, Project Summary, Inactive Task, Inactive Milestone, Inactive Summary, Manual Task, Duration-only, Manual Summary Rollup, Manual Summary, Start-only, Finish-only, External Tasks, External Milestone, Deadline, Critical, Critical Split, Progress, Manual Progress

Stanhope Road Programme - Clause 14 Rev 002

MILESTONE INFRASTRUCTURE
A part of MGroupServices

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Successors
151		Topsoil Strip & Excavation (Southwest)	1 day	Mon 17/06/24	Tue 18/06/24	150,95	152
152		Create construction access ramp up to high-level (Southwest) - max. gradient of 16.5 degrees	2 days	Tue 18/06/24	Thu 20/06/24	151,149,99	153,195
153		Create construction access ramp up to high-level (Southeast) - max. gradient of 16.5 degrees	2 days	Thu 20/06/24	Mon 24/06/24	152,99	155,180
154		**Phase 3: Abutment Construction**	**56 days**	**Mon 24/06/24**	**Wed 11/09/24**		
155		Alter TM - Set-Up TM (2-way lights) - traffic through centre of road	1 day	Mon 24/06/24	Tue 25/06/24	153,47,48,14	204,198,20
156		**Construct Pile Cap (East) inc. wall kicker**	**6.5 days**	**Wed 26/06/24**	**Thu 04/07/24**		
157		Rebar Installation	1 day	Wed 26/06/24	Thu 27/06/24	143	158,162
158		Install Formwork	1 day	Thu 27/06/24	Fri 28/06/24	157	159
159		Concrete Pour	0.5 days	Wed 03/07/24	Wed 03/07/24	158,163	160
160		Strike Formwork & Backfilling	1 day	Thu 04/07/24	Thu 04/07/24	159	167
161		**Construct Pile Cap (West) inc. wall kicker**	**3.5 days**	**Mon 01/07/24**	**Thu 04/07/24**		
162		Rebar Installation	1 day	Mon 01/07/24	Tue 02/07/24	157,146	163
163		Install Formwork	1 day	Tue 02/07/24	Wed 03/07/24	162	159,164
164		Concrete Pour	0.5 days	Wed 03/07/24	Wed 03/07/24	163	167,165
165		Strike Formwork & Backfilling	1 day	Thu 04/07/24	Thu 04/07/24	164	182
166		**East Abutment**	**26 days**	**Fri 05/07/24**	**Fri 09/08/24**		
167		Install Internal Formwork (EW1 & EW2)	2 days	Fri 05/07/24	Mon 08/07/24	164,98,57,50	168
168		Install Reinforcement EW1	2 days	Tue 09/07/24	Wed 10/07/24	167,19	169
169		Install Reinforcement EW2	2 days	Thu 11/07/24	Fri 12/07/24	168	170
170		Install External Formline Formwork sidewalls (EW1 & EW2)	2 days	Mon 15/07/24	Tue 16/07/24	169,72,35	171
171		Pour Sidewalls (EW1 & EW2) inc. Wall Kick	1 day	Wed 17/07/24	Wed 17/07/24	170	172
172		Concrete Curing Prior Striking	1 day	Thu 18/07/24	Thu 18/07/24	171	173
173		Strike Formwork (EW1 & EW2)	1 day	Fri 19/07/24	Fri 19/07/24	172	174,182
174		Install Reinforcement ABT1	2.5 days	Mon 22/07/24	Wed 24/07/24	173	175,183
175		Install external Formline Formwork (ABT1) Abutment	2.5 days	Wed 24/07/24	Fri 26/07/24	174	176
176		Pour Abutment Wall (ABT1)	1 day	Mon 29/07/24	Mon 29/07/24	175	177
177		Concrete Curing Prior Striking	1 day	Tue 30/07/24	Tue 30/07/24	176	178
178		Strike Abutment Formwork (ABT1)	1 day	Wed 31/07/24	Wed 31/07/24	177	179,185
179		Install Back of Wall Drainage	5 days	Thu 01/08/24	Wed 07/08/24	178	180
180		Structural fill to abutment East	2 days	Thu 08/08/24	Fri 09/08/24	179,153	225,247
181		**West Abutment**	**28 days**	**Mon 22/07/24**	**Thu 29/08/24**		
182		Install Internal Formwork (WW1 & WW2)	2 days	Mon 22/07/24	Tue 23/07/24	173,98,165	183
183		Install Reinforcement WW1	2 days	Wed 24/07/24	Fri 26/07/24	174,182	184
184		Install Reinforcement WW2	2 days	Fri 26/07/24	Tue 30/07/24	183	185
185		Install External Formline Formwork (WW1 & WW2) sidewalls	2.5 days	Thu 01/08/24	Mon 05/08/24	184,178	186
186		Pour Sidewalls (WW1 & WW2) inc. Wall Kic	1 day	Mon 05/08/24	Tue 06/08/24	185	187
187		Concrete Curing Prior Striking	1 day	Tue 06/08/24	Wed 07/08/24	186	188
188		Strike Formwork (WW1 & WW2)	1 day	Wed 07/08/24	Thu 08/08/24	187	189
189		Install Reinforcement ABT2	2.5 days	Thu 08/08/24	Mon 12/08/24	188	190
190		Install external Formline formwork (ABT2) abutment	2 days	Tue 13/08/24	Wed 14/08/24	189,72	191
191		Pour Abutment Wall (ABT2)	1 day	Thu 15/08/24	Thu 15/08/24	190	192
192		Concrete Curing Prior Striking	1 day	Fri 16/08/24	Fri 16/08/24	191	193
193		Strike Abutment Formwork (ABT2)	1 day	Mon 19/08/24	Mon 19/08/24	192	194
194		Install Back of Wall Drainage (West)	5 days	Tue 20/08/24	Tue 27/08/24	193	195
195		Structural fill to abutment (West)	2 days	Wed 28/08/24	Thu 29/08/24	194,152	232,256,37
196		**Drainage**	**8 days**	**Tue 25/06/24**	**Fri 05/07/24**		
197		**East**	**8 days**	**Tue 25/06/24**	**Fri 05/07/24**		
198		MH 03	0.5 days	Tue 25/06/24	Tue 25/06/24	155,94	212,199
199		SW Tank 2	0.5 days	Wed 26/06/24	Wed 26/06/24	155,198	212,200
200		MH 02	0.5 days	Wed 26/06/24	Wed 26/06/24	155,199	212,201
201		MH 02A	0.5 days	Thu 27/06/24	Thu 27/06/24	155,200	212,202
202		SW Tank 1	0.5 days	Thu 27/06/24	Thu 27/06/24	155,201	212,203
203		MH 01	0.5 days	Fri 28/06/24	Fri 28/06/24	155,202	212,204
204		SW 2.003	1 day	Fri 28/06/24	Mon 01/07/24	155,94,203	205
205		SW 1.007	0.5 days	Mon 01/07/24	Mon 01/07/24	204	206
206		SW 2.002	0.5 days	Tue 02/07/24	Tue 02/07/24	205	207
207		SW 2.001	0.5 days	Tue 02/07/24	Tue 02/07/24	206	208
208		SW 1.006	0.25 days	Wed 03/07/24	Wed 03/07/24	207	209
209		SW 1.005	0.25 days	Wed 03/07/24	Wed 03/07/24	208	210
210		SW 1.004	0.5 days	Wed 03/07/24	Wed 03/07/24	209	211
211		Filter Drain installation (East)	1.5 days	Thu 04/07/24	Fri 05/07/24	210	212
212		East Drainage Completion	0 days	Fri 05/07/24	Fri 05/07/24	198,200,201,	
213		**West**	**8 days**	**Tue 25/06/24**	**Fri 05/07/24**		
214		SW 4.003	1 day	Tue 25/06/24	Wed 26/06/24	94,155	215
215		SW 4.002	1 day	Wed 26/06/24	Thu 27/06/24	214	216
216		SW 4.001	1 day	Thu 27/06/24	Fri 28/06/24	215	217
217		SW 4.000	0.5 days	Fri 28/06/24	Fri 28/06/24	216	218
218		Filter Drain installation (West)	1.5 days	Mon 01/07/24	Tue 02/07/24	217	222,219
219		MH 06	1 day	Tue 02/07/24	Wed 03/07/24	155,218	222,220
220		MH05	1 day	Wed 03/07/24	Thu 04/07/24	155,219	222,221
221		MH04	1 day	Thu 04/07/24	Fri 05/07/24	155,220	222
222		West Drainage Completion	0 days	Fri 05/07/24	Fri 05/07/24	219,220,221,	232
223		**Reinforced Earthworks (NW, NE & SW)**	**21.5 days**	**Mon 12/08/24**	**Wed 11/09/24**		
224		**Northeast**	**8.5 days**	**Mon 12/08/24**	**Thu 22/08/24**		
225		Assess & Install Temporary Edge Protect	1 day	Mon 12/08/24	Mon 12/08/24	180,31,100	226
226		Install Tensar Uniaxial Geogrid (Primary Reinforcement)	4 days	Tue 13/08/24	Fri 16/08/24	225	227,228SS,
227		Place & Compact 6N Fill in Layers	2 days	Mon 19/08/24	Tue 20/08/24	226	229
228		Install TriAx Geogrid Secondary Reinforcement	4 days	Tue 13/08/24	Fri 16/08/24	226SS	229
229		Install Topsoil in Layers	1 day	Wed 21/08/24	Wed 21/08/24	226,227,228	230,239



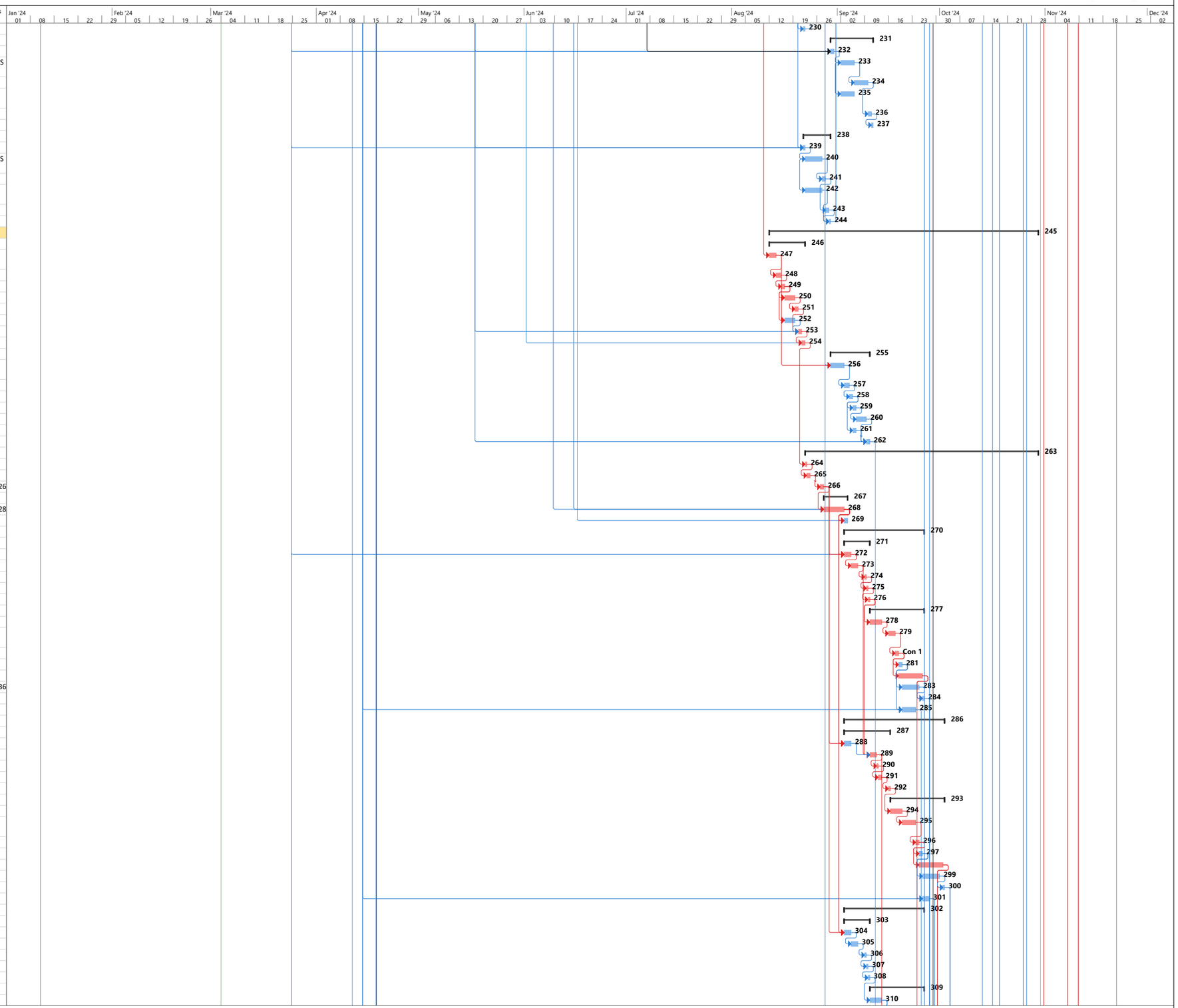
Project: Stanhope Bridge Tende
Date: Mon 04/03/24

Task
Split
Milestone
Summary
Project Summary
Inactive Task
Inactive Milestone
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Manual Task
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Critical Split
Progress
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MILESTONE INFRASTRUCTURE
A part of MGroupServices

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Successors
230		Grass Seeding	0.5 days	Thu 22/08/24	Thu 22/08/24	229	9
231		**Northwest**	**8.5 days**	**Fri 30/08/24**	**Wed 11/09/24**		
232		Assess & Install Temporary Edge Protect	1 day	Fri 30/08/24	Fri 30/08/24	195,31,100,2	233
233		Install Tensar Uniaxial Geogrid (Primary Reinforcement)	4 days	Mon 02/09/24	Thu 05/09/24	232	234,235SS
234		Place & Compact 6N Fill in Layers	2 days	Fri 06/09/24	Mon 09/09/24	233	236
235		Install TriAx Geogrid Secondary Reinforcement	4 days	Mon 02/09/24	Thu 05/09/24	233SS	
236		Install Topsoil in Layers	1 day	Tue 10/09/24	Tue 10/09/24	234	237
237		Grass Seeding	0.5 days	Wed 11/09/24	Wed 11/09/24	236	
238		**Southwest**	**5 days**	**Thu 22/08/24**	**Thu 29/08/24**		
239		Assess & Install Temporary Edge Protect	0.5 days	Thu 22/08/24	Thu 22/08/24	229,31,100	240
240		Install Tensar Uniaxial Geogrid (Primary Reinforcement)	2 days	Thu 22/08/24	Tue 27/08/24	239	241,242SS
241		Place & Compact 6N Fill in Layers	1 day	Tue 27/08/24	Wed 28/08/24	240	243
242		Install TriAx Geogrid Secondary Reinforcement	2 days	Thu 22/08/24	Tue 27/08/24	240SS	244
243		Install Topsoil in Layers	1 day	Wed 28/08/24	Thu 29/08/24	241	244
244		Grass Seeding	0.5 days	Thu 29/08/24	Thu 29/08/24	243,242	9
245		**Phase 4: Permanent Access**	**56 days**	**Mon 12/08/24**	**Tue 29/10/24**		
246		**East Abutment**	**8.5 days**	**Mon 12/08/24**	**Thu 22/08/24**		
247		Install Reinforcement for Cheek & Wing Wall (East)	2 days	Mon 12/08/24	Tue 13/08/24	180	248,256
248		Install Formwork for Cheek & Wing Wall (E	1.5 days	Wed 14/08/24	Thu 15/08/24	247	249
249		Pour Cheek & Wing Wall (East)	1 day	Thu 15/08/24	Fri 16/08/24	248	250,252
250		Concrete Curing Prior Striking	1 day	Fri 16/08/24	Mon 19/08/24	249	251
251		Strike Formwork Cheek & Wing Wall (East)	1 day	Mon 19/08/24	Tue 20/08/24	250	253
252		Install Bearing Plinth (East)	1 day	Fri 16/08/24	Mon 19/08/24	249	253
253		Install Bearing (East)	1 day	Tue 20/08/24	Wed 21/08/24	251,36,252	254
254		Install Haki Staircase	1 day	Wed 21/08/24	Thu 22/08/24	253,50	264
255		**West Abutment**	**7.5 days**	**Fri 30/08/24**	**Tue 10/09/24**		
256		Install Reinforcement for Cheek & Wing Wall (West)	2 days	Fri 30/08/24	Mon 02/09/24	195,247	257
257		Install Formwork for Cheek & Wing Wall (V	1.5 days	Tue 03/09/24	Wed 04/09/24	256	258
258		Pour Cheek & Wing Wall (West)	1 day	Wed 04/09/24	Thu 05/09/24	257	259,261
259		Concrete Curing Prior Striking	1 day	Thu 05/09/24	Fri 06/09/24	258	260
260		Strike Formwork Cheek & Wing Wall (West	1 day	Fri 06/09/24	Mon 09/09/24	259	262
261		Install Bearing Plinth (West)	1 day	Thu 05/09/24	Fri 06/09/24	258	262
262		Install Bearing (West)	1 day	Mon 09/09/24	Tue 10/09/24	260,36,261	422
263		**Southeast Ramp**	**47.5 days**	**Thu 22/08/24**	**Tue 29/10/24**		
264		Alter Fence line	0.5 days	Thu 22/08/24	Thu 22/08/24	254	265
265		Remove Construction Access Ramp	1 day	Fri 23/08/24	Fri 23/08/24	264	266
266		Reduce Ground Level	1 day	Tue 27/08/24	Tue 27/08/24	265	272,288,26
267		**LRW1 - Kingpost Wall**	**5 days**	**Wed 28/08/24**	**Tue 03/09/24**		
268		Pile & Install 8no Steel posts	4 days	Wed 28/08/24	Mon 02/09/24	266,61,74	269,272,28
269		Install Precast Infill Panels	1 day	Tue 03/09/24	Tue 03/09/24	268,76	
270		**CRW3**	**17.5 days**	**Tue 03/09/24**	**Thu 26/09/24**		
271		**Base**	**5.5 days**	**Tue 03/09/24**	**Tue 10/09/24**		
272		Install 6N foundation & Blinding	2 days	Tue 03/09/24	Wed 04/09/24	266,103,268	273
273		Install Reinforcement	2 days	Thu 05/09/24	Fri 06/09/24	272	274,289
274		Install Formwork	0.5 days	Mon 09/09/24	Mon 09/09/24	273	275
275		Pour Concrete	0.5 days	Mon 09/09/24	Mon 09/09/24	274	276
276		Strike Formwork	0.5 days	Tue 10/09/24	Tue 10/09/24	275	278,289
277		**Wall**	**12 days**	**Tue 10/09/24**	**Thu 26/09/24**		
278		Install Reinforcement	3.5 days	Tue 10/09/24	Fri 13/09/24	276	279
279		Install Formwork (Including 40mm Deep Recess)	2 days	Mon 16/09/24	Tue 17/09/24	278	280
280		Pour Concrete	1 day	Wed 18/09/24	Wed 18/09/24	279	281,282
281		Strike Formwork	1 day	Thu 19/09/24	Thu 19/09/24	280	283,285
282		Concrete Curing	5 days	Thu 19/09/24	Wed 25/09/24	280	284,320
283		Install Back of Wall Drainage	3 days	Fri 20/09/24	Tue 24/09/24	281	284,366,36
284		Backfill	0.5 days	Thu 26/09/24	Thu 26/09/24	282,283	367
285		Install Cladding	2 days	Fri 20/09/24	Mon 23/09/24	281,37	367
286		**CRW2**	**21.5 days**	**Tue 03/09/24**	**Wed 02/10/24**		
287		**Base**	**9.5 days**	**Tue 03/09/24**	**Mon 16/09/24**		
288		Install 6N foundation & Blinding	2 days	Tue 03/09/24	Wed 04/09/24	266,268	289
289		Install Reinforcement	2 days	Tue 10/09/24	Thu 12/09/24	273,288,276	290,326
290		Install Formwork	0.5 days	Thu 12/09/24	Thu 12/09/24	289	291
291		Pour Concrete	1 day	Fri 13/09/24	Fri 13/09/24	290	292
292		Strike Formwork	0.5 days	Mon 16/09/24	Mon 16/09/24	291	294
293		**Wall**	**12 days**	**Mon 16/09/24**	**Wed 02/10/24**		
294		Install Reinforcement	3.5 days	Mon 16/09/24	Thu 19/09/24	292	295
295		Install Formwork (Including 40mm Deep Recess)	2 days	Fri 20/09/24	Mon 23/09/24	294	296
296		Pour Concrete	1 day	Tue 24/09/24	Tue 24/09/24	295	297,298
297		Strike Formwork	1 day	Wed 25/09/24	Wed 25/09/24	296	299,301
298		Concrete Curing	5 days	Wed 25/09/24	Tue 01/10/24	296	300,336
299		Install Back of Wall Drainage	3 days	Thu 26/09/24	Mon 30/09/24	297	300
300		Backfill	0.5 days	Wed 02/10/24	Wed 02/10/24	298,299	366,367
301		Install Cladding	2 days	Thu 26/09/24	Fri 27/09/24	297,37	367
302		**CRW1**	**17.5 days**	**Tue 03/09/24**	**Thu 26/09/24**		
303		**Base**	**5.5 days**	**Tue 03/09/24**	**Tue 10/09/24**		
304		Install 6N foundation & Blinding	2 days	Tue 03/09/24	Wed 04/09/24	266,268	305
305		Install Reinforcement	2 days	Thu 05/09/24	Fri 06/09/24	304	306
306		Install Formwork	0.5 days	Mon 09/09/24	Mon 09/09/24	305	307
307		Pour Concrete	0.5 days	Mon 09/09/24	Mon 09/09/24	306	308
308		Strike Formwork	0.5 days	Tue 10/09/24	Tue 10/09/24	307	310
309		**Wall**	**12 days**	**Tue 10/09/24**	**Thu 26/09/24**		
310		Install Reinforcement	3.5 days	Tue 10/09/24	Fri 13/09/24	308	311,358



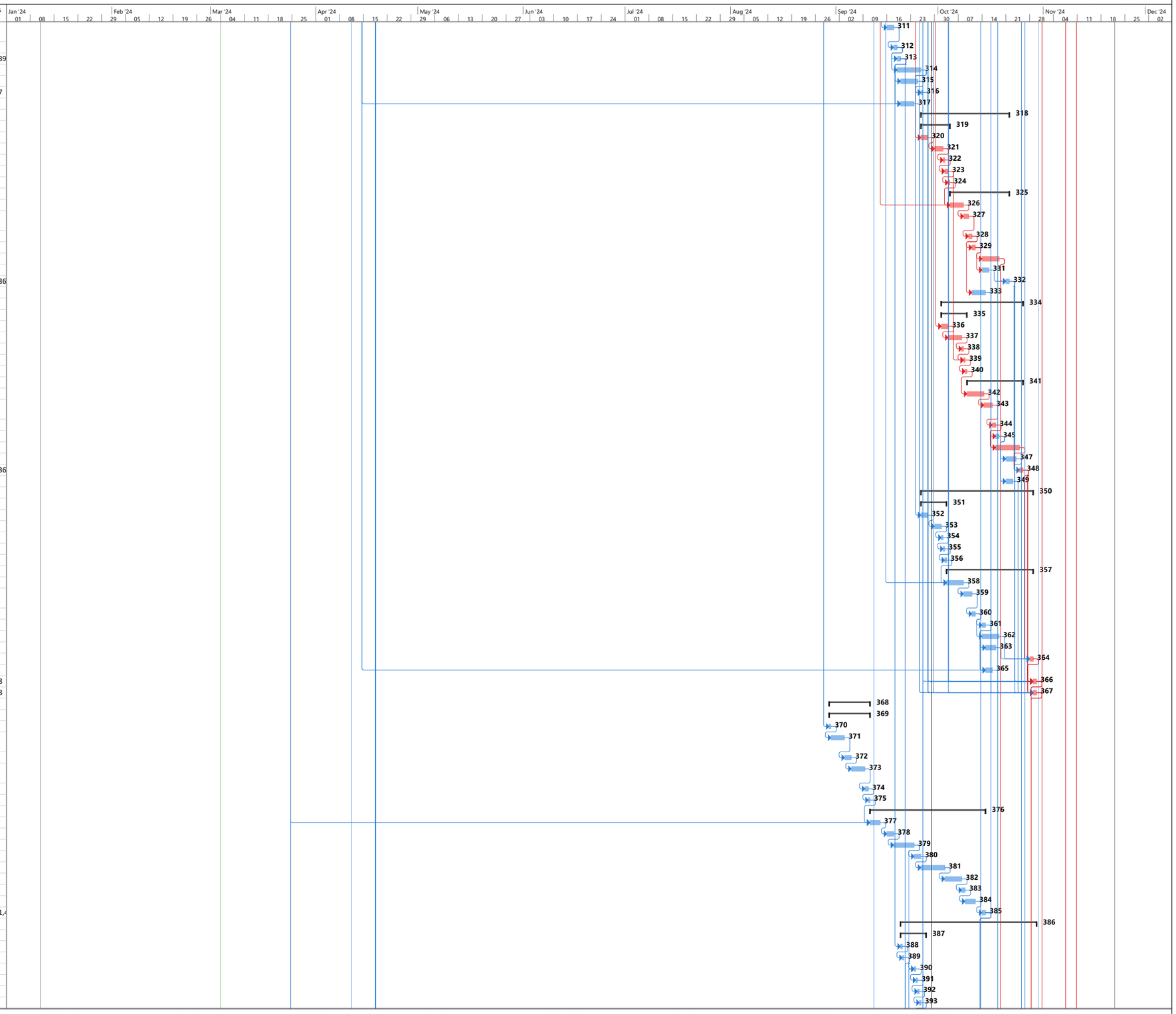
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Task, Split, Milestone, Summary, Project Summary, Inactive Task, Inactive Milestone, Inactive Summary, Manual Task, Duration-only, Manual Summary Rollup, Manual Summary, Start-only, Finish-only, External Tasks, External Milestone, Deadline, Critical, Critical Split, Progress, Manual Progress

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MILESTONE INFRASTRUCTURE
A part of MGroupServices

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Successors
311		Install Formwork (Including 40mm Deep Recess)	2 days	Mon 16/09/24	Tue 17/09/24	310	312
312		Pour Concrete	1 day	Wed 18/09/24	Wed 18/09/24	311	313,314
313		Strike Formwork	1 day	Thu 19/09/24	Thu 19/09/24	312	315,388,39
314		Concrete Curing	5 days	Thu 19/09/24	Wed 25/09/24	312	316,352
315		Install Back of Wall Drainage	3 days	Fri 20/09/24	Tue 24/09/24	313	316
316		Backfill	0.5 days	Thu 26/09/24	Thu 26/09/24	315,314	9,366,367
317		Install Cladding	2 days	Fri 20/09/24	Mon 23/09/24	313,37	367
318		**URW3**	**18 days**	**Thu 26/09/24**	**Mon 21/10/24**		
319		**Base**	**6.5 days**	**Thu 26/09/24**	**Fri 04/10/24**		
320		Install 6N foundation & Blinding	2 days	Thu 26/09/24	Fri 27/09/24	282	321
321		Install Reinforcement	2.5 days	Mon 30/09/24	Wed 02/10/24	320	322
322		Install Formwork	0.5 days	Wed 02/10/24	Wed 02/10/24	321	323
323		Pour Concrete	1 day	Thu 03/10/24	Thu 03/10/24	322	324,339
324		Strike Formwork	0.5 days	Fri 04/10/24	Fri 04/10/24	323	326
325		**Wall**	**11.5 days**	**Fri 04/10/24**	**Mon 21/10/24**		
326		Install Reinforcement	2 days	Fri 04/10/24	Tue 08/10/24	324,289	327
327		Install Formwork (Including 40mm Deep Recess)	1.5 days	Tue 08/10/24	Wed 09/10/24	326	328
328		Pour Concrete	1 day	Thu 10/10/24	Thu 10/10/24	327	329,333
329		Strike Formwork	1 day	Fri 11/10/24	Fri 11/10/24	328	330,331
330		Concrete Curing	5 days	Mon 14/10/24	Fri 18/10/24	329	332,403
331		Install Back of Wall Drainage	2 days	Mon 14/10/24	Tue 15/10/24	329	332
332		Backfill	1 day	Mon 21/10/24	Mon 21/10/24	331,330	348,366,36
333		Install Cladding	2 days	Fri 11/10/24	Mon 14/10/24	328	367
334		**URW2**	**18 days**	**Wed 02/10/24**	**Fri 25/10/24**		
335		**Base**	**5.5 days**	**Wed 02/10/24**	**Wed 09/10/24**		
336		Install 6N foundation & Blinding	2 days	Wed 02/10/24	Thu 03/10/24	298	337
337		Install Reinforcement	2 days	Fri 04/10/24	Mon 07/10/24	336	338
338		Install Formwork	0.5 days	Tue 08/10/24	Tue 08/10/24	337	339
339		Pour Concrete	0.5 days	Tue 08/10/24	Tue 08/10/24	323,338	340
340		Strike Formwork	0.5 days	Wed 09/10/24	Wed 09/10/24	339	342
341		**Wall**	**12.5 days**	**Wed 09/10/24**	**Fri 25/10/24**		
342		Install Reinforcement	3 days	Wed 09/10/24	Mon 14/10/24	340	343
343		Install Formwork (Including 40mm Deep Recess)	2.5 days	Mon 14/10/24	Wed 16/10/24	342	344
344		Pour Concrete	1 day	Thu 17/10/24	Thu 17/10/24	343	345,346
345		Strike Formwork	1 day	Fri 18/10/24	Fri 18/10/24	344	347,349
346		Concrete Curing	5 days	Fri 18/10/24	Thu 24/10/24	344	348
347		Install Back of Wall Drainage	3 days	Mon 21/10/24	Wed 23/10/24	345	348
348		Backfill	1 day	Fri 25/10/24	Fri 25/10/24	347,332,346	364,366,36
349		Install Cladding	2 days	Mon 21/10/24	Tue 22/10/24	345	367
350		**URW1**	**23 days**	**Thu 26/09/24**	**Mon 28/10/24**		
351		**Base**	**5.5 days**	**Thu 26/09/24**	**Thu 03/10/24**		
352		Install 6N foundation & Blinding	2 days	Thu 26/09/24	Fri 27/09/24	314	353
353		Install Reinforcement	2 days	Mon 30/09/24	Tue 01/10/24	352	354
354		Install Formwork	0.5 days	Wed 02/10/24	Wed 02/10/24	353	355
355		Pour Concrete	0.5 days	Wed 02/10/24	Wed 02/10/24	354	356
356		Strike Formwork	0.5 days	Thu 03/10/24	Thu 03/10/24	355	358
357		**Wall**	**17.5 days**	**Thu 03/10/24**	**Mon 28/10/24**		
358		Install Reinforcement	3 days	Thu 03/10/24	Tue 08/10/24	356,310	359
359		Install Formwork (Including 40mm Deep Recess)	2.5 days	Tue 08/10/24	Thu 10/10/24	358	360
360		Pour Concrete	1 day	Fri 11/10/24	Fri 11/10/24	359	361,362
361		Strike Formwork	1 day	Mon 14/10/24	Mon 14/10/24	360	363,365
362		Concrete Curing	5 days	Mon 14/10/24	Fri 18/10/24	360	364
363		Install Back of Wall Drainage	3 days	Tue 15/10/24	Thu 17/10/24	361	364
364		Backfill	1 day	Mon 28/10/24	Mon 28/10/24	362,363,348	367,366
365		Install Cladding	2 days	Tue 15/10/24	Wed 16/10/24	361,37	367
366		Install Ramp Handrail	1 day	Tue 29/10/24	Tue 29/10/24	283,300,316,	9,429,428
367		Install Ulticolour Porous Asphalt	1 day	Tue 29/10/24	Tue 29/10/24	364,283,300,	9,429,428
368		**Reinforced Earthworks (SW)**	**8 days**	**Fri 30/08/24**	**Tue 10/09/24**		
369		**Southeast**	**8 days**	**Fri 30/08/24**	**Tue 10/09/24**		
370		Assess & Install Temporary Edge Protect	0.5 days	Fri 30/08/24	Fri 30/08/24	195	371
371		Install Tensar Uniaxial Geogrid (Primary Reinforcement)	2 days	Fri 30/08/24	Tue 03/09/24	370	372
372		Place & Compact 6N Fill in Layers	2 days	Tue 03/09/24	Thu 05/09/24	371	373
373		Install TriAx Geogrid Secondary Reinforcement	2 days	Thu 05/09/24	Mon 09/09/24	372	374
374		Install Topsoil in Layers	1 day	Mon 09/09/24	Tue 10/09/24	373	375
375		Grass Seeding	0.5 days	Tue 10/09/24	Tue 10/09/24	374	377
376		**Southwest Steps**	**24 days**	**Wed 11/09/24**	**Mon 14/10/24**		
377		Reduce Ground Level	3 days	Wed 11/09/24	Fri 13/09/24	375,103	378
378		Place & Compact 6N Fill in Layers	2 days	Mon 16/09/24	Tue 17/09/24	377	379
379		Pour ST1 in stepped locations	4 days	Wed 18/09/24	Mon 23/09/24	378	380,399
380		Pour Bottom Steps Foundation & fixings	2 days	Tue 24/09/24	Wed 25/09/24	379	381
381		Install Handrail Posts	5 days	Thu 26/09/24	Wed 02/10/24	380	382
382		Install Granite Steps	3 days	Thu 03/10/24	Mon 07/10/24	381	383
383		Make Good around Fixing	1 day	Tue 08/10/24	Tue 08/10/24	382	384
384		Install Estate Fencing	3 days	Wed 09/10/24	Fri 11/10/24	383	385
385		Install Ulticolour Porous Asphalt	1 day	Mon 14/10/24	Mon 14/10/24	384	9,406,401,
386		**Drainage**	**28 days**	**Fri 20/09/24**	**Tue 29/10/24**		
387		**East**	**5.5 days**	**Fri 20/09/24**	**Fri 27/09/24**		
388		SW 1.003	0.5 days	Fri 20/09/24	Fri 20/09/24	313	389
389		SW 2.000	0.5 days	Fri 20/09/24	Fri 20/09/24	388	390,395
390		SW 1.002	0.5 days	Tue 24/09/24	Tue 24/09/24	389,395	391
391		SW 1.001	0.5 days	Tue 24/09/24	Tue 24/09/24	390	392
392		SWD 2.000	0.5 days	Wed 25/09/24	Wed 25/09/24	391	393
393		SWD 1.000	0.5 days	Wed 25/09/24	Wed 25/09/24	392	394



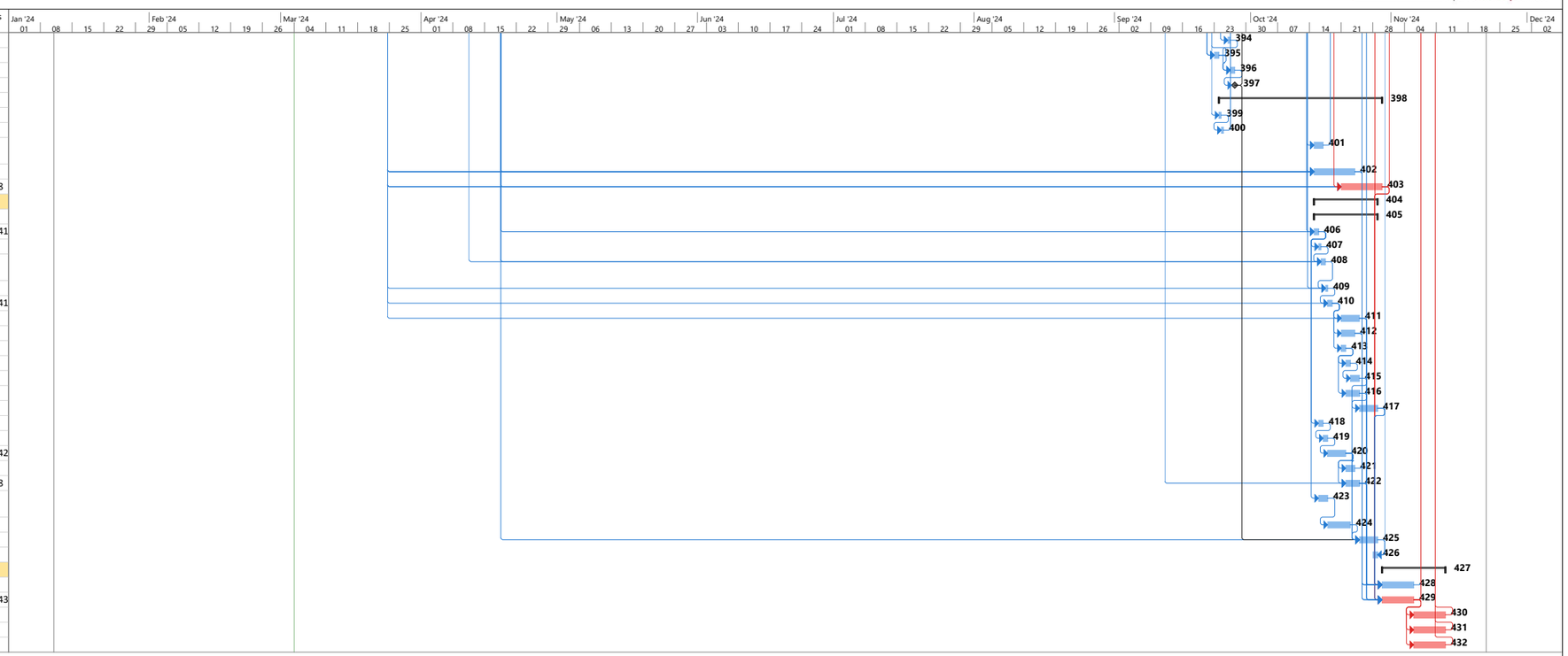
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MILESTONE INFRASTRUCTURE
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ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Successors
394		SWD 3.000	0.5 days	Thu 26/09/24	Thu 26/09/24	393	396
395		MH 01A	1 day	Mon 23/09/24	Mon 23/09/24	313,389	396,390
396		MH 01B	1 day	Thu 26/09/24	Fri 27/09/24	395,394	397
397		East Drainage Completion	0 days	Fri 27/09/24	Fri 27/09/24	396	9,425
398		**West**	**26 days**	**Tue 24/09/24**	**Tue 29/10/24**		
399		Gully connection	0.5 days	Tue 24/09/24	Tue 24/09/24	379	400
400		SWD 4.000	0.5 days	Tue 24/09/24	Tue 24/09/24	399	9
401		Remove Temporary walking route - Southwest	2 days	Tue 15/10/24	Wed 16/10/24	385	9
402		Landscape and finishes West	7 days	Tue 15/10/24	Wed 23/10/24	67,69,104,21	429,428
403		Landscape and finishes East	7 days	Mon 21/10/24	Tue 29/10/24	67,69,104,21	9,429,428
404		**Phase 5: New Bridge & Finishes**	**10 days**	**Tue 15/10/24**	**Mon 28/10/24**		
405		**Bridge & Carriageway Installation**	**10 days**	**Tue 15/10/24**	**Mon 28/10/24**		
406		Road Closure (2 weeks)	1 day	Tue 15/10/24	Tue 15/10/24	49,385	407,423,41
407		Remove - Haki staircase	0.5 days	Wed 16/10/24	Wed 16/10/24	406	408
408		Complete plate bearing checks, place crane mat and site crane	1 day	Wed 16/10/24	Thu 17/10/24	407,62,20	409
409		Deliver new bridge and prepare for lifting	0.5 days	Thu 17/10/24	Thu 17/10/24	30,101,408	410
410		Install new bridge into position	1 day	Fri 18/10/24	Fri 18/10/24	409,102	412,413,41
411		Install Parapet and Guardrails	4 days	Mon 21/10/24	Thu 24/10/24	410,65	429,428
412		Apply Anti-Graffiti	3 days	Mon 21/10/24	Wed 23/10/24	410	429,428
413		Excavate and remove footpath surface - Ea	1 day	Mon 21/10/24	Mon 21/10/24	410	414,416
414		Excavate and install edging - East	1 day	Tue 22/10/24	Tue 22/10/24	413	415
415		Excavate and install kerb - East	2 days	Wed 23/10/24	Thu 24/10/24	414	425
416		Install Street Level Railing - East	3 days	Tue 22/10/24	Thu 24/10/24	413	417
417		Install concrete slab - East	2 days	Fri 25/10/24	Mon 28/10/24	416	429,428
418		Excavate and remove footpath surface - W	1 day	Wed 16/10/24	Wed 16/10/24	406	419
419		Excavate and install edging - West	1 day	Thu 17/10/24	Thu 17/10/24	418	420
420		Excavate and install kerb - West	2 days	Fri 18/10/24	Mon 21/10/24	419	425,421,42
421		Install concrete slab - West	2 days	Tue 22/10/24	Wed 23/10/24	420	9
422		Install Street Level Railing - West	3 days	Tue 22/10/24	Thu 24/10/24	262,420	9,429,428
423		Break out existing raised table to construction depth - West	2 days	Wed 16/10/24	Thu 17/10/24	406	424
424		Construct raised table in line with sk-06 - V	3 days	Fri 18/10/24	Tue 22/10/24	423	425
425		Planing and surfacing	2 days	Fri 25/10/24	Mon 28/10/24	420,22,415,4	426FF
426		Line marking and signage to carriageway	1 day	Mon 28/10/24	Mon 28/10/24	425FF	9
427		**Close Out & Demob**	**10 days**	**Wed 30/10/24**	**Tue 12/11/24**		
428		Demob	5 days	Wed 30/10/24	Tue 05/11/24	402,403,422,	9
429		Handover	5 days	Wed 30/10/24	Tue 05/11/24	402,403,422,	430,431,43
430		H&S Files	5 days	Wed 06/11/24	Tue 12/11/24	429	9
431		Quality Assurance File	5 days	Wed 06/11/24	Tue 12/11/24	429	9
432		As Built Drawings	5 days	Wed 06/11/24	Tue 12/11/24	429	9



Project: Stanhope Bridge Tende
Date: Mon 04/03/24

Task | Milestone | Project Summary | Inactive Milestone | Manual Task | Manual Summary Rollup | Start-only | External Tasks | Deadline | Critical Split | Manual Progress
Split | Summary | Inactive Task | Inactive Summary | Duration-only | Manual Summary | Finish-only | External Milestone | Critical | Progress

MILESTONE INFRASTRUCTURE

A part of MGroupServices

IT STARTS WITH ME

Stanhope Footbridge Replacement

Introduction & Sequencing

Introduction: Stanhope Rd - Google Maps

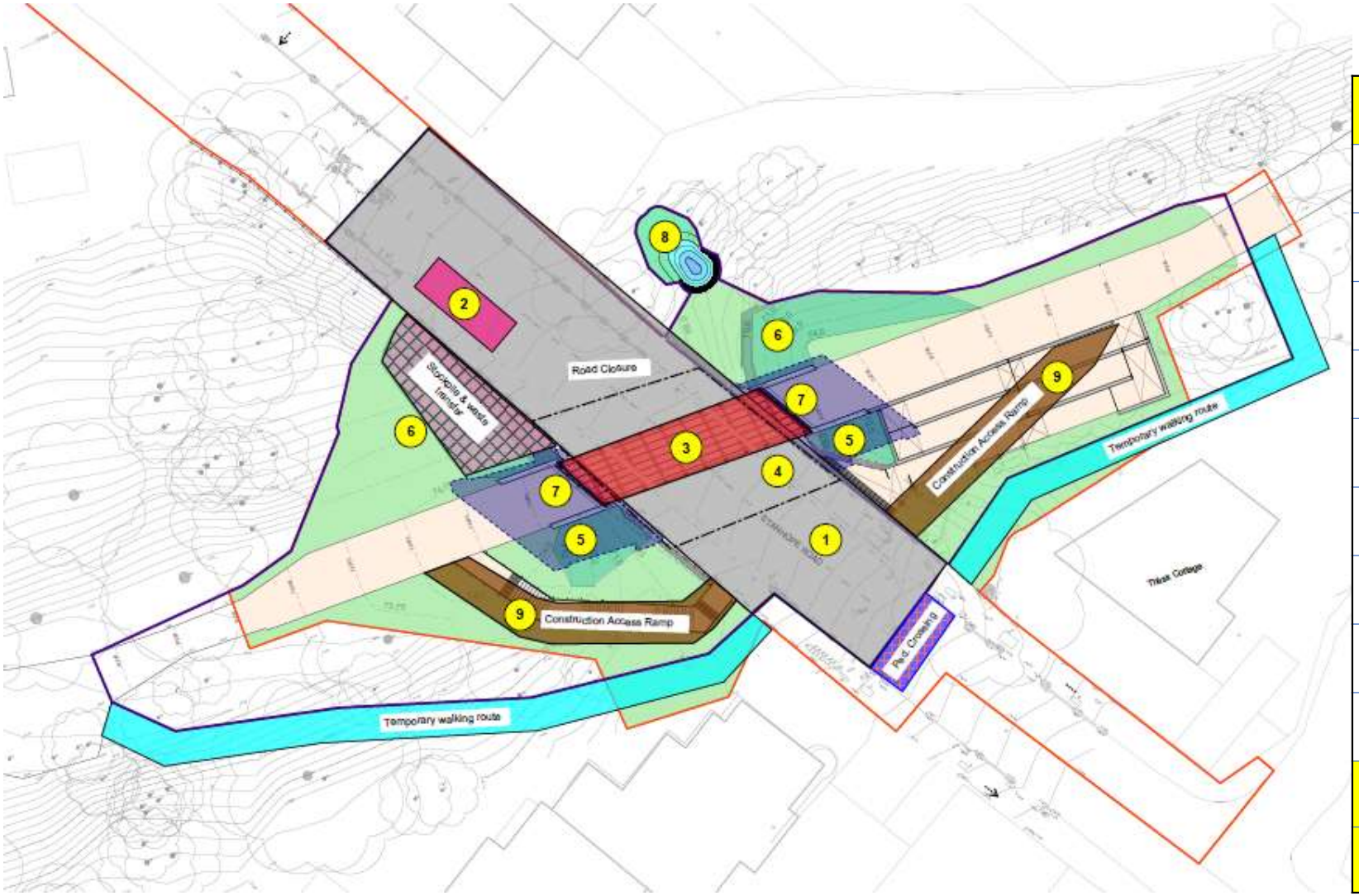


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Phase 1: Site Establishment	
1	Site Establishment
2	Env. Monitoring Stations
3	Surveys (Dilap, Demo, Utility, Env.)
4	TM - Half-road closure
5	De-vegetation
6	Temp Walkways
7	Site Fencing
8	Pedestrian Crossing
6 Weeks	
1/2 Road Closure	

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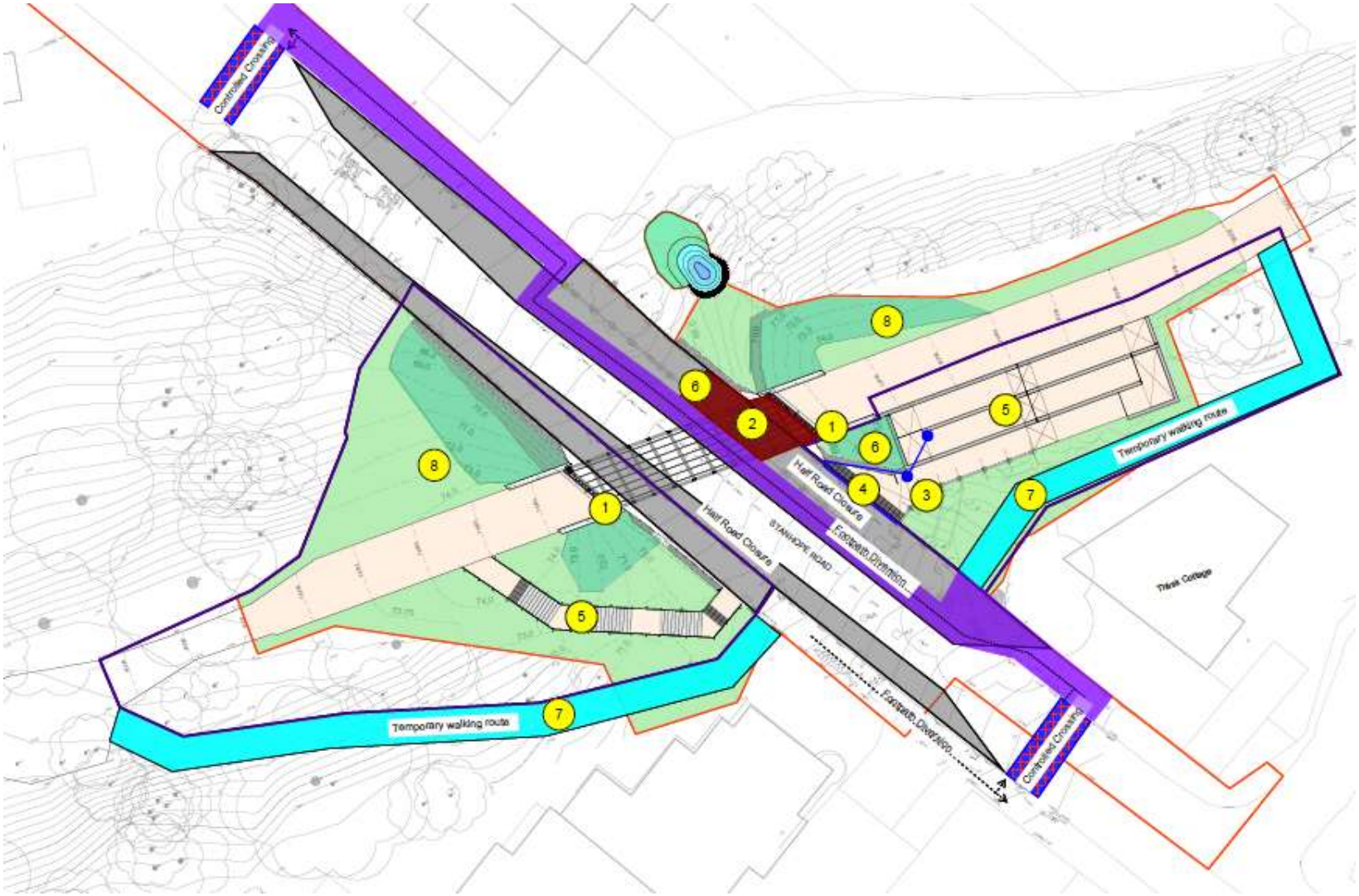
Phase 2: 6-Week Closure	
1	TM - Close Road
2	Wheel-wash
3	Close Footbridge
4	Protection Deck & Bridge Removal
5	Demo Abutments
6	Topsoil strip & Earthworks excavation
7	Install 18no. CFA Piles
8	Excavate Pond Area
9	Construction Access Ramps
6 Weeks	
Full Road Closure	

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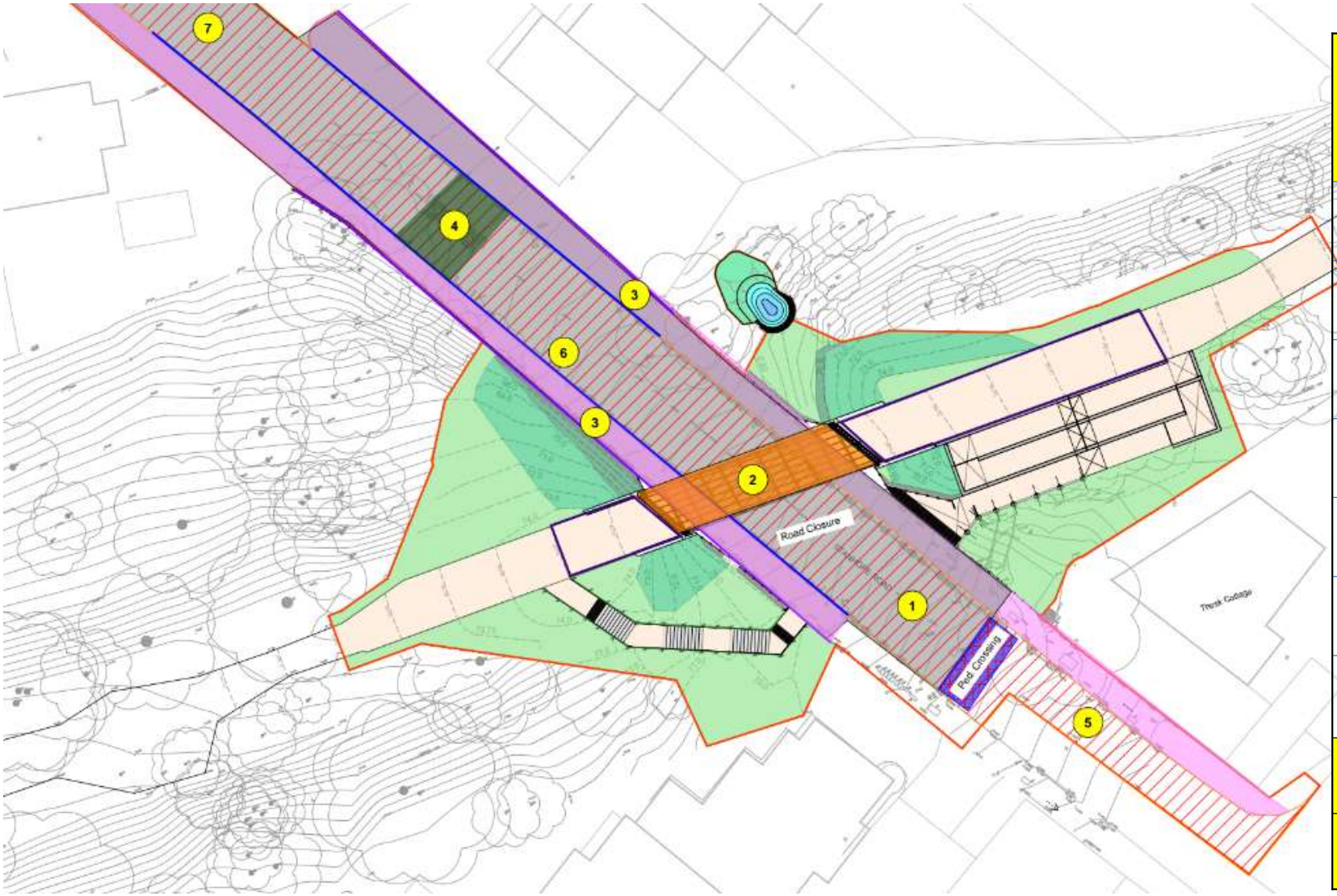
Phase 3: Abutment Construction	
1	TM - Half-road closure
2	Install Piles & Pilecap
3	Construct Abutments
4	Drainage & Fill
5	Reinforced Earthworks (NW, NE & SW)
10 Weeks	
1/2 Road Closure	

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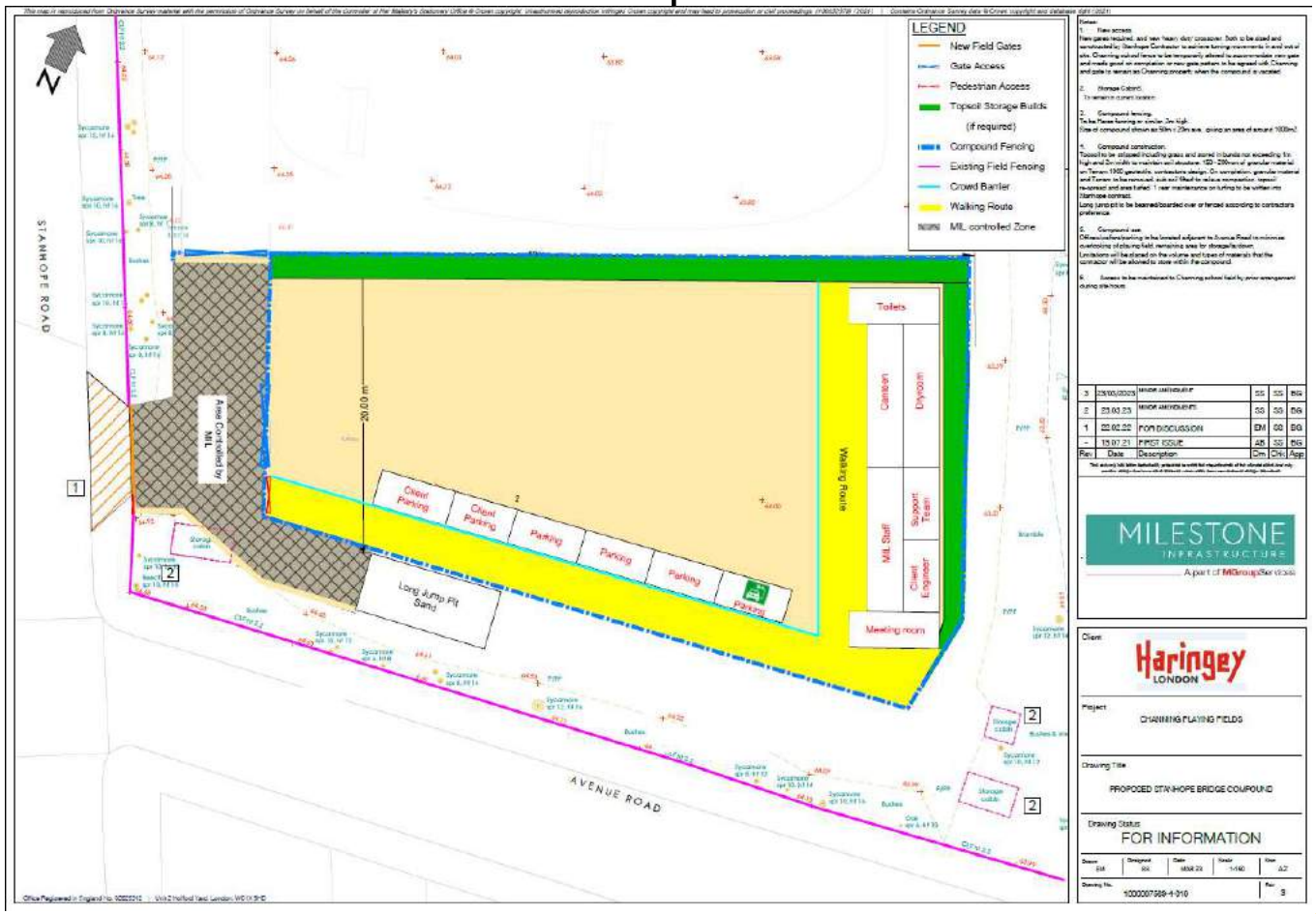
Phase 4: Permanent Access	
1	Bridge Bearings
2	Haki Staircase (might be required depending on temp walkway design)
3	Kingpost Wall
4	Drainage
5	Permanent Steps and Ramp
6	Reinforced Earthworks (SE)
7	Remove temporary access
8	Landscaping
10 Weeks	
1/2 Road Closure	

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Phase 5: New Bridge & Finishes (3-week Closure)	
1	TM - Close Road
2	Install new bridge
3	Reconstruct Footways
4	Reconstruct Raised Table
5	Surfacing
6	Line-marking & Finishes
7	Demobilise and Open Road
2 Weeks	
Full Road Closure	

Site Compound





Stanhope Road Bridge

Construction Environmental Management Plan (CEMP)

Project Name	Stanhope Road Bridge		
Project Start Date	February 2024		
Project Duration	39 weeks		
Prepared By	Amy Redpath Senior Environmental Advisor	Sign: 	Date: 07/02/2024
Reviewed By	Angiolina Albertini Environmental Manager	Sign: 	Date: 07/02/2024
Approved By (Document holder)	Hassan Soboh Senior Project Manager	Sign: Hassan Soboh	Date: 01/03/2024

Revision Table

Revision	Summary of Changes Made	Revision By	Revision Date:
01	Initial Draft	Amy Redpath	07/02/2024
02	First Revision	Amy Redpath	01/03/2024

List of Appendices

Appendix	Description	Required Y/N
A	Compound Layout Plan	Y
B	Landscape General Arrangement	Y
C	Compound Fuel and Waste Map	Y
D	Refuelling Plan	Y
E	Aspects and Impacts Register (separate document)	Y
F	Environmental Emergency Response Plan (separate document)	Y
G	Permits and Consents Register (separate document)	Y
H	Site Waste Management Plan (separate document)	Y
I	Sampling and Analysis Plan (separate document)	Y

List of Supporting Documentation

Document Reference	Description	Location
70077287-WSP-GEN-B-RP-LE-0003 AUGUST 2021	Stanhope Road Bridge Preliminary Ecological Appraisal	To be added to Procore (MIL document filing system) once final version has been approved.
70077287-WSP-GEN-B-RP-LE-0007 SEPTEMBER 2021	Stanhope Road Bridge Detailed Arboricultural Report	
70085596-WSP-GEN-B-RP-LE-0009 APRIL 2023	Stanhope Bridge Landscape Maintenance & Management Plan	
70077287-WSP-GEN-B-RP-LE-0005 SEPTEMBER 2021	Stanhope Road Bridge – Outline Construction Management Plan	
P11633-22-R1	Stanhope Road, Hornsey - UXO Desk Study & Risk Assessment	

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Appendix I – Sampling and Analysis Plan....40
Appendix J – Materials Management Plan.... Error! Bookmark not defined.
Appendix K – Carbon Reduction Plan.... Error! Bookmark not defined.

1.0 Summary Key Environmental Aspects

Stanhope Bridge makes up one of the ten footbridges along the Parkland Walk; a disused railway line between Finsbury Park and Highgate. The existing bridge structure has been deemed unfit for purpose and structural interventions are currently providing additional support to the bridge deck. Initial feasibility studies completed by the client; London Borough of Haringey, determined that it was not commercially viable to repair the existing structure and therefore this project is to construct a new bridge which shall be used for cyclists and pedestrians. The works shall include:

- Compound establishment (Channing School playing pitch)
- Diversion of pedestrians onto two temporary footways to allow for the Parkland Walk to always remain open
- Protection of all retained trees
- Vegetation clearance
- Management of all surface water by installing new drainage
- Demolition of bridge, including deck removal, and abutment removals down to proposed foundation
- The construction of the new bridge including reinforced earth slopes to link into the existing Parkland Walk
- Replacement of the existing access (steps) on the southeast section of the site with ramp access.
- Creation of a new permanent footway to the southwest of the bridge
- Landscaping across the site including the construction of the pond, dead hedging, and hedge and grassland creation.

The key environmental risks on the project are:

- Root Protection Areas are considered and protected at all times in line with the Arboriculture Method Statement (70077287-WSP-GEN-B-RP-LE-0007 SEPTEMBER 2021).
- Vegetation clearance on both the west and eastern elevations of the bridge to allow for the creation of temporary access routes for pedestrians and cyclist. This area shall also allow for the movement of plant and for the permanent construction of the access routes. This needs to be completed under an Ecological Watching Brief (EWB) and done in a two phased approach to ensure any herptiles and other protected species are not harmed by the works.
- Due to the abundance of sensitive local receptors, noise, dust, and vibration shall be monitored throughout the entirety of the project.
- The Parkland walk is the longest Local Nature Reserve (LNR) in London and is therefore an important feature of the local community. There are several groups that are interested in the development of this project and therefore, care in communication and interaction shall be key to the success of the project.

Several environmental opportunities to reduce carbon and resource use also exist on the project. A carbon reduction plan will be developed separately to this CEMP and will include the following:

- Reuse of bricks and concrete from the existing structure as backfill behind the abutment wall (this is to be including within the Materials Management Plan (MMP) as required)
- Hybrid generator used on site if mains power is not accessible.
- Electric vehicle charging points.
- Electric hand tools.
- Vegetation to be mulched to create temporary footway.
- Large pre-felled trees and bracken to be donated as hibernacula or habitat enhancements along the existing footway to reduce disposal costs.
- Materials to be re-used on site as much as possible

Topic	Summary – Site Specific Controls and Mitigation
Main compound	Good housekeeping practices. Root Protection Areas to be retained. Noise to be kept to a minimum. Noise protection measures to be used around plant/equipment, for example sound barriers to be installed around generators/disc cutters.
Vehicles and deliveries	Care for timings and routes to avoid commuting/school hours. Wheel washing facilities in use to mitigate pollution of the live carriageway
Community liaison	Signage for work progress to be regularly updated
Air Quality & Dust	Dust monitoring to be completed throughout the duration of works. Dust suppression and best practices shall be utilised to ensure no negative impact on local residents or landscape.
Cultural Heritage	Some existing structural elements to be retained and reused during the works such as fencing and LNR plaque.
Ecology & Biodiversity	Tree Protections Areas agreed to prior to works commencing with project arboriculturist. Vegetation clearance to be completed using two phase approach under an EWB. Cleared areas are to be covered with appropriate sheeting to suppress regrowth. Project Ecologist to attend site prior to works beginning to ensure no new live badger sets and all project team members understand the ecological risks on site
Noise & Nuisance	Noise and vibration monitoring to be utilised. Noise barriers/acoustic hording to be used between temporary footway and works. Work to set hours as outlined in section 10.4
Water Management & Pollution Prevention	Best practices followed to prevent contamination of drainage and soft standing. Introduction of wheel-washing facility during demolition works to mitigate pollution to the live carriageway. The effluent is to be captured and transported off site for disposal at a correctly licenced facility. Lined skip used for all concrete washout and disposed of in a correctly licenced facility.
Waste & Materials	Stockpiles to be kept to a minimum. Asphalt and soil & stone to be sampled prior to works beginning. Closed skips for general waste. Topsoil to be retained and the stockpile to be covered with a permeable geotextile

2.0 Introduction

1.1 Aim of the Environmental Management Plan

Milestone recognises the importance of Environmental Management and the provision of information, instruction, and training in achieving and maintaining a high standard of environmental awareness amongst its employees and subcontractors throughout the duration of works.
To this end Milestone has developed Environmental Management Procedures and gained ISO 14001: 2015 accreditation.

This Construction Environmental Management Plan (CEMP) forms part of the Environmental Management System (EMS) for the Milestone Projects Sector and provides information on how the EMS can be used to adequately manage environmental risks on the project in line with Compliance Obligations including licences and consents, the needs of the parent company (M Group Services), and the needs of the client.

The objectives of the EMS are to:

- Minimise adverse effects of the environment

- Promote good standards of environmental awareness
- Enhance environmental performance
- Maximise the efficient use of energy, fuel, and natural resources
- Minimise carbon emissions resulting from the works
- Develop environmental competence and awareness amongst site personnel at all levels
- Establish roles and responsibilities for environmental management
- Prevent nuisance to the community and avoid harm to the environment
- Implement a policy of reuse of waste, with disposal off site being a last resort
- Enable compliance to be maintained with all compliance obligations, including legal, interested parties, and the requirements of 14001
- Highlight and communicate key environmental constraints

This Plan will govern Milestone's approach to environmental management for this Project and any additional environmental objectives and targets as outlined by the Client. The controls detailed within this plan are to be carried out in conjunction with the applicable Environmental Control Procedures detailed within the Milestone Integrated Management System (MIMS), project licences, conditions, and method statements to ensure that environmental management is addressed and rigorously incorporated in all decision making.

This Plan will extend through the entire life of the project providing a transparent and verifiable audit trail for sustainable strategies and solutions, and will provide a culture of environmental responsibility, self-regulation, and encourage sustainability.

All suppliers or consultants providing a product or service are required to provide evidence to show how they will control any environmental aspects that may arise from their works, e.g., within a method statement.

1.2 Success Factors

The success of an Environmental Management System is dependent on commitment from all levels and functions of an organisation. Top management are responsible for ensuring that the system outlined in this CEMP is effectively integrated into business processes, strategic direction and decision making.

1.3 Plan, Do, Check, Act model

Continual improvement on this Project is promoted by applying the Plan-Do-Check-Act model to the EMS. This is briefly outlined below:

- Plan – Establish environmental objectives and processes necessary to deliver results in accordance with the Environmental Policy
- Do – Implement the processes as planned
- Check – Monitor and measure processes against the Environmental Policy and Objectives, and report the results
- Act – take actions to continually improve

1.4 Interested Parties

A number of internal and external factors can affect the ability to achieve the intended outcomes of the EMS. A list of Interested Parties and their requirements from an environmental perspective have been identified for this Project. Where needs and expectations become Compliance Obligations, they will be added to the Project Compliance Obligations Register.

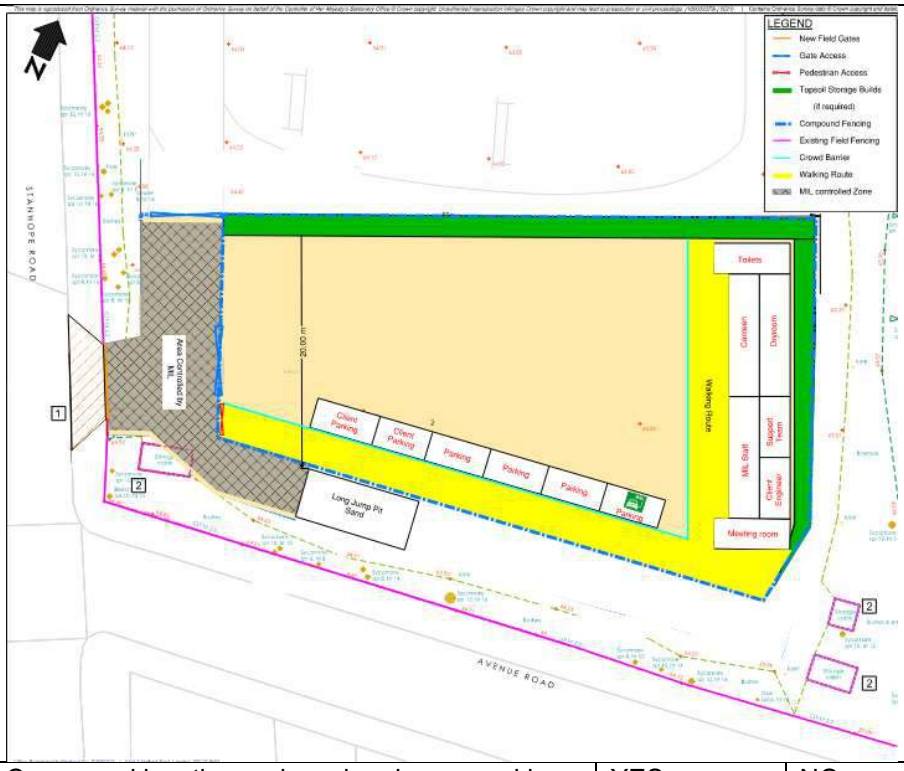
The Project Manager is responsible for liaising with the main stakeholders which includes but is not limited to the following interested parties:

- London Borough of Haringey,
- M Group Services
- Local Environmental Health Officers
- Local Heritage Officer
- Local Arboricultural Officer
- Local Ecologist
- Local Residents
- Road users, pedestrians, and cyclists
- Local Commercial Properties
- Landowners
- Environment Agency
- Natural England
- Friends of the Parkland Walk
- Channing School
- STATs- Thames Water, UKPN, Cadent, Virgin Media

2.0 Project Details

2.1 Site Location

Location	Parkland Walk, London N6 5NB
Grid reference	TQ 29347 87833
Compound location	As shown in Figure 1 below, the compound area is approximately 100m north of the site within Channing School playing pitch. Within this compound, welfare space (canteen / dryroom), single storey offices for MIL + client, toilet/showers, space for four carparks, topsoil bund, and material storage shall be required. Basic layout of the compound can be seen in Figure 2 below. *Figure 1: Location of compound area*  *Figure 2: Layout of compound area*



	Compound location reviewed and approved by Environment Team	YES ☒	NO ☐

2.2 Proposed Works

Description of works	The works shall include: • Compound establishment (Channing School playing pitch) • Diversion of pedestrians onto two temporary footways to allow for the Parkland Walk to always remain open • Protection of all retained trees • Vegetation clearance • Management of all surface water by installing new drainage • Demolition of bridge, including deck removal, and abutment removals down to proposed foundation • The construction of the new bridge including reinforced earth slopes to link into the existing Parkland Walk • Replacement of the existing access (steps) on the southeast section of the site with ramp access. • Creation of a new permanent footway to the southwest of the bridge • Landscaping across the site including the construction of the pond, dead hedging, and hedge and grassland creation. • Site demobilisation.

2.3 Work phases

The project is broken down into five main phases of work as shown below, alongside the main areas of environmental focus for each phase. For further information on the phases,

refer to the Construction Phase Plan (CPP) and works programme. The areas of environmental risk are described in more detail in section 10 of this document.

Phase	Brief work description	Environmental focus areas
Phase 1	Site Establishment Env. Monitoring Stations to be set out Surveys completed (Dilap, Demo, Utility, Env.) TM - Half-road closure De-vegetation of temporary footways Temp walkways Erect site fencing Pedestrian crossing	• Protection of reptiles and other protected species during vegetation clearance. • Noise from tools impacting local environment • Root Protection Areas retained at all times
Phase 2	TM - Close road Set up wheel-wash facility Close footbridge Protection deck & bridge removal Demolish abutments Topsoil strip & earthworks excavation Install piles Excavate pond area Construct access ramps	• Noise from demolition impacting local environment • Waste management including possible hazardous waste (soil and stones, bituminous waste containing coal tar) • Unexpected finds • Dust from demolition and ground works • Spill and pollution from plant and vehicles • Root Protection Areas retained at all times
Phase 3	TM - Half-road closure Install piles & pilecap Construct abutments Drainage & backfill Reinforced earthworks (NW, NE & SW)	• Noise from demolition impacting local environment • Vibration from piling impacting local environment • Dust from demolition and ground works • Spill and pollution from plant and vehicles • Root Protection Areas retained at all times
Phase 4	Add bridge bearings Kingpost wall to be constructed Drainage Permanent steps and ramp Reinforced Earthworks (SE) Remove temporary access Landscaping	• Noise from demolition impacting local environment • Vibration from piling impacting local environment • Dust from demolition and ground works • Spill and pollution from plant and vehicles • Root Protection Areas retained at all times • Landscaping completed at the correct time to ensure success
Phase 5	TM - Close road Install new bridge Reconstruct footways Reconstruct raised table Surfacing Line-marking & finishes Demobilise and open road	• Noise from demolition impacting local environment • Vibration from piling impacting local environment • Dust from demolition and ground works • Spill and pollution from plant and vehicles • Root Protection Areas retained at all times

2.4 Plant and Machinery used

Below is an approximate list of plant and machinery to be utilised during the works. Where applicable, these shall be registered for London's 'Low Emission Zone' for Non-Road Mobile Machinery (NRMM) (https://www.london.gov.uk/programmes-and-strategies/environment-and-climate-change/pollution-and-air-quality/nrmm):

Plant	Size	Number
Excavator	5T	1
	34T	1
	22T	1
	14T	1
Dumper	3T	1
	9T	1
	6T	1
Forklift	N/A	1
Roller	TBC	1
Crane	200-300T	1

2.5 Project duration

Activity	Start date	Completion
Mobilisation	19/02/2024	01/03/2024
Main works	03/04/2024	18/11/2024

2.6 Working Hours

Monday-Friday	0800 – 1800
Saturday	0800 - 1300
Sunday & Public Holidays	N/A
Night Working	N/A

2.7 Key Project Contacts

Milestone	Senior Contracts Manager	Alan Babbage	07817 933067
	Senior Project Manager	Hassan Soboh	07817 262454
	Site Agent	Ryan Carley	07811 581072
	Senior Environmental Advisor	Amy Redpath	07526 193951
	Health, Safety and Wellbeing Advisor / Manager	Kenny MacKellar	07594512088
	Community Relations Officer		
Client	Client Manager	Alex Rogers	07588 03 99 68
	Senior Site Supervisor	TBC	
	County Arboriculturist	TBC	
Supply Chain	Ecological Clerk of Works	TBC	
	Specialist Emergency Response	Adler and Allan	0800 592 827
	Environment Agency	Herts and North London	
Regulators		24-hour hotline	0800 807 060
		Non-emergency enquiries	08708 506 506
	Natural England	TBC	

	Local Authorities	Haringey London Borough Council	020 8489 1000

3.0 Leadership Roles and Responsibilities

3.1 Leadership

Top Management, for the purposes of this CEMP, shall include the Project Manager, Commercial Manager and Environmental Advisor. They are responsible for demonstrating leadership and commitment to the EMS by:

Commitment	Action
Taking accountability for the effectiveness of the Environment Management System	• Responsibility for Significant Aspects and Impacts (see separate Appendix E) • Monitoring and checking EMS during site inspections • Reviewing EMS at Monthly Business Review meeting
Ensuring that the Environmental Policy and Environmental Objectives are established and are compatible with the strategic direction and context of the organisation	• Including Environment as a strategic focus in the Business Plan • Assisting with communication of Policies and objectives • Reviewing EMS at Monthly review meetings • Ensuring Environmental matters are considered in decision making
Ensuring the integration of the Environment Management System requirements into the organisations business processes	• Responsibility for Significant Aspects and Impacts (see separate Appendix E) • Monitoring and checking EMS during site inspections • Reviewing EMS at Monthly Business Review meeting
Ensuring that the resources needed for the Environment Management System achieves its intended outcomes	• Environmental resources to be reviewed monthly at the Monthly review meetings • Environmental resources considered during the bid and planning stages
Directing and supporting persons to contribute to the effectiveness of the Environment Management System	• Ensuring mandatory environmental training is completed • Ensuring adequate resources are available
Promoting continual improvement	• Driving and sharing best practice with other business units • Reviewing continual improvement at Monthly review meetings
Supporting other relevant management roles to demonstrate their leadership as it applies to their areas of responsibility	• Responsibility for Significant Aspects and Impacts (see separate Appendix E) • Monitoring and checking EMS during site inspections • Reviewing EMS at Monthly review meetings

3.2 Milestone Infrastructure Ltd Environmental Policy

Milestone's Environment Policy Statement is managed issued and updated by the Head of Sustainability. The Environment Policy Statement shall be communicated to employees working for or on behalf of Milestone Infrastructure Ltd. A copy of the Policy Statement can be viewed on the MIMS system. Alternatively, a copy can also be viewed on Environment, Health and Safety (EHS) noticeboards and a reference to the policy is included in the visitors induction pack.

3.3 Roles and Responsibilities

Clear definition and communication of environmental roles and responsibilities are required to facilitate effective environmental management.

It is essential that all disciplines and functions work as an integrated team during design and construction to enable compliance with this CEMP, contractual requirements and relevant legislation.

All Milestone employees are responsible for supporting the EMS which is embedded into MIMS and accredited to ISO 14001: 2015. Specific environmental roles and responsibilities are detailed within this section.

Role	Key Responsibilities
Project Manager	• Overall senior management responsibility for the Environmental Management System (EMS) • Ensuring compliance with the principles of ISO 14001 is implemented across the Business • Providing adequate resources to implement the EMS effectively
Commercial Manager / Quantity Surveyor	• Compliance with Milestone's Sustainable Procurement Policy • Ensuring compliance with the Milestone Restricted Materials Register • Communicating Milestone policies such as The Sustainable Procurement and Environmental Policies to the supply chain during pre-start meetings • Requesting pre-construction information at bid stage • Considering environmental resource at bid stage
Construction Manager and Supervisors	• Ensuring the requirements of MIMS are delivered via this CEMP and that environmental control measures are actioned appropriately • Ensuring compliance with the CEMP • Implementing relevant MIMS Environmental Procedures on site • Complying with the requirements of this CEMP and briefing it to Milestone employees or those working on behalf of Milestone • Managing sub-contractor and supply chain environmental performance • Reporting performance for Environmental KPI's on a monthly basis • Obtaining and recording Duty of Care information • Training Milestone staff or sub-contractors • Applying for licences and legal consents and ensure that the conditions of such consents are adhered to • Ensuring that their area of works is managed in accordance with the principles of good environmental practice
Environmental Advisor / Manager	• Responsible for the day-to-day co-ordination of the EMS • Checking that all licences and legal consents are obtained and that the conditions of such consents are adhered to • Reviewing environmental information in plans and documents • Reporting information relating to environmental objectives and targets • Undertaking internal environmental audits • Delivering training, awareness and assessing competence • Reviewing non-conformances and ensuring corrective and preventative actions are completed • Assisting with emergency preparedness and emergency response • Identifying significant environmental aspects and impacts • Providing advice, support, and assistance to all Project personnel to enable them to manage their environmental and sustainability responsibilities
Ecological Clerk of Works Aboriculturalist	• Oversee the works and any ecological and Arboricultural mitigation in accordance with the CEMP, Ecological Assessment and supporting documentation listed at the start of this document. Ecologist must be suitably experienced and a member of CIEEM • Ensure adherence to the required working methodology and site monitoring requirements as specified by permits and consents • Ensure compliance with any applicable wildlife legislation

All Employees	• Familiarise themselves with the Environmental Policy • Co-operate with the company in fulfilling its compliance obligations • Co-operate with the company to prevent pollution • Conform to requirements of this CEMP • Monitor their workplace for potential threats to the environment

4.0 Planning

4.1 Environmental Aspects and Impacts (see Appendix E for full register)

An **Environmental Aspect** is defined as an element of the project that can interact with the environment. A significant environmental aspect is an environmental aspect that has, or can have, a significant environmental impact.

An **Environmental Impact** is defined as any change to the environment, whether adverse or beneficial, resulting from an aspect of the project.

An **Environmental Risk** is defined as a change to the environment which has potential adverse effects.

An **Environmental Opportunity** is defined as a change to the environment which has potential beneficial effects.

The Aspects and Impacts Register shall be updated following a significant change in risk to the environment from activities related to this Project as determined by the Environment Advisor/Manager and Project Manager. This will also include reviews triggered by changes to compliance obligations associated with work activities. An annual review of the register will also be undertaken as part of the annual management review of the EMS.

The Aspects and Impacts Register is available on the projects shared drive.

4.2 Compliance Obligations

Milestone Infrastructure maintains a Legal Register which details all legal and other legislative requirements applicable to the environmental aspects and impacts of the company's activities. This register is regularly reviewed by the Head of Sustainability and updated by the Legislation Update Service, The Compliance People.

The environment advisor is responsible for disseminating relevant new information to the contract team via:

- Emailing an update
- Discussion at monthly contract meetings
- Discussion at the annual Management Review

Non-legal obligations will be communicated in the same manner. Current non-legal environmental obligations on this project include:

Requirement	Owner
Retain existing highway boundary fencing	Site Agent
Retain Local Nature Reserve plaque	Site Agent
Works are to comply with the relevant recommendations for construction phase outlined in the Preliminary Ecological Appraisal (Aug 2021)	Site Agent

4.3 Environmental Authorisations, Permits and Consents

Projects, sites, or individual works packages may require environmental authorisations, permits or consents to operate. This is determined based on the scope of works and any pre-construction information.

Compliance with the conditions of Environmental Authorisations, Permits and Consents is to be assessed during site inspections and audits.

The Permits and Consents Register for this contract is a live document that should be updated following the attainment of any new authorisations, permits or consents. The Environmental Manager is responsible for reviewing this document to ensure it is updated and check for any impending renewals.

Below is a list of potential permits & consents required for the project works, details of these will be contained within the live Permits and Consents Register once applied for:

- Section 61 – not required currently but is being looked into for the potential crushing activity

5.0 Environmental Objectives and Targets

5.1 Milestone Objectives and Targets

Milestone have Environmental Objectives and Targets which are reported to M Group Services.

The Site Agent is responsible for reporting data to the Environment Advisor on a monthly basis, including (where applicable) electricity readings, fuel consumption, water consumption, environmental incidents, materials use, waste tonnages and recycling rates. The Environmental Advisor/Manager is responsible for reporting this data via the Environment Reporting Hub.

Milestone currently has the following objectives and targets related to the Environmental policy:

KPI	2022 target	Coverage	Data source	Data published
Compliance	Reduce Environmental Incident Frequency Rate <0.2	All contracts	Optimus	Milestone Environmental Reporting Hub
Training	95% of staff to have received mandatory training	All contracts	Training database (MGS)	Env Training Dashboard (MGS)
Circular Economy	98% of waste to be diverted from landfill	All contracts	Waste dashboard	Milestone Environmental Reporting Hub
	30,000tt of materials recycled via permits	All contracts	Permit data	Milestone Environmental Reporting Hub
Carbon	10% reduction in carbon intensity	All contracts	Oracle data	Carbon Dashboard

5.2 Client or Contractual Targets

Project environmental performance will be reported and discussed at the monthly progress meeting with the client. Submission of sustainability metrics to the client shall be implemented as agreed. The following data will be available to report on a monthly basis:

- HVO (litres used and CO2e).
- Water use.
- Electricity use (kWh).

6.0 Support

6.1 Resources

Top Management are responsible for the provision of appropriate resources to establish, implement, maintain, and continually improve the EMS. Resources and requirements are discussed monthly at the Project Management meeting.

6.2 Competence and Training

Training is an essential part of MIMS. It is vital that all personnel are aware of their responsibilities under law, the Project and MIMS. Any person performing tasks for or on behalf of Milestone that have the potential to cause significant environmental impacts must be adequately trained and deemed competent by site management. Training will be assessed on the basis of appropriate education, training or experience and documented in the Business Training Matrix.

All Milestone staff with responsibilities for on-site work activities will attend the Milestone Environmental Training Scheme (METS). The training takes approximately four hours and provides an overview of key Environmental considerations, legislation, and Environmental Policies and Procedures. The Environment Advisor/Manager shall be responsible for organising and delivering environmental training.

Attendance at training briefs/induction will be recorded in writing and the records held centrally by the Site Manager. At the start of the Project the Site Manager will review training requirements of site staff and operatives and any training identified will be arranged.

Environmental issues for the attention of subcontractors shall be communicated in a variety of methods, including environmental briefings, toolbox talks and information on site notice boards.

6.3 Awareness

The Project Management Team are responsible for ensuring that persons doing work under Milestone's control are aware of:

- The Environmental Policy
- The significant environmental aspects and impacts associated with their work
- Their contribution and the effectiveness of the EMS
- The implications of not conforming with the EMS requirements, including not fulfilling the Compliance Obligations such as the requirements of any consents, licenses or relevant legislation (see Appendix G).

Site specific environmental constraints will be identified during the site induction and included in TBTs and daily briefings. Specific environmental/ecological risks will be managed through targeted TBTs and briefings when relevant to the construction works. TBTS will be issued monthly. Hold points will be identified within the construction programme where environmental briefings or supervision is required.

Attendance at training briefs/induction will be recorded in writing and the records held centrally by the Site Manager. At the start of the Project the Site Manager will review training requirements of site staff and operatives and any training identified will be arranged.

Environmental issues for the attention of subcontractors shall be communicated in a variety of methods, including environmental briefings, toolbox talks and information on site notice boards.

6.4 Communication

6.4.1 General

The Environmental Advisor is responsible for internal communication with regards to the EMS.

Communications will primarily be delivered at the weekly Project Review Meetings. Senior Management are responsible for responding to relevant communications on the EMS and retaining documented information as evidence of communications as appropriate.

Any consultation with relevant Statutory Environmental Bodies and other interested parties shall be identified and undertaken as determined by the relevant MIMS Environmental Procedure.

6.4.2 Internal Communications

Information relating to the Environmental Management System will be communicated internally to the various levels and functions of the business via routes including but not exclusive to:

- Project progress meetings
- Client meetings
- Site Tours

6.4.3 External Communications

Information relating to the EMS will be communicated externally to interested parties via routes including but not exclusive to:

- Project Review meetings
- Environmental reporting
- Newsletters and external communications as appropriate

6.5 Documentation and Document Control

The EMS determines the documentation required to ensure the delivery and effectiveness of Milestone's Integrated Management System (MIMS) and the requirements of IS014001.

6.5.1 Creating and Updating Documented Information

All documents required by the EMS shall include a record of the revision status and identify any changes from the previous document within the revision record. All current versions of documents required by the EMS shall be available on the shared drive. Only live active documents shall be published and made available on the shared drive to prevent unintended use of obsolete documents.

6.5.2 Control of Documented Information

Environmental Documentation required for this Project will be included in the Site Folder and held electronically on the shared drive. The Site Manager will ensure that hard copies of all Waste Transfer Notes and Waste Exemptions notices are held on site and forwarded to the Environment Manager and the client as required. The Site Manager will update Milestone's SWMP on a regular basis and ensure that Waste Carrier Licence details and checks on tipping facilities are completed to ensure legal compliance.

7.0 Operation

7.1 Operational Planning and Control

Procedural environmental controls are considered during the activity planning phase, or where applicable during the design phase. Communication of requirements is achieved via relevant

environmental documentation such as Construction Environmental Management Plan (CEMPs) and Construction Phase Plan (CPPs).

The environmental processes and procedures applied to this contract are defined in MIMS.

7.2 Emergency Preparedness and Response

An Environment Emergency Response Plan has been produced for this Project. This plan details information on all stores, bulk storage vessels, drums or containers intended for storing oils, chemicals or other potentially polluting materials.

Site staff involved with emergency response will be familiar with and have access to the site plan, information on materials on site and their health, safety and pollution risks, appropriate spill response equipment and training in incident response procedures.
The Site Manager will maintain a record of the equipment and materials on site to deal with pollution incidents, including absorbent materials, drain mats or covers, pipe blockers, booms pumps (as applicable), over drums (as applicable).

All environmental incidents and near misses shall be logged on the Environmental, Health and Safety database known as Optimus. Optimus incident notifications are received via email and a text message on receipt of notification of an incident at the Customer Service Centre (CSC). For Intermediate and Significant incidents, the Environment Advisor/Manager will complete an Environmental Incident Notification (EIN) and forward it for further distribution to the Environment Team and wider business.

The Callout personnel for 24-hour coverage shall be arranged by the Project Manager to take control of and investigate out of hours incidents. The names and contact numbers of these personnel shall be displayed on site and relayed to site personnel during the induction process and are detailed in the Environment Incident Control Plan.

Milestone will consult with relevant stakeholders on the appropriate course of action in the event of:

- A substance has entered a drain or watercourse, soaked into the ground or been released into the atmosphere, ground or water in breach of permit conditions
- An unexpected discovery of protected species or habitats
- An unexpected discovery of archaeological importance

Spill response training will be undertaken within three months of works commencing on site to ensure that the plan is appropriate, and that staff are prepared to deal with an environmental incident.

Major incidents and environmental breaches are to be escalated to a member of Senior Management, usually the Business Director.

8.0 Performance Evaluation

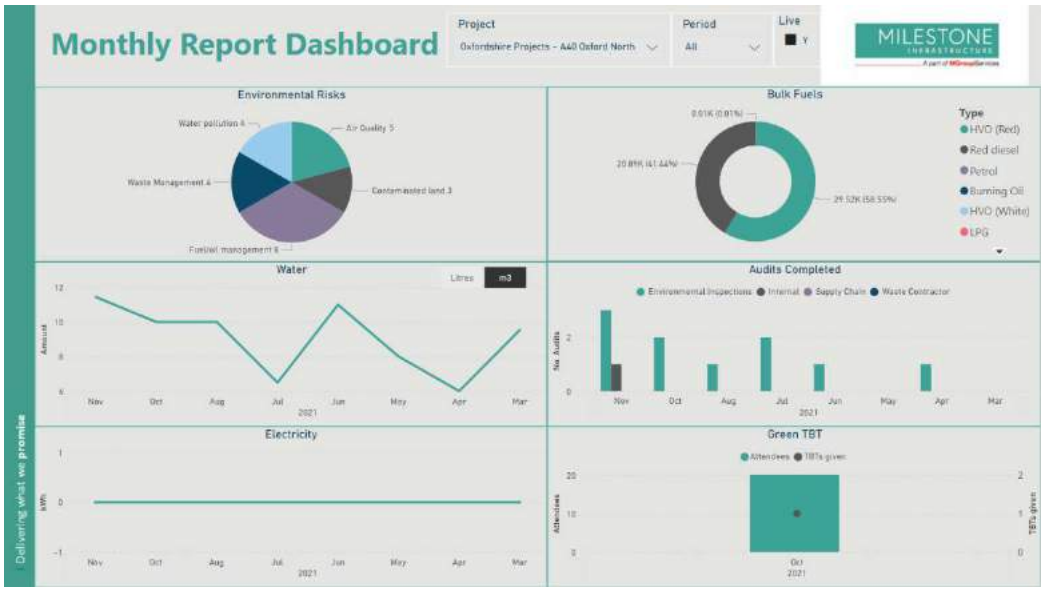
Continuous monitoring of environmental issues and controls on this Project will establish compliance of employees and contractors within the requirements of MIMS, this Environment Management Plan, client requirements and compliance obligations.

8.1 Monitoring, Measuring, Analysis and Evaluation

8.1.1 General

Environmental performance will be measured and reported monthly. Performance measures contribute to the business Objective and Targets. Issues will be reported at a regular SHEQ or operational meeting.

An environmental dashboard similar to the below will be shared with the project and client as required.



8.1.2 Evaluation of Compliance

Milestone shall take periodic evaluations of environmental requirements by completing environmental inspections and audits. Regular inspections will be undertaken by the Site Manager and Environmental Advisor. Any non-conformances will be shared with the site team and client.

8.2 Internal Audit

8.2.1 Internal Audit Programme

The aim of an Environmental Audit is to assess compliance with processes and documentation as set out in the Integrated Management System.

In addition, where local process or documents are in use they will be assessed for suitability. This audit will determine if relevant components of the EMS are implemented and determine whether the requirements of this Environment Management Plan are effective.

Internal ISO 14001 Environmental audits shall be scheduled and undertaken in accordance with the central audit schedule. Records of audits undertaken shall be held electronically. Audits are undertaken by a member of the Milestone Environment Team. All audit reports are to be sent to the Environment Advisor, Site Manager, Project Manager, Business Director and Sustainability Manager. All corrective actions are managed and recorded on the Procore system. Any observations or non-conformances will be actioned in advance of a subsequent audit taking place.

8.2.2 Environmental Inspections

The aim of an Environmental Inspection shall be to assess and inspect environmental compliance. Environmental Inspections are to be undertaken by the Environmental Advisor after project commencement. All inspections should be completed, and findings recorded using the Health Safety Environment Inspection template on Procore.

Any compliance issues identified will be raised and communicated as necessary.

8.2.3 Client Internal Inspection Programme

The Environmental Advisor will complete joint inspections with the client where requested.

8.2.4 Non-conformances and Corrective Actions

Any non-conformances or corrective actions shall be identified through near miss environment reporting, environment incident reporting, environmental inspections, and environmental audits. All non-conformances and corrective actions shall be recorded electronically on the Procore system.

Any required actions shall be appropriate to the scale of the anticipated or actual environmental impact. The Environment Advisor shall determine if change is required to the Business EMS and associated documentation.

The Environment Advisor is responsible for ensuring that the required actions are implemented following a non-conformance or corrective action.

As a minimum any actions raised on the Procore system should:

- Identify the root cause of the issue or non-conformance
- Identify the actions required to mitigate any associated environmental impact (corrective action)
- Identify the actions required to prevent recurrence on the nonconformity (preventative action)
- Identify the person who is responsible for completing the action
- Identify a timeframe for the action to be completed by

The Environment Advisor shall hold responsibility for:

- Raising the non-conformance
- Identifying the root cause
- Identifying any associated environmental impacts
- Identifying any requirements to prevent reoccurrence
- Assigning responsibility for undertaking any identified action
- Identifying an appropriate deadline for undertaking any required action

The results of the inspections and audits will be reported to the Business Manager and any person required to carry out corrective actions.

Any corrective actions recorded must be closed out within the given timeframe. Those items not closed out completely shall be carried forward to the next inspection until they are closed out. If the deficiency persists or is a serious breach, then the Business Director shall be notified directly by the Environmental Advisor/Manager.

8.3 Management Review

The purpose of this review will be to ensure the continuing suitability, adequacy and effectiveness of the Project's EMS, and compliance with the CEMP.

Minutes of Monthly Business Review meetings are to be retained and will record findings from the review process and responsibility for implementing change. The frequency at which the EMS review is held may be increased by the agreement of the Business Director.

9.0 Improvement

9.1 General

Opportunities for environmental improvement will be identified during internal reviews such as audits. Where appropriate this information will be added to the Aspects and Impacts Register.

9.2 Non-conformity and Corrective Actions

Non-conformances will be identified and managed as per Section 8.2.4 above. Any lessons learnt will be shared and evaluated at Sector Monthly Review meetings.

9.3 Continual Improvement

This Project aims to continually improve environmental performance by:

- Driving, trialling, and sharing best practice and innovations
- Implementing goals and targets outlined in the Business Plan

10.0 Detailed Environmental Controls

Note: This section is to be read in conjunction with the Project Aspects and Impacts Register

10.1 Pollution Prevention

Standard Requirements

- All site staff shall receive a toolbox talk on the spill response and incident reporting procedure prior to commencing work onsite.
- Any fuels, oils or hazardous materials will be appropriately stored and kept in bunded areas to prevent pollution of surface and ground waters. Where possible these shall be stored inside to avoid rain increase or on Green Rhino drip trays (https://greenrhinoglobal.com/product/enviropad/) where there is risk to rain ingress which allows rain to run through the nappies but capture any oil and fuels.
- Spill kits will be provided on site for the duration of the works and construction staff trained in their correct application.
- Static plant equipment such as compressors, generators, and tower lights will be equipped with drip trays. Green Rhino drip trays shall be utilised where there is risk to rain ingress i.e.: such as under plant.
- Fuels, oils, materials (hazardous and non-hazardous) or plant shall not be stored closer than 10m from any watercourse or drains.
- No refuelling of any machinery shall take place within 10m of any watercourse or drains.
- In the event of a pollution incident the Environment Agency will be contacted immediately. The EA's 24-hour incident hotline number is: 0800 807060.
- Further information on pollution prevention control can be found in the Environmental Emergency Response Plan.

Project Specific Requirements

Environmental Risk	Controls to be Implemented
Contamination of soft standing	All refuelling shall be completed with the use of a plant nappy.
Plant and on-site vehicles	Where possible electric plant and tools shall be used. Plant will be regularly inspected for leaks and regularly maintained to ensure good condition. All maintenance is to take place off site if possible or only at designated areas in the site compound. Any vehicle or plant that is considered a pollution risk is to be removed from site or repaired on hardstanding and away from drainage.

	Suitably stocked and maintained spill kit on all operational vehicles/plant.
Concrete washout	Waste concrete, slurry, debris or wash water from concrete, cement and breakout activities must not be directly discharged/released, intentionally or unintentionally, into the drainage system on site. Any concrete washout shall be stored in a lined skip and shall wait to go off. This shall then be disposed of at an appropriately licenced facility marine environment.

10.2 Water Pollution & Discharges

Standard Requirements

- Any fuels, oils or hazardous materials will be appropriately stored and kept in bunded areas to prevent pollution of surface and ground waters.
- Spill kits will be provided on site for the duration of the works and construction staff trained in their correct application.
- Static plant equipment such as compressors, generators, and tower lights will be equipped with drip trays.
- No refuelling of any machinery shall take place within 10m of any watercourse or drain.
- Silty water shall be prevented from entering drainage system through silt fences, sandbags or similar features.
- Where concrete is required, this shall be washed-out into a lined skip away from drainage.
- In the event of a pollution incident the Environment Agency will be contacted immediately. The EA's 24-hour incident hotline number is: 0800 807060.

Project Specific Requirements

Environmental Risk	Controls to be Implemented
Drainage	As there are no nearby watercourses, the risk of surface water contamination is negligible. However, care shall be required while working around drainage for more risk adverse activities including wheel washing, dust suppression, and refuelling practices to prevent pollution of nearby drainage. The wheel-washing facility will be used on site within the carriageway to minimise dust and air pollution. The water from this shall need to be captured and transported off site for disposal to a correctly licenced facility. It shall not enter the drainage on site. The drainage system shall be protected at all times to ensure pollution does not enter the system as described in section 10.1. Where applicable, drains shall be protected against surface run-off where substantial rain fall has occurred through drain protectors or localised silt fencing. An example of this is the EnviroHorn Drain Filter from Green Rhino.

10.3 Air Pollution & Dust

The below section sets out mitigation for dust and air quality as part of the Air Quality and Dust Management Plan (AQDMP) for Stanhope Road Bridge. The AQDMP is written in accordance with the Greater London Authority SPG Dust and Emissions Control (2014).

In order to gain a suitable level of understanding of the current conditions on site, a baseline assessment shall be completed using the format of The Mayor of London's 2014 Supplementary Planning Guidance, Control of Dust and Emissions during Construction and Demolition prior to works beginning on site.

The risk of each of the four key sources of dust and air pollution; demolition, earthworks, construction and track out is assessed separately to form a set risk level in which to mitigate for. For each of these areas, there are three separate considerations; annoyance due to dust; harm to ecological receptors; and the risk of health effects due to a significant increase in exposure to PM10. The baseline information is set out within the AQDMP (to follow), with the mitigations per site described within this section of the CEMP.

Standard Requirements

- No fires will be permitted onsite.
- Vehicles and plant will be well maintained and regularly serviced. All vehicles shall comply with MOT emission standards.
- Haul roads shall be damped down where necessary and kept clean of dirt and soils.
- Dust suppression shall be used on cutting, grinding and drilling activities (wetting or vacuum extraction).
- Speed limits shall be used on haul roads.
- Visual monitoring will be carried out on a daily basis.
- Stationary vehicles shall not be left to idle.

Project Specific Requirements

Environmental Risk	Controls to be Implemented
London Air Quality Management Area (AQMA)	The site is located within the London AMQA, the amount of vehicle and plant movement across site is not thought to be high. With the measures outlined below, no negative impacts are anticipated on local air quality. In order to protect local air quality and comply with Policy SI1 of the London Plan and the GLA NRMM LEZ, the site shall be registered at **nrmm.london** prior to works commencing. We shall regularly update details of plant with a net power between 37kW and 560kW on Non-Road Mobile Machinery (NRMM) during the construction period.
Planning and maintaining site	• The AQDMP shall be accessible and effectively communicated to all stakeholders on site. • All relevant stakeholders will undergo appropriate training in line with dust mitigation methods outlines within this document. • Good housekeeping procedures will be implemented and effectively manged to ensure limitation of dust and air pollution. • Controls to mitigate dust and air pollution outlined in this document will be adhered to during the entire projects lifespan. • The works will be planned so that where practicable works causing the largest amount of dust pollution will be completed away from these sensitive receptors. • If visual dust monitoring around the perimeter of the site indicates a problem or the dust monitors are triggered, the contractor will respond as shown below: 1. STOP work and contact Site Agent immediately. 2. Damp down working area before recommencing work.

	3. Review working methods to ensure best practicable means are being used. 4. Review weather forecasts to confirm whether additional control measures are required. 5. Record on Optimus reporting system. All incidents are investigated, and appropriate corrective action taken (see section 7 above).
Monitoring	**Dust monitors** shall be set up in two locations on site near local receptors to monitor dust levels. The monitors shall feed information back to a central location that is accessible to the site team and alert should a high level of dust begin to accumulate – this level shall be determined by the baseline assessment as outlined within the AQDMP. Baseline monitoring shall be completed during site set up which shall be used to compare against during more risky works. For further information this shall be set out within the AQDMP to follow. For the location of environmental stations see Figure 3 below. *Figure 3: Approximate locations of the environmental stations which shall monitor noise, dust and vibration on Stanhope Road Bridge.*  **Visual inspections** across the site shall be completed regularly to ensure no dust deposition what may cause issues under different weather conditions.
Vehicles/plant operations	To limit emissions from construction equipment such as generators where reasonably practicable the use of diesel or petrol powered generators will be reduced by using mains electricity or battery powered equipment. Construction plant will operate aways from sensitive receptors were possible.

	On-site plant should be chosen carefully to avoid plant that are likely to generate excessive quantities of dust. Should this be unavoidable enclosing, shielding or provision of filters will be employed Construction plant and vehicle exhausts should be directed away from the ground and be positioned at a height to facilitate appropriate dispersal of exhaust emissions. Where suited to the vehicle, all non-road mobile machinery will use HVO fuel where possible. Latest machinery models with suitable aftertreatment systems shall be used where appropriate. The site team shall liaise with appropriate contractors on site to discuss: • Transportation of waste and material on and off the site to minimise the storage and transport periods if dust is accumulating. • The transportation route, times and dust suppression methods being used both within and outside of the site boundary should dust be caused from track-out. • Pre-Booking/Scheduling of vehicle movements to minimise congestion and dust from vehicles arriving and leaving the site. This will reduce engine idling time, therefore reduce vehicle emissions such as PM10 (Particulate Matter <10 microns) and NOx (Nitrogen oxide).
Track-out of vehicles	When required**,** a sweeper shall be used to ensure the public road remains dust free. A wheel-washing facility will be used on site within the carriageway to minimise dust and air pollution. See section 10.1 for information on what happens to the water from this facility. Where reasonable to enable operations to be effectively completed, the movement of plant and on-site vehicles shall be kept to a minimum. The speed limit on site will be set to 15mph across the majority of the site or 5mph in congested of sensitive areas. During the drier summer month speed limits may be further reduced to minimise dust accumulation.
Earthworks for temporary footways and other	To limit dust pollution through excavations and earthworks activities the following measures shall be taken, as appropriate: • Dust suppression shall be done through a mobile bowser on site and within the compound area. The site team shall ensure that an adequate water supply is available on site for when suppression is required. This shall be through the use of potable water. Additionally, a wheel wash will be available on site to prevent tracking of mud across the site. For more detail, see above and section 10.1. • Where applicable solid barriers/screens shall be erected around dusty activities • To control dust generation associated with the fall of materials drop heights from excavators to vehicles will be kept to the minimum practicable.

Demolition of bridge deck	Appropriate measures such as the use of tools with fitted dust suppression and/or vacuums will be used by main contractors for any processing, crushing, cutting and grinding activities as required to limit dust pollution. We shall minimise the generation of dust reducing the use of pneumatic breakers where practicable.
Construction of new bridge, footways and ramp	Dust suppression may likely be required for the crushing process should this be utilised on site. Best practices shall be implemented throughout this phase as outlined within this section.
Dust emitted from the compound area	Where practicable the topsoil **bund** within the compound area shall be turfed using the existing grass and left to self-seed. Where this is not applicable, the bund shall be covered at all times with a permeable geotextile. **General waste** shall be kept to a minimum and within in a covered skip.

10.4 Noise & Vibration

Standard Requirements

- Night works are not expected to be completed, however should this change local agreement with the local authority shall take place and a letter drop shall be undertaken.
- Any compressor brought onsite will be silenced or sound reduced models fitted with acoustic enclosures.
- All pneumatic tools will be fitted with silencers or mufflers.
- All plant items will be properly maintained and operated according to manufacturer's recommendations in such a manner as to avoid causing excessive noise.
- All plant will be sited so that the noise impact at nearby sensitive properties is minimised.
- If noise complaints are received, the Construction Manager shall keep records of the complaint and demonstrate to the complainant that Milestone Infrastructure have made all practicable efforts to ensure noise levels are limited as much as possible. The Construction Manger shall also, if practical, change the method of working or utilise alternative plant to further reduce noise levels.
- The Site Supervisor shall ensure that the peak particle velocity and frequency generated from any operation during the associated works does not present risk of damage to any structure.
- Stationary vehicles shall not be left to idle.

Project Specific Requirements

Environmental Risk	Controls to be Implemented
Nuisance, sensitive receptors	Noise may present an issue during both the demolishing works and the crushing of aggregate on site to local receptors. Where reasonably practical, works will seek to avoid and reduce noise (including vibration) from construction activities to minimise potential disturbance to sensitive receptors. This will include: • White noise reversing warnings to be used during any night-time works.

	• All works shall be completed during the hours of **0800 – 1800 Monday to Friday, 0800 – 1300 Saturday.** Should works be required outside of these time agreement with the Local Authority shall be required and a Section 61 be required. • Due to the proximity of local receptors on site (~20m), the project shall undertake both noise and vibration monitoring in two locations on site as shown in Figure 3 above in Section 10.3. This will be live tracked, and an alert shall be raised when noise levels are breached. The risk of nuisance to the surrounding environment is highest during the vegetation clearance, demolition of the bridge and potential crushing of materials. **Noise limits** are as set out below as determined by the client. *'During normal working hours 08:00 to 18:00 hours, the sound level, measured one metre outside the facade of any occupied building, shall not exceed the following:* • *70 dB - $L_{A\ eq}$,12 hour or 3 dB above the residual level, whichever is the greater, and* • *73 dB - $L_{A\ eq}$,6 hour or 5 dB above the residual level, whichever is the greater (provided that the six hours fall within the period 0800 to 1600hours) and* • *76 dB - $L_{A\ eq}$,3 hour or 3 dB above the residual level, whichever is the greater (provided that the six hours fall within the period 0800 to 1300hours), and* • *85 dB - $L_{pA,\ max}$ and, in the case of noise of an impulsive nature (e.g., drilling)* *Outside normal working hours, the sound level measured one metre outside the facade of adjacent occupied building, shall not exceed the following:* • *60 dB - $L_{A\ eq,1\ hour}$ or 3 dB above the residual level, whichever is the greater (1900 hours to 2200* • *hours), and* • *55 dB - $L_{A\ eq,1\ hour}$ or 3 dB above the residual level, whichever is the greater (2200 hours to 0700* • *hours) and* • *70 dB - $L_{A\ eq,max}$ and, in the case of noise of an impulsive nature:* • *70 dB - $L_{A\ eq,01}$ (measured over one cycle).* **Noise barriers/acoustic hording** shall be used between the pedestrians and main works during noisy activities. The use of noise curtains around loud plant shall be used where feasible. Works near residential areas, white noise reversing warnings to be used during any nighttime works. If noise complaints received, then working methods may need to be re-evaluated and noise monitoring undertaken.
Public interaction	All local receptors will be kept informed throughout the duration of the works through the use of signage. Information shall include the nature, scale, and timings of works as well as who to contact if they are disturbed.

	The Site Manager is responsible for the notification to residents that may be affected by potential disruptive activities.

10.5 Sampling & Testing

Standard Requirements

- Whenever waste of unknown condition and characteristics (soil, planings, demolition waste etc) is removed from site then appropriate sampling and testing must be undertaken prior to its disposal.
- A 'Sampling and Testing Plan' must be completed for each site prior to waste removal.
- All samples must be tested in accordance with the appropriate test suite detailed in HazWaste Online.
- All results must be run through HazWaste Online by a competent, trained member of staff.
- Results from the samples will determine how the waste will be managed and disposed of.
- The 'Sampling and Testing Plan' together with all results must be kept on file and also provided to the waste contractor

Items to Consider:

- Location of site in relation to risk areas (watercourse, residential areas etc)
- Previous site usage/historic records/known pollutants
- Number of samples
- Depth of samples
- Spread of samples
- Testing criteria

Project Specific Requirements

Environmental Risk	Controls to be Implemented
Soil and stone	All soil and stone is to be sampled prior to removal from site and will commence prior to works beginning on site. Should this require stockpiling while awaiting results, no further material shall be added once samples have been taken. Results shall take approximately seven days to come back which shall require consideration to prevent delay of works.
Asphalt containing coal tar	All bituminous material shall be sampled prior to works beginning via core sampling. Should there be any doubt of the materials condition such as a strong odour or visual discontinuity, PAK spray will be available on site at all times for additional testing.
Lead	Sampling for lead is currently being completed by the client. Results are to be added here.
Asbestos	Sampling for asbestos is currently being completed by the client. Results are to be added here.

10.6 Contamination & Hazardous Substances

Standard Requirements

- Soil arisings will be tested in accordance with WM3 technical guidance. If this has not been done in advance of commencing on site, the Construction Manager must coordinate the testing via the Environment Team.

- No soil arisings will leave site without contamination testing results.
- Hazardous soils shall be removed by a licensed waste carrier and accompanied by a hazardous waste consignment note.
- All containers of hazardous material (including oils and paints) shall be stored in a bunded area in accordance with COSHH requirements.
- Hazardous waste must not be mixed with non-hazardous.
- Any used spill kits are to be disposed of as hazardous waste.
- If any evidence of contamination is encountered onsite (i.e., discoloured soils, unexpected odours, fibrous texture to the soils, presence of underground tanks, and evidence of waste pits) works shall halt and the Environment Manager contacted immediately.

Project Specific Requirements

Environmental Risk	Controls to be Implemented
Storage	Should testing show any waste to be contaminated, this shall be segregated on an impermeable surface to prevent leaching of contaminants. The stockpile shall be covered when not in use to prevent material being disperse and to protect from rain.

10.7 Waste Management

Standard Requirements

- The waste hierarchy shall be adopted in all instances (prevent, minimise, re-use, recycle, or recover before disposal).
- All waste generated shall be segregated as far as practically possible.
- All waste shall be stored within a suitable holding facility (designated skip or bin etc.).
- Waste containers shall be clearly marked with their intended contents.
- The Site Supervisor shall ensure that copies of waste contractor permit, and exemptions are held within the site file and included within the Site Waste Management Plan PRIOR to waste being removed from site.
- Waste movements shall be accompanied by a Waste transfer ticket. The Site Supervisor shall ensure that the information held on this ticket is passed to the Environment Team on a monthly basis for inclusion within the Milestone Environmental Report Hub
- Hazardous waste movements shall be accompanied by a Consignment Note. The Site Supervisor shall ensure that the information held on this ticket is passed to the Environment Team on a monthly basis for inclusion within the WMS.

Project Specific Requirements

Environmental Risk	Controls to be Implemented
On-site material reuse	All work shall be completed in line with the projects Site Waste Management Plan (SWMP) (Appendix H) which outlines the amount of waste estimated to be produced and where the waste shall be taken (or kept as a resource on site).

10.8 Materials

Standard Requirements

- All stored materials shall be covered to prevent dust and litter dispersion and to prevent ingress of rainwater.

- All timber imported shall be FSC or PEFC certified.
- Where feasible recycled products shall be preferred over virgin.
- Material stockpiles should be tidy and secure to prevent damage and loss.
- Soils stored on site should be covered to prevent runoff.

Project Specific Requirements

Environmental Risk	Controls to be Implemented
Reuse of material in abutment	Providing the material is suitable to use, the existing bricks and aggregate on site shall be crushed on site and used as the backfill behind the abutment wall. To prove this is reused material and not a waste, a Materials Management Plan shall be created in line with CL:AIRE guidelines.
Existing sleepers	Existing sleepers to possibly be used for the temporary footway if they are in good condition. The suitability of this shall be determined once on site. Once they have been utilised on site, they shall be disposed of to a correctly licenced facility if there is no further use for them. Location shall depend on whether they are hazardous from previous treatments.

10.9 Ecology & Wildlife

Standard Requirements

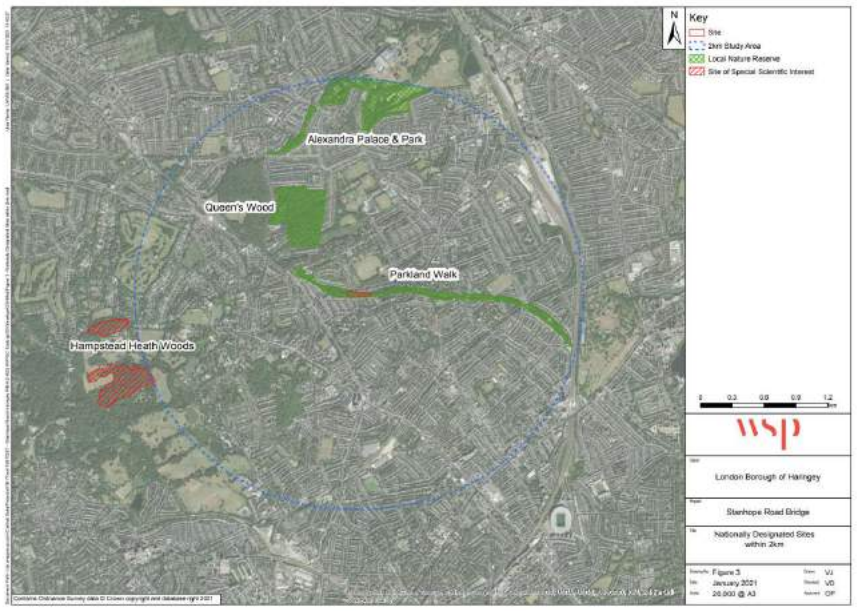
- Should works encounter any protected species, works shall halt and a member of the Environment Team consulted.
- Should works encounter any invasive or injurious species, works shall halt and a member of the Environment Team consulted.
- All vegetation clearance shall be undertaken between September and February where possible.
- If vegetation clearance is required between March and August inclusive, the area of works shall be thoroughly searched for bird's nests on the morning of each day of works prior to the start of clearance. If a bird nest is found works shall not commence until a member of the Environment Team has been consulted.
- Roots of trees to be retained shall only be cut using a clean hand saw, not a spade or mechanical digger.
- Damp sacking shall be placed around exposed roots of trees to be retained until ready for backfilling.
- All backfilling shall be undertaken ensuring roots are not damaged and soils are not heavily compacted.
- All vegetation clearance, cutting and pruning and other works relating to vegetation shall be undertaken by an NHSS18 Accredited organisation and suitably competent operatives (refer to the NHSS 18 Quality Plan for further information).
- Damage to tree bark and branches of trees that are to be retained shall be avoided at all times. If accidental damage to trees occurs, the Environmental Advisor shall be consulted at the earliest opportunity.

Project Specific Requirements

Environmental Risk	Controls to be Implemented
Root Protection Areas – Works area	A **pre-commencement meeting** shall be conducted with the Arboriculturist to ensure tree protection measures are clear and

	sufficient. Details of this meeting shall be written up, circulated, and understood by the project site team. A regular **monitoring** schedule shall be completed by the project Arboriculturist with the frequency to be determined after the initial visit. Meetings with the Arboriculturist shall take place as follows (during MIL phase of works): • Pre-start meeting • Completed of approved tree works (no further tree works expected) • Installation of protective fencing and ground protection measures • Ensure compliance to protected areas during construction • Monitoring of soft and hard landscape works The specification for the protection fencing and ground protection can be found within the Arboricultural Method Statement written by WSP (Section 6.9, 70077287-WSP-GEN-B-RP-LE-0007 SEPTEMBER 2021). Regular **checks** shall be completed by the Site Agent to ensure that all tree protection fencing is still in place. Any damage shall be reported and rectified without delay. No storage of materials, waste, plant, or equipment shall be completed within the protected areas.
Root Protection Areas - Compound	The compound set up shall be agreed in advance with the project arboriculturist to ensure the roots of the trees making up the boundary of the school field are not compacted, resulting in damage and/or death to the trees. Once agreed with the LBH arboriculturist prior to construction, the location shall be shown in Appendix A & C.
Reptiles	Due to the potential for reptiles on site, vegetation clearance shall be completed with a precautionary approach under an Ecological Watching Brief (EWB). Prior to works beginning, an initial walkover survey shall be completed and any refuge such as log piles etc shall be carefully dismantled by hand where possible under the supervision of the ecologist. Once dismantled vegetation shall be cut no lower than 200mm moving away from the road edge. This shall be done with hand tools. The area shall be left overnight to allow for any wildlife to disperse. A second walkover survey will then be conducted the following morning, and should it be safe to continue, a second lower cut to ground level shall be completed. Open trenches shall not be left open overnight, however, if this is unavoidable, one end of the trenches shall be left at a 45° angle to

	allow for the escape of any trapped wildlife or means of egress be provided.
Bats	Initial surveys completed by WSP have shown there to be moderate potential for bats within the bridge itself and within the two trees shown in Figure 4 below. These trees are not being felled as part of the works and will be protected as part of the Tree Protection Plan. Noise shall be monitored throughout the construction phase and minimised as much as practically possible, while artificial lighting should not be required due to the timing of works. *Figure 4: Drawing showing the two trees with potential for bats (in yellow)* 
Excavations	Excavations must be covered or securely fenced (with no potential access points beneath fencing) when the Site is closed (e.g.: overnight) to prevent entrapment of animals.
Badgers	A walkover survey prior to construction commencement shall be completed by LBH to ensure no badgers setts have become active between the original survey completion.
Parkland Walk Local Nature Reserve (LNR) and Parkland Walk, Queen's Wood, and Highgate Wood Site of Importance for Nature Conservation (SINC)	It is not expected that works will have a detrimental impact on either LNR or SINC providing best practice methods are followed including nuisance mitigation, retention of Root Protection Area's and successful landscape planting. Should there be any doubt of this, contact with the Projects ecology team shall be made without delay. *Figure 5: Drawing showing the location of the Parkland Walk Local Nature Reserve (LNR (in green)*



10.10 Archaeology, Cultural Heritage & Listed Buildings

Standard Requirements

- Should works encounter any coins, pottery, bone fragments, brick/stone foundations, spearheads, or other suspected artefacts, works shall halt, and the Environmental Manager/Advisor consulted

Project Specific Requirements

Environmental Risk	Controls to be Implemented
Retain LNR signage and fencing	Although previous reports have not identified any archaeological risk on site, the client have requested some existing features of the bridge and foot access to be retained. These shall be removed and stored safely until the time they are to be reused on site.
Unexploded Ordinance (UXO)	A UXO Desk Study & Risk Assessment was completed by Zetica UXO on the 31st March 2022. This survey report (P11633-22-R1) found no records indicating that the Site was bombed and no significant sources of UXO hazard were identified. For this reason, the Site is considered to have low UXO hazard level and no further surveys or actions are required above standard best practice. For further information see the Zetica report.

10.11 Visual Impacts

Standard Requirements

- All waste shall be stored within a suitable holding facility (designated skip or bin etc.).
- Any artificial lighting shall be positioned with care to avoid light spill onto any neighbouring properties or vegetation.
- Good housekeeping shall be adopted throughout the Project to ensure a clean and tidy site.

Project Specific Requirements

Environmental Risk	Controls to be Implemented

Compound area and main site security.	Due to the location of the compound area within a school field, security will be installed to ensure there will be no access to members of the public. Additionally, all materials and waste shall be kept tidy.
Community Engagement Arrangements	Signage shall be displayed on public noticeboards describing the progress on site and explaining the reason for any activity that has the potential to cause nuisance for locals. This shall be regularly updated, and will include a contact number for the community liaison officer. Initial conversations with the stakeholders on site during tender and ECI stage have/shall highlight any major areas of concern. A stakeholder meeting organised by LBH prior to construction shall provide further discussion time on main areas of risk. Through the use of signage described above and direct contact with groups such as Friends of the Parkland Walk and Channing School, we aim to mitigate any potential complaints by dealing with concerns early on.

11.0 Project specific toolbox talks

The Site Supervisor shall ensure the following Project specific toolbox talks are delivered to all relevant site staff at the approved stage in construction:

Discipline	Description	Must be delivered prior to construction	May be delivered throughout construction period
Pollution prevention	Fuel & oil	☒	☒
	Silt	☐	☐
	Cement & concrete if making concrete	☐	☒
	Bentonite	☐	☐
	Pumping & over pumping	☐	☐
	Washing down of plant machinery	☐	☒
Nuisance	Dust & air quality	☒	☒
	Noise & vibration	☒	☒
	Be a good neighbour	☐	☒
Good Practice	Materials handling & housekeeping	☒	☒
	Archaeology	☐	☒
	Working on previously developed land	☐	☐
	Energy/Fuel efficiency	☐	☒
Nature conservation	Bats	☒	☒
	Badgers	☐	☒
	Dormice	☐	☒
	Great crested newt	☐	☐
	Adders	☐	☒
	Nesting birds	☐	☒
	Common Reptiles	☒	☒
	Giant Hogweed	☐	☐
	Himalayan Balsam	☐	☐
	Japanese knotweed	☐	☒
	Working around trees	☒	☒

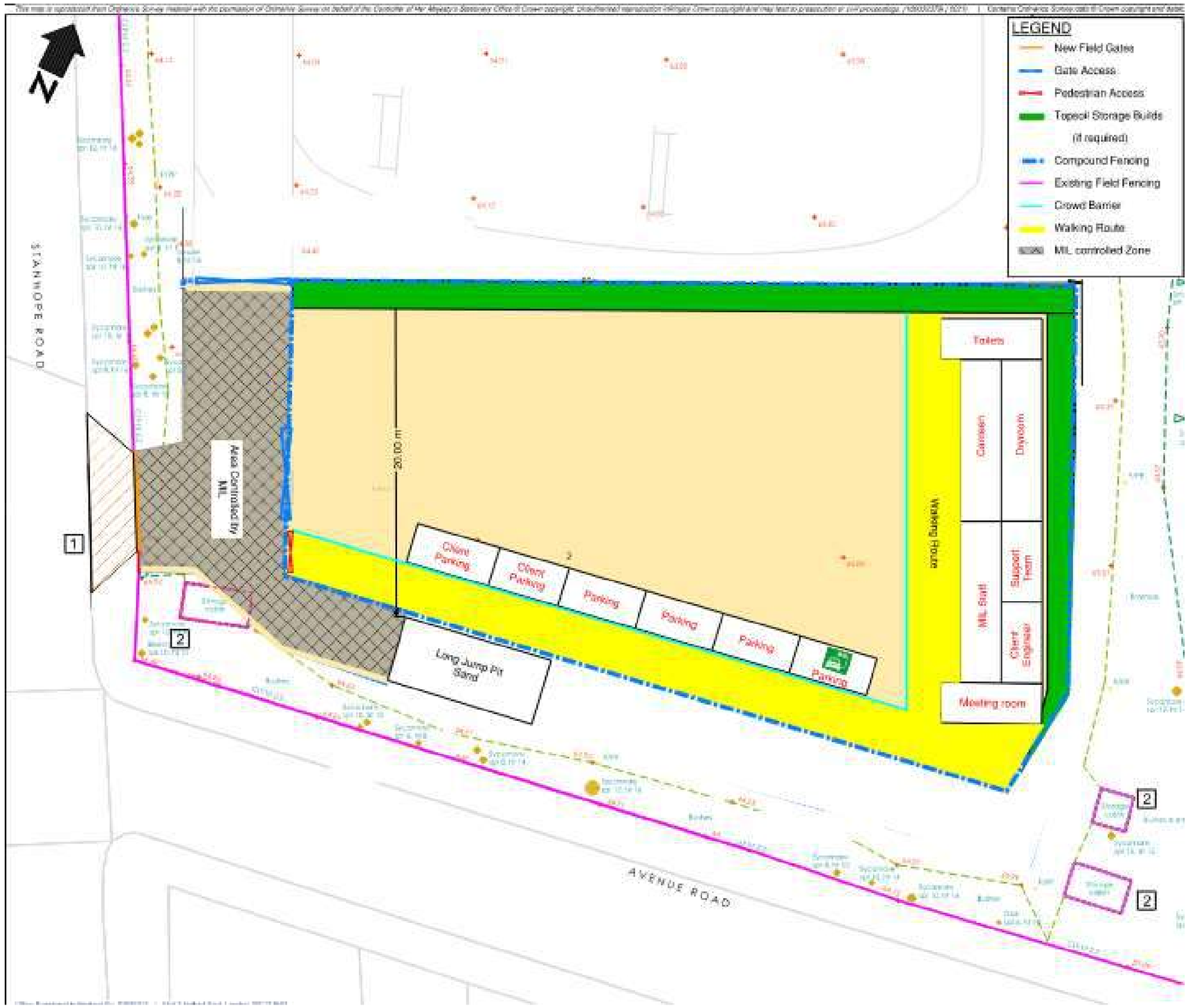
Waste	Control of sweeper arisings	☐	☒
	Segregation of waste	☒	☒
	Storage of waste	☒	☒
	Waste hierarchy	☐	☒

12.0 Emergency Preparedness and Response

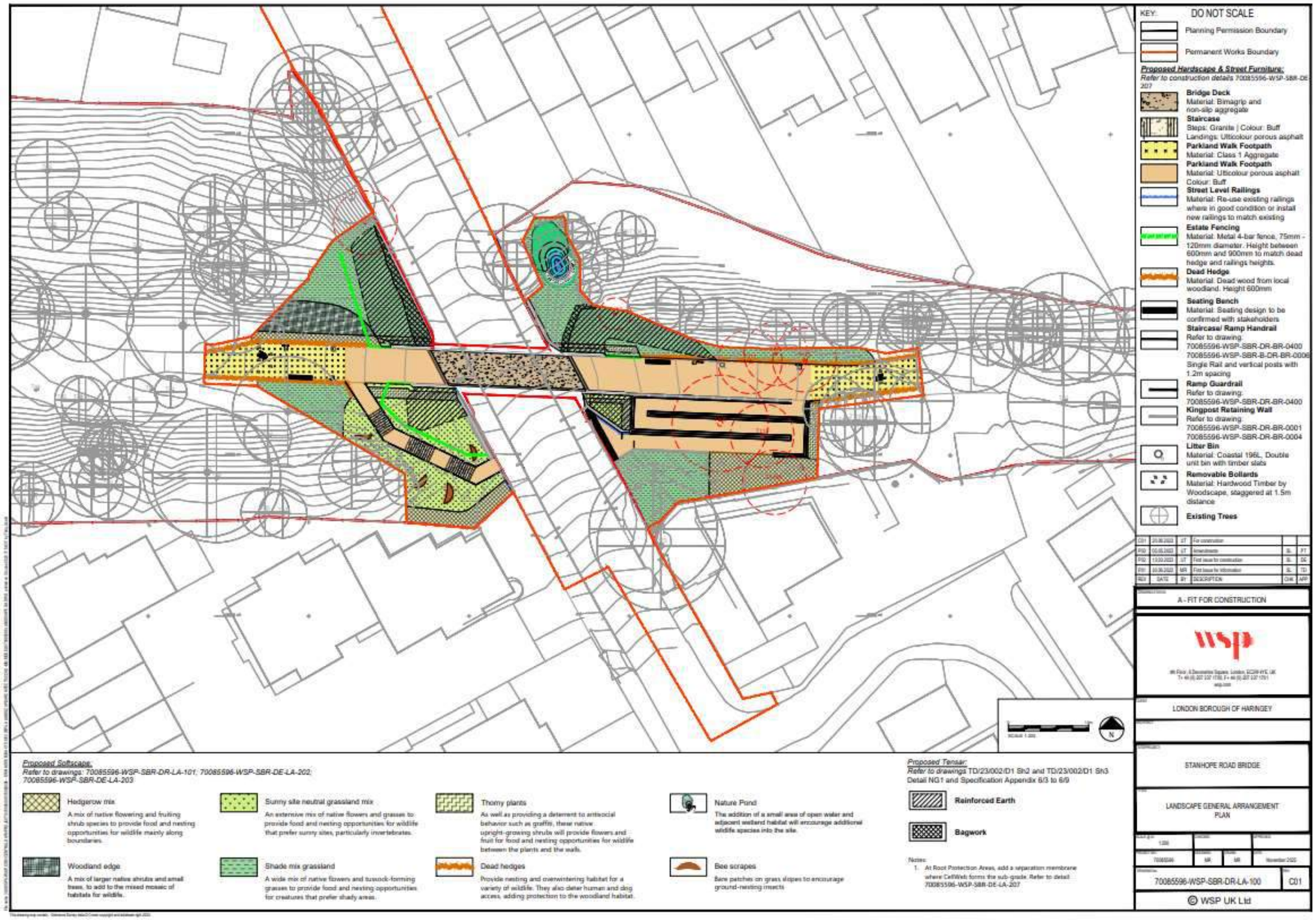
All environmental incidents and near misses shall be logged on the Environmental, Health and Safety database known as Optimus. Optimus incident notifications are received via email and a text message on receipt of notification of an incident at the Customer Service Centre (CSC). For Intermediate and Significant incidents, the Environment Advisor will complete an Environmental Incident Notification (EIN) and forward it for further distribution to the Environment Team and wider business.

Major incidents and environmental breaches are to be escalated to a member of Senior Management, usually the Business Director.

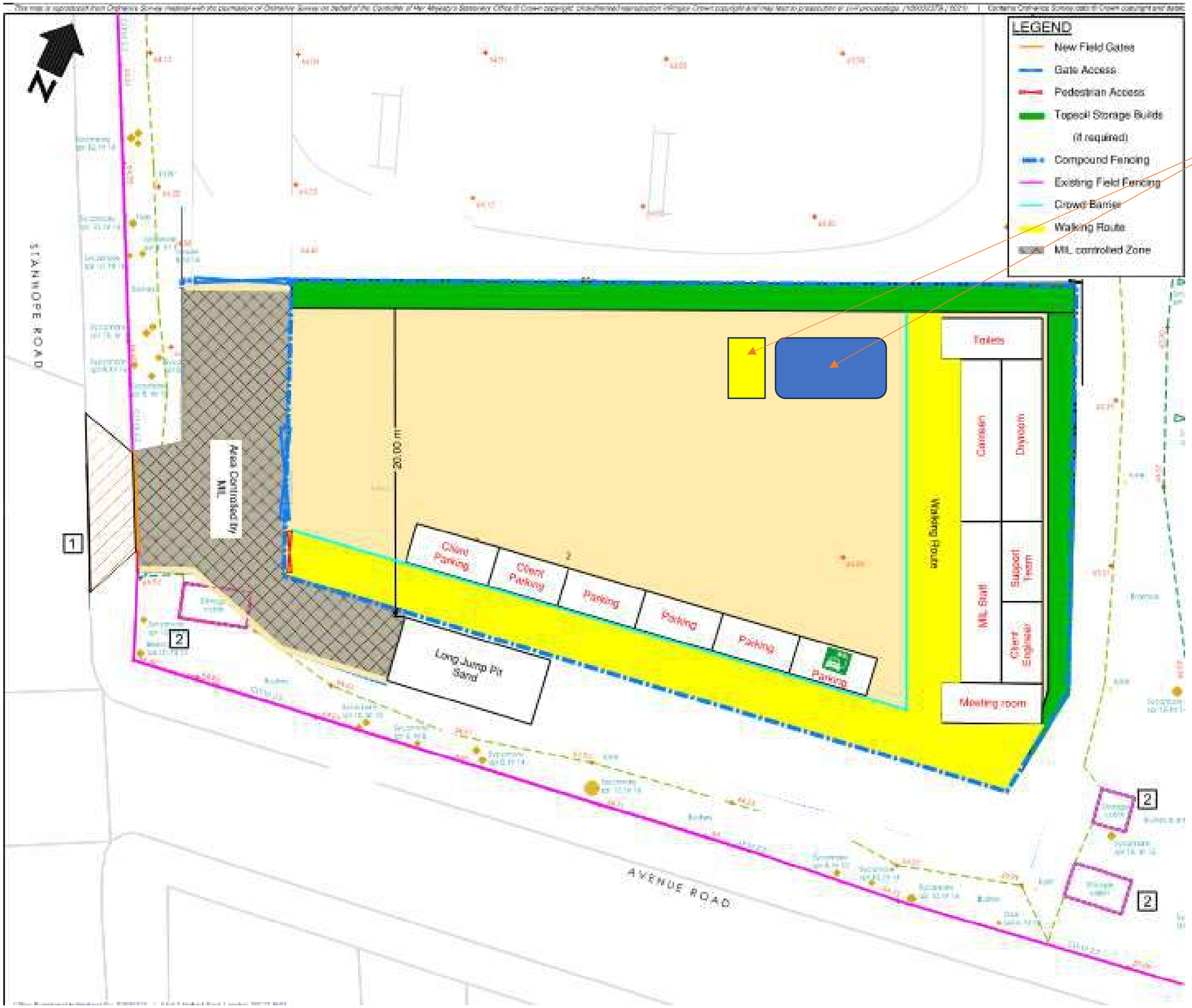
Appendix A – Compound Layout Plan



Appendix B – Landscape General Arrangement



Appendix C – Compound Fuel and Waste Map



| Delivering what we **promise**

Appendix D – Refuelling Plan

Refuelling will only take place within designated Refuelling Areas which will be agreed with the Environmental Manager. These areas will be suitable bunded to prevent spills, and spill kits will be available.

Generators / pumps

1. All generators and pumps will be integrally bunded and compliant with PPG2
2. When refuelling is taking place, drip trays or plant nappies will be placed under the point where the hose meets the refuelling point on the plant to contain any possible spillages.
3. Any spillages will be cleared up immediately, as per the spill response plan
4. Used spill kits will be stored in the hazardous waste bin before being removed from site by a specialist contractor.

Small Plant

1. Small plant will be filled with either 25L green metal jerry cans if diesel, or 5L red metal cans if petrol
2. All small plant refuelling will take place within the designated refuelling area
3. 25L green metal jerry cans will be filled next to the fuel bowser. The jerry cans will be filled on a spill tray.
4. Refuelling of the small item will also take place on the spill tray within the refuelling area.
5. Once refuelling is complete the petrol or diesel jerry cans will be returned to the COSHH store
6. Any spillages will be cleared up immediately, as per the spill response plan
7. Used spill kits will be stored in the hazardous waste bin before removed from site by a specialist contractor.

Appendix E – Aspects and Impacts Register

The Aspects and Impacts Register can be viewed here: Link to be added here once approved. Currently this is saved as a separate document.

Appendix F – Environmental Emergency Response Plan

The Environmental Incident Control Plan can be viewed here: Link to be added here once approved. Currently this is saved as a separate document.

Appendix G – Permits and Consents Register

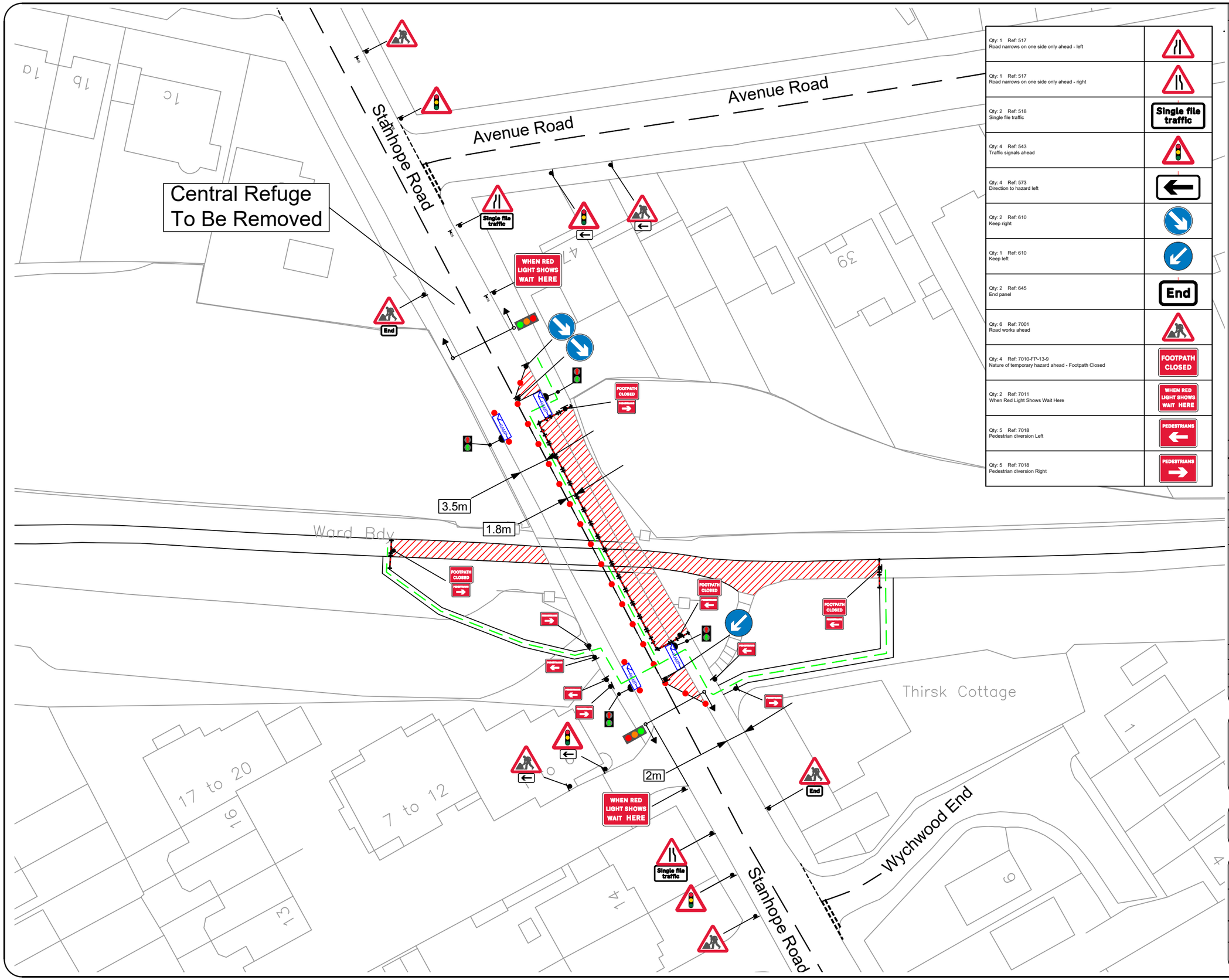
The Permits and Consents Register can be viewed here: Link to be added here once approved. Currently this is saved as a separate document.

Appendix H – Site Waste Management Plan

The Site Waste Management Plan can be viewed here: Link to be added here once approved. Currently this is saved as a separate document.

Appendix I – Sampling and Analysis Plan

The Sampling and Analysis Plan can be viewed here: Link to be added here once approved. Currently this is saved as a separate document.



Qty: 1 Ref: 517 Road narrows on one side only ahead - left	
Qty: 1 Ref: 517 Road narrows on one side only ahead - right	
Qty: 2 Ref: 518 Single file traffic	Single file traffic
Qty: 4 Ref: 543 Traffic signals ahead	
Qty: 4 Ref: 573 Direction to hazard left	
Qty: 2 Ref: 610 Keep right	
Qty: 1 Ref: 610 Keep left	
Qty: 2 Ref: 645 End panel	End
Qty: 6 Ref: 7001 Road works ahead	
Qty: 4 Ref: 7010-FP-13-9 Nature of temporary hazard ahead - Footpath Closed	FOOTPATH CLOSED
Qty: 2 Ref: 7011 When Red Light Shows Wait Here	WHEN RED LIGHT SHOWS WAIT HERE
Qty: 5 Ref: 7018 Pedestrian diversion Left	PEDESTRIANS
Qty: 5 Ref: 7018 Pedestrian diversion Right	PEDESTRIANS

Notes:

A - DO NOT SCALE FROM THIS DRAWING
B - All traffic management must comply with Traffic Signs Manual: Chapter 8 and Safety at Street Works and Road Works: A Code of Practice
C - All Road Markings and signage to conform to TSRGD 2002
D - Signage location shown is indicative only. Exact location of signage to be determined by operative on site

KEY

- Sign
- Traffic Cone

ALL RED MATRIX

From \ To	1	2	3	4
1		10	X	X
2	10		X	X
3	X	X		X
4	X	X	X	

35m
35m
DISTANCE BETWEEN "WAIT HERE" BOARDS

PHASE DIAGRAM

PHASE 1	PHASE 2	PHASE 3	PHASE 4
GREEN SETTINGS (SECONDS)			
35	35	X	X

REV:	DESCRIPTION:	BY:	DATE:
A	Revised	-	-
-	Initial Issue	LL	03/03/234

STATUS:

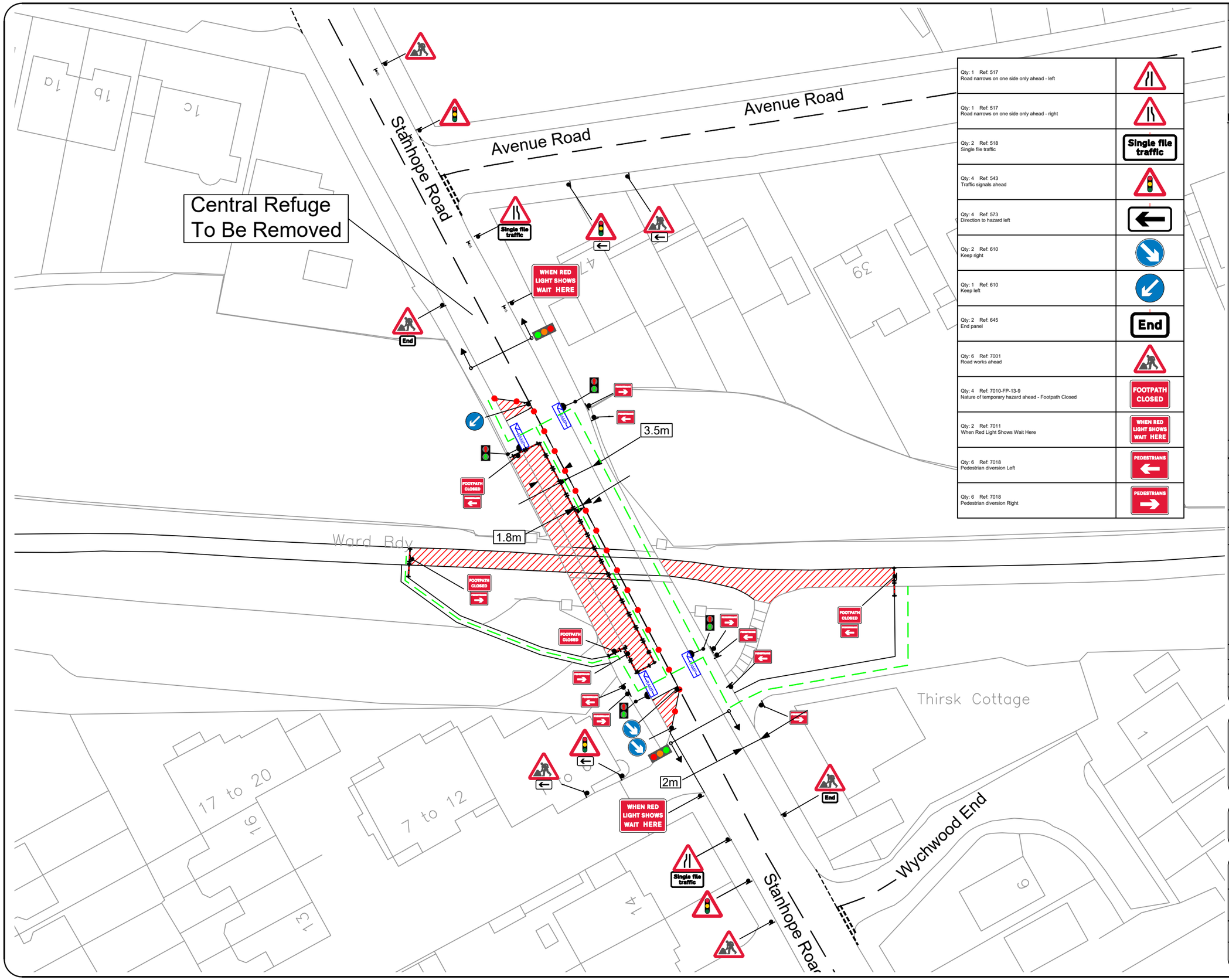
CONNECT HIGHWAYS

CLIENT: MILESTONE INFRASTRUCTURE, A part of MGroupServices

SITE: Parkland Walk, London N6 5DE

TITLE: 2-Way Traffic Signals + Prdestrian Crossing

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
AS SHOWN	03/03/24	LL	LL
TRAFFIC SENSITIVE:	DRAWING NO:		REVISION:
N/A	CH865		-



Qty: 1 Ref: 517 Road narrows on one side only ahead - left	
Qty: 1 Ref: 517 Road narrows on one side only ahead - right	
Qty: 2 Ref: 518 Single file traffic	Single file traffic
Qty: 4 Ref: 543 Traffic signals ahead	
Qty: 4 Ref: 573 Direction to hazard left	
Qty: 2 Ref: 610 Keep right	
Qty: 1 Ref: 610 Keep left	
Qty: 2 Ref: 645 End panel	End
Qty: 6 Ref: 7001 Road works ahead	
Qty: 4 Ref: 7010-FP-13-9 Nature of temporary hazard ahead - Footpath Closed	FOOTPATH CLOSED
Qty: 2 Ref: 7011 When Red Light Shows Wait Here	WHEN RED LIGHT SHOWS WAIT HERE
Qty: 6 Ref: 7018 Pedestrian diversion Left	PEDESTRIANS
Qty: 6 Ref: 7018 Pedestrian diversion Right	PEDESTRIANS

Notes:

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KEY

- Temporary Traffic Signal Head
- Temporary Pedestrian Signal Head
- Sign
- Traffic Cone
- Works Area

ALL RED MATRIX

From \ To	1	2	3	4
1		10	X	X
2	10		X	X
3	X	X		X
4	X	X	X	

35m
35m
DISTANCE BETWEEN "WAIT HERE" BOARDS

PHASE DIAGRAM

PHASE 1	PHASE 2	PHASE 3	PHASE 4
GREEN SETTINGS (SECONDS)			
35	35	X	X

REV:	DESCRIPTION:	BY:	DATE:
A	Revised	-	-
-	Initial Issue	LL	03/03/234

STATUS:

CONNECT HIGHWAYS

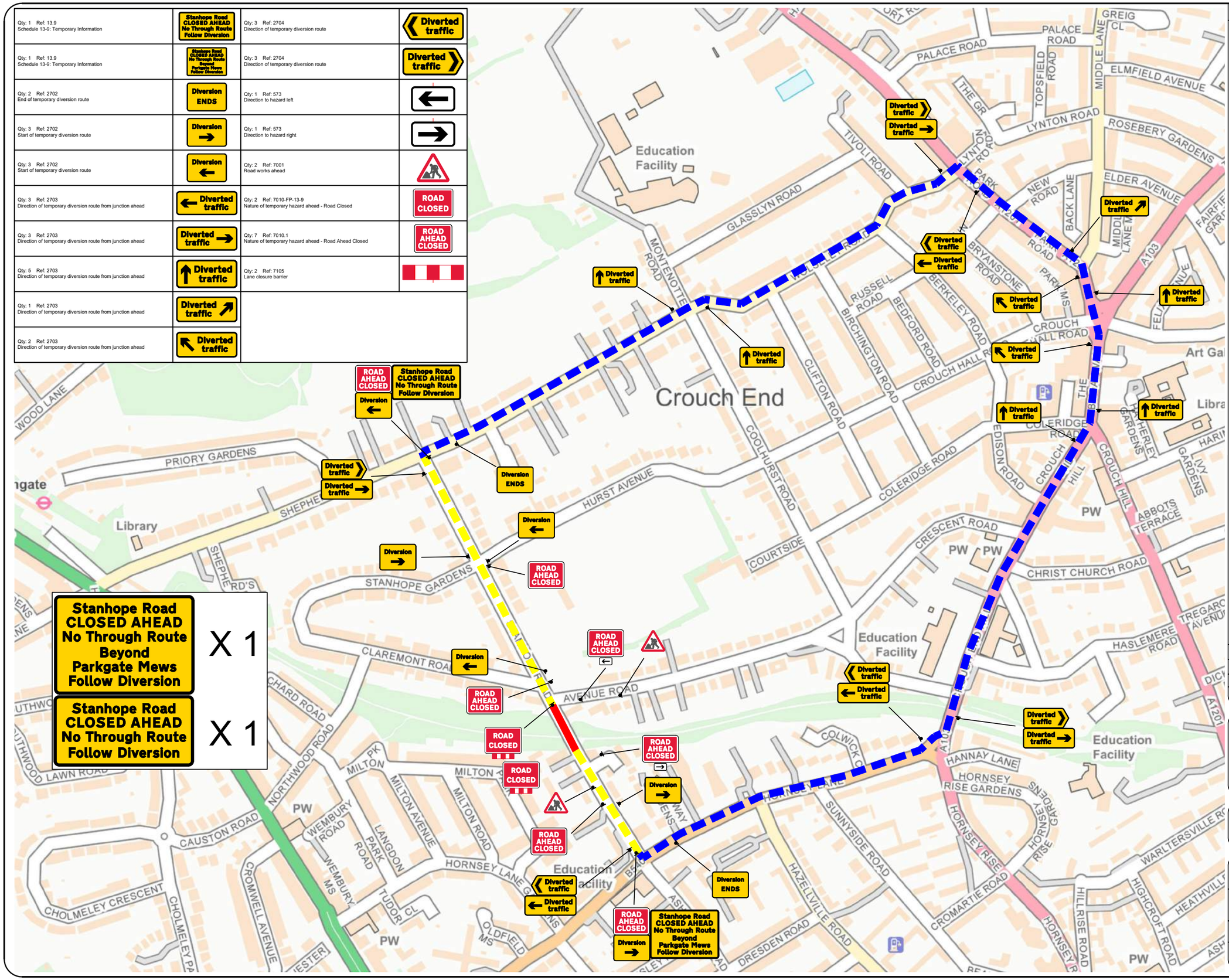
CLIENT: MILESTONE INFRASTRUCTURE
A part of MGroupServices

SITE: Parkland Walk, London N6 5DE

TITLE: 2-Way Traffic Signals + Pedestrian Crossings

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
AS SHOWN	03/03/24	LL	LL
TRAFFIC SENSITIVE:	DRAWING NO:		REVISION:
N/A	CH866		-

Qty: 1 Ref: 13.9 Schedule 13-9: Temporary Information	Stanhope Road CLOSED AHEAD No Through Route Follow Diversion	Qty: 3 Ref: 2704 Direction of temporary diversion route	Diverted traffic
Qty: 1 Ref: 13.9 Schedule 13-9: Temporary Information	Stanhope Road CLOSED AHEAD No Through Route Beyond Parkgate Mews Follow Diversion	Qty: 3 Ref: 2704 Direction of temporary diversion route	Diverted traffic
Qty: 2 Ref: 2702 End of temporary diversion route	Diversion ENDS	Qty: 1 Ref: 573 Direction to hazard left	
Qty: 3 Ref: 2702 Start of temporary diversion route	Diversion	Qty: 1 Ref: 573 Direction to hazard right	
Qty: 3 Ref: 2702 Start of temporary diversion route	Diversion	Qty: 2 Ref: 7001 Road works ahead	
Qty: 3 Ref: 2703 Direction of temporary diversion route from junction ahead	Diverted traffic	Qty: 2 Ref: 7010-FP-13-9 Nature of temporary hazard ahead - Road Closed	ROAD CLOSED
Qty: 3 Ref: 2703 Direction of temporary diversion route from junction ahead	Diverted traffic	Qty: 7 Ref: 7010.1 Nature of temporary hazard ahead - Road Ahead Closed	ROAD AHEAD CLOSED
Qty: 5 Ref: 2703 Direction of temporary diversion route from junction ahead	Diverted traffic	Qty: 2 Ref: 7105 Lane closure barrier	
Qty: 1 Ref: 2703 Direction of temporary diversion route from junction ahead	Diverted traffic		
Qty: 2 Ref: 2703 Direction of temporary diversion route from junction ahead	Diverted traffic		



Stanhope Road CLOSED AHEAD No Through Route Beyond Parkgate Mews Follow Diversion X 1

Stanhope Road CLOSED AHEAD No Through Route Follow Diversion X 1

Notes:

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C - All Road Markings and signage to conform to TSRGD 2002
D - Signage location shown is indicative only. Exact location of signage to be determined by operative on site

KEY

- Sign
- Traffic Cone
- Road Closure
- Access Only
- Diversion Route

DIVERSION ROUTE

Wolseley Road > Park Road > A103 > Crouch End Hill > B540 Hornsey Lane & VICE VERSA

REV:	DESCRIPTION:	BY:	DATE:
A	Revised	-	-
-	Initial Issue	LL	03/03/234

STATUS:

CONNECT HIGHWAYS

CLIENT: MILESTONE INFRASTRUCTURE A part of MGroupServices

SITE: Parkland Walk, London N6 5DE

TITLE: ROAD CLOSURE & DIVERSION

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
AS SHOWN	03/03/24	LL	LL
TRAFFIC SENSITIVE:	DRAWING NO:		REVISION:
N/A	CH869		-

Notes:

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KEY

- Sign
- Traffic Cone

Qty	Ref	Description	
Qty: 6	Ref: 7010-FP-13-9	Nature of temporary hazard ahead - Footpath Closed	FOOTPATH CLOSED
Qty: 2	Ref: 7010-FP-13-9	Nature of temporary hazard ahead - Road Closed	ROAD CLOSED
Qty: 11	Ref: 7018	Pedestrian diversion Left	PEDESTRIANS
Qty: 11	Ref: 7018	Pedestrian diversion Right	PEDESTRIANS
Qty: 2	Ref: 7105	Lane closure barrier	

ALL RED MATRIX

From \ To	1	2	3	4
1	■	X	X	X
2	X	■	X	X
3	X	X	■	X
4	X	X	X	■

N/Am
N/Am N/Am
N/Am
DISTANCE BETWEEN "WAIT HERE" BOARDS

PHASE DIAGRAM

PHASE 1	PHASE 2	PHASE 3	PHASE 4
GREEN SETTINGS (SECONDS)			
X	X	X	X

REV:	DESCRIPTION:	BY:	DATE:
A	Revised	-	-
-	Initial Issue	LL	03/03/234

STATUS:

CONNECT HIGHWAYS

CLIENT: MILESTONE INFRASTRUCTURE
A part of MGroupServices

SITE: Parkland Walk, London N6 5DE

TITLE: Pedestrian Walkway

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
AS SHOWN	03/03/24	LL	LL
TRAFFIC SENSITIVE:	DRAWING NO:		REVISION:
N/A	CH870		-

Qty: 2 Ref: 516 Road narrows on both sides ahead	
Qty: 2 Ref: 518 Single file traffic	Single file traffic
Qty: 4 Ref: 543 Traffic signals ahead	
Qty: 4 Ref: 573 Direction to hazard left	
Qty: 4 Ref: 610 Keep right	
Qty: 4 Ref: 610 Keep left	
Qty: 2 Ref: 645 End panel	End
Qty: 6 Ref: 7001 Road works ahead	
Qty: 4 Ref: 7010-FP-13-9 Nature of temporary hazard ahead - Footpath Closed	FOOTPATH CLOSED
Qty: 2 Ref: 7011 When Red Light Shows Wait Here	WHEN RED LIGHT SHOWS WAIT HERE
Qty: 6 Ref: 7018 Pedestrian diversion Left	PEDESTRIANS
Qty: 6 Ref: 7018 Pedestrian diversion Right	PEDESTRIANS

Central Refuge
To Be Removed

Stanhope Road

Avenue Road

Ward Bdy

Thirsk Cottage

Wychwood End

3.5m

1.8m

2m

Notes:

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KEY

- Temporary Traffic Signal Head
- Temporary Pedestrian Signal Head
- Sign
- Traffic Cone
- Works Area
- Safety Zone

ALL RED MATRIX

To / From	1	2	3	4
1		10	X	X
2	10		X	X
3	X	X		X
4	X	X	X	

35m
35m
DISTANCE BETWEEN "WAIT HERE" BOARDS

PHASE DIAGRAM

PHASE 1	PHASE 2	PHASE 3	PHASE 4
GREEN SETTINGS (SECONDS)			
35	35	X	X

REV:	DESCRIPTION:	BY:	DATE:
A	Revised	-	-
-	Initial Issue	LL	03/03/234

STATUS:

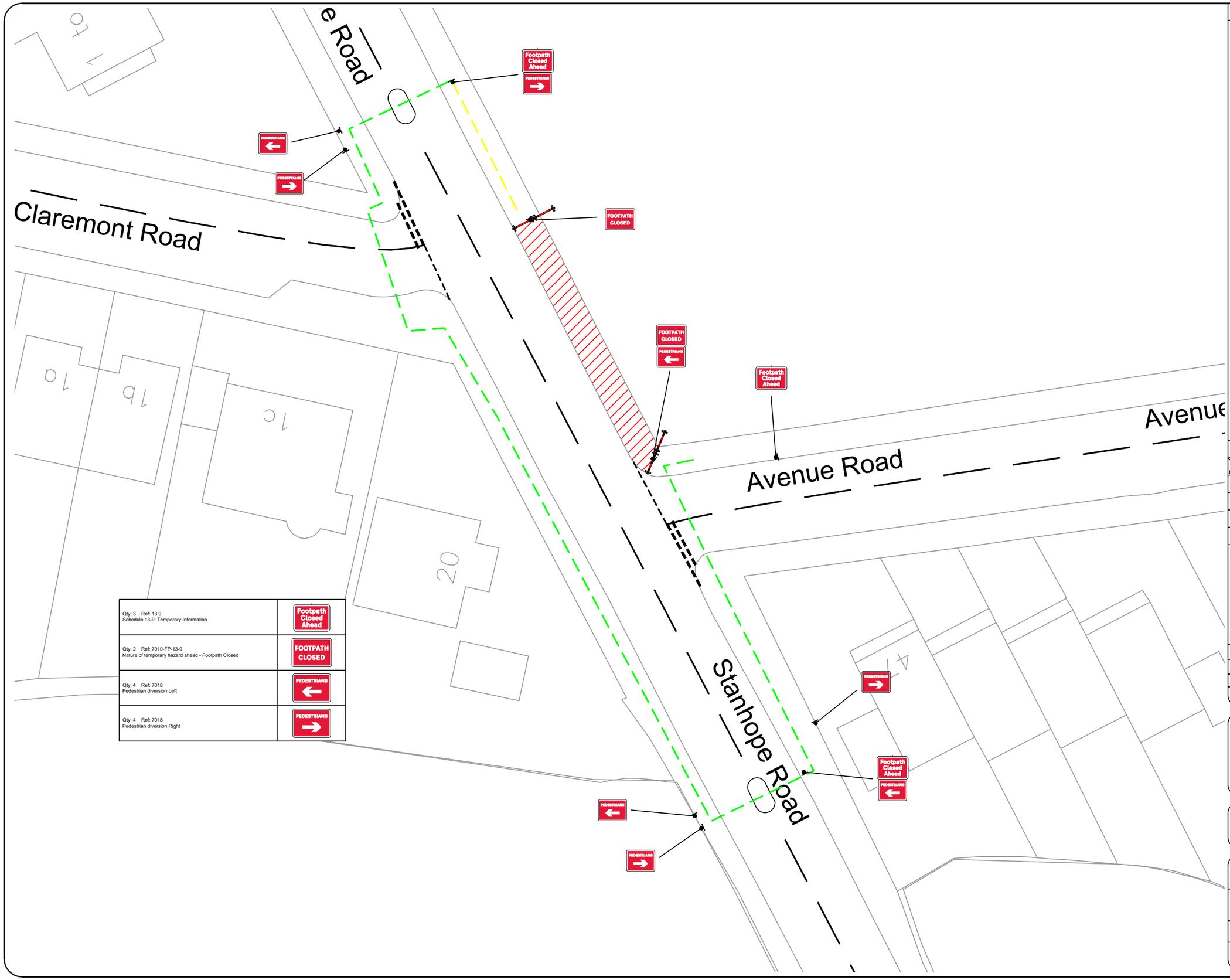
CONNECT HIGHWAYS

CLIENT: MILESTONE INFRASTRUCTURE, A part of MGroupServices

SITE: Parkland Walk, London N6 5DE

TITLE: 2-Way Traffic Signals + Ped Crossings

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
AS SHOWN	03/03/24	LL	LL
TRAFFIC SENSITIVE:	DRAWING NO:		REVISION:
N/A	CH871		-



Qty: 3 Ref: 13.9 Schedule 13-9: Temporary Information	Footpath Closed Ahead
Qty: 2 Ref: 7010-FP-13-9 Nature of temporary hazard ahead - Footpath Closed	FOOTPATH CLOSED
Qty: 4 Ref: 7018 Pedestrian diversion Left	PEDESTRIANS
Qty: 4 Ref: 7018 Pedestrian diversion Right	PEDESTRIANS

Notes:

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KEY

- Sign
- Traffic Cone

ALL RED MATRIX

From \ To	1	2	3	4
1		X	X	X
2	X		X	X
3	X	X		X
4	X	X	X	

N/Am
N/Am N/Am
N/Am
DISTANCE BETWEEN "WAIT HERE" BOARDS

PHASE DIAGRAM

PHASE 1	PHASE 2	PHASE 3	PHASE 4
GREEN SETTINGS (SECONDS)			
X	X	X	X

REV:	DESCRIPTION:	BY:	DATE:
A	Revised	-	-
-	Initial Issue	LL	03/03/234

STATUS:

CONNECT HIGHWAYS

CLIENT: MILESTONE INFRASTRUCTURE
A part of MGroupServices

SITE: Stanhope Road, London N6 5DE

TITLE: Pedestrian Walkway

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
AS SHOWN	03/03/24	LL	LL
TRAFFIC SENSITIVE:	DRAWING NO:		REVISION:
N/A	CH872		-

Site Logistics and Traffic Management Plan

Appendix to the Construction Management Plan

Revision Number:	**001**	**Document reference:**	**EHS 009-F01**	**Revision Status:**	**Open**
Prepared By:	**Ryan Carley**	**Signature:**	Ryan Carley	**Date:**	**24.02.2024**
Reviewed By:	**Hassan Soboh**	**Signature:**	H. Soboh	**Date:**	**01.03.2024**

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This document can only be altered/amended with the authority of the Milestone Infrastructure Project Logistics Manager and in agreement with the Project Health and Safety Manager

Rev No	Date	Review and comments	Approved Project Logistics Manager	Approved Project H&S Manager
01	24.02.2024	First revision	Ryan Carley	Kenneth Mackellar

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Appendix A **– Delivery Drivers Site Rules**
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1) Introduction

The Site Logistics and Traffic Management Plan (The Plan) is designed to detail the procedures and objectives of Milestone Infrastructure with the main aim being to reduce incidents, maximise efficiency and provide a proactive approach to site logistic management for the Project.
The Site Logistics Plan covers the following items:

- **Traffic / pedestrian management,**
- **Delivery coordination, prioritising and scheduling,**
- **Material storage and distribution,**
- **Managing waste,**
- **Management of keys.**

The Plan is to be read in conjunction with and form part of the Construction Phase Plan. The Plan will be a document that requires constant review. It will be reviewed six monthly as a minimum and updated as necessary. The Logistics Manager is responsible for the preparation and revision of this document, which will be reviewed for completeness by the Project Health, Safety and Environmental Manager(s) and the Logistics Manager and approved by the Site Manager.

The site hours will generally be 08:00 – 18:00 Monday to Friday. Work / deliveries outside of these hours must be by agreement and the Trade Contractors must provide suitable supervision for their extended works. Delivery is requested outside of school hours (09:00 – 15:00). All Trade Contractors will be asked to provide emergency contact information. This information will be held within security in the event of an emergency.

Any comments or questions regarding this document should be addressed to the Logistics Manager - Ryan Carley 07811 581072. It is the intention that the Plan is issued to all potential Trade Contractors (together with the Construction Management Plan and supporting documentation) with enquires and discussions during the Pre-start meetings to make all Trade Contractors fully aware of the site management methodology.

Once a trade contractor commences on site, they will be expected to attend periodic Logistics/Traffic Management Meetings to agree access routes, deliveries, storage areas, hoist usage, crane lifts, etc. This will be co-ordinated by Milestone Infrastructure. What has been agreed will then be transferred onto drawings / matrixes and placed in a prominent position for all to see. All are reminded that the success of the project relies entirely on good planning / coordination and communication. Attendance at Logistics Meetings will assist this process.

2) Traffic Management

The objectives of this document are to identify the potential hazards due to vehicles and mobile plant on site, to ensure safe and efficient transport of plant, materials and personnel to and from site and how they integrate with each other and the surrounding environment. Then to set out a strategy to minimise or eliminate the risks.
This document has been prepared to comply with the principles of HSE Guidance Booklet HSG 144 – The Safe Use of Vehicles on Construction Sites.

The intention is to implement control measures to minimise the risk. Risks considered include striking public at entrances / exits, mud on road, striking structures, damage to underground services, overturning, pollution, unauthorised use, security, loading / unloading, reversing and parking. Updates of the site access, security points, loading bays, etc., will be provided to each trade contractor as and when they change. They will be reviewed at the Monthly Safety Meeting and re-issued.

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a) Refuelling

A procedure for controlled fuelling up of plant and equipment will be implemented by each Trade Contractor and agreed by Milestone Infrastructure. This will include a secure, bunded fuel storage area all refuelling carried out by a trained and competent person with access to the necessary fuel spill kits.

- All fuel bowsers are to be double bunded and a drip tray provided to prevent contamination during fuelling.
- 45-gallon fuel containers will not be allowed on site.

b) Vehicle Movements

- Where reasonably practicable one-way traffic routes will be established to reduce the need for reversing and the danger of head on collisions.
- Where two way traffic and limited access cannot be avoided suitable passing points will be created
- Routes will be adequately lit and sign posted.
- Vehicle routes will be designed to minimise gradients. Where significant gradients exist warning notices will be posted at head and foot.
- Traffic route surface will preferably be tarmac / concrete surface. At stages temporary concrete crushed roads may be established.
- A suitable speed limit will be established and displayed on all site roads and in all work areas, which will be strictly observed and enforced throughout the duration of the project.
- Where appropriate restricted openings in structure, etc., will be identified and signed by suitable means, such as hazard strips on structure and height restriction boards.
- Wheel wash facilities will be provided as necessary to prevent the build up of mud on public roads.

c) Vehicles and Plant

Where possible a car parking facility will be provided to accommodate vehicles belonging to site personnel, client representatives and visitors. Private vehicles will not be permitted to park on-site unless granted access by Milestone Infrastructure.
All delivery vehicles must have the following:

- Hazard warning lights,
- Audible reverse warning sounder,
- Means of clear 360º vision for manoeuvring / reversing (i.e., CCTV / mirrors, etc., as HSG 144, or vehicle marshal, when manoeuvring or reversing).

Site vehicles / plant will:

- Have flashing hazard beacon.
- Have audible reverse warning.
- Have seat belts fitted.
- Have a valid tax disc if operated outside of the designated licensed areas.
- Have rollover protective structure (ROPS) and / or falling-object protective structure (FOPS) in accordance with the manufacturer's instructions (where appropriate).
- Be selected with regards to safety aspects of its use (i.e., size, duties, visibility, etc.).
- Have 360º all round vision, or be provided with driver vision assistance, such as CCTV, mirrors, etc., or be under the guidance of a trained vehicle marshall while manoeuvring / reversing.

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- Have valid "Thorough Examination Certificate" (and load test where appropriate), and inspection disc displayed in vehicle window.
- A copy of the latest "Thorough Examination Certificate" (and load test where appropriate) for plant, together with its latest maintenance record, is to be presented to Milestone Infrastructure prior to its commencement of work on site.
- Updated "Thorough Examination Certificates" are to be issued to Milestone Infrastructure as and when carried out.

When unattended all vehicles/plant must be left without keys in the ignition and be immobilised.

d) Vehicle Maintenance

- Maintenance will be arranged by each Trade Contractor and carried out in accordance with and at periods set out in manufacturer's recommendations or at shorter intervals if appropriate.
- Records of the above must be made available for inspection by Milestone Infrastructure.
- Trained plant fitters will carry out all maintenance. Certificates of training / employer's certification of competence will be presented to Milestone Infrastructure for checking prior to commencement on site.

e) Driver/Operator Competency

- Delivery drivers must hold a current valid driving licence for the vehicle being operated as issued by the Driver and Vehicle Licensing Agency (DVLA).
- On occasions Milestone Infrastructure Security will check the above documentation at the entrance to the site.
- Drivers of delivery vehicles with HIAB cranes or on board forklifts will present certificates of training prior to operation of the plant on site.
- All plant operators will be required to have CITB / CPCS certificates of training and achievement as deemed appropriate by Milestone Infrastructure Safety Department.
- All plant operators will produce relevant confirmation of training and familiarisation achievement for Milestone Infrastructure inspection prior to commencement on site and again each time refresher training is carried out.

f) Drivers/Operators Rules

- No person is allowed to operate vehicles and plant unless trained to do so.
- Seat belts must be worn at all times
- No passengers are to be carried unless the vehicle is specifically designed to do so.
- Drivers / operators must have proof of familiarisation with all operating controls and techniques and safety devices of the particular item of plant they are to use.
- Drivers / operators are to carry out pre-use safety checks of the unit prior to use each shift. Pre-start running checks at end of shift.
- All drivers / operators to drive carefully at all times and note the presence of pedestrians on site.
- All drivers / operators are to only operate the vehicle / plant strictly in accordance with manufacturer's recommendations / instructions.
- All drivers / operators must comply fully with all safety signage including:
  - Speed limits,
  - Stop signs,
  - Give way signs,
  - One-way signs,
  - Loading restriction signs, etc.
- Reversing is to be kept to a minimum and only undertaken when clear all round vision is available and / or under the direction of a trained vehicle marshall.

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- Hazard warning lights or flashing beacons to be on at all times while the vehicle is running.
- Excavations only to be approached when safe to do so and guided by a trained vehicle marshall (stop blocks, spotting logs or other adequate edge protection must be available).
- Ensure all materials are stored in a safe manner to prevent crush injuries.
- Delivery drivers to remain with their vehicle at all times, in the cab when safe to do so.
- Outside the cab drivers must follow a reasonable dress code, i.e. no shorts or vests will be allowed.
  - Safety helmet,
  - Safety boots,
  - High visibility vests,
  - Gloves and safety glasses,
  - Other PPE as required by the task method statement.
- Vehicles / plant left unattended must be left in a safe condition and with the key removed and / or immobilised.
- No reversing unless a trained vehicle marshal is in attendance.
- Open top lorries must be sheeted, unless empty.
- Dumper operators must leave the unit whilst it is being loaded and stand a safe distance away.
- No young persons (under 18 years of age) or pets are allowed on site, this includes them being in a vehicle.
- All delivery drivers must be able to receive instructions and or directions in English.

g) Vehicle Work Areas

- It will not be possible to segregate vehicles and pedestrians from some work areas where personnel on foot are necessary for the operations being carried out in the area, sometimes working in conjunction with the vehicles. Precautions in such cases will include:
  - Exclusion of those not required in the area (where possible),
  - Vehicle marshals to control vehicle movements,
  - Safe vehicle manoeuvring policies,
  - On board vehicle warning devices,
  - Pedestrian use of high visibility vests / coats,
  - Driver rules,
  - Adequate lighting of the area and warning signage.

h) Vehicle Marshal

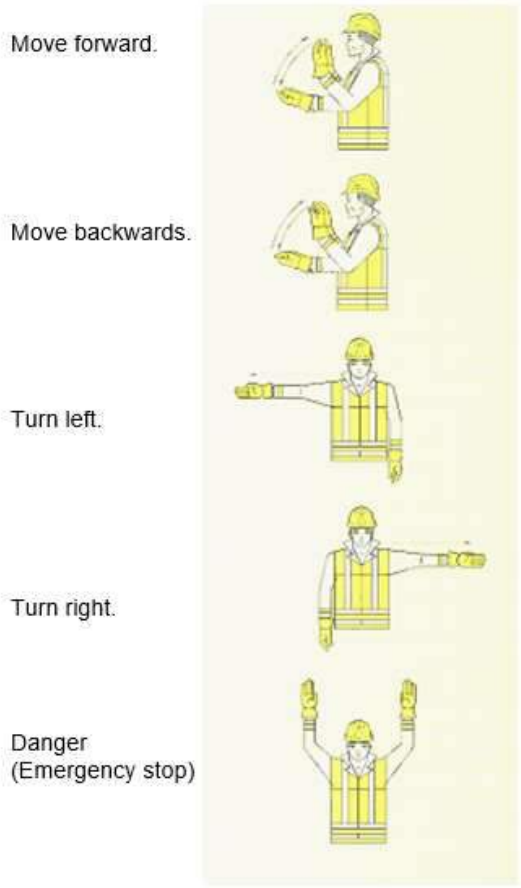
- All vehicle marshals must:
  - Be sutiably qualified and experienced
  - Be selected for the duties to be carried out, bearing in mind their physical and mental abilities (selected and appointed by the Trade Contractor);
  - be easily identifiable by means of an orange vest with “vehicle marshal” printed on the reverse.

Use signals as illustrated in HSG 144 (see below).

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HSG 144 - Standard signals to drivers



i) Plant on Public Roads

- No plant will be allowed on public roads without an agreement by Milestone Infrastructure Safety Department. All operators must observe the surrounding speed limits at all times.

j) Site Vehicle Entrance/Exit

- All entrances / exits will be designed to give adequate vision of vehicles entering / leaving site to members of the public on foot and other road users and give adequate vision to delivery drivers.
- Where necessary, vehicles entering / leaving site will be guided by a vehicle marshal.
- Reversing onto public roads will not be permitted.
- Signs warning public pedestrians of vehicles will be posted each side of entrances / exits.

k) Loading and Unloading

- Vehicles will only to be off-loaded / loaded when on level ground.
- Where delivery lorries have a HIAB crane or their own forklift, drivers must be CITB / CPCS Trained Slinger / Signallers

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- A SSOW shall identify the safe methods of working for the loading and unloading operations,,i.e., methods of attaching crane hooks, etc., must be employed by Trade Contractors.
- Off-loading bays will be provided where possible.

l) Client/Surrounding Environment Restrictions

3) External Pedestrian Access Routes

Wherever possible, site transportation areas are segregated from pedestrian routes with the aim to reduce the risk of incident. As new routes are developed staff and Trade Contractors will be informed in writing and at Logistics Co-ordination Meetings. Up to date routes will be communicated to all new operatives at site induction. Trade Contractors are responsible for disseminating new routes as they are informed to their own personnel.

4) Internal Pedestrian Access Routes

An access system is employed to prevent unauthorised access to all areas and facilitate a role call in the event of an emergency. This is based on either a swipe card and turnstile system or a hard copy register maintained at the point of entry.

For internal routes within the compound, the precautions will include:

- Segregated walkways and crossings (where possible);
- Warning signs and mirrors at blind corners;
- Rush barriers at pedestrian entrances / lift shafts directly onto vehicle routes;
- Speed limits;
- On vehicle warning system
- High visibility clothing will be worn to ensure persons can be easily identified by plant operators or drivers of motor vehicles.

Main internal pedestrian access routes with precautions in place will be recorded on site layout drawings, which will be regularly reviewed and updated. Copies of drawings will be displayed in the following locations:

- Security centre / site pedestrian access points;
- Site canteen(s)
- Vehicle entrances.

5) Delivery Management

Site deliveries will be coordinated through the Logistics Manager, who will hold power of veto over deliveries not brought forward in accordance with the schedule of deliveries. Delivery schedules will be issued to the main security entrance and no access will be allowed for unplanned deliveries.
Unless previously agreed, no deliveries will be accepted before 09:00 and unloading must be completed by 15:00 Monday to Friday, due to proximity of Channing School.

6) Pedestrian Segregation

At site entrances / exits separate segregated pedestrian access points will be established and maintained.

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Where practical, all main pedestrian access routes will be physically segregated from vehicles by fixed barriers.
Where a route is established for a short duration and / or before a more permanent barrier can be established, continuous plastic/metal red & white barriers may be used.
Walkways will be signed, sufficiently illuminated and have a trip free surface.
Where it is necessary to cross main vehicle routes, pedestrian crossing points will be provided. They will:

- Be located away from driver blind spots,
- Have signs warning drivers of crossing point,
- Have signs warning pedestrians of vehicles,
- Have hatched marking on roads (where practical),
- Have speed ramps prior to crossing points (where practical).

7) Monitoring and Consultation

Each day the Logistics Manager or his designated person will walk over all pedestrian / traffic routes to ensure all agreed measures are in place and maintained.
Each week the Logistics Manager will meet with Milestone Infrastructure Management Team and plan route adaptations / alterations for the following weeks work.
Views of Trade Contractors re traffic safety precautions will be an agenda item at weekly and monthly trade contractor HSE meetings.

8) Materials Storage and Distribution

Each trade contractor is fully and ultimately responsible for the management, storage and handling of their own materials and any materials provided to them “free issue” by Milestone Infrastructure. Areas for each trade contractor to store materials will be allocated by Milestone Infrastructure prior to the trade contractor starting and as and when required during the construction stage. A storage plan will be maintained and updated by Milestone Infrastructure. It will be discussed at the Logistics / Traffic Management Meetings with Trade Contractors.
Milestone Infrastructure will not supervise materials that are distributed via any Milestone Infrastructure provided hoists or cranes. It remains the responsibility of the Trade Contractor to put the materials into the hoists, sling the load for the crane, etc. Once in the Building material distribution remains the responsibility of the Trade Contractor. Pallet trucks, propriety trolleys, tugs, etc., are recommended.
Each Trade Contractor is then responsible for managing the material in their own area. This includes but may not be limited to:

- Storage in accordance with manufacturer’s recommendations;
- Storage with sufficient safe distance between items;
- Storage without risk of collapse or crushing;
- Storage without risk of ignition: items with ignition / combustible potential should be reviewed by the Trade Contractor’s manager;
- Storage of COSHH materials are managed
- Storage such that items of high value are properly locked up;

•Dangerous goods such as gas bottles are stored in accordance with current health and safety legislation;
•Goods that may deteriorate in adverse weather or with age should be stored such that they are adequately protected.

9) Control of Keys

The general philosophy is as follows:

- Milestone Infrastructure Security will hold keys to the external gates.
- Milestone Infrastructure Security will hold keys to all Milestone Infrastructure offices.

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- Milestone Infrastructure Security will issue keys to all lockers and desks on request.

The Milestone Infrastructure Management Team will hold keys for all areas under Limitation of Access, authorisation to open these areas will come from the Milestone Infrastructure Management Team under permit.
Persons witnessed cutting / breaking locks / chains, etc, without authorisation will be immediately removed from site.

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Appendix A

Delivery Drivers Safety Rules

1. No person is allowed to operate vehicles and plant unless trained to do so.
2. Seat belts must be worn at all times
3. No passengers are to be carried unless the vehicle is specifically designed to do so.
4. All drivers to drive carefully at all times and note the presence of pedestrians on site.
5. All drivers are to only operate the vehicle / plant strictly in accordance with manufacturer's recommendations / instructions.
6. All drivers must comply fully with all safety signage including: Speed limits, Stop signs, Give way signs, One-way signs, Loading restriction signs, etc.
7. Reversing is to be kept to a minimum and only undertaken when clear all round vision is available and under the direction of a trained vehicle marshall.
8. Hazard warning lights or flashing beacons to be on at all times while the vehicle is running.
9. Excavations only to be approached when safe to do so and guided by a trained vehicle marshall (stop blocks, spotting logs or other adequate edge protection must be available).
10. Ensure all materials are stored in a safe manner to prevent crush injuries.
11. Delivery drivers to remain with their vehicle at all times, in the cab when safe to do so.
12. Outside the cab drivers must follow a reasonable dress code, i.e. no shorts or vests will be allowed and full PPE must be worn i.e. Safety helmet, Safety boots, High visibility vests, Gloves and safety glasses, as well any other PPE as required by the task method statement.
13. Vehicles / plant left unattended must be left in a safe condition and with the key removed and / or immobilised.
14. Open top lorries must be sheeted, unless empty.
15. No young persons (under 18 years of age) or pets are allowed on site, this includes them being in a vehicle.
16. No defective vehicles allowed on site.
17. The site speed limit is a Maximum of 5-Miles Per Hour on approach roads 5mph within site area.
18. Dipped headlights are to used on site when wet / foggy conditions.
19. Unless in extreme emergencies, pedestrians are prohibited to access / egress from any loading bay ramp.
20. We expect that all delivery drivers are able to receive instructions and or directions in English.

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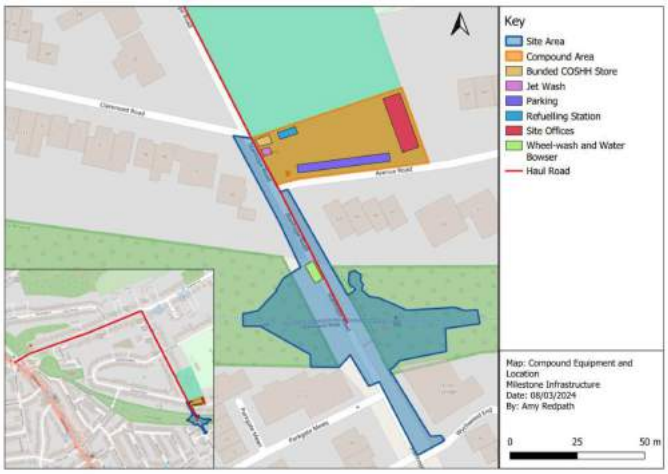
Appendix B

Access via (follow TM plan below). All road closure and diversion signs to be obeyed.

……..

• Please ensure that the logistics supervisor is contacted prior to arrival
• All deliveries & collections must report to the Main Gate and will be directed to the relevant
location
• Site Speed Limit 5mph
• Parking within the compound logistics zone is limited – suggested max 4 vehicles at any time
• Milestone banksmen to marshal artic. lorry deliveries from Main Gate to specific location
• Site delivery times: Site situated within residential/school area, delivery between 09:00 – 15:00 only.

Logistics Supervisor – Contact Number
Mohammed Soboh – 07890 415158
Logistics Manager - Contact Number
Ryan Carley – 07811 581072



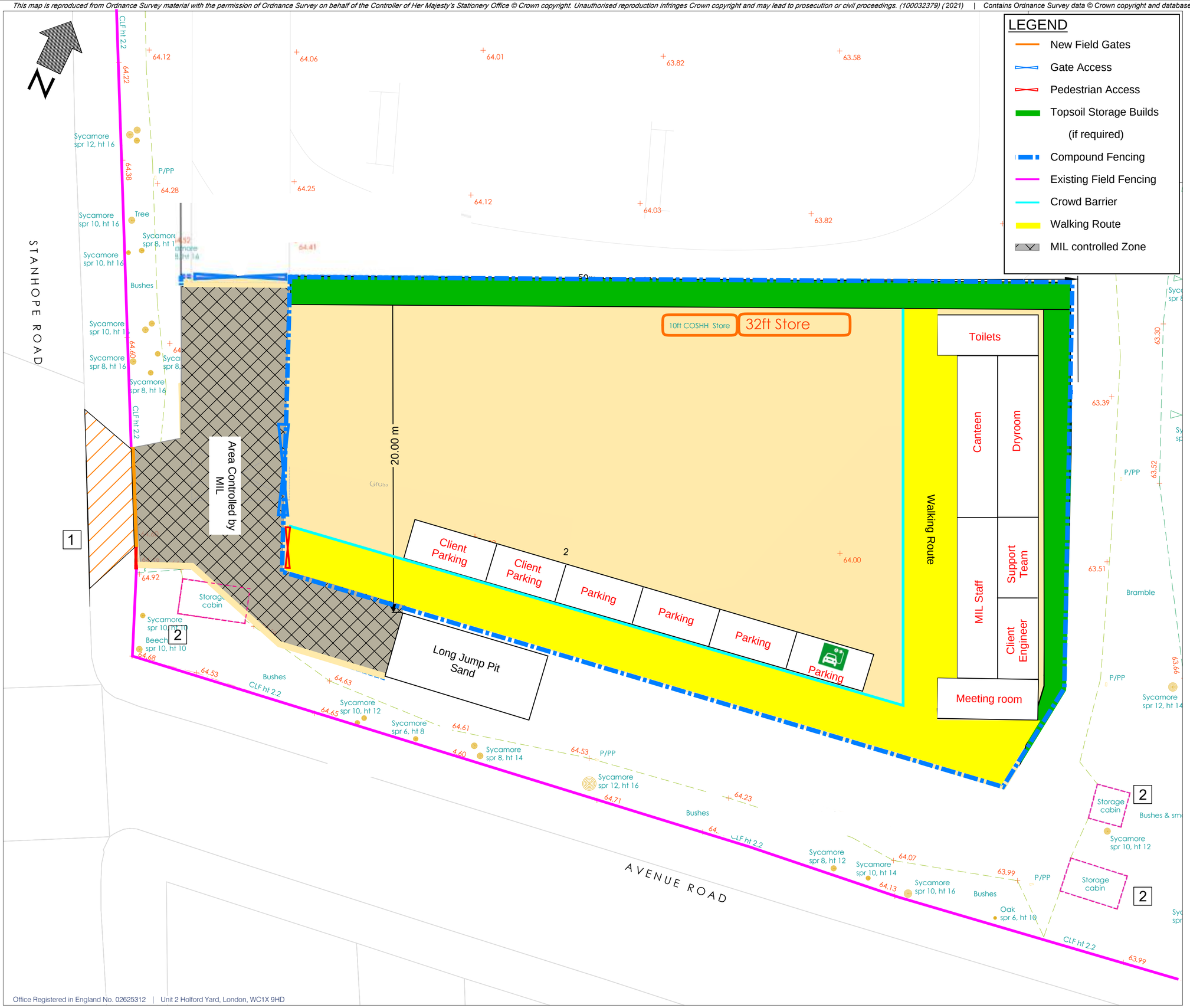


SK 02 - Stanhope Road Closure Diversion Route

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Notes:

1. New access.
New gates required, and new 'heavy duty' crossover. Both to be sized and constructed by Stanhope Contractor to achieve turning movements in and out of site. Channing school fence to be temporarily altered to accommodate new gate and made good on completion or new gate pattern to be agreed with Channing and gate to remain as Channing property when the compound is vacated.

2. Storage CabinS.
To remain in current location

3. Compound fencing.
To be Heras fencing or similar, 2m high.
Size of compound shown as 50m x 20m ave., giving an area of around 1000m2.

4. Compound construction.
Topsoil to be stripped including grass and stored in bunds not exceeding 1m high and 2m width to maintain soil structure. 150 - 200mm of granular material on Terram 1000 geotextile, contractor's design. On completion, granular material and Terram to be removed, sub soil 'lifted' to relieve compaction, topsoil re-spread and area turfed. 1 year maintenance on turfing to be written into Stanhope contract.
Long jump pit to be beamed/boarded over or fenced according to contractor's preference.

5. Compound use.
Offices/welfare/parking to be located adjacent to Avenue Road to minimise overlooking of playing field, remaining area for storage/laydown.
Limitations will be placed on the volume and types of materials that the contractor will be allowed to store within the compound.

6. Access to be maintained to Channing school field by prior arrangement during site hours

Rev	Date	Description	Drn	Chk	App
3	23/03/2023	MINOR AMENDMENT	SS	SS	BG
2	23.03.23	MINOR AMENDMENTS	SS	SS	BG
1	22.02.22	FOR DISCUSSION	EM	SS	BG
-	15.07.21	FIRST ISSUE	AB	SS	BG

This drawing has been specifically prepared to meet the requirements of the named client and may contain design and innovative features which differ from conventional design standards.

MILESTONE INFRASTRUCTURE
A part of MGroupServices

Client: Haringey LONDON

Project: CHANNING PLAYING FIELDS

Drawing Title: PROPOSED STANHOPE BRIDGE COMPOUND

Drawing Status: FOR INFORMATION

Drawn	Designed	Date	Scale	Size
EM	SS	MAR 23	1:150	A2

Drawing No.: 1000007569-4-010
Rev: 3

Contract or Project Complaints & Compliments Procedure

MIL_PRO_CUS_001

This Procedure shall be made available through MIMS and its issue notified to relevant employees through appropriate form of communication.

An Appointed Person shall review this document annually to re-affirm its conformity to the current requirements of company Policy or immediately if its contents are deemed to be no longer valid.

An amended revision number and the date of revision shall identify each revised document; this shall be detailed within the document revision table below. Revisions shall be identified by a number and shall replace the previous revision.

Document Reviews			
Date	**Revision**	**Document Owner/ Reviewer**	**Summary of changes**
01/04/2022	01	Social Value and Communication Manager	First Issue
22/06/2022	02	Social Value and Communication Manager	Periodic review – no changes

1) Foreword

Milestone customer Complaints & Compliments procedure helps ensure that all customer issues are dealt with promptly, efficiently, courteously, and systematically and any complaint is treated confidentially and fairly.

2) Who this procedure applies to

This procedure applies to all Milestone contracts & projects.

3) Complaints procedure

We need to log complaints received. They may be received directly by Milestone employees or vis our Clients. Most of our Clients have call handling facilities where MOP telephone to log issues. These may then be forwarded to milestone for action as required. Complaints can be taken over the telephone or by alternative means such as email, social media, letter, verbally on site.

We will record all complaints and will endeavor to resolve the issue without having to go through the full complaints process.
All complaints will be treated seriously with the aim of resolving the complaint promptly.

Our clients may provide access to a client based system for us to log complaint information. However, if this is not the case, there is a typical complaints & compliments log template in MIMS – Customer Satisfaction folder.

This can be used to log the details of any issues. Ensure that the local process for complaint handling is confirmed with the Client. Allocation of issue to individuals to lead on resolving issues can be stored on the log. Add to the log template as required by your contract.

Stanhope Road

19.02.2024 - 21.11.2024

MIL_FOR_CUS_006

Complaints & Compliments Register

Contract Complaints and Compliments Register

This document and its contents have been prepared and are intended solely for *contract & client name* information and use in relation to the *contract name* Contract.

Document history

Revision	Pupose descripiton	Originated	Reviewed	Authorised	Date
Rev 0-1	Updated with control sheet				
Rev 0-2	Updated following review from Head of Quality	PL	N/A	JBS	10 May 23

Change log

Rev	Section(s)	Description

Date Received	Type of Contact (i.e. Member of Public / Client)	Contact's Name	Contact Email	Contact's Telephone Number	KPI	Dept	Category (Compliment / Complaint)	Detail of Compliment or Complaint	Action Taken (if Complaint)

Construction Phase Health and Safety Plan

MIL_FOR_HS_001.3

Plan details:

Project name	Stanhope Road Bridge Replacement		
Contract number			
Project address	Stanhope Road / Avenue Road, Highgate, London, N6 5DF		
Project start date	12/02/2024		
Project duration	11 Months		
Prepared by	Name: A Niemcinskas	Sign: 	Date: 19/12/2023
Reviewed and approved by	Name: R Carley	Sign: Ryan Carley	Date: 17/01/2024

Issue log:

Date	Details	Initials
	Received Pre-Construction Information Pack from Principal Designer	
19/12/2023	Construction Phase Plan prepared	AN
17/01/2024	Document reviewed / amended	RC
	Issued Construction Phase Plan to Site	
	Accepted on Site for Start	

This Construction Phase Plan should be read in conjunction with:
Milestone Infrastructure Health and Safety Standards document Milestone Infrastructure Health and Safety Policy Appendix A: Site Rules Appendix B: Delivery Driver Site Rules Appendix C: Traffic Management Drawings/ Sketches Appendix D: Site Office & Welfare Plan, incorporating the unloading plan Appendix E: MIL_FOR_HS_005.1 Fire Risk & Emergency Plan

| Delivering what we **promise**

Revision history – Note: this document must be reviewed every three months as a minimum or more frequently if there is significant change.

Revision number	Summary of changes made	Revision by	Revision date
01	Document Drafted	AN	20/12/2023
02	First Review	RC	17/01/2023
03	Second Review	RC/HS	01/02/2023

MILESTONE INFRASTRUCTURE
A part of MGroupServices

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1. Project Details

Project Address

Project name	Stanhope Road Bridge Replacement
Project address	Stanhope Road Highgate London N6 5NB For Deliveries Milestone Infrastructure Compound In College Sports Ground Corner of Stanhope Road / Avenue Road Highgate London N6 5DF (what3works – vibrate.loud.modes)

Description of the Project plus Key Dates

Planned start date	19/02/2024
Planned completion date	11/11/2024

Description of project (scope of works)	Located on Stanhope Road, Highgate in the London borough of Haringey, the Parkland Walk - which is part of London's capital ring, is a disused railway route which is currently being used by pedestrians and cyclists. Part of the Parkland Walk is a bridge which spans over Stanhope Road which has been identified as in need of replacing. This project will consist of the total demolition and replacement of the footbridge, with a new ramp and stepped access. The project also includes the following elements: • Demolition of existing footbridge and abutments • Installation of new drainage including pond construction • Construction of new bridge and associated embankments

	• Construction of new accessible ramp access, steps and associated landscape works • Surfacing and footway works
Description of existing site and surrounding environment	The 0.8ha site is linear, along a section of the Parkland Walk, the bridge to be replaced is an existing bridge allowing the Parkland Walk to cross over Stanhope Road. The main Parkland Walk Path, running west-east is generally flat or gently sloping, but is set on what was a railway embankment, which slopes down steeply north and south to the housing flanking the path as well as steep slopes towards Stanhope Road at the intersection. The current land use is a local nature reserve and public walkway with grass, shrubbery and predominantly woodland, apart from where the trees have been cleared close to the bridge. Tree schedules, protection plans and surveys have been provided within the detailed arboricultural report supplied by the principal designer. The site compound will be located on the corner of St Aloysius College Sports Grounds, adjacent to the Stanhope Road / Avenue Road junction, in close proximity to the bridge site. This area is comprised of a grass field with an edge of trees. Considerations of surrounding environment • Highway Environment • Urban area • Pedestrian traffic • Interface with public rights of way • Proximity to local schools & playgrounds • Densely populated urban area • Works adjacent to embankments and ditches. • Working at height

Considerate Constructors Scheme

Details of considerate constructors codes to be applied	Considerate Environment Appearance Good Neighbour Respectful Safety Responsible Accountable

2. Details of Client, Principal Designer, Principal Contractor and Consultants

Organisations:

Name and address	Contact name	Telephone number	E-mail
Client	**Alex Rogers Haringey PM**	07588 03 99 68	Alex.Rogers@haringey.gov.uk
Principal Designer	**WPC – TBC**		
Designer	**WPC – TBC**		
Principal Contractor Milestone	**Alan Babbage Senior Contracts Manager**	07817 933067	Alan.Babbage@milestoneinfra.co.uk
	Hassan Soboh Senior Project Manager	07817262454	Hassan.Soboh@milestoneinfra.co.uk
	Ryan Carley Site Agent	07811581072	Ryan.Carley@milestoneinfra.co.uk
	Mohamad Soboh Section Engineer	07731 982839	Mohamad.soboh@milestoneinfra.co.uk
	Arturas Niemcinskas Quality Assurance Documenter	07388369525	Arturas.Niemcinskas@ milestoneinfra.co.uk
Employers Agent	**TBC**		
Architect	**TBC**		
Structural Engineers	**TBC**		
Mechanical and Electrical Engineers	**TBC**		
Health and Safety Executive	**TBC**		
Hospital	**Whittington Hospital**	**020 727 3070**	
Fire Service		**999 / 101**	
Police		**999 / 101**	

Milestone Infrastructure Team:

Name and address	Contact name	Telephone number	E-mail
Milestone **Managing Director**	**Adrian Cooke**	01438743744	Adrian.Cooke@milestoneinfra.co.uk
Milestone **Operations Director**	**Mark Shopland**	07770878219	Mark.Shopland@milestoneinfra.co.uk
Milestone **Contracts Director**	**Anthony Brown**	07885965606	Anthony.Brown@milestoneinfra.co.uk
Milestone **Senior Contracts Manager**	**Alan Babbage**	07817933067	Alan.Babbage@milestoneinfra.co.uk
Milestone **Senior Project Manager**	**Hassan Soboh**	07850652406	Hassan.Soboh@milestoneinfra.co.uk
Milestone **Site Agent**	**Ryan Carley**	07811581072	Ryan.Carley@milestoneinfra.co.uk
Milestone **Senior Engineer**	**Arturas Niemcinskas**	07388369525	Arturas.Niemcinskas@ milestoneinfra.co.uk
Milestone **Head of Quality**	**Jane Bennewith-Stubbs**	07812237700	jane.bennewith-stubbs@milestoneinfra.co.uk
Milestone **Environment Manager/Advisor**	**Amy Redpath**	07526193951	Amy.Redpath@milestoneinfra.co.uk
Milestone **Health and Safety Advisor**	**Kenneth MacKellar**	07594512088	Kenneth.MacKellar@milestoneinfra.co.uk
Milestone **Lead Planner**	**Jason Austin**		Jason.Austin@milestoneinfra.co.uk
Milestone **Managing Quantity Surveyor**	**Siobhan Barr**	07891145935	Siobhan.barr@milestoneinfra.co.uk

Supply Chain: to be completed pre-commencement

Package no	Package name	Name and address	Contact name	Telephone number	E-mail
	Demolition				
	Bridge				
	Fencing				
	Formwork / Concreting				
	Kingpost				
	Groundworks				
	Landscaping				
	Monitoring equipment				
	Piling				
	Road marking				
	Scaffolding				
	Surfacing				
	Tensar				
	Timber Fencing				
	Traffic Management				

3. Key Project Risks Highlighted (and details of where full information held)

Existing Services and Suppliers (including Emergency Contact Details)

The following existing services and supplies are on site:

Service Type	Location known?Y or N?	Dead or live?	Supplier	Contact details	Drawing reference	Drawing location
Gas LP	Y	Live	Cadent	Plant Protection Team T: 0800 688 588 plantprotection@cadentgas.com	Line search dwg	19647319 Cadent Gas
Clean and Waste water	Y	Live	Thames Water	Developer.services@thameswater.co.uk 0800 009 3921	Line search dwg	Clean / waste water plan a3 drawing
LV / HV	Y	Live	UKPN	105 Or 0800 31 63 105	Line search	29647319 UKPN
Telecoms	Y	Live	Virgin	Ryan Williams 07985805622	Line Search	VMCIP408012

Client H&S File

The Clients existing H&S file is available in: WSP – Generic Quantitative Risk Assessment

This identified that the existing structure presents the following risks:

Existing risks identified in Clients H&S File
Asbestos Containing Materials – Low risk – but possible as made ground is present
Contaminants within made ground – low risk – but possible as made ground is present

Unexploded ordinance – low risk – but possible due to mix of made ground and natural ground
Substance risks: L002 - Sand L003 - Natural Aggregates L007 - Dust from cutting of softwoods L008 - Dust from cutting of macadams/asphalts Coated Roadstone (Macadams/HRA) M010 - Thermoplastic M012 - Cement M013 - Cementitious Mortars and Grouts M014 - Concrete M016 - Bitumen Cutback M018 - Dust from cutting cement, concrete, etc. M022 - Solvent Based Concrete Curing Agents H001 - Polyurethane Bridge Deck Waterproofing H002 - Polyurethane Primers/Undercoats/Finishes

Designers Residual Risk Register

The Designers residual risk register is available in: WSP – Generic Quantitative Risk Assessment
This identified that the existing structure presents the following risks:

Existing risks identified in Designers residual risk register
Risk assessment include reports and risk assessments on all the varying risks considered at design stage :-
Risk of flooding from rivers and sea – Very Low <1 in 1000 (0.1%
Risk of flooding from Surface waters – 85% of site very low, 15% of site low, **5% of site medium – Beneath the centre of the site, along stanhope road**
Ground Stability – Collapsible deposits – very low Compressible deposits negligible Ground dissolution – negligible Landslide – very low Running sands – very low **Shrinking or swelling Clay – Moderate**
Construction workers or maintenance workers may com in contact with contaminated soils/groundwater during ground maintenance works – the risk is considered to be **Low to Moderate**
The Site is underlain by the London Clay Formation which has the potential to contain elevated sulphate levels, therefore, there is the potential for chemical attack on below ground concrete structures. Given the historical uses on the Site, there is the potential for hydrocarbons to be present in shallow soils which have the potential to permeate into plastic pipes. The risk to infrastructure is considered to be **Low to Moderate.**
Based on the findings of the Preliminary Conceptual Site Model, potential contaminant linkages were found to be **Low to Moderate Risk** with regard to construction workers, infrastructure (buried utility pipes) and new soft landscaping. However, it is understood that existing soils will require off-site disposal as part of the project's construction work. Exploratory hole locations were therefore positioned to primarily target Made Ground embankment fill located beneath the footpath that will require off-site

disposal, and additionally to inform the Client on potential contaminated land liabilities, waste characterisation and potential remediation solutions for the Site.
No exceedances of the soil GAC for a Parks Public Open Space end land use were detected. As such there is considered to be a **Low risk** to future Site users across the Site both in areas of hardscaping and soft landscaping.
Asbestos containing materials were not identified during laboratory testing therefore, based on the proposed Site use, the risks to the Site users are considered to be **Low**. Given the heterogeneous nature of the Made Ground deposits, the potential for the presence of asbestos within Made Ground
Given the nature of the Proposed Development, the potential for ground gases and volatile vapours to accumulate is minimal. The risk from ground gases and volatile vapours for future site users, workers and third party neighbours is considered to be **Very Low**. No source of ground gas has been identified and existing soils are to be disposed off-site. Therefore the risk to construction workers or maintenance workers from inhaling ground gases and vapours during groundworks is considered to be **Very Low**. Risks to construction workers should be managed via Health and Safety protocols during the works.
No exceedances of the GAC for a Parks Public Open Space end land use were detected. Nevertheless, existing soils are to be removed and disposed off-site and thus the risk to future site users, construction workers, maintenance workers and third party neighbours is considered to be **Very Low.** During the construction phase of the project, an Environmental Management Plan is expected to be prepared to mitigate against uncontrolled surface water and silt runoff from the Site. Any new soils imported to Site are expected to be certified clean and suitable for use. A Discovery Strategy will be in place during the construction works for the unexpected discovery of unknown contamination.
Given that the London Clay Formation (unproductive strata) underlies the Site and immediate area surrounding the Site, there is no laterally continuous groundwater body underlying the Site. Therefore, there is no active contamination pathway for contaminants to migrate in groundwater from offSite sources and impact infrastructure and services. The risk is considered to be **Very Low**

Table 8-1 - Summary of Preliminary Waste Classification

Strata	No. of Samples	Preliminary Classification	Depth Range (m bgl)
Topsoil	1	Non-Hazardous	0.0 – 0.50
Made Ground	4	Non-Hazardous	0.80 – 3.50
Made Ground/ Reworked Ground	1	Non-Hazardous	1.0 – 1.40
Reworked Ground /Relict Topsoil	1	Non-Hazardous	4.00 – 4.50
RTD	1	Non-Hazardous	2.00 – 2.50

Table 8-2 – Summary of WAC Testing

Strata	Depth Range (m bgl)	Number of Exceedances of Landfill WAC Limits	Eluate Exceedances
Made Ground	1.50 – 1.80	1 of Inert Waste Landfill	Fluoride
Made Ground	0.50 – 0.80	0	N/A

The intrusive ground investigation works were undertaken by WSP between 18 May and 19 May 2023. The ground investigation included the advancement of five windowless sample boreholes (WS01 to WS05) to depths of 5.00 m bgl. Based on the ground model, although there were anthropogenic brick inclusions throughout the Made Ground and reworked soils were present; no visual or olfactory evidence of contamination was identified during the investigation.
Asbestos was not identified in any of the eight soil samples tested therefore, based on the proposed Site use, the risks from exposure to asbestos contaminated soils to future Site users are considered to be Low. However, the potential for the presence of unknown asbestos within Made Ground in other areas of the Site cannot be discounted
No groundwater was encountered during the ground investigation. Due to the absence of shallow groundwater at the Site and presence of the London Clay Formation, there is not considered to be a controlled waters risk for the Proposed Scheme as no controlled water receptor is present.
A preliminary waste classification assessment undertaken using the HazWasteOnlinetm tool assessed all eight soil samples submitted for analysis as non-hazardous. WAC testing undertaken on two soil samples indicates that for waste disposal to landfill, the soils on Site could fall within the inert classification

Asbestos Register, Ground Surveys etc.

The following surveys are available:

Survey Type	Survey reference	Survey date	Location of survey document	Appendix number
Asbestos	WSP Quantitative Risk Assessment			
Lead	TBC			
Contaminated Ground	WSP Quantitative Risk Assessment			
Topographic Survey	WSP 919401A 01-03			

4. Management Structure

Health & Safety Roles and Responsibilities

Organogram

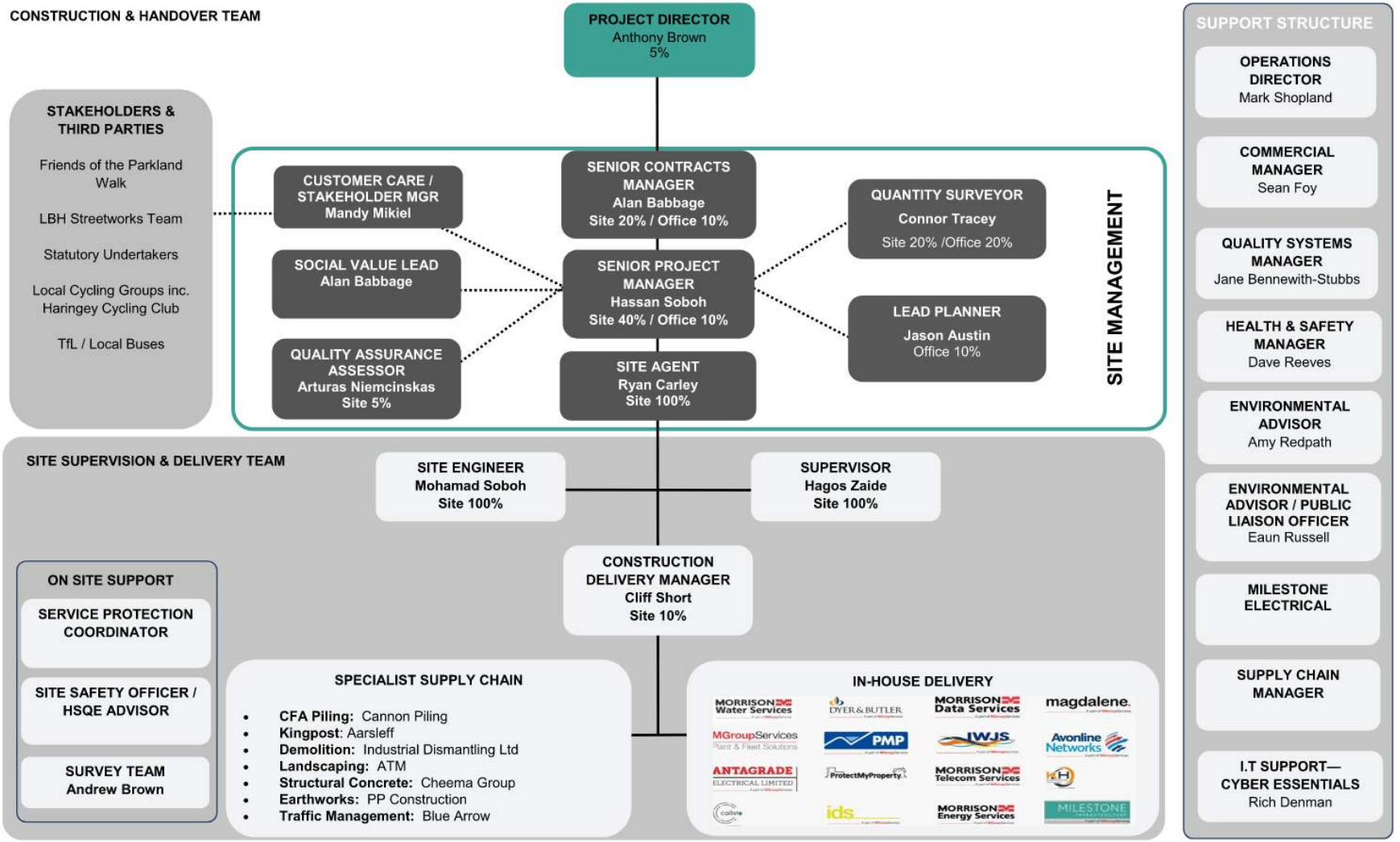
The management structure of the site team is shown in the organogram in below.

An up-to-date chart will be maintained whenever staff change announcements are made or new starters are appointed.

All employees will be responsible for the implementation of the relevant requirements of the Construction Phase Health and Safety Plan and will be familiar with and demonstrate commitment to the implementation of these policies.

- Take care of the health and safety of themselves and others who may be affected by their acts or emissions
- Co-operate with Milestone Infrastructure/Supply Chain in fulfilling their statutory obligations
- Co-operate with Milestone Infrastructure/Supply Chain in its pursuit of continuous improvements of its safety, health and environmental performance
- Implement the relevant arrangements described in this document
- Behave responsibly and work safely at all times, without risk to safety, health or the environment
- Conform to the requirements of this plan
- Constantly monitor their workplace for potential hazards and risks and alert their immediate line manager if any are observed
- Be responsible for making themselves familiar with the requirements of the staff training matrix and ensure any training requirement is brought to the attention of their line manager.

ORGANOGRAM —TEAM STRUCTURE



Coordinators/Appointed Persons

Milestone Infrastructure appoint competent people to the role of Duty Holders/ Appointed Persons on site to manage specific risks associated with the works. The following table identifies the Duty Holders/ Appointed Persons roles which are required for this site.

Duty Holder/ Appointed Persons role	Name	Name	Name
Confined Space coordinator	Hassan Soboh	Ryan Carley	Mohamad Soboh
Hazardous Substance coordinator	Ryan Carley	Mohammad Soboh	
Hot Works coordinator	Ryan Carley		Arturas Niemcinskas
Lifting Appointed Person (Intermediate/ Complex)	Gohar Hayat		
Lifting Appointed Person - Routine/ Basic (Excavators, telehandlers, HI-AB's)	Hassan Soboh	Ryan Carley	Mohamad Soboh
MEWP coordinator	Hassan Soboh	Ryan Carley	
Scaffold Appointed person	Hassan Soboh		
Underground Service coordinator (Buried services)	Hassan Soboh	Ryan Carley	Mohammad Soboh
Temporary Works Coordinator	Hassan Soboh	Ryan Carley	Arturas Niemcinskas
Temporary Works Supervisor	Mo Soboh	Mohamad Soboh	
DSE Assessor (Display Screen Equipment)	Hassan Soboh		
Fire & Emergency Warden	Hassan Soboh	Ryan Carley	Arturas Niemcinskas
Fire Risk & Emergency Coordinator			
First Aider (3 day)	Ryan Carley	Arturas Niemcinskas	Mohammad Soboh
Evidence Gatherer	Ryan Carley	Arturas Niemcinskas	Hassan Soboh
Incident Investigator (1 Day)	Ryan Carley	Hassan Soboh	Mohamad Soboh
Lead Incident Investigator (NOTE: This is your HSW Manager/ advisor)	Tayla Khan	Kenneth MacKellar	
Lifting Supervisor (Intermediate or Complex)	Hassan Soboh	Ryan Carley	Mohamad Soboh
Step Ladder & Ladder Coordinator			
Traffic Management Coordinator			
RAMS Reviewer	Hassan Soboh	Arturas Niemcinskas	Ryan Carley
Environmental Spill Coordinator	Hassan Soboh	Arturas Niemcinskas	Ryan Carley
Waste Coordinator	Hassan Soboh	Ryan Carley	Arturas Niemcinskas
Permit to Pump Approver / Coordinator			

The appointments matrix is maintained on site.

Health and Safety Vision and Goals

Health & Safety: Putting the health, wellbeing and safety of people first

We work safely or not at all; we never walk by if we notice unsafe conditions and we support health and wellbeing.

Inspections and Audits

A programme of H&S audits and monitoring will be developed (in accordance with Milestone Infrastructure procedures) for the project to ensure compliance with legal and company procedures. These will consist of internal and external audits, site inspections and monitoring of works activities as per the duties of the management chart.

Supply Chain will be advised during the Pre-Start meeting on the frequency of inspections they are required to carry out.

The Project Health and Safety Manager will brief all project personnel on trends that arise from such reports with clear action plans to prevent reoccurrence.

Positive Interventions

Milestone Infrastructure use a Positive Intervention system for reporting any issue relating to unsafe acts or conditions on site and for reporting best practice. This procedure will be communicated during the induction process.

Project KPI's

We will monitor the health and safety performance of the project, its staff, trade contractors and the business as a whole to ensure that we achieve what we have planned and work to improve. Site safety performance shall be measured in the same way, with projects being monitored against set Key Performance Indicators. These KPI's are:

KPI
1 Scheme record compliance
KPI 1.1 Accuracy and completeness of as-built records on completion
2 Risks
KPI 2.1 Number of Risk Reduction meetings successfully attended by Client and Contractor / Supplier with the most appropriate representative
3 Quality of work
KPI 3.1 Overall method of working approach - quality and how this worked in practice
KPI 3.2 Record the number of defects from the starting date to completion.
4 NEC compliance
KPI 4.1 Have all notifications and requirements under the NEC4 Contract been completed in accordance with the contract (inlcuding the programme)
5 Total time
KPI 5.1 Planned duration at starting date versus final actual duration
6 Health and Safety
KPI 6.1 Audit of health safety & welfare provisions on site using available data & reporting

Arrangements for: -

Regular Liaison Between Parties on Site

Good co-operation and co-ordination of work is essential if risks are to be identified early on and properly controlled. Liaison between all parties (Designers, Principal Contractors, Contractors and the Client) will be maintained by utilising the following means:

- Monthly Health & Safety Meetings
- On site meetings
- Subcontract documentation
- Notice boards
- Committee meetings
- Toolbox talks
- Pre-commencement meetings
- Inductions
- Contractors seminars

All Supply Chain will be provided with a copy of this Construction Phase Health and Safety Plan and will be required to make any necessary allowances to enable full compliance with the content of this plan.

This Construction Phase Health and Safety Plan and all associated documents will be available on site at all times for review by interested parties.

Consultation with the Workforce

Health, safety and environmental issues will be discussed at the following monthly meetings: Supply Chain Supervisors/Managers and General workforce.

Supply Chain are to nominate their representatives and issue the names to the project management team at the start of their contract.

Views of the Operatives in the Construction Environment (VOICE) – establish a regular VOICE meeting at which the attendees have the opportunity to raise and discuss the health, safety and welfare comments (including concerns and recommendations) of the workers they represent:

The meeting will be chaired by a VOICE Co-ordinator appointed by the Project/Contract Lead.

Milestone Infrastructure VOICE coordinator			
Name	Mohammed Soboh	Role	Site Supervisor

- Prior to the meeting, each representative shall consult with the individual workers they represent and collect their respective comments using the VOICE Consultation Minutes.
- The Co-ordinator shall encourage attendees to discuss workforce comments openly and constructively

- The Co-ordinator shall minute all comments from attendees and produce a comprehensive log of issues for submission to the Site Manager
- Upon receipt of the issues arising from the attendees the Site Manager shall identify the remedy for each and the action date. This information shall be publicly fed back to workers by appropriate means e.g. You Said, We Did Boards

Notice boards will be located throughout the project to ensure information is communicated to all personnel on the project.

Non-English-speaking workers will only be allowed to work on site in compliance with the following:

- Generally every worker will need to demonstrate that they have an understanding of the English Language

If non-English speaking Supply Chain are required to carry out works, the following will apply:

- Induction, method statements and risk assessments are translated into the mother tongue by the Supply Chain
- One English speaking worker who can communicate in the language of the group to every four operatives
- Access to site is at the discretion of the Principal Contractor

Selection and Control of Supply Chain

Supply Chain will be selected via a two-stage approach. Action plans will be developed to address issues that arise from the audit to ensure close out is reached before an order is placed.

Supply Chain who plan to contract the works out must ensure competence checks are carried out on all contractors tendering the works and evidence of such checks made available to the project management team before works starts.

Employers are accountable for the actions of their employees and as such maybe requested to attend site if a problem cannot be addressed at site level following the conduct of one or more of their employees.

Supply Chain will be audited throughout the duration of the project at regular intervals, i.e. after 6 weeks on site, then every 3 months until completion or if the need arises. Milestone Infrastructure will undertake these audits to ensure compliance with legal requirements and compliance with this plan. Contractors are expected to hold the necessary documentation in an auditable manner and this will be countersigned during the audit process and recorded within the report.

The level of supervision will be based on levels of risk. A Supervisor is permitted to control a maximum of 12 operatives (1:12 ratio). The project management team will agree with the Supply Chain a suitable level of supervision and if they should be working or non-working.

Suppliers of materials are required to provide adequate health and safety information to support their products. Trade contractors are to ensure suppliers include specialist handling and storage instructions for materials.

Milestone Infrastructure CoSHH co-ordinator will co-ordinate the dissemination of CoSHH information relevant to each trade contractor where interface is likely.

All Supply Chain and suppliers of plant and equipment shall ensure that all plant delivered to site and all vehicles delivering plant and or materials, where applicable comply with current legislative, code of practice and local guidance requirements with regards to noise, dust and emissions production.

If plant is supplied by Supply Chain, then they shall be audited against their own delivery/fit for purpose procedures. Where a company doesn't have a procedure or where it is of a lesser standard than Milestone Infrastructure then they shall comply with Milestone Infrastructure procedure.

All electric power tools and associated equipment (including extension leads) shall by physically checked and tested and certified by a competent person every three months. A register shall be maintained on site showing the items of plant, its unique identity and the date of test. Every contractor is required to produce certification for any power tools brought onto site and to subsequently carry out maintenance and inspection in accordance with legislation.

Routine inspection of plant and equipment shall be undertaken as per legislative requirements, a copy of the plant weekly inspections shall be deposited with Milestone Infrastructure.

5. Exchange of Health and Safety Information between Supply Chain

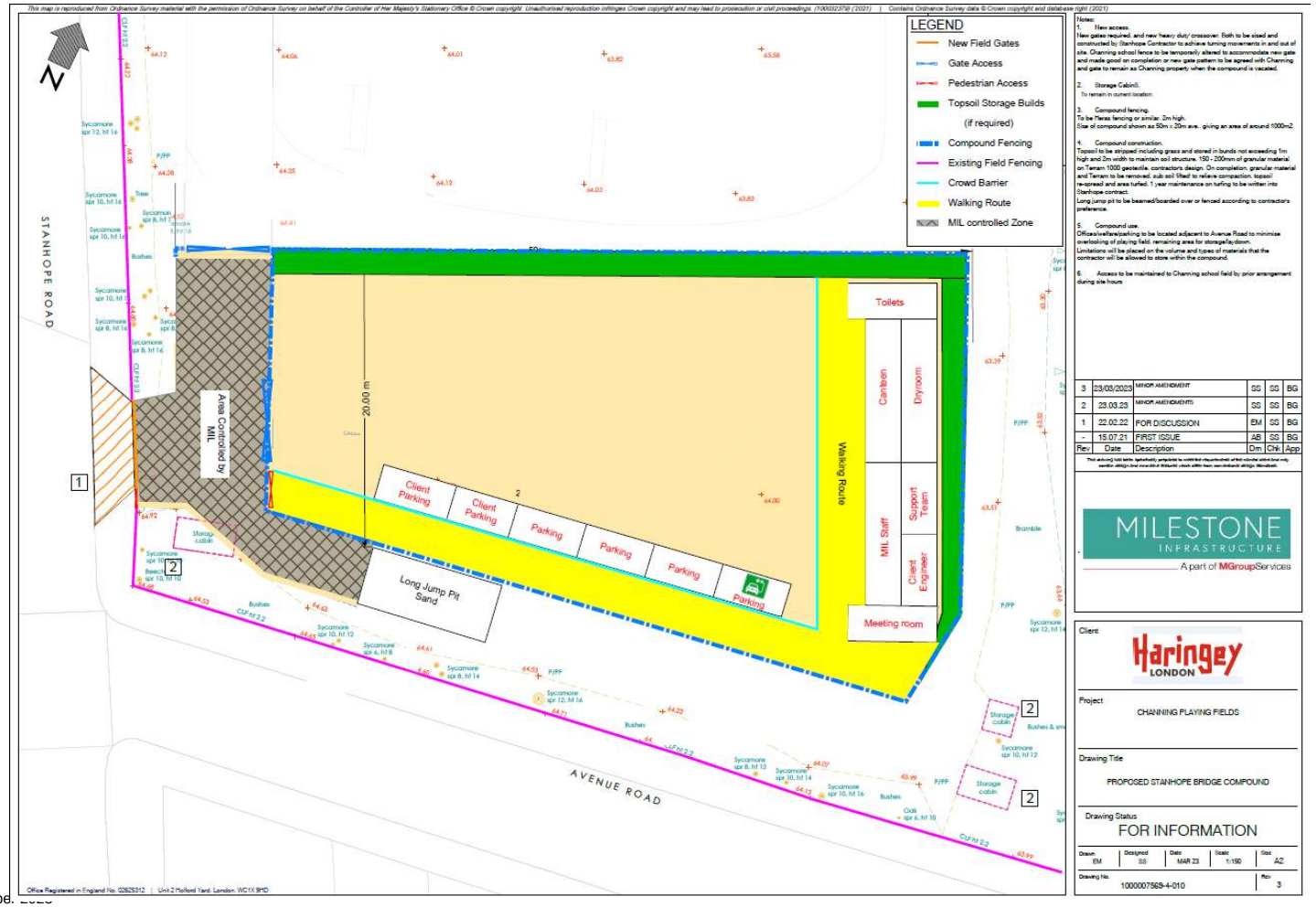
Supply Chain Supervisors will liaise with other trades working in their area and discuss the impact of their work on others (risks and controls etc.).

6. Site Security

The site will be protected with water filled barriers and anti-climb fencing in order to prevent unauthorised access. All fencing panels will be double clipped, adequately footed and kept closed at all times when not being used for access.

On this project access to the site will be maintained in the following way:

The site compound will be set up within the Channing School playing fields park on the corner of Stanhope Road and Avenue Road, the field is a secure field with high fencing and barbed wire with secure gated access. The compound within this field will consist of additional temporary fencing and gated access with chains and padlocks and CCTV will be set up at access points to the compound stored within an on site server, remote monitoring for the site management team will also be set up. A general arrangement of the welfare compound can be found below



7. Site Induction

Personnel requiring access to site will undertake a site induction prior to entry. The aim of the induction is to ensure those working on or visiting the project understands the key risks of the project, the emergency procedures and standards required whilst on the project. Regular reviews of the induction will be undertaken throughout the lifespan of the project and revised accordingly.

Competence cards such as CSCS, JIB, and CPCS etc. must be shown at induction. If a card is available for the occupation (BUILD UK Accepted Record Scheme) then that card must be shown. Checks will be carried out on personnel to ensure the right card is held for the occupation and if not acceptable that person may not be permitted to work on site. Prior to this induction Supply Chain must conduct their own induction for new starters.

Visitors will undertake a shorter version of the normal induction and will be escorted at all times by a fully inducted person.

Supervisors will attend a Supervisor brief immediately after the site induction; this is mandatory for all supervisors working on site.

8. On Site Training and Competencies

Personnel on the project will undertake a programme of health, safety and environmental training that will be conducted both on site and off site

A training matrix will be held in the project office for all Milestone Infrastructure personnel and Supply Chain are requested to have their own employees training matrix available for audit purposes.

Supply Chain are reminded that it is a legal requirement to train all personnel in their employment and Milestone Infrastructure will not accept untrained personnel working on its site.

Toolbox talks – These will be carried out on a regular basis; as a minimum, personnel will be expected to have one per fortnight. Toolbox talk attendance logs are to be recorded using form **MIL_FOR_HS_004.3 – Briefing Record** and to be uploaded to Competency Cloud.

Managers – Each manger will hold the necessary competency card for their specific job role, CSCS Managers cards etc. (see BUILD UK Accepted Record Scheme). Milestone Infrastructure require managers to hold a level of health and safety training qualification, i.e. Construction Skills Site Managers Safety Training Scheme (SMSTS) or equivalent.

Supervisors – Each Supervisor will hold the necessary competency card for their specific job role, CSCS Supervisors card etc. (see BUILD UK Accepted Record Scheme). Milestone Infrastructure require supervisors to hold a level of health and safety training qualification, i.e. Construction Skills Site Supervisors Safety Training Scheme (SSSTS) or equivalent.

Operatives - Each Operative will hold the necessary competency card for their specific job role, CSCS/CPCS/IPAF card etc. (see BUILD UK Accepted Record Scheme). Milestone Infrastructure require operatives to have obtained or be working towards their relevant health and safety training qualification.

Where there is no BUILD UK Accepted Record Scheme competency card available for a specific occupation, contractors must supply relevant proof of competency at Pre-Start meeting and the project management team will make a decision as to whether the person is allowed to work on site.

9. Site Welfare and First Aid Facilities

An adequate site set up and suitable welfare will be set up in advance of works commencing, in line with the requirements of CDM 2015.

The welfare will consist of the following as a minimum:

- Male toilet with washing and drying facilities
- Female toilet with washing and drying facilities
- Drying room/locker room
- Canteen
- Kettle/fridge
- Drinking water
- Provision for heating food

The site office and welfare layout plan, refer to: **Appendix D.**

First Aiders are to be nominated and details passed to the project management team before starting work. Within the main office facility there will be a minimum of two First Aiders at all times, details will be listed on the posters within the main office.

A First Aid box will be available in the main site office and maintained by the Appointed Person, the appointed Milestone Infrastructure First Aiders are:

Named First Aiders:
Ryan Carley
Arturas Niemcinskas
Mohammed Soboh
Mohamad Soboh
Hagos Zaide

Supply Chain will supply adequate First Aid boxes for their workforce.

Supply Chain must ensure they have sufficient First Aid cover proportionate to their task(s).

Details of the nominated First Aiders will be identified in the Method Statement.

Supply Chain without their own First Aid cover will only be permitted to work if they can obtain cover from other contractors or Milestone Infrastructure. **NO FIRST AIDER – NO WORK!**

All First Aiders must provide evidence of their training and expiry dates to the project management team before they start on site.

First Aiders will be identified by either a green hard hat or green and white sticker on their hard hat.

Legionella

All water systems within the site have monthly temperature checks conducted. These checks are to be carried out, recorded and held within the site safety file.

All water systems must be inspected and flushed at regular intervals.

Service	Task Description	Frequency
Hot Water Services	Check temperatures and document flow and a return at calorifiers	Monthly
	Check water temperature up to one minute to see if it reaches 50°C in the sentinel taps	Monthly
	Arrange for samples to be taken from hot water calorifiers, in order to note condition of drain water	Annually
	Check representative taps for temperature as above on a rotational basis to survey all taps in building each year	Annually
Cold Water Services	Check that temperature is below 20°C after running the tap for up to two minutes in sentinel taps	Monthly
	Check representative taps for temperature as above on a rotational basis	Annually
	Visually inspect cold water storage tanks and carry out remedial work where necessary	Annually
	Check representative taps for temperature as above on a rotational basis	Annually
Little Used Outlets	Flush through and purge to drain, or purge to drain immediately before use without release of aerosols	Weekly
Site	Water services check to ensure on-going compliance of site water system plant and services with current guidelines and recommendations (As expanded under ACOP L8: Para 182)	Annually
Site Shower Heads	Shower heads where installed should be routinely clean and disinfected to reduce the associated risk of scaling which may provide a growth media for the proliferation of bacteria	Quarterly

10. Reporting and Investigation of Accidents and Incidents

All personnel working on the project will report any unsafe act, unsafe condition or incident that could have or did result in an injury or damage being sustained. The reporting procedure (including Positive Interventions) will be explained during the site induction.

All incidents must be reported the project management team; details will then be entered onto the Milestone Infrastructure Incident Database. Supply Chain are responsible for

completing the RIDDOR report (F2508) and copies supplied to the project management team and followed by a detailed investigation report.

The project management team will ensure that all such reports are acted upon, and the root causes are identified and communicated to the workforce so lessons can be learnt to prevent reoccurrence; these will be published on various notice boards throughout the project.

Incident Notification and Lessons Learnt – are all vital means of communicating effectively across Milestone Infrastructure. The arrangements for briefing on this project are as follows:

Arrangements for Briefings	
Incident Notification	0800 028 0676 Projects Reporting Line
Lessons Learnt	H+S Briefings
Other	Positive Interventions, Hazard Reporting

11. Production and Approval of Risk Assessments and Safe Systems of Work

Personnel are not to undertake work unless a safe system of work has been approved by the project management team. Risk Assessments, Method Statements, Permits to Work etc. will be reviewed by the project management team in advance of the work commencing; once approved the activity will be given the authority to proceed with the work.

The safe system of work must take into account the significant findings recorded on the Risk Assessment and not be a 'generic' document. Safe systems of work must be sent to the project document control for entry onto the register.

Safe systems of work will be communicated to all personnel undertaking the task and a register of attendance must be maintained.

Personnel will be questioned during routine site inspections on their knowledge of the safe system of work to ensure the paperwork actually backs up the way in which the work is undertaken.

Consultation with the workforce is vital to the production of any safe system of work to ensure a realistic but safe method of working is written.

12. Pre-task briefings

All members of the workforce should be set to work by a competent supervisor / site management who briefs the workforce on the tasks they will undertake, the risks they will face and how the risks will be controlled. Lessons learnt from the previous day and the impact of the work of other contractors should also be covered.

13. Site Rules (including Drug and Alcohol Policy and Minimum PPE)

Site Rules

Upon arrival to site all visitors and members of staff are to sign in via the QR system displayed on site.
The health and Safety Plan forms the basis of Site Rules and Delivery Driver Site Rules which must be adhered to by all personnel working on the project at all times. Failure to comply with this plan may result in personnel being removed from site by the project management team.

- Full site rules are detailed in **Appendix A**
- Delivery Driver Rules in **Appendix B**

Drugs and Alcohol Policy

Milestone Infrastructure operate a zero tolerance to drugs and alcohol use on all its sites. Personnel will be subject to random or for cause testing at various times throughout the project. Personnel who refuse to undertake a test or those who test positive will be removed from site immediately and refused access to site in the future.

Following an incident on site, personnel maybe requested to undertake a test to establish if drugs or alcohol were a contributory factor to the reason why the incident occurred.

Personnel who are taking prescriptive medication must inform the project management team at the earliest opportunity, i.e. when starting on site, as this may be detected on the test results.

Personal Protective Equipment

The mandatory PPE for the project is as follows:

- **High Visibility jacket/vest**
  - Banksman/ Slinger/ Signaller – Orange
  - All other personnel – Yellow
- **High Visibility trousers**
- **Safety boots**
- **Safety Helmet**
  - Black - Supervisor
  - Orange – Slinger/signaller
  - White – Site manager/competence operative
  - Blue – All those coming to site who do not fall into any of the aforementioned categories
  - All helmets must meet British Standard BS EN 397.

- **Gloves**
  - Specific gloves for the task to be undertaken. Operatives may require several types of gloves to undertake their task; these will be made available by their employer.

- **Eye protection**
  - Must be Optical Clarity 1 and Impact Strength F, (Class 1F) for day-to-day use. Task specific requirements apply. Tinted lenses are permitted for outdoor use on bright sunny days; however they are not permitted for use in poor visibility conditions.
  - Personnel who wear prescription eyewear must obtain prescriptive safety eyewear if they are working on site. Prescriptive safety eyewear is rated to take impact both on the frames and the lenses whereas normal glasses do not afford this level of protection. It is not acceptable to wear over glasses for long periods of time and will only be permitted on this project for short visits.

- **Task Specific**
  - Breaking ground
    - All personnel involved in breaking ground activities must wear FR ARC 1 Rated protective clothing (all-in-one coveralls and gloves). This includes those who are within 5m of the breaking ground activity.
    - Plant Operators may choose not to wear FR ARC 1 Rated protective clothing with the exception that the plant cabin windows and doors remain shut for the duration of the breaking ground activity.
  - Additional task specific PPE to be risk assessed.

14. Fire Risk and Emergency Arrangements

The project emergency procedures take into account fire, explosion, service strike, accidents and incidents.

The Fire Risk & Emergency Plan is provided in **Appendix E**

Fire – A Fire Strategy will be developed as the site progresses and will include means of alarms, such as remote electronic sounders, muster and fire extinguisher points and evacuation procedures. During the demolition phase each building will be fenced off and have appropriate fire-fighting facilities within its boundary. Muster points will be established and details displayed on notice boards throughout the site and communicated to all site personnel.

Explosion – In the event an explosion occurring the immediate area must be secured and made safe before any first aid treatment can be administered. All none essential personnel are to be kept out of the area. The Police and project team must be informed immediately of the location, casualties and any other relevant information.

Service Strike – In the event of a service being struck during construction work the area is to be made safe and the project management team informed immediately. The project management team will inform the service provider immediately and jointly co-ordinate the repair of the services. A detailed investigation will be undertaken to establish why the service was struck.

Accident & Incidents – All accidents and incidents must be reported to the project management team to allow the investigation process to begin. Initial details will be collated by the supervisor or manager responsible for the works, i.e. brief statements from witnesses, photos and measurements etc. It is important to leave the scene of all accidents and incidents untouched to preserve evidence for the investigating person (Project Health and

Safety Manager) who will conduct a full investigation; only preserve the area if safe to do so. All incidents will be recorded on the EHS Database.

15. Arrangements for Controlling Significant Site Health and Safety Risks

Control of Key risks

The key risks on this project are deemed to be as follows (NOTE: consider risks identified in existing H&S file and designers residual risk assessment):

NOTE: This section needs to be amended/added to in order to cover the specific risks detailed in the table above

Delivery of Materials and Work Equipment

To prevent/ease congestion to nearby residents, business or schools Milestone Infrastructure shall plan deliveries on a two week look ahead schedule to ensure materials and work equipment being delivered to site are pre-arranged in a designated time slot

Deliveries will be permitted on site between these times		
Day	**From**	**To**
Monday - Friday	09:00	15:00
Saturday	Pre-agreed only	Pre-agreed only
Sunday	Pre-agreed only	Pre-agreed only

Delivery Drivers must be escorted at all times by a member of the project management team.

All plant and equipment arriving on site must be compliant and the relevant certification provided i.e. test certificates, thorough examinations, inspections etc. and must be checked before being used on site.

For out of hours loading and unloading special considerations must be required and planned in the risk assessment and method statement. This will include the enhanced risks and environmental considerations e.g. local authority acceptance, neighbour & other stakeholder acceptance, noise, light etc.

No out of hours offloading will be carried out without the risk assessment and method statement and the controls in place.

A. Arrangements for Loading and Unloading

Identification of Loads

Milestone Infrastructure standards require formal planning for medium and high risk loads as defined by this list below:

- Pre-cast elements
- Steel elements or steel structures
- Timber

- Pipes
- Plant and machinery
- Facilities
- Fuel or chemical containers
- Heavy packages or pallets
- Pre-assembled pipe racks
- Other

Any organisation (Supply Chain/ Contractor or Milestone Infrastructure) that is responsible for the delivery of a Medium or High risk load to site must ensure that it is specified within their Safe load Risk Assessment. All Supply Chain/ Contractors must complete a Safe load Risk Assessment and it must be included with RAMS submissions, even if it a 'nil return'

If the criteria set out within the completed Safe load Risk Assessments are not complied with then the unloading cannot take place.

Loading and unloading location(s)

Identify where unloading is authorised. Keep this updated throughout the project as locations are added or changed. Include any specific controls and detail measures to ensure the exclusion of unauthorised persons.

There may be a need to specifically detail safe offloading and methodology if unloading is required to be completed outside the site confines. For example, for low loaders.

Refer to Appendix D for Unloading Plan

Plant and Equipment

The plant and equipment to be provided on site is detailed below. If the load needs further specific arrangements this must be fully identified in the risk assessments and method statement.

Loads being lifted will be subject to the project/contract lift plan.

Identify what plant and equipment is provided by Milestone Infrastructure on this project to offload e.g. tower crane, forklift etc and the facilities such as loading bays, running line and fall restraint attachments. Detail information such as capacity of plant, lifting equipment, capability, restrictions etc.

Plant	Equipment	Measures to access vehicle safely	Measures to prevent falls from vehicles
Excavator			
Mobile Crane			
MEWPs			
Forklift			
Hiab			

Unsafe loads

No unloading will be undertaken if, on arrival the load is unsafe to offload, or it has shifted in transit. In these circumstances Milestone Infrastructure will decide if it is safe to send the vehicle away in conjunction with the driver. Only if it is safe to do so can the load be unloaded, however a risk assessment and method statement must be completed and briefed to all those involved in the activity.

B. Dealing with Services

Underground services running throughout the construction zone have been identified, however, Information available for the existing services cannot be totally relied upon and therefore CAT scan, Radar scan, Vacuum Excavation, handing digging etc. maybe required to identify live services. Caution must be taken, and all services treated as live and a permit to work obtained.

C. Adjacent Land and Building Use

During the enabling works protection of third-party personnel and property must be closely monitored as a high priority. Any works that create an unsafe condition will be suspended immediately and made safe followed by disciplinary procedures where appropriate.

D. Stability of Structures

A comprehensive demolition plan will be produced by the Demolition Contractor undertaking the demolition of existing buildings and will take into account the stability of structures and the safety of all personnel involved. Demolition work will only proceed on approval of the plan and a restricted zone implemented to project other workers. Structures being demolished are not to be left in a temporary state unless they are adequately supported and signed off by a qualified person or the Temporary Works Coordinator.

New structures are to be constructed as per the design and inspected by a competent person. Temporary structures must be used for its intended purpose only and must not exceed the safe working load (if applicable); inspections of the structures will be carried in accordance with the legal requirements and Milestone Infrastructure Engineering Management procedures.

All scaffold structures will display a ScaffTag Inspection Record tag and signed by a competent person in accordance with the guidelines.

E. Working at Height

Falls from height remains the biggest killer in the construction industry however if properly planned accidents can be avoided. The following hierarchy must be applied when working at height:

- Avoid the need to work at height (design out the risk)
- Prevent falls (collective protection measures (guard rails) before personal protective measures (working in restraint)
- Minimise the distance of fall (nets, airbags, fall arrest harnesses)

All work equipment used to prevent falls will be fit for purpose and conform to legal requirements. If contractors are required to use access equipment such as Aluminium Towers, Podiums etc. they will ensure a selection of sizes are available to the workers.

Workers found to be working unsafely, i.e. standing on guardrails to gain height, will be disciplined and maybe removed from site. If workers are having difficulties reaching their place of work they must stop work immediately and consult their supervisor.

Devices fitted for safety must be used at all times, i.e. wheel locking devices and workers are reminded not to pull themselves along whilst using access equipment.

If harnesses are to be used they must be fit for purpose, workers trained in their use and understand the dangers' arising from falls (suspension trauma etc.), inspected by a competent person and stored correctly. Anchorage points must be tested and be suitable for the task.

All access equipment will be clearly identified, i.e. ScaffTag system etc.

The use of ladders and stepladders is permitted however personnel must demonstrate that all other options have been considered and a risk assessment completed before the Milestone Infrastructure Ladder permit is issued. Ladders must be tagged and inspection records held for each ladder and when not in use secured in such a way as to prevent other personnel from using them. Ladders and stepladders are the LAST RESORT.

The Milestone Infrastructure **MIL_PRO_HS_015 Working at Height Procedure** identifies the requirements of all Working at height activities. Where Working at Height activities have been identified the form **MIL_FOR_HS_015.1 Working at Height Operations and Rescue Plan** must be produced to manage the risk.

The contents of the procedure applies to all Milestone Infrastructure activities and of our **Contractors / Subcontractors**.

Any additional requirements that are imposed by client's instructions must be considered in addition to the arrangements specified below.

F. Work With or Near Fragile Structures

A full task and location specific RA & MS for works involving the demolition of the existing bridge structure and abutment walls will be drafted to ensure works, access and egress and demolition of the structure is completed in a safe and methodical manner.

G. Controlling Lifting Operations

All lifting operations will be co-ordinated by the Milestone Infrastructure Lifting Co-ordinator to ensure each lift is properly planned and controlled by competent personnel.

Lifting plans must be submitted to the co-ordinator in advance of any lifting operation being undertaken to allow a full review of the proposed lift. Milestone Infrastructure shall provide the Lifting Contractor the relevant information required (ground conditions etc.) to properly plan the lift.

H. Maintenance of Plant and Equipment

All plant and equipment being used on site will be maintained in accordance with legal requirements and will be suitable for the task to be undertaken. Compliance checks will be

carried out by the project management team on a regular basis and discrepancies addressed accordingly.

Any plant and equipment that falls below the required standard will be removed from service until it is repaired or replaced.

I. Excavations

All excavations will have suitable steps taken to prevent collapse and protection from falls. The person responsible for the excavation will ensure all excavations are inspected before each shift and at regular intervals throughout the day, with a written report completed.

Edge protection should be adequate for the task and appropriate to the risk; particular attention should be paid to third parties. Bunting tape will not be accepted as edge protection.

A Permit to Dig will be produced by the project management team before any excavation work starts.

During excavations all operatives working are to wear suitably classed overall protection and insulated gloves. ***Refer to MIL PPE policy.***

J. Traffic Management

Traffic routes on site shall be clearly marked and restricted to 5mph throughout site and will be segregated from all pedestrians with crossing points clearly marked.

Pedestrian access routes shall be segregated from vehicles and plant by physical barriers. Walkways and crossing points shall be appropriately sign posted, illuminated, and kept clear of any slip/trip hazards.

Details of the site layout will be available on site and updated accordingly - this will show direction of traffic, turning points, holding areas, storage areas, pedestrian crossing points, etc.

Vehicles exiting site will be checked for excess mud and where necessary pass through the vehicle wheel wash before leaving site.

Vehicle and Plant

- Where practical, one-way traffic routes will be established to reduce the need for reversing and the danger of head on collisions.
- Where two-way traffic and limited access cannot be avoided suitable passing points will be created
- Routes will be adequately lit, and sign posted.
- Vehicle routes will be designed to minimise gradients. Where significant gradients exist warning notices will be posted at head and foot.
- Traffic route surface will preferably be tarmac / concrete surface. At stages temporary concrete crushed roads may be established.
- A speed limit of 5mph will be established and displayed on all site roads and in all

work areas, which will be strictly observed and enforced throughout the duration of the project.

- Where appropriate restricted openings in structure, etc., will be identified and signed by suitable means, such as hazard strips on structure and height restriction boards.
- Wheel wash facilities will be provided as necessary to prevent the build-up of mud on public roads. Regular monitoring of the road conditions will be carried out and where necessary roads will be cleaned accordingly.
- Reverse parking policy is implemented across all projects.
- Vehicle and plant will be fitted with hazard warning lights, audible reverse warning sounder, and means of clear 360o vision for manoeurves (i.e. CCTV, Mirrors, etc.,) and seat belts.
- Plant and vehicle must be accompanied by a banksman.
- Exclusion zones for plant will be implemented on site.
- Keys will be removed from all vehicles and plant when not in use.

All Traffic Management Drawings / Sketches refer to **Appendix C**.

K. Storage of Materials

Approval for storing materials on site must be obtained from the project management teams before arriving on site. Designated areas will be allocated to each contractor and it is the responsibility of each contractor to ensure these areas are maintained and without risk to health, safety or environment, i.e. stacking of materials, chemicals etc.

Materials must have suitable arrangements put in place to prevent unnecessary damage and wastage.

16. Mobile Phones

Personnel are reminded of the dangers of using mobile phones whilst working on a construction site as they can cause the work to become distracted and unaware of the immediate environment. The following basic Principals must be applied:

- Stop work (if safe to do so)
- Move to a safe area, away from any hazards (plant and machinery etc.)
- Take the call
- End the call
- Return to the works area

Personnel who are found using a mobile phone whilst undertaking work, maybe disciplined in accordance with this plan.

17. Health Risks

To ensure that the health and wellbeing of all individuals working on Milestone Infrastructure projects/sites all contractors must ensure that they have arranged for access to occupational health services for the duration of the project/contract in line with the Occupational Health procedure **MIL_PRO_HS_022** for all employees.

This provision is necessary for advice relating to employees and workplace health issues and provision of statutory, legal or Milestone Infrastructure health assessments or surveillance requirements.

18. Asbestos and Lead

Full Refurbishment and demolition surveys will be available prior to undertaking any works which have the potential to expose asbestos. The result of all surveys will be communicated on site. All asbestos removal works will be carried out by suitable licensed and competent organisations only.

For asbestos surveys for this project refer to: **Appendix F**

Where there is a risk of lead within existing structures, a full lead survey will be carried out and communicated prior to works and suitable mitigation measures will be implemented to control the risk of exposure.

For lead survey for this project refer to: **Appendix F**

19. Contaminated land

Where there is a risk that there is contaminated ground within the existing site a full survey will be undertaken and communicated prior to works. Contaminated land will be removed by licensed and competent contractors only in order to mitigate the risks associated with contamination.

For ground survey for this project refer to: **Appendix F**

20. Manual Handling

Manual handling is to be avoided wherever possible and alternative mechanical means used. Where it is not practical to avoid manual handling best practise techniques should be employed at all times and a full risk assessment produced for the process.

21. Hazardous Substances

Supply Chain using substances hazardous to health must complete CoSHH Assessments for all products and submit the findings to the project management team prior to the works starting. Harmful materials will be minimised wherever possible by using the Milestone Infrastructure Alternative Materials Database, which highlights non-CoSHH alternatives (available from the project office).

Supply Chain are required to hold a register of all CoSHH items being used on the project. Advice on the layout of the register will be explained during the Pre-Start meeting.

Where an assessment has identified health surveillance, Supply Chain must arrange for the required surveillance to personnel concerned. This will be monitored by the project management team.

Personnel will be briefed on the assessment for the substance they are using with particular attention being paid to the health risks and first aid procedures.

Fuel Storage & Refuelling

Fuel shall be in a secure, bunded fuel storage area. All fuel must be stored in metal containers. Plastic containers are prohibited.

All fuel bowsers shall be double bunded and a drip tray provided to prevent contamination during fuelling.

All refuelling is carried out by a trained and competent person with access to the necessary fuel spill kits.

22. Noise and Vibration

All tools and equipment must be suitably selected, maintained and inspected to reduce noise and vibration so far as reasonably practicable. As minimum operatives should know their exposure limits for the equipment they are using and the steps necessary to reduce the risk. PPE must afford the appropriate level of protection as indicated by the risk assessment and manufacturers guidance.

Health surveillance for all operatives must be undertaken if there is a residual risk from noise and or vibration.

There will be appropriate noise and vibration monitors installed on Stanhope Road for the during of works.

23. Dust

Measures must be taken to reduce dust so far as reasonably practicable by use of water suppression, Local Exhaust Ventilation systems (LEV's) etc. particularly during demolition. Where these measures do not sufficiently reduce the dust, suitable face fitted RPE will be worn. Dust creation and type will be monitored to ensure ongoing effective control. Health surveillance for all operatives must be undertaken if there is a residual risk of ill health from dust inhalation.

There will be appropriate dust monitors installed on Stanhope Road for the during of works

24. Weils disease

Where there is a risk of Weils disease an education programme and hygiene procedures should be deployed to all on site. Post exposure advice should be readily available at all times.

25. Sharps and needle stick injuries

Where there is a risk of needles and other drugs paraphernalia on site a suitable clear of site will be undertaken. All those involved in site clearance will be issued with suitable puncture resistant gloves and sharps kits for effective disposal of any needles in a safe manner. Post exposure advice should be readily available at all times.

26. Work Stress

The project life cycle and demands can create work stress, therefore, measures should be put in place to identify and manage these factors to reduce the likelihood of ill health.

27. The Health and Safety File

The Principal Contractor has a duty to provide information requested by the Principal Designer for inclusion in the Health and Safety File.

Similarly, all Supply Chain have a duty to supply information requested by the Principal Contractor for onward transmission to the Principal Designer.

28. Appendices

Appendix A – Site Rules

Site Rules

Before working on site you MUST:

- Sign in and out everyday
- Participate in a site induction
- Attend regular pre-task briefings
- Read, understand and sign your Risk assessments, method statements and COSHH assessments
- Wear appropriate PPE
- Obtain a permit to work if required
- Only operate plant you are trained in, are authorised to use and hold an appropriate competence card for
- Ensure plant and equipment is tested and inspected before use and is well maintained
- Know and comply with the emergency response procedure
- Know adn comply with the accident/incident reporting procedure
- Know and comply with the site fire plan
- Be aware of your surroundings and potential hazards
- Report anything you have concerns over
- Agree to take action and report unsafe acts or conditions
- Keep the site and your work area secure and in a clean and tidy order
- Dispose all waste as instructed
- Arrange deliveries with the site team to ensure that timing does not conflict with any site restrictions

When working you MUST NOT:

- Use foul or abusive language, wolf whistle or employ any other form of unsociable behaviour
- Take risks or shortcuts
- Ignore any dangerous activity being carried out
- Leave plant or tools unattended, unless isolated and secure
- Knowingly harm the environment
- Work outside agreed working hours
- Use personal music systems
- Smoke, unless in a designated area
- Discriminate anyone on the grounds of their age, disability, gender, pregnancy, race, belief, religion
- Remove safety barriers or devices
- Ignore safety signage
- Block access and egress routes or emergency exits
- Block any roads or driveways or reduce pedestrians visibility of roads and crossings
- Proceed with activities that could cause statutory nuisances such as noise, dust
- Leave welfare facilities unclean or untidy
- Bully or harass anyone

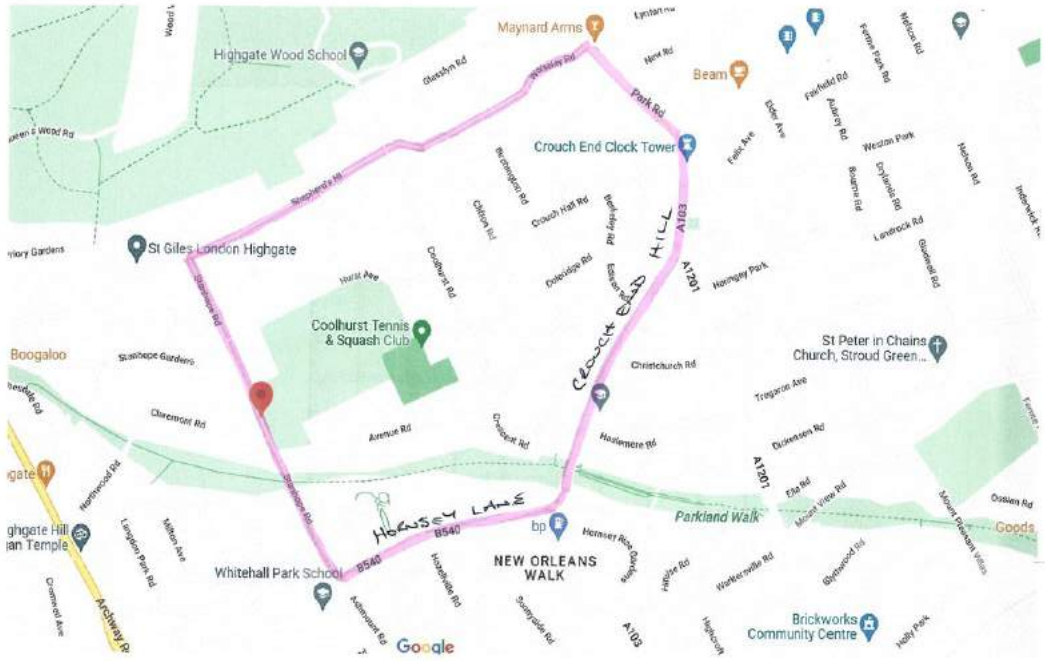
Drugs & Alcohol Policy

- You may be subject to disciplinary action and dismissal, if you:
- Drive a company vehicle while under the influence of drugs or alcohol
- Report for duty in an unfit state due to the use of alcohol, drugs or substance of abuse
- Be in possession of alcohol, drugs or substances of abuse whilst on duty
- Consume alcohol, use drugs or substances or abuse whilst on duty

Appendix B – Delivery Driver Safety Rules

1. No person is allowed to operate vehicles and plant unless trained to do so.
2. Seat belts must be worn at all times
3. No passengers are to be carried unless the vehicle is specifically designed to do so.
4. All drivers to drive carefully at all times and note the presence of pedestrians on site.
5. All drivers are to only operate the vehicle / plant strictly in accordance with manufacturer's recommendations / instructions.
6. All drivers must comply fully with all safety signage including: Speed limits, Stop signs, Give way signs, One-way signs, Loading restriction signs, etc.
7. Reversing is to be kept to a minimum and only undertaken when clear all round vision is available and under the direction of a trained vehicle marshall.
8. Hazard warning lights or flashing beacons to be on at all times while the vehicle is running.
9. Excavations only to be approached when safe to do so and guided by a trained vehicle marshall (stop blocks, spotting logs or other adequate edge protection must be available).
10. Ensure all materials are stored in a safe manner to prevent crush injuries.
11. Delivery drivers to remain with their vehicle at all times, in the cab when safe to do so.
12. Outside the cab drivers must follow a reasonable dress code, i.e. no shorts or vests will be allowed and full PPE must be worn i.e. Safety helmet, Safety boots, High visibility vests, Gloves and safety glasses, as well any other PPE as required by the task method statement.
13. Vehicles / plant left unattended must be left in a safe condition and with the key removed and / or immobilised.
14. Open top lorries must be sheeted, unless empty.
15. No young persons (under 18 years of age) or pets are allowed on site, this includes them being in a vehicle.
16. No defective vehicles allowed on site.
17. The site speed limit is a Maximum of 5-Miles Per Hour on approach roads 5mph within site area.
18. Dipped headlights are to used on site when wet / foggy conditions.
19. Unless in extreme emergencies, pedestrians are prohibited to access / egress from any loading bay ramp.
20. We expect that all delivery drivers are able to receive instructions and or directions in English.

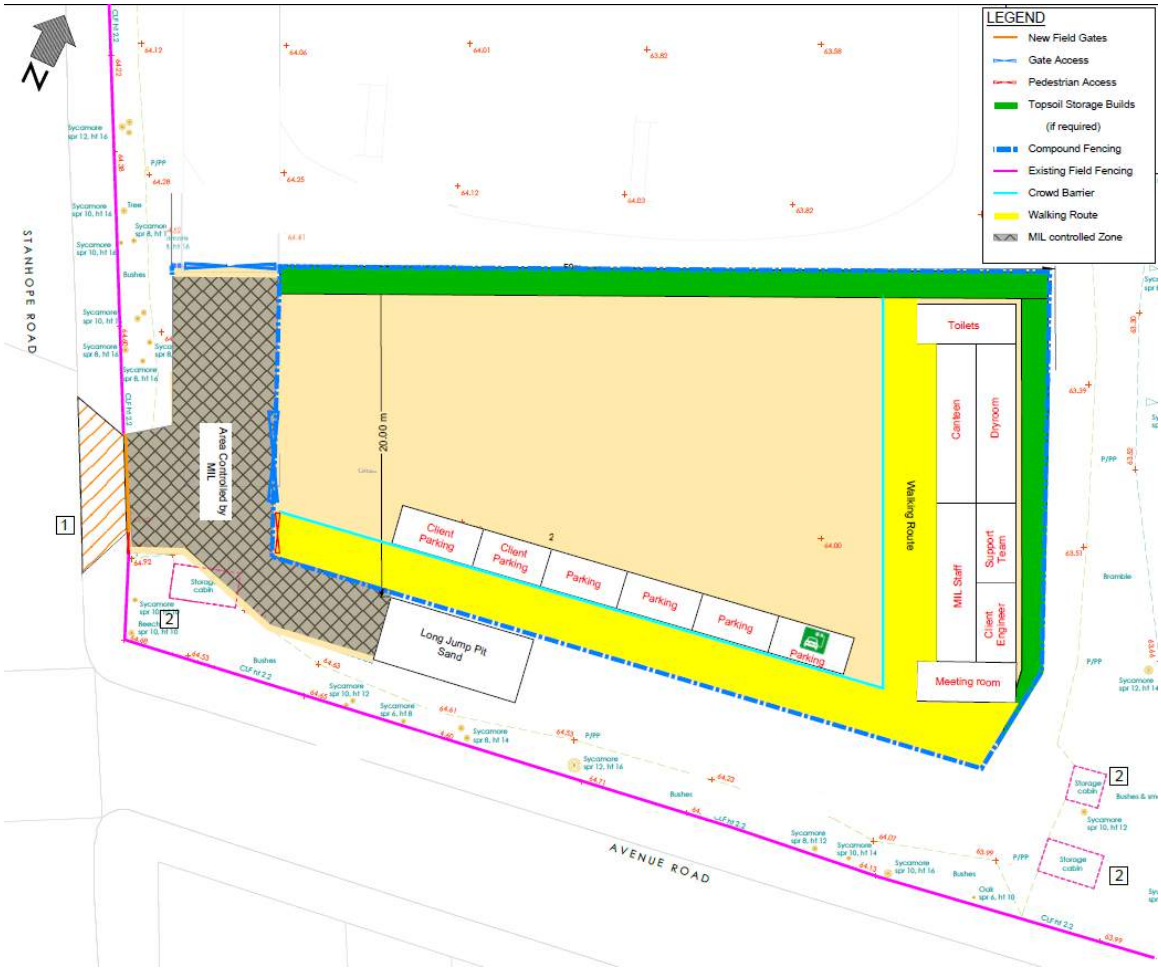
Appendix C – Traffic Management Drawings/ Sketches

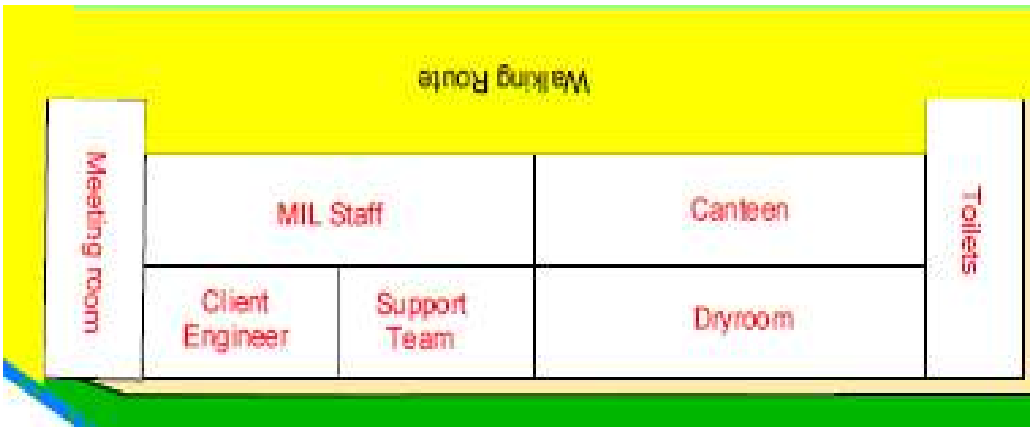


SK 02 - Stanhope Road Closure Diversion Route

Diversion Route.
TM Drawing to be included once approved.

Appendix D – Site Office & Welfare Plan, incorporating the unloading plan





Appendix E: MIL_FOR_HS_005.1 Fire Risk & Emergency Plan

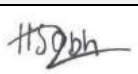
Fire Risk & Emergency Plan to be attached separately to this document.

Appendix F: Client - Phase II Generic Quantitative Risk Assessment

Attached Separately

Method Statement
MIL_TEM_HS_004.6

1. Project Details	
Method Statement Title	MS003 – Excavations and Drainage
Project	Stanhope Road Bridge Replacement
Project Number	3411042
Location	Stanhope Road, London, N6 5DF
Start Date / Duration	February 2024 – November 2024

2. Method Statement Review - (review and approval signatures)		
Compiled by	**Date**	**Sign and date**
A Niemcinskas	09.01.2024	
Reviewed by	**Date**	**Sign and date**
R Carley	16.01.2024	Ryan Carley
Approved for issue	**Date**	**Sign and date**
H Soboh	16.01.2024	
Date of change	**Reason**	**Approved by**

3. Location of Works

Stanhope Road
Highgate
London
N6 5NB

For Deliveries
Milestone Infrastructure Compound
In College Sports Ground
Corner of Stanhope Road / Avenue Road
Highgate
London
N6 5DF

(what3works – vibrate.loud.modes)

4. Description of work to be undertaken

| Delivering what we **promise**

- Demolition of existing footbridge and abutments
- Installation of new drainage
- Construction of new bridge and associated embankments
- Construction of new accessible ramp access, steps and associated landscape works
- Located on Stanhope Road, Highgate in the London borough of Haringey

The 0.8ha site is linear, along a section of the Parkland Walk, the bridge to be replaced is an existing bridge allowing the Parkland Walk to cross over Stanhope Road.

The main Parkland Walk Path, running west-east is generally flat or gently sloping, but is set on what was a railway embankment, which slopes down steeply north and south to the housing flanking the path as well as steep slopes towards Stanhope Road at the intersection.

The current land use is a local nature reserve and public walkway with grass, shrubbery and predominantly woodland, apart from where the trees have been cleared close to the bridge.

Tree schedules, protection plans and surveys have been provided within the detailed arboricultural report supplied by the principal designer.

The site compound will be located on the corner of St Aloysius College Sports Grounds, adjacent to the Stanhope Road / Avenue Road junction, in close proximity to the bridge site. This area is comprised of a grass field with an edge of trees.

Considerations of surrounding environment

- Highway Environment
- Urban area
- Pedestrian traffic
- Interface with public rights of way
- Proximity to local schools & playgrounds
- Densely populated urban area
- Works adjacent to embankments and ditches.
- Working at height

This method statement will be concerned with the mobilisation to site and initial site activities include:

- Permit to break ground procedure
- Excavation operations
- Temporary works for excavations and drainage installations
- Installation of manholes
- Installation of pipelines
- Installation of gullies
- Installation of linear surface drainage channels
- Installation of pond

5. Access to and from the site

The site address is:

Stanhope Road
Highgate
London
N6 5NB

The site is a footbridge crossing the Parkland walk footway across Stanhope Road and the site compound is located a short walk away from the work site location. Below is a drawing showing the site location in North London and a close up of the work site boundary on the Parkland walk / Stanhope Road bridge. The site is a 10minute walk from Highgate Station on the Northern Line.





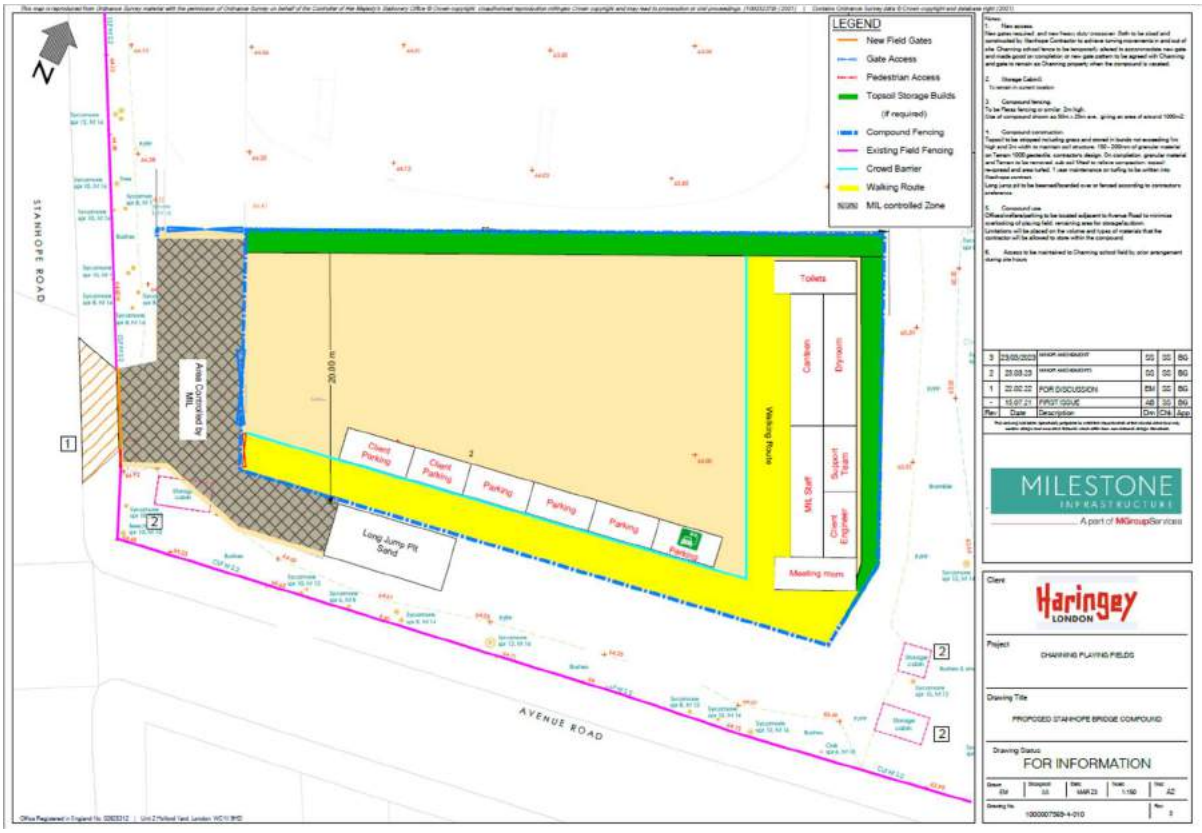
PERMANENT WORKS BOUNDARY – Dwg. 70085596-WSP-SBR-DR-BR-0000

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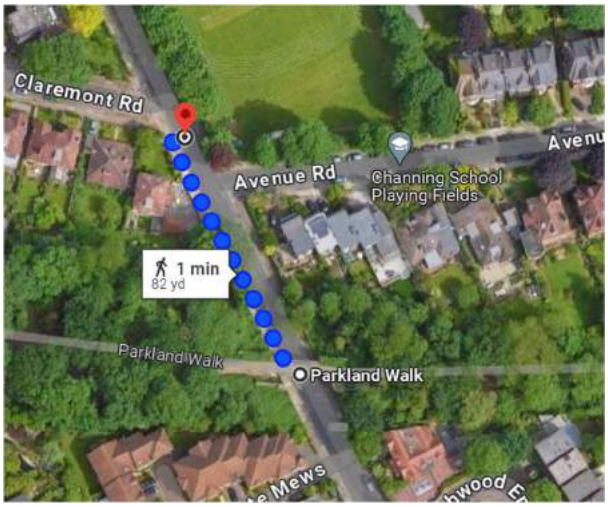
6. Welfare Facilities

The welfare facilities are provided 100m North of the site in a school playfield and will contain: #

- *Site offices and facilities*
- *Canteen with hot and cold running water, drinking water and meal facilities*
- *Dry-room changing room*
- *Male and female toilets*







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7. Permits Required		
Permit to avoid underground services	**Yes** ☒ **No** ☐	Refer to section 19
Hot Works Permit	**Yes** ☒ **No** ☐	Refer to section 18
Confined space permit	**Yes** ☐ **No** ☒	Refer to section 22
Lift Plans	**Yes** ☒ **No** ☐	Refer to section 20
Other Permits	**Yes** ☒ **No** ☐	If yes, give details in section 8

8. Details of additional permits required

LB Haringey will arrange for Temporary Traffic Orders to permit introduction of Single Alternative Lane Working, the closure of Stanhope Road at the site and to prohibit parking in the vicinity of the site and site compound.

A permit to occupy the Highway must be obtained from LBH Network Management team prior to occupying the Highway.

The application is to contain full details of any proposed works on the Highway, including Method Statements and proposed Traffic Management and diversion layout drawings. The application is to be made at least 2 weeks prior to the installation of any Traffic Management System.

9. Risk assessments

RA001 – General Site Operations

Covering:

- *Use of Hand Tools*
- *Use of Portable Electrical Equipment*
- *Activities Producing Dust*
- *Use of Compressors and Pneumatic Power Tools*
- *General Labouring*
- *Working at Height*
- *Use of disc cutter and abrasive wheels*
- *Access to and egress from the site*
- *COSHH*
- *Site Compound work*
- *Working from the back of vehicles*
- *Visitors – company, client, suppliers and public*
- *Works in close proximity to local school*

RA003 – Site Surveys and Trial holes

Covering:

- *Various items covered in RA001*
- *Excavations – breaking out asphalt surface*
- *Excavations – general*
- *Excavations – Hand dig*

- *Excavation – Vacuum Excavator*

RA004 – Excavations and Drainage

Covering:

- *Various items covered in RA001 & RA003*
- *Use of Excavators (including excavation operations)*
- *Use of Transit tippers and dumpers*
- *Works in and with excavations*
- *Use of excavators for lifting*
- *Working with concrete*

10. COSHH assessments

Below is a table of the COSHH assessments that have been completed for the works and hard copies are to be kept with the materials within the bunded COSHH container in the site compound.

Assessment ID	Substance	Manufacturer	Review Date
4690303	Roadmarking paint	One Stop	03/2026
277275	Filler (aerosol)	Everbuild	07/2024
4681384	Generic – Ready mix concrete	N/A	09/2024
4681378	Grease – mineral oil	Morris Lubricant	04/2028
4286468	Generic – Asphalt	N/A	05/2024
4286465	AdBlue	GreenChem	05/2026
4267423	Generic – Mortar	N/A	04/2024
4267662	Denso Tape	Winn & Coales	04/2026
4423532	Lubricant	Polypipe	01/2025
3566589	Generic – Oil (Engine)	N/A	07/2024
4286851	Generic – Diesel	N/A	05/2026
4423468	Soundaseal	Soudal	01/2024
3566584	Generic – Petrol	N/A	07/2024
3527816	Generic – Bleach	N/A	07/2024
2480090	Generic – 2Stoke oil	N/A	06/2025
3468384	Generic – Silicone Sealant	N/A	01/2025
289063	Mould Release Oil	Bostic	02/2024
28555	Ready mixed concrete	CEMEX	06/2024
78756	Generic - Cement	N/A	07/2024
286462	Generic – Sand	N/A	02/2024
277275	Everbuild Expanding foam	Sika	07/2024
277306	Generic - Bitumen	N/A	07/2024

There are several controls that will be in place on site in order to manage the risk imposed from hazardous materials, their use and their storage;

- *A Ventilated and bunded COSHH material storage container*
- *All materials risk assessed on their exposure scenarios and assessments kept with materials*
- *All COSHH materials must be returned to the container when not in use*
- *All COSHH material receptacle waste (i.e spray/paint cans) will be stored in specific COSHH waste bins and disposed of as hazardous waste by licenced waste contractor*
- *A bunded, padlocked fuel bowser will be set up in the site compound within a fuelling area*
- *Several spill kits will be provided in key risk areas (i.e fuelling area, with machines, storage area)*
- *Plant nappies will be utilised and placed beneath all plant and equipment that contain oils or fuels when not in use to ensure any leaks are captured.*

11. Traffic management arrangements

Various phases of traffic management will be conducted as part of the works including

- *Traffic controlled part lane closures*
- *Traffic controlled pedestrian crossing*
- *A Full road closure with diversion routes in place*
- *Pedestrian diversion walking route to maintain the Parkland walking route*
- *Small localised closures / areas closed with barriers for trial holes*

Full traffic management plans, procedures, method statements and risk assessments will be the responsibility of the traffic management contractor.

Small closures for trial holes and minor works can be installed by Milestone operatives via chapter 8 barriers and signage. These closures are for short duration works which are to be removed as soon a possible, preferably by the end of shift. If a footpath is closed in this fashion, footpath diversions will be in place with appropriate signage, kerb ramps and a banks person. Any operatives installing traffic management on public right of way will have the appropriate competencies to do so.

12. Personal protective equipment (PPE)

6 Point PPE (Safety Footwear, Hi Viz Vests, Hi Viz Trousers, Hard Hats, Gloves and Safety Glasses) are mandatory on all worksites for ALL persons including visitors/client etc.
***Arc Rated All-in-one Arc coveralls are mandated for all excavation teams**
The following PPE is to be worn where specified in the method statement, COSHH and/or Risk Assessments

Item	Details	For Use In
Hard hat	BS EN 397	At all times
High visibility vests	BS EN 471 Class 3	At all times
High Visibility Trousers	BS EN 471 Class 3	At all times
Safety Footwear	BS EN 20347	At all times
Gloves	BS EN 21420 (Replaces EN420 by 2023)	At all times
Safety Glasses	EN166	At all times
Safety Goggles	EN166B	As required for use with power tools In areas where breaking

		procedures taking place
Arc rated overalls	EN IS0 11611 2015, EN ISO 11612 2015, EN 1149-5 2018, IEC ISO 61482-2 2018	Excavating for trial holes
Ear Defender	EN 352	Where necessary Where noise levels exceed 85dB
3M - Dust Mask	8810 Dust/Mist FFP2 FFP3	Works generating dust, dusty areas, mixing concrete and tarmac, cutting cementitious materials.

Supply Chain, plant hire personnel and suppliers shall follow this procedure. They may substitute any specified item of equipment with alternative equipment providing it meets the relevant current British Standard and provides the level of protection required.

In the case of a one-off delivery driver not being in possession of the requisite PPE then it may be expedient for the equipment to be provided by Milestone Infrastructure.

Where the requirement to wear 6 Point PPE is mandatory (for example, in operational areas within depots and on site), the **wearing of shorts, sleeveless vest, short sleeved tops, beanies and Rigger Boots is prohibited**.

13. Plant and materials to be used

- Delivery vehicles: flat bed lorries, articulated HGVs, various sizes of vans and flat bed trucks
- Telehandler
- Excavators with bucket and breaker attachment and lifting equipment (Toothed buckets are prohibited)
- Dumpers
- Small vacuum excavator (internal covered by these RAMS)
- Large vacuum excavator (external inc specific RAMS)
- Sweeper attachment for telehandler
- Various small hand tools – only small, portable, fit for
- Portable generator
- Breakers
- Petrol saw
- Insulated shovels
- Chapter 8 Barriers
- Water filled barriers
- Slot block barriers
- Stand pipe
- Cordless hammer drill
- Transit van
- Pipe materials (TBC) preferred HDPE
- Precast concrete manhole rings and cover slabs
- D400 manhole covers
- Gully pots (TBC) preferred HDPE
- Slot drains

- Perforated Carrier Pipes
- Geosynthetic clay liner
- Cellular confinement system
- Bag-work with sub-soil and seed mix

Note;

- All plant and machinery to be used during the demolition and construction phases of the development shall meet Stage IIIA of EU Directive 97/68/ EC for both NOx and PM emissions.
- To protect local air quality and comply with Policy SI1 of the London Plan and the GLA NRMM LEZ, prior to the commencement of works, MIL to show evidence of site registration at nrmm.london to allow continuing details of Non-Road Mobile Machinery (NRMM) and plant. This shall be submitted to and approved by the Local Planning Authority in writing.

14. Safe method of work to be implemented

Permit to dig - Service Coordinator – Procedure

- Each uniquely numbered permit will contain full details on the location, description of the works and results of a comprehensive buried services line search
- All operatives involved with the excavation team will have Milestone Line in the sand training.
- The service coordinator will conduct a desktop study of the proposed excavation works and working area and note preliminary controls and aim and requirements of the work
- The service coordinator will conduct (or delegate) a service investigation on site using a CAT and genny survey, a visual inspection and open up local service covers to investigate type, direction and depth of existing services.
- Trial holes will be completed in suitable locations to confirm location, type and depth of services to better ascertain what the existing below ground services are.
- The permit will then be updated with the findings of the survey and excavation works permit will be prepared with the above details and issued by the Milestone service co-ordinator and issued to the nominated permit holder
- The ‘Permit’ will be briefed to the permit holder (and dig team, permit holder may brief the dig team separately) by the co-ordinator which a record of briefing will be signed by all personnel involved. Compliance to this procedure and the details contained is mandatory.
- It shall be independent of any other permits/works being carried out on-site and will remain on-site for the duration of all excavations work for that shift.
- All existing service drawings, sketches, plans, as-built surveys etc of any underground or surface services will be continually referenced throughout the excavation exercise. A physical check for any visible signs of services (i.e. marker posts, inspection pits, access covers, CMS routes) as well as if any existing services external to the route can be protected using split ducting during the works.
- Operatives undertaking this activity will be suitably trained with the relevant competencies checked prior to start. The area of introduced to indicate the present of any services (known/unknown) and the precautions to be taken listed.
- Upon completion of the works, the Supervisor/Ganger will ensure that all sections of the permit are properly filled-out, before signing-off the permit and returning to the project office will be scanned using certified/calibrated approved CAT and genny. Sketches will be produced to indicate the present of any services (known/unknown) and the precautions to be taken listed. Any unchartered services discovered will recorded on the Dyer and Butler workspace system.
- Upon completion of the works, the Supervisor/Ganger will ensure that all sections of the permit are properly filled-out, before signing-off the permit and returning to the project office.

Trial Holes & Pre-excavation Procedures

This section of the method statement will outline the safe working procedures that must be followed when commencing trial holes prior to main excavation procedures commencing. These procedures form part of the permit to dig system as to control the risks involved with breaking ground activities.

- The Milestone permit to break ground will be completed by the nominated Service Co-Ordinator as per the above procedure. At which time a Permit holder will be assigned to the works and all steps will be taken as required by the permit to dig procedure (as outlined above)
- Prior to works being undertaken, existing services drawings will be checked and marked out by a site engineer
- Local manholes will be opened and surveyed in order to identify levels and directions of local services. Existing ground scarring will also be used to such effect.
- Prior to breaking ground at any point, a CAT scan of the area will be completed to confirm presence of known/unknown services.
- Where there are known services located in the excavation area via services drawings and CAT scans, these will be marked on the ground via spray paint and carefully hand dug via approved methods to uncover the suspected services and sufficiently supported.
- Any uncharted services will be traced as far as possible, marked on a drawing and issued to the relevant parties.
- All services are to be treated as LIVE until conclusively proven / confirmed to be dead.
- If no services are identified within the excavation area, trial holes can be commenced via approved hand digging methods.
- Air lance and vacuumed excavation to be utilised where possible
- Insulated shovels must be used when hand digging holes.
- In areas where services clash with the excavation area; the area will be carefully hand dug via approved hand digging methods. Insulated tools will be used, and services will be protected and sufficiently supported.

Excavations

This section will outline the safe working methodology for excavation operations.

- The selected digging operations that may be utilised are as follows:
    - Excavators
    - Hand digging operations with insulated Hand tools.
    - Vacuum excavation utilising a vac-ex.
- The appropriate excavation method will be selected as part of the permit process depending on the location, depth and risk involved with the excavation operation.
- The excavation works will be carried out under the control of a competent banksman.
- All safe pre-works procedures, permit to dig and trial holes have been completed as per section above and service co-ordinator has confirmed excavation works may commence.
- Dumpers will be used for transportation of excavated material to the storage area as outlined by the Milestone management team within the site compound – Material will be segregated as best as possible, investigated for signs of contamination and disposed of via licenced waste carriers to licenced disposal / rework facilities and tracked via the Site Waste Management Plan
- The excavation will be completed in lengths of approximately 10m or as far as the excavation support systems will allow.
- Proprietary shoring systems will be used on all excavations deeper than 1.2m, to prevent accidental collapse of the excavation. The Temporary works design and manufacturer's instructions will be adhered to when installing the shoring system.
- All temporary works in place will follow the Milestone temporary works procedure.

- Where shoring systems will be used, the proprietary edge protection for the system will be in place and installed as per manufactures instructions.
- Exclusion zones will be set-up around the excavation and walking routes assigned via barriers and signage to keep persons away from the hazardous areas. “Deep excavation” signage
- Excavators must not dig deeper than 150mm with each strokes.
- Hand digging must be used close to the suspected location of buried services as found during the pre-excavation procedure. This must be carried out with high caution. This applies regardless of known service depths.
- See attached appendices for guidance on safe digging, service locating and marking and other guidance regarding excavation procedures.
- ARC Rated full body PPE and helmets with visors will be worn by all operatives within the excavation team

Drainage - Pipework Installation

- Where shoring systems will be used; the proprietary edge protection system will be used and installed as per the manufacturers guidance.
- Drag boxes will be utilised for the installation surface water pipework where deemed necessary (excavation depths greater than 1.2m)
- Exclusion zones will be set out and adhered to around the excavation as required where fall prevention is not achieved via the proprietary shoring system.
- All services clashing with the work area will be protected after careful hand digging techniques will be conducted to locate and services supported as necessary.
- Pipework will be installed as per the manufacturer’s instructions including the use of proprietary jointing, sealing and installation components, i.e. collars, couplers, pipe lubricant
- The sequence of the drainage installation will consist of;
    - Excavate 10m run for the pipe work installation area as set out by the site engineer
    - Lift shoring system into length of excavation ensuring proprietary edge protection is in place and safe to use
    - Install access system as per manufacturers instructions
    - Exclusion zones will be set up for areas not protected by the proprietary edge protection system.
    - Initial bedding material will be installed to the base of the excavation to provide a base for the pipe installation Concrete safety working procedures will be adhered to for Class z bedding / surround
    - Lay the drainage pipe to correct line and level as outlined by the site engineer for the initial pipe installed into the run utilising a pipe laser / rotating laser / total station with a cross check using at least 2no of the different measurement methods
    - Backfilling installed as per the approved construction drawings and compacted as required either with roller, wacker plate or excavator compactor attachment
    - Backfilling with selected material as per the approved construction drawings and compacted as required
    - Repeat procedure until section of pipe has been completed.
- Pipe testing will be carried out as the pipes are laid **and** at the end of each run (in between 2no man holes) air testing will be carried out as per BS EN 1610

Drainage – Manhole / Chamber Installation

- Engineer will mark out the location of the manhole
- Excavation procedures will be carried out in accordance to the methodology above
- Proprietary manhole shoring support systems will be installed as the excavations progresses as per manufacturers literature including edge protection systems.
- Engineer will mark out the centre of the manhole and ends of pipe runs and invert level of the

manhole

- The proprietary edge protection system will be always in place.
- Once at excavation level, base ground will be compacted, and a blinding course installed.
- Base concrete pad will be installed to the correct line and level as set out by the site engineer.
- Channels and backdrops will be installed in situ as set out by the site engineer.
- Pipework will be installed to line and level and the concrete benching will be completed.
- Rocker pipes will be positioned at the edges of the manhole.
- Preformed channels will be used where possible to form the internals of the manhole.
- Dry concrete will be poured and manhole base formed.
- All excavator movements with the bucket within and around the manhole will be banked by persons on the ground.
- Trowels and hand tools will be used for form and compact concrete into shape for the manhole.
- The first pre-cast concrete ring will be set into position and dry concrete compacted around the ring to ensure good cohesion.
- Ring will be placed ensuring the access ladder rungs line up with the access requirements for the manhole.
- After time has been given for the concrete to dry, benching will be completed to the manhole base.
- The rest of the concrete rings will be installed to the required level as set out by the site engineer.
- A bituminous top strip will be installed at concrete ring joints to ensure water tightness.
- The proprietary formwork will be erected around the installed manhole rings which will form a minimum 150mm surround to the manhole.
- Concrete will be poured and adequately compacted.
- Concrete will be allowed sufficient time to cure as allowed by weather conditions and proprietary formwork struck and inspected.
- Remedial works completed as required following post-concrete pour inspection.
- The pre-cast concrete cover slab will be placed on top of the rings ensuring correct alignment with the access step rungs
- Min 2 max 4 brick work courses or pre-cast cover rings will be bedded in 3:1 sand cement mortar
- String lines in minimum 2 axis will be used to align the top level of the Manhole cover and the cover will be bedded using the correct bedding material.
- Excavation will be back filled, compacted and made good as per the contract drawings

Drainage - Installation of road gullies

- Road gully position will be marked out by the site engineer and location of the tee within the carrier drain will be marked
- Excavation procedures will be followed as per above procedure
- Excavation for gullies will be completed, if the excavation is expected to be greater than 1.2m trench boxes will be utilised to support the excavation edges
- The precast concrete gully housing will be placed into position as directed by the site engineer
- Gully pot will be lifted into position utilising machine lifting knuckles with appropriate certified and tested slings, slug by competent slinger and banked into position appropriately

- Gully will be set to allow for 2-4 seating rings to be installed
- Concrete surround will be applied to the gully as per design drawings
- Gully lateral connection pipe will be installed as per the pipe installation procedures taking to account temporary works, edge protection and traffic management requirements.
- Type z surround will be utilised as required by design and advised by site engineer
- Trench for lateral connection pipe backfilled and compacted as required

Drainage – Installation of channel drainage

- Engineer will set out the start and end of each run and it's lateral pipe to connect the channel drain to the carrier drain pipe. A String line will be used to set out the length of the run
- Channel drainage channel components will be bedded as per manufacturers instructions set to the string line
- Each component will be bedded for the length of the run
- The outfall component will be bedded at the end of the run as required
- Excavation operations will be conducted as required for the lateral outfall pipe to it's tee connection at the carrier drain pipe pre-excavation and permit systems will be applied
- Channel drain outfall pipework will be installed to the carrier drain tee
- Edge protection and excavation support systems to be in place as required by manufacturers instructions and MiL standards.
- Backfill operations as per approved design and compaction as required

Drainage - Installation of attenuation chamber

- Engineer will set out the location, line and level of the attenuation tank
- Excavation operations will be conducted as per above procedure for the excavation tank pre-excavation and permit systems will be in place
- Once excavation completed, geotextile material will be laid into the excavation and jointed as per manufacturers guidance
- Geomembrane for attenuation chamber will be laid on top of the geotextile and jointed as per manufactures guidance
- Attenuation crates will be placed into the excavation, slotting in and clipping up as per manufacturers guidance
- Once crate installation completed, geotextile and geomembrane materials will be laid on top of the attenuation tank and be jointed as required.
- Backfill operations to the top of the tank as per design requirements and compacted as required.

Concrete Pour Procedures

This section is to outline the methodology and general procedure to be followed when conducting concrete pour operations

- Pre-Pour checks

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- Confirmation from the site engineer that reinforcement, spacers, cover, accessories (i.e. lifting eyes) and openings are correct and to the design.
- Appropriate task-specific PPE will be worn for this activity; elbow rubber gloves, steel toe capped wellies and cover all jump-suit
- Confirmation from the site engineer that formwork is correct in relation to dimensions, openings, line and level and general standard of workmanship
- Formwork is free from dust, debris and other contaminants
- Appropriate oil / striking agent has been applied to formwork
- Slump test completed and concrete is compliant if required

- Pouring concrete
  - Appropriate PPE will be worn for the task, this will include elbow length rubber gloves, steel toe capped rubber wellington boots and coveralls to be worn by operatives in direct contact with concrete.
  - Concrete is poured in layers of approx. 300-500mm to allow for thorough vibration
  - Concrete is thoroughly vibrated for the duration of the pour
  - Exposed concrete edges will be trowelled to a smooth finish
  - All tools and equipment will be cleaned following concrete pour
  - All persons will clean any concrete that has contaminated the persons.
- Curing times
  - Sufficient curing time will be allowed for concrete prior to striking shuttering and applying loading to concrete
- Shuttering will be struck
  - Concrete inspected by site engineer and all required making good will be noted on the ITP and actioned.
- Concrete encasement of pipes
  - Concrete encasement will be required for some pipes in close proximity to foundations, services and tree pits – to be set out by the site engineer.
  - Root ingress protection will also be required in locations of tree planters, to be set out by the site engineer.
  - Engineer will check line and level of pipe to ensure correct to design.
  - Pipes will be secured in place and concrete spacers installed to maintain clearance between the drainpipes.
  - Timber formwork will be installed at the crossover location and concrete poured. Note : the above listed methodology for Concrete pours will be followed.
  - Compressible material may be required at locations of pipe joints as per design, to be set out by the site engineer.

Backfill Operations

- All required checks will be completed and confirmed by the site engineer including:
  - As built measurements of installation completed.
  - Marker / Warning tape installed.
  - All quality checklist checks completed.
- Once authorisation received, backfill operations may commence.

- Backfill will only be completed with selected, design appropriate imported fill material or approved site re-use material.
- Backfill will commence in 150mm layers with sufficient compaction.
- The SHW compaction table will be utilised to ensure appropriate number of passes are completed for each section of backfill.

Pond Installation

- The pond area and shape will be set out by the site engineer.
- A excavator will be used to cut and fill to excavate the extent of the pond to the correct shape and depth as per site engineers instruction
- The excavated material for the pond will be used to fill in the adjacent re-profiled ground area – material not to be moved from the area and care will be taken to suitably segregate it and ensure it does not get contaminated.
- Excavator will then use a grading bucket to fine tune the shape of the pond
- The Bentotex GCL100 Geosynthetic clay liner will be laid to the base of the pond – 100mm lap joints will be applied – no jointing will be required as the membrane self joints when wetted.
- Clay liner to be secured in between bag work at the south side of the pond
- Cellular confinement system will be laid to the base of the pond above the clay liner, and joints tied together as per manufacturers instruction.
- Enviroclips installed to retain the cellular confinement system to the slope (TBC confirm if compatible with clay geomembrane below)
- 300mm of the specified topsoil will be placed into the confinement system.
- Planting baskets installed as per design.
- Bio-degradable erosion control installed to top of confinement grid with slits cut and seeding installed
- Bagwork retaining wall constructed with sub-soil and woodland seed mix
- Drain inlet and outlet pipes installed to pond at bag-work area

15. Control of Hand Arm Vibration Syndrome (HAVS) risk and Noise control measures

All items of plant and equipment that may cause a risk from HAVS must be individually listed in the table shown below.

Equipment	Vibration Output	Actual trigger time to reach the daily 80 exposure points limit

Where operatives may be called upon to operate two or more different items of plant and equipment an additional risk assessment to assess the cumulative effects of this must be undertaken using the exposure calculator and the details should be recorded here and the completed assessment must be attached to this method statement.

To be updated when on site and equipment confirmed

16. Monitoring of site operations

Training and competencies held by the site operative team at minimum shall be as shown below :

Training/Competencies	No
CSCS/CPCS Card	All
Manual Handling Trained	All
CAT scan. Competent.	Minimum 1
Service Protection Co-ordinator	Minimum 1
Abrasive wheels certification	Minimum 1
First Aider	Minimum 1
SMSTS / SSSTS	Minimum 1

Checks of operatives competencies, training certificates and site awareness and capabilities will be evaluated by the management team on their arrival to site and during the induction process.

Site supervisors will conduct regular checks throughout the day on the progress and safety of the operations occurring on site and relay information to the site management team.

Site engineers will conduct regular checks throughout the day on the safety and quality key performance indicators on site and relay the information to the site management team.

The **Site agent** will conduct at minimum one daily site inspection.

Site **project manager** will conduct a weekly site inspection.

Milestone **Health and Safety** advisor will conduct a inspection once a month.

Milestone **Environmental advisor** will conduct a inspection once a month.

Milestone **senior leadership** will a inspection once a month.

17. Training requirements

Training/Competencies	No
CSCS/CPCS Card	All
Manual Handling Trained	All
CAT scan. Competent.	Minimum 1
Service Protection Co-ordinator	Minimum 1
Abrasive wheels certification	Minimum 1
First Aider	Minimum 1
SMSTS / SSSTS	Minimum 1
CPCS, NPoRS	Plant operators

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Safety critical medical	All operatives
Facefit testing	All operatives
Confined Space Training	Confined space works

18. Fire prevention measures and control of hot works

Appropriate COSHH material storage as per COSHH risk assessments

Spill kits and plant nappies provided in various locations where risk of leakages is present.

Fuel station set up within compound with a refuelling plan with spill kits and fire extinguishers provided.

Fire extinguishers provided at points of high risk and at various points throughout the site compound and work site areas.

Fire muster points and fire plan included within CPP.

At minimum one fire Marshall will be present at all times. Several of the on-site Milestone management team have fire Marshall and fire prevention training.

Once site set-up complete, third party fire risk assessment will be undertaken and section updated

19. Control of ground or structural penetration work

Any work involving the disturbance or penetration of the ground or a structure is always hazardous due to uncharted and unknown services that may be present. The following outline procedure must be strictly followed when carrying out this type of activity:

1. A Permit to avoid underground services is required for all work of this nature.
2. Where possible the client/service provider should isolate known services prior to carrying out the work. This isolation should be confirmed in writing prior to commencing.
3. Using a CAT (Cable Avoidance Tool), the area must be scanned, and the positions of any known services identified. If other services are identified by the CAT scan, then extreme caution must be exercised when carrying out the work.
4. Manhole and pit covers must be lifted within the immediate location to establish the direction and depth of any services. Where possible always use clamp and/or generator to establish depth and direction of services.
5. Trial holes using horizontal digging techniques must be made to identify the true location, depth and direction of known services.
6. Excavators must never dig deeper than 150mm with each stroke unless it is known that there are no services present.
7. CAT scanning must take place after every layer of soil is removed to ensure that any services can be successfully located.
8. Hand digging must be used within 500mm of the suspected location of a buried service. This must be carried out with extreme caution. This applies regardless of known cable depths.
9. Any changes to the safe system of work associated with the excavation works must be approved jointly between the Site Agent and the Permit Issuer prior to being undertaken.

20. Lifting Operations

An individual lifting plan must be attached to this method statement which covers all of the lifting operations that are to be undertaken on the site.

All lifting accessories should be tagged with the current compliance colour.

Lifting operations using open 'C' hooks are not permitted.

The delivery of site cabins and welfare lift plan will be completed by the supplier of the units and will be reviewed prior delivery.

Lift plans for excavators and telehandlers will be produced once on site and appended to this document

21. Manual handling

Arrangements are to be made to identify any major elements of the work which may constitute a risk from manual handling. The relevant control measures must be recorded in this section of the method statement.

Manual handling will be reduced as far as reasonably practical to ensure manual handling risk is eliminated from the works activities. Methods of construction will be reviewed, and other options of handling materials will be employed such as:

- Mechanical means of lifting employed (telehandlers, excavators, hoists)
- Elements pre-fabricated off-site and delivered to position
- Lifting aids such as kerb lifters, wheel barrows, vacuum lifters and trollies and trucks
- Heavy materials shall be palletised and moved via telehandler
- All operatives will have manual handling training

22. Confined spaces – safety arrangements

All Operatives involved in a confined space entry must be trained and competent to do so.

Only an 'Authorised Person' may issue a Confined Space Entry Permit.

Confined space risk is not deemed to be encountered as part of these works.

23. Environmental considerations

Statements showing how all relevant environmental aspects and impacts that are identified either in the PMP or on the Risk and Environmental Impact Assessment Form must be recorded in this section of the method statement.

Risk to existing water courses and systems

Gully protection horns will be installed into all local gullies to ensure construction debris does not contaminate the local surface water system – note this is a final point of control in case other controls fail.

Control of COSHH Hazards

Due care will be taken while using any chemical and COSHH liquids to ensure nothing is spilled into the existing water course. COSHH materials will be stored on plant nappies on site, as well as any tools, plant or equipment that have a risk of leakage. Spill kits will be provided at risk points within the site compound and the work site areas. COSHH assessments will be completed, and hard copies stored with the COSHH materials.

A bunded COSHH material stored unit will be used for the safe storage of all COSHH materials, all materials will be removed here at the end of each shift. Materials will be segregated within the storage and clearly labelled including COSHH hazard labelling.

A refuelling station and refuelling plan will be created within the site compound and sufficient controls in place to control the risk of spillages as well as sufficient spill kits to ensure spills can be swiftly taken care of. Operatives will have COSHH and spillage training.

COSHH waste material (i.e used spill kits, empty paint cans) shall be stored in specific COSHH waste bins and disposed of appropriately.

Unexpected find of injurpus, invasive or notifiable species:

Toolbox talks to be conduced with the site team to raise awareness of plant species and their status.

Where observed on site, a report should be submitted to CSC, the site agent and the environmental advisor
The discovered plant will be contained on site within an enclosed skip with appropriate signage and identification.

Negative temporary noise exposure for local residents

Works timings will aim to be undertaken outside of unsociable hours, however where this is not possible, a Section 61 may be applied for and consultation with the local authority completed.

Site personnel will be informed where necessary of the need to minimise the noise exposure to the neighbouring community.

Audible alarms such as reversing beeper will be limited to a low volume setting.

Details of how any waste will be managed must also be recorded in this section of the method statement.

A site waste management plant will be in place to manage and monitor all details of waste material, including spoil movement. All waste material removed from site will have a waste transfer note from a licenced waste carrier and each note will be noted on the SWMP.

Waste and spoil areas will be set up within the site compound and all materials will be segregated by type, with appropriate signage installed denoting the type of waste it is. A general waste skip will also be provided with a closable lid.

24. Site specific emergency arrangements

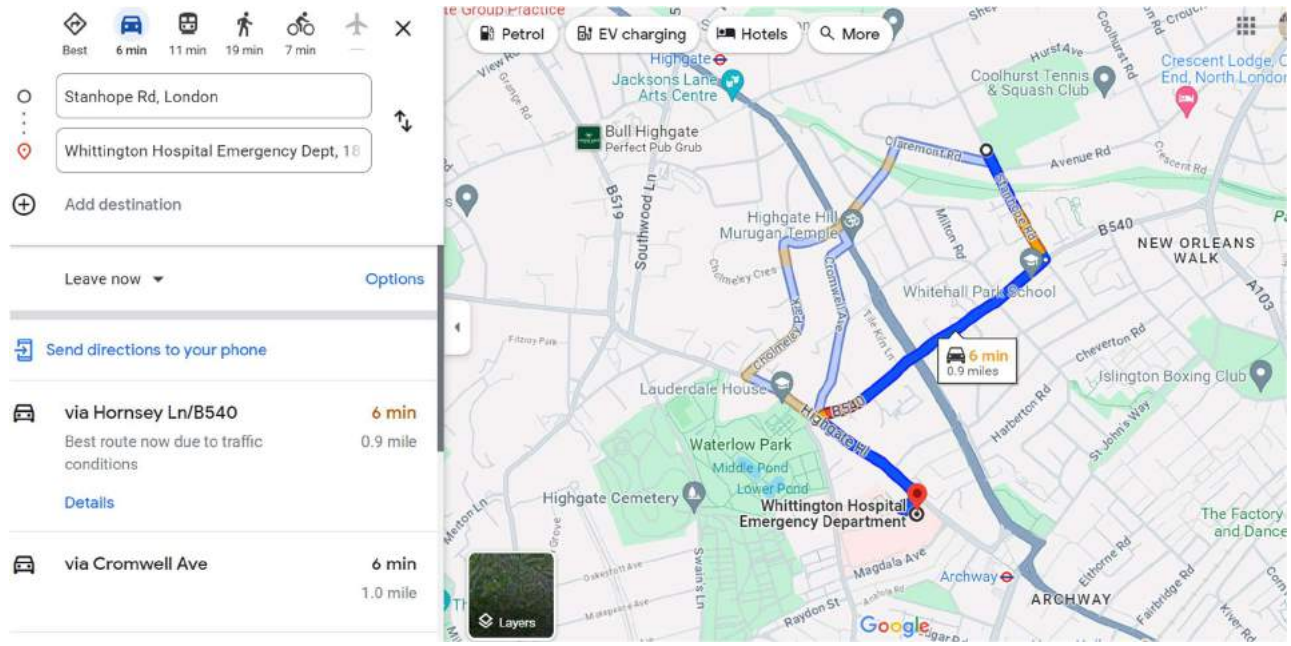
Local Muster Point:

Always telephone the relevant emergency service first then the Site Agent if there has been a serious injury or there is an immediate risk of danger

Call the Site Manager first for advice if there is no immediate risk of danger and/or no one has sustained a serious injury.

In Case of Emergency 999

Local A&E Whittington hospital emergency department



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25. Method Statement briefing record			
This briefing was provided to all employees and subcontractors undertaking the work by the following person:			
Name:		**Position:**	
Declaration – I confirm that I have been provided with the method statement briefing by the person named above and have understood and will abide by all of the information provided.			
Name:	**Job title:**	**Company:**	**Signature:**

Risk Assessment Form

MIL_FOR_HS_004.2 – RA004

MILESTONE INFRASTRUCTURE
A part of MGroupServices

Site:	Activity:	Persons conducting assessment:		
Stanhope Road Bridge Replacement	Excavations and Drainage	Arturas Niemcinskas & Ryan Carley		
Risk Assessment No.	**Review Date**	**Revision No.**	**Name:**	**Signature:**	**Date:**
004		001	Arturas Niemcinskas		08/01/2024
Person Supervising Work:	**Employer:**		**Name:**	**Signature:**	**Date:**
Mohammed Soboh	Milestone Infrastructure		Ryan Carley	Ryan Carley	10/01/2024
Persons Exposed	Employees	Other Workers	Public/Visitors	Vulnerable Persons	Total at Risk

Severity					
5	5	10	15	20	25
4	4	8	12	16	20
3	3	6	9	12	15
2	2	4	6	8	10
1	1	2	3	4	5
	1	2	3	4	5
	Likelihood				

Likelihood

Rating 1 = Remote 10 year
Rating 2 = Unlikely 5 years
Rating 3 = Possible 2-4 ye
Rating 4 = Likely Bi-annual
Rating 5 = Almost certain Annual

Severity

Rating 1 = No injury
Rating 2 = Minor injury or illness
Rating 3 = Serious (“lost time” injury or illness)
Rating 4 = Specified/Major injury or illness
Rating 5 = Fatality or multiple fatality

Low Medium High

Risk = Likelihood x Severity

All risks must be reduced to as low as is reasonably practicable, by applying control measures that reduce the likelihood of an incident, severity of an incident, or both. Risks that are defined as ‘high’ after control measures have been applied, must be re-reviewed and further control measures implemented to reduce the risk to low or medium

Risk Assessment Form

MIL_FOR_HS_004.2 – RA004

MILESTONE INFRASTRUCTURE
A part of MGroupServices

Activity / Process	HAZARD	1 Factors of Harm S	2 Factors of Harm L	3 Risk Multiple of column 1 × 2	4 CONTROL MEASURES	5 Factors of Harm S	6 Factors of Harm L	7 Residual risk Multiple of columns 5 × 6	8 Control measures implemented by	9 Control Frequency Check Rate
Use of Hand tools	Flying particles	3	3	9	• Exclusion zone set up with fixed type barrier with signage and debris netting to segregate others from works, hence exposure levels are decreased. • Only use angle grinders with their correct guarding in place and if you have an abrasive wheel's training certificate. • Do not tamper with or adjust any fixed guarding on tools. • Impact goggles will be worn whenever work is done using cold chisels or other tools where there is a risk of flying particles or pieces of the tool breaking off.	3	1	3		
	Injury to hands, feet, and body	3	3	9	• Open bladed and sharp tools are to be carried in seethes and blades on knifes retracted. • Use auto-retractable safety knives. If not practical, use a fixed Stanley blade after a risk assessment has been agreed. • When using knifes cuts will be made away from the body. • Hand tools only to be used by competent persons. • Use electrically insulated tools when digging by hand. • Manual handing training provided, and safe guidance followed.	3	1	3		
	Entanglement	3	3	9	• Ensure correct guarding is in place on plant and machinery, not to be tampered with or removed. • No loose clothing/PPE/Jewellery to be worn.	3	1	3		
	Faulty tools	3	3	9	• Daily visual checks before use • Quarantine/service/replace faulty tools e.g., Loose hammer handles, mushroom headed chisels. • Any tools discovered damaged during use, work to be seized immediately and tool replaced before continuing.	3	1	3		
Use of Portable Electrical Equipment	Electrocution	5	3	15	• Only 110v equipment will be used on site. Portable and handheld tools for use with voltages above 110v are prohibited unless no alternative equipment is available, and providing the equipment is centre tapped to earth, armoured cabled and additional RCDs fitted. • Electrical equipment will be well checked and maintained. • PAT testing schedule established for Milestone tools with the Plant Department. PAT test records to be obtained for all hired tools & inspected for all subcontractor tools. • Condition of tools to be inspected before each use. Damaged tools to be reported and quarantined. • Avoid trailing cables across footpaths. Place/tie cables at high level wherever possible. Cables are not to be laid Avoid laying cables in water / wet conditions. Faulty tools / cables to be condemned and quarantined until repaired by an electrician.	5	1	5		

Use of Compressors and Pneumatic Power Tools	Vibration	3	2	6	• HAVS monitoring system to be adhered to. Prior to works, all power tools to be listed on HAVS tool exposure system which will outline safe working timescales and trigger times. • During works site supervisor to monitor HAVS use and split working between operatives to minimise exposure ensuring no one exceeds the daily Exposure Action Value (100points). • Whole body vibration shall be managed by a risk assessment to protect workers against vibration risk. • Operatives to ensure correct PPE worn for the task.	3	1	3		
	Excessive Noise	3	2	6	• Eliminate/reduce the need to use noisy equipment, e.g., arranging for materials to be pre-cut / fabricated off site. • Hearing PPE to be worn by operator and those nearby. Hearing Protection shall conform to BS EN 352. • Reducing duration and frequency of noisy activities. • Noise levels to be monitored. Noise risk assessments should be undertaken by a competent person, either an Occupational Hygiene Professional, a Health and Safety Advisor who has attended a noise assessment course or trained risk assessor who has attended a noise assessment course. • Anything above 85dB = Mandatory Ear protection must be used, and signage placed around area, making it a Creating Hearing Protection Zones. • Where possible make use of acoustic barriers and fencing when undertaking noisy works for example cutting activities.	3	1	3		
	Eye Injuries	3	2	6	• Exclusion zone set up with fixed type barrier with signage and debris netting to segregate others from works hence exposure levels are decreased. • Only use angle grinders with their correct guarding in place and if you have an abrasive wheel's training certificate. • Minimum requirement eye protection compliant to BS EN 166 to be worn during all times on site.	3	1	3		
	Inhalation of exhaust fumes	3	2	6	• Adequate ventilation will be provided to help reduce build-up of fumes. • Respiratory protection shall conform to the standard required based upon the type of hazard. encountered. This may vary from solvents to asbestos fibres. The RPE must provide adequate protection against the identified hazards. • RPE where identified to be worn - the user must have successfully passed a quantitative face fit test in accordance with HSE guidelines (HSE282). MIL training provided by 3b Training.	3	1	3		
	Inhalation of silica dust	2	3	6	• If creating dust from concrete, brick etc. then damping down to be enforced. • Operatives to wear FFP3 dust masks. • No dry cutting, water dust suppression to be used. • Water • used for dust suppression when drilling and breaking.	2	1	2		
	Failure of hoses	2	3	6	• Whip checks and air fuses to be used. • Daily visual checks before and after use. • Equipment to be well maintained during use.	2	1	2		
	High pressure air	3	4	12	• High pressure air must never be used to 'hose off' people or come into • contact with skin.	3	1	3		

General Labouring	Sprains and back injury	2	3	6	• Use of mechanical means of handling materials will be made wherever possible. • Persons not to lift more than they are comfortable with or 25kg for men, whichever is less. Refer to HSE / MIL guidance for max loads. • Ensure PPE is in an appropriate state, boots are clean with good traction to reducing slipping. • Think TILE before you lift – refer to MIL Manually Handling procedure. • In the Manual Handling procedure (Section 6 Operational Controls) - If the manual handling activity conditions falls within point 1-9, a specific MH risk assessment is required, using: MIL_FOR_HS_030.1 MH RA Form.	2	1	2		
	Slips, trips, and falls	3	2	6	• Site to be kept tidy to reduce risk of slips and trips. • Ensure PPE is in an appropriate state, boots are clean with good traction to reducing slipping, gloves are clean and dry. • During inclement weather ensure the surface around site/office area has a clear path to walk through, using pedestrian mats if required.	3	1	3		
	Falling objects	3	2	6	• All materials to be fully secured and strapped to vehicles. • Where applicable all site equipment to be strapped to individuals. • If working at height – then exclusion zones are required beneath and discussed with all site personnel via task briefing or induction. • Hard hats to be always worn, unless site specific risk assessment is made	3	1	3		
	Operatives struck by plant / vehicles	3	5	15	• A safe system of work will be adopted which deals with plant and vehicle movements. • All persons to wear high-vis and hard hats around plant. • Site vehicles to be banked when reversing. • Project team to implement a safe process of moving around plant – e.g., thumbs up or a wave before moving. • No mobile phones to be used in or around plant or vehicles.	3	2	6		
	Confined spaces	5	2	10	• Milestone Confined Spaces procedure to be followed. • Gas monitoring devices to be used. • Harness/Fall arrests to be warn. • Exclusion zone around confined space to protect third parties from entering. • No activities are to be undertaken if classed a high risk regarding confined space.	5	1	5		
	Collapse of excavations	5	2	10	• Excavations will be supported & regularly inspected. • No unauthorised entry of any excavation. • Excavation to be suitably protected via exclusion zones. • Minimise where possible the length of time an excavation is left open. • Consideration of excavation to be made regarding inclement weather.	5	1	5		
Working at heights (without scaffolding, ladders & platforms)	Falls of persons	3	2	6	• Where possible, work at height should be avoided by carrying out work at ground level. • Edge protection required where there is risk of falls that could result in injury. • Where edge protection cannot be placed or needs to be removed fall restrain must first be considered then fall arrest. • If fall arrest is used, then a means of rescue must be identified. • All operatives to have a safety critical medical including working at height	3	1	3		
	Falls of materials	3	2	6	• Exclusion zones must be set up below works if there is a significant risk of falling objects. • Hard hats to be worn. • Signs and barriers required below works to warn of overhead operations. • Fans, chutes, or full enclosures to be installed where debris is likely to fall. • Tools and materials to be secured if there is any risk of falling.	3	1	2		

Activities generating noise	Hearing health hazard due to exposure to excessive noise	2	3	6	• Use Milestone procedure Control of noise and statutory nuisance provision. • Assess the magnitude of the noise being generated. • Eliminate the task. • Change the equipment for other less noisy equipment. • Isolate the process using barriers. • Change the task. • Issue appropriate ear plugs / muffs / both. • Consider health surveillance / monitoring	2	1	2		
Hazardous Substances, COSHH	Irritation, Illness, Dermatitis	4	3	12	• COSHH assessment to be sought for each item of COSHH on site. • Correct Task Specific PPE to be always worn handling the COSHH item, referring to item specific COSHH Assessment • Operatives to be briefed on the specific COSHH hazards. • Operatives to be reminded via Toolbox Talk briefings about COSHH and need to look out for their own welfare.	4	1	4		
	Damage to Environment	4	2	8	• Spill Kits to be available in proximity of COSHH, Bunds to be used under storage of COSHH and items of plant that utilise COSHH. • If any materials found during the demolition and deemed to be hazard that will require a COSHH assessment before removed from the site to be • stored in the COSHH store and coned off until confirmed	4	1	4		
Excavation – breaking out road surface	Excessive noise caused by plant	2	4	8	• Use appropriate ear protection in and around works area – MIL Minimum standards to be adhered to. • Breaking out to stop when pedestrians are passing the works area. • Operatives in vicinity of breakout to wear ear defenders. • Noise mitigation devices e.g., sound barriers to be used where appropriate.	2	1	2		
	Flying debris	2	4	8	• Operatives to always wear eye protection when on site. • Breaking out to stop when pedestrians or vehicles are passing the works area. • Debris netting will be installed to fencing in front of shops and the excavation area	2	1	2		
	Hand arm vibration syndrome caused by excessive use of vibrating plant	2	4	8	• HAVS monitoring system to be adhered to. Prior to works, all power tools to be listed on HAVS tool exposer system which will outline safe working timescales and trigger times. • During works site supervisor to monitor HAVS use and split working between operatives to minimise exposure ensuring no one exceeds the daily Exposure Action Value (100points). • Whole body vibration shall be managed by a risk assessment to protect workers against vibration risk. • Operatives to ensure correct PPE worn for the task	2	1	2		
Excavation - general	Service strike – injuries inflicted due to strike, i.e., electrocution, service outage and financial cost and delay	5	4	20	• Obtain service locations prior to works and conduct site investigations and conduct trail holes to verify service locations as per Milestone Procedure • Undertake excavation works in accordance with Milestone permit to dig / safe excavation process. • All operatives involved with exaction process to have line in the sand training. • Use of RD7000 & Generator to scan, locate and mark up services prior to works commencing.	5	2	10		

					• Excavation team to periodically use CAT and Genny to scan area as per procedure. • Hand dug / Vac-ex trial holes to “prove dig” where appropriate. Safe horizontal hand digging procedures to be utilised Using insulated tools. • Hand digging shall be undertaken as per HSG47 guidance.					
	Hand arm vibration syndrome caused by excessive use of vibrating plant	2	2	8	• HAVS monitoring system to be adhered to. Prior to works, all power tools to be listed on HAVS tool exposer system which will outline safe working timescales and trigger times. • During works site supervisor to monitor HAVS use and split working between operatives to minimise exposure ensuring no one exceeds the daily Exposure Action Value (100points). • Whole body vibration shall be managed by a risk assessment to protect workers against vibration risk. • Operatives to ensure correct PPE worn for the task	2	1	2		
Excavation – Hand dig	Personal Injury from service strike and service outage	5	4	20	• Obtain service locations prior to works and conduct site investigations and conduct trail holes to verify service locations as per Milestone Procedure. • Undertake excavation works in accordance with Milestone permit to dig / safe excavation process. • All operatives involved with exaction process to have line in the sand training. • Use of RD7000 & Generator to scan, locate and mark up services prior to works commencing. • Excavation team to periodically use CAT and Genny to scan area as per procedure. • Hand dug / Vac-ex trial holes to “prove dig” where appropriate. Safe horizontal hand digging procedures to be utilised Using insulated tools. • Hand digging shall be undertaken as per HSG47 guidance. • Side dig method to be utilised when uncovering existing services. • Vacuum excavation to be utilised wherever possible to uncover existing services. • All operatives within the excavation team to be wearing and those near the excavation during excavation operations to be wearing flame retardant (ARC 1 rated) coveralls. An exclusion zone of minimum 3m to be established around the excavation location for all persons not wearing ARC rated coveralls.	5	2	10		
Excavation – Vacuum Excavator	Plant movements – Struck by moving plant	4	3	12	• Ensure Amber beacons on plant are operational and activated when operations are being undertaken. • All operatives and visitors to site will be always wearing high visibility PPE. • Ensure a competent banksman is present at the works area and assigned to bank plant movement. • Exclusion zones to be set up with appropriate barriers around the work area with signage denoting excavation works ongoing. • Site traffic management plan to be adhered to	4	1	4		
	Personal injury from service strike and service outage	5	4	20	• Obtain service locations prior to works and conduct site investigations and conduct trail holes to verify service locations as per Milestone Procedure • Undertake excavation works in accordance with Milestone permit to dig / safe excavation	5	2	10		

					process. • All operatives involved with exaction process to have line in the sand training. • Use of RD7000 & Generator to scan, locate and mark up services prior to works commencing. • Excavation team to periodically use CAT and Genny to scan area as per procedure. • Hand dug / Vac-ex trial holes to “prove dig” where appropriate. Safe horizontal hand digging procedures to be utilised Using insulated tools. • Hand digging shall be undertaken as per HSG47 guidance. • Side dig method to be utilised when uncovering existing services. • Vacuum excavation to be utilised wherever possible to uncover existing services. • All operatives within the excavation team to be wearing and those near the excavation during excavation operations to be wearing flame retardant (ARC 1 rated) coveralls. • An exclusion zone of minimum 3m to be established around the excavation location for all persons not wearing ARC rated coveralls.					
	Use of compressed air	3	3	9	• Carry out pre-use checks of soil pick and air lines. • Ensure whip checks and safety devices are in place and in good working condition. • Never point compressed air at other personnel. • Ensure ear defenders are used.	3	1	3		
	Flying debris	3	3	9	• Ensure glasses / safety goggles are always worn. • Face visors / shields to be worn if using air lances. • Ensure suitable protection is in place where works are in proximity to non- worksite areas (i.e., walkways open to public).	3	1	3		
Use of Excavators	Unplanned release of load	3	3	9	• Machine must be designed to lift if being used as lifting equipment. • All lifting must follow a specific lift plan for the excavator and load being lifted. Any amendments must be checked and approved by a CPCS trained AP. • Correct lifting equipment to be supplied, compatible to load. • LOLER Test Certs to be available on site. • Tail ropes to be used on large loads to steady and guide. • Trained Banksman / Slinger to be used. • Operators to be trained in the type & operation of any quick hitch devices fitted. • No operatives to be within working radius of excavator – exclusion zones to • be set up to segregate workers and manoeuvring parts of excavator.	3	1	3		
	Overturning of machines	5	3	15	• Machines to be used within operating tolerances. • Safe method of work to be in place for machines • Only trained and competent machine operators • Designated exclusion zones will be set up	5	1	5		
	Person struck by machine	5	3	15	• A Banksman is to be used where driver's vision is obstructed or when working in congested area. • All persons to wear high-vis, steel toecap boots, hard hats, gloves & glasses. • Nobody is to be allowed to work within the swing radius of the machine unless with the permission of the excavator operator. • No operatives to be within working radius of excavator – exclusion zones to be set up to segregate workers and manoeuvring parts of excavator.	3	2	6		

	Damage to underground services	4	3	12	• Obtain service locations prior to works and conduct site investigations and conduct trail holes to verify service locations as per Milestone Procedure. • Undertake excavation works in accordance with Milestone permit to dig / safe excavation process. • All operatives involved with exaction process to have line in the sand training. • Use of RD7000 & Generator to scan, locate and mark up services prior to works commencing. • Excavation team to periodically use CAT and Genny to scan area as per procedure. • Hand dug / Vac-ex trial holes to “prove dig” where appropriate. Safe horizontal hand digging procedures to be utilised Using insulated tools. • Hand digging shall be undertaken as per HSG47 guidance. • Side dig method to be utilised when uncovering existing services. • Vacuum excavation to be utilised wherever possible to uncover existing services. • All operatives within the excavation team to be wearing and those near the excavation during excavation operations to be wearing flame retardant (ARC 1 rated) coveralls. • An exclusion zone of minimum 3m to be established around the excavation location for all persons not wearing ARC rated coveralls.	3	2	6		
	Noise Emissions	3	3	9	• Noise monitors will be in place as part of the contract works – if thresholds are exceeded, working methods / plant to be evaluated. • Provide hearing PPE protection to operatives where required. • Warning signs to be place where required. • Noise exclusion zones to be set up if deemed necessary to ensure all operatives within area are wearing noise Protection equipment.	3	1	3		
	Excessive exhaust fumes / oil / fuel leakage (environmental)	4	3	12	• Daily checks and regular servicing / maintenance of plant to be implemented. • Spill kits made available in plant, works area and compound so leaks may have a rapid and appropriate response. • Emergency plan in place to ensure operatives are aware of procedure in case of environmental emergencies i.e., leaks. • Suitable guards around fuel tanks on plant. • Operatives to be trained and competent in COSHH and environmental incident response.	4	1	4		
	Fire	5	3	15	• Daily checks and regular servicing / maintenance of plant to be implemented. • Fire and emergency plan and risk assessment to be in place. • Appropriate fire extinguishers will be in place within the works area / compound areas as identified by the fire risk assessment. • No smoking anywhere on site except for the designated smoking areas • Good house keeping on site and within plant cabs. • Nappies will be in place for refuelling operations and spill kits available in case of spillage occurring	5	1	5		
Use of Transit Tippers and Dumpers	Transit / Dumper overturning	4	2	8	• Hand brake will be applied when loading, tipping or parked. • Trained and competent drivers to be used. • Plant must always be reversed down steep slopes and guided by a banksman on site. • Speed limits to be enforced. • Access routes to be constructed, accepted for use, and maintained throughout the works to	4	1	4		

					ensure they are suitable for access					
	Transit Tipper / Dumper falling into excavations	4	2	8	• Stop-blocks will be provided at side of excavation when unloading – typically placed 2m from edge of 1m deep trench. • Exclusion zones to be set up around excavations and edge protection in place. • Trained and competent drivers to be used	4	1	4		
	Injury to driver	4	2	8	• Transit Tipper / Dumper must not be overloaded. • Driver will get off the vehicle and stand clear when it is being loaded. • Driver will wear the seat belt provided. • Trained and competent operators will be used.	4	1	4		
	Injury to other persons	4	2	8	• Vehicle route to be clear of operatives and members of public. • Exclusion zones and safe walking routes will be set up throughout the site. • Plant operators will be trained and competent.	4	1	4		
	Unplanned movement of vehicle	4	2	8	• Trained and competent drivers will be used. • Handbrake to be utilised when vehicles not in use. • Plant operators to stand clear of plant when it is being loaded. • Keys are not to be left in plant when not operational. • Pre-use checks ensure all isolators are in good working order. • Good housekeeping within cab to ensure obstructions are not in place	4	1	4		
	Noise Emissions	3	3	9	• Noise monitors will be in place as part of the contract works – if thresholds are exceeded, working methods / plant to be evaluated. • Provide hearing PPE protection to operatives where required. • Warning signs to be place where required.	3	1	3		
Works in and with excavations	Collapse of excavation	5	4	20	• Avoid working within excavation wherever possible, if it is unavoidable, minimise time spent within the excavation. • Excavation & Ground conditions to be assessed prior to Milestone TW management procedure. • All excavations to have appropriate TW assessment produced by TW co-ordinator / supervisor. • Batter the sides back where possible. • Trench supports / boxes to be put in place dependant on depth and ground conditions to TW design. • Supported excavations to receive inspections and recoded on procore. • Excavation to be inspected before each shift entry (and after severe event). • Excavations to have robust access and edge protection. • Vehicles etc. to be excluded from area – suitable distances set up and necessary barriers installed. • Emergency preparedness assessment to be produced	5	1	5		
	Persons / vehicles / plant falling into excavation	5	4	20	• Exclusion zones to be set up around excavations. • On site speed limits to be enforced and adhered to • Only trained and competent operators to be utilised. • Edge protection around excavations to be in place. • Signage to be erected around excavations and visibility boards (white/red) to be installed to	5	1	5		

					Heras fencing. • Suitable access and egress methods in place for excavations • Rescue plan and emergency preparedness plan to be in place. • Daily checks on plant to ensure cameras / mirrors and other safety mechanisms are in good working order. • Daily checks on excavation and protections in place for excavations to ensure they are sufficient and suitable for changes to the working area					
	Flooding	4	3	12	• Provisions for dewatering of excavations will be available if required. • Excavations will be dewatered before entry to the excavation. • Sources of water ingress will be identified and controlled where possible. • Temporary works inspections shall include checks on presence of water. • Emergency preparedness and rescue plans to be in place. • Suitable first aid provisions available within site compound and site working areas.	4	1	4		
	Presence of toxic Gas	5	4	20	• Multi gas detection monitoring to be in placed win deep/unventilated excavations or where there is a risk of presence of a hazardous gas (test equipment calibration and testing certificates in place). • Vehicles / generators / sources of exhaust to be turned away from the excavation (downwind). • Consider confined space procedure / calculator when undertaking excavation works. • Emergency preparedness / rescue plan to be in place.	5	1	5		
	Presence of contaminated spoil	4	3	12	• WAC testing to be undertaken on materials excavated prior removal from site. • Waste management and storage plan to be in place for excavated materials and their means of storage. • All excavated waste will be tested for contaminants in line with Milestone minimum standards. • All excavated material will be segregated by type / location excavated as much as reasonably practicable. • Good welfare facilities will be provided in line with minimum standards. • No smoking anywhere on site except for designated smoking areas. • Suitable PPE provided to operatives involved within excavation operations	4	1	4		
Use of Excavators for lifting	Unplanned release of load	2	3	6	• Machine must be designed to lift if being used as lifting equipment. • Only use specific lifting points/eyes. • All lifting must follow a specific lift plan for the excavator and load being lifted. Any amendments must be checked and approved by a AP. • Excavator to be fitted with check valves and sling attachment. • Correct lifting equipment to be supplied, compatible to load. • LOLER Test Certs to be available on site. • Tail ropes to be used on large loads to steady and guide. • Trained Banksman / Slinger to be used. • Excavator on firm level ground. • Machines to be used within operating tolerances / safe working load by trained & competent operators.	2	1	2		

	Boom or Dipper arm striking overhead obstruction	2	3	6	• Site specific safe system of works to be established. • Milestone overhead services guidance to be used. • Plant operators to be trained and competent	2	1	2		
	Person struck by machine	3	2	6	• Exclusion zone for lifting radius. • A Banksman is to be used where driver's vision is obstructed or when working in congested area. • All persons to wear high-vis, steel toecap boots & hard hats. • Nobody is to be allowed to work within the swing radius of the machine unless with the permission of the excavator operator.	3	1	3		
Working With Concrete	Concrete Burns	2	3	6	• Operatives briefed on COSHH assessment for wet concrete and associated dangers with working with wet concrete. • Any concreter subcontractors to have rams reviewed, accepted and brief to MIL personnel prior to works. • Operatives in direct contact with concrete to wear overalls and rubber gloves to ensure minimal skin contact to wet concrete. • Operatives to wash any residual concrete off after pour / decontamination procedure. • Trained and competent operatives to be utilised for concrete pour operations. • All concrete pours will be supervised by a competent and experienced supervisor.	2	2	4		
	Concrete in eye	2	3	6	• Only essential operatives to be in the vicinity of the concrete pour location. Exclusion zones to be implement and site security measures to be reviewed prior to pour. • Operatives to always wear safety glasses.	2	1	2		

Hierarchy of Risk Reduction

a) Eliminate the hazard.

b) Substitute with less hazardous processes, operations, materials, or equipment

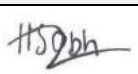
c) Use engineering controls or reorganisation of work.

d) Use Administrative controls, including training.

e) Use adequate Personal protective equipment.

Method Statement
MIL_TEM_HS_004.6

1. Project Details	
Method Statement Title	MS005 – Demolition works
Project	Stanhope Road Bridge Replacement
Project Number	3411042
Location	Stanhope Road, London, N6 5DF
Start Date / Duration	March 2024 – November 2024

2. Method Statement Review - (review and approval signatures)		
Compiled by	**Date**	**Sign and date**
A Niemcinskas	16.01.2024	
Reviewed by	**Date**	**Sign and date**
R Carley	17.01.2024	Ryan Carley
Approved for issue	**Date**	**Sign and date**
H Soboh	17.01.2024	
Date of change	**Reason**	**Approved by**
08/03/2023	Review Following Sub-con RAMS	A Niemcinskas

3. Location of Works

Stanhope Road
Highgate
London
N6 5NB

For Deliveries
Milestone Infrastructure Compound
In College Sports Ground
Corner of Stanhope Road / Avenue Road
Highgate
London
N6 5DF

(what3works – vibrate.loud.modes)

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4. Description of work to be undertaken

- Demolition of existing footbridge and abutments
- Installation of new drainage
- Construction of new bridge and associated embankments
- Construction of new accessible ramp access, steps and associated landscape works
- Located on Stanhope Road, Highgate in the London borough of Haringey

The 0.8ha site is linear, along a section of the Parkland Walk, the bridge to be replaced is an existing bridge allowing the Parkland Walk to cross over Stanhope Road.

The main Parkland Walk Path, running west-east is generally flat or gently sloping, but is set on what was a railway embankment, which slopes down steeply north and south to the housing flanking the path as well as steep slopes towards Stanhope Road at the intersection.

The current land use is a local nature reserve and public walkway with grass, shrubbery and predominantly woodland, apart from where the trees have been cleared close to the bridge.

Tree schedules, protection plans and surveys have been provided within the detailed arboricultural report supplied by the principal designer.

The site compound will be located on the corner of St Aloysius College Sports Grounds, adjacent to the Stanhope Road / Avenue Road junction, in close proximity to the bridge site. This area is comprised of a grass field with an edge of trees.

Considerations of surrounding environment

- Highway Environment
- Urban area
- Pedestrian traffic
- Interface with public rights of way
- Proximity to local schools & playgrounds
- Densely populated urban area
- Works adjacent to embankments and ditches.
- Working at height

This method statement will be concerned with the mobilisation to site and initial site activities include:

- Mobilisation of demolition works equipment
- Installation of protections for demolition works
- Demolition and removal of the existing bridge structure
- Demolition of existing abutments

Appendix A – *BB-SH-C1326- R001 – BB Industrial dismantling Ltd – Work Package Plan (includes method statement, Risk Assessments, Environmental and waste management arrangements, Emergency arrangements and Hand back arrangements)*

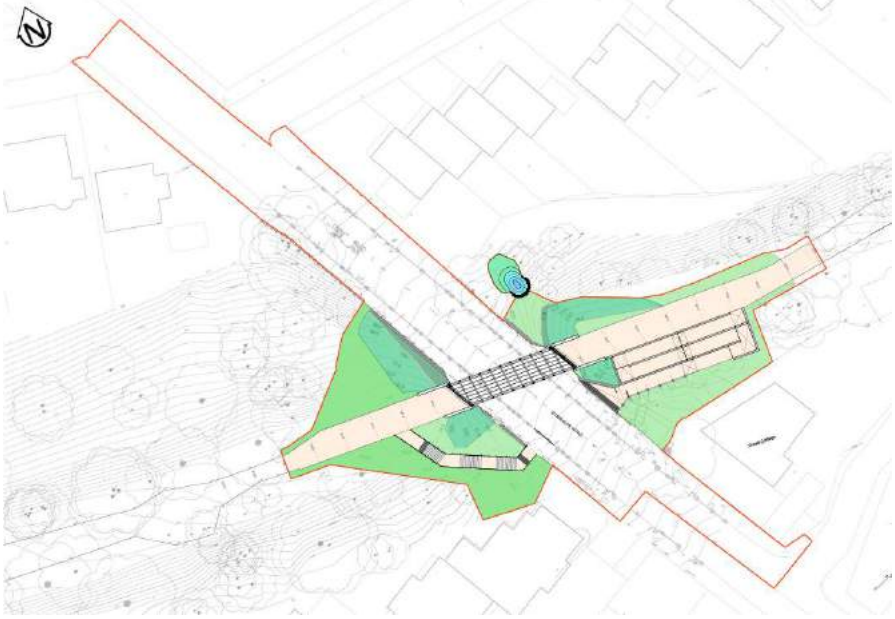
5. Access to and from the site

The site address is:

Stanhope Road
Highgate
London
N6 5NB

The site is a footbridge crossing the Parkland walk footway across Stanhope Road and the site compound is located a short walk away from the work site location. Below is a drawing showing the site location in North London and a close up of the work site boundary on the Parkland walk / Stanhope Road bridge. The site is a 10minute walk from Highgate Station on the Northern Line.





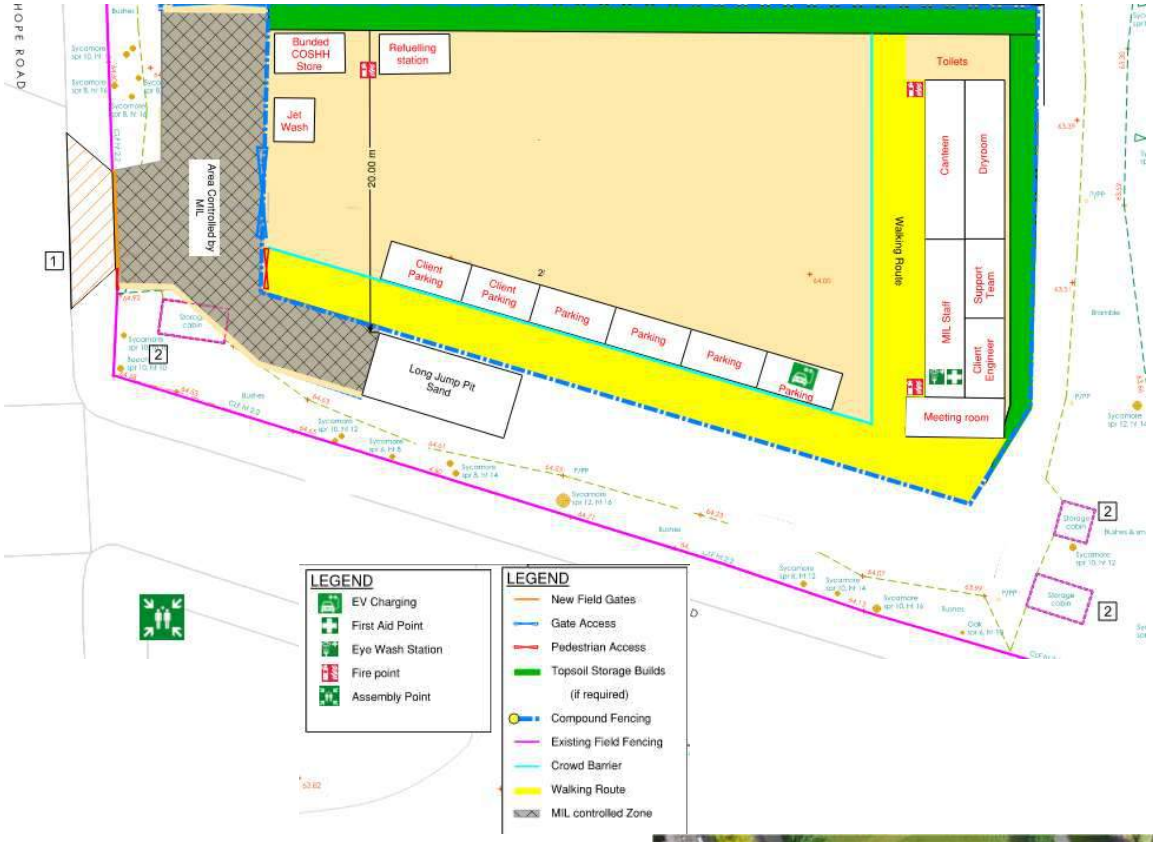
PERMANENT WORKS BOUNDARY – Dwg. 70085596-WSP-SBR-DR-BR-0000

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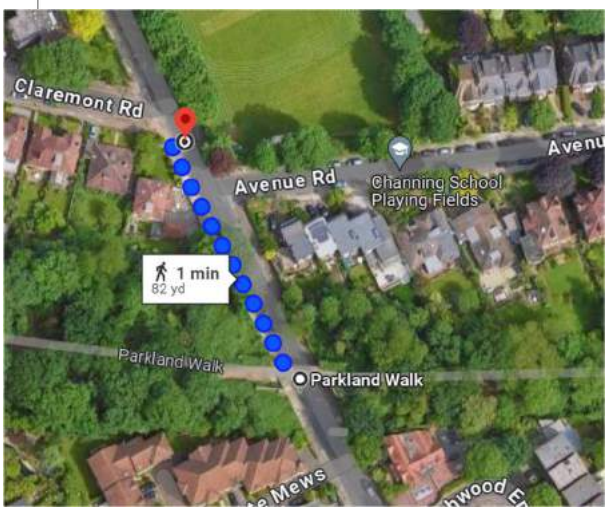
6. Welfare Facilities

The welfare facilities are provided 100m North of the site in a school playfield and will contain: #

- *Site offices and facilities*
- *Canteen with hot and cold running water, drinking water and meal facilities*
- *Dry-room changing room*
- *Male and female toilets*







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7. Permits Required		
Permit to avoid underground services	**Yes** ☒ **No** ☐	Refer to section 19
Hot Works Permit	**Yes** ☒ **No** ☐	Refer to section 18
Confined space permit	**Yes** ☐ **No** ☒	Refer to section 22
Lift Plans	**Yes** ☒ **No** ☐	Refer to section 20
Other Permits	**Yes** ☒ **No** ☐	If yes, give details in section 8

8. Details of additional permits required

LB Haringey will arrange for Temporary Traffic Orders to permit introduction of Single Alternative Lane Working, the closure of Stanhope Road at the site and to prohibit parking in the vicinity of the site and site compound.

A permit to occupy the Highway must be obtained from LBH Network Management team prior to occupying the Highway.

The application is to contain full details of any proposed works on the Highway, including Method Statements and proposed Traffic Management and diversion layout drawings. The application is to be made at least 2 weeks prior to the installation of any Traffic Management System.

9. Risk assessments

RA001 – General Site Operations

Covering:

- *Use of Hand Tools*
- *Use of Portable Electrical Equipment*
- *Activities Producing Dust*
- *Use of Compressors and Pneumatic Power Tools*
- *General Labouring*
- *Working at Height*
- *Use of disc cutter and abrasive wheels*
- *Access to and egress from the site*
- *COSHH*
- *Site Compound work*
- *Working from the back of vehicles*
- *Visitors – company, client, suppliers and public*
- *Works in close proximity to local school*

RA003 – Site Surveys and Trial holes

Covering:

- *Various items covered in RA001*
- *Excavations – breaking out asphalt surface*
- *Excavations – general*
- *Excavations – Hand dig*
- *Excavation – Vacuum Excavator*

RA – BB Industrial Dismatling Works Risk Assessment
Covering::

- *Struck by moving plant*
- *Lifting operations*
- *Buried services*
- *Hazardous substances (COSHH)*
- *Slips, trips and Falls*
- *Working with Electrical equipment*
- *Power Generation*
- *3rd Parties*
- *Falling Materials*
- *Services*
- *Un-controlled collapse*
- *Sharps*
- *Leptospirosis*
- *Un-even ground*
- *Waste*
- *HAVs*
- *High noise Levels*

10. COSHH assessments

Below is a table of the COSHH assessments that have been completed for the works and hard copies are to be kept with the materials within the bunded COSHH container in the site compound.

Assessment ID	Substance	Manufacturer	Review Date
4690303	Roadmarking paint	One Stop	03/2026
277275	Filler (aerosol)	Everbuild	07/2024
4681384	Generic – Ready mix concrete	N/A	09/2024
4681378	Grease – mineral oil	Morris Lubricant	04/2028
4286468	Generic – Asphalt	N/A	05/2024
4286465	AdBlue	GreenChem	05/2026
4267423	Generic – Mortar	N/A	04/2024
4267662	Denso Tape	Winn & Coales	04/2026
4423532	Lubricant	Polypipe	01/2025
3566589	Generic – Oil (Engine)	N/A	07/2024
4286851	Generic – Diesel	N/A	05/2026
4423468	Soundaseal	Soudal	01/2024
3566584	Generic – Petrol	N/A	07/2024
3527816	Generic – Bleach	N/A	07/2024
2480090	Generic – 2Stoke oil	N/A	06/2025
3468384	Generic – Silicone Sealant	N/A	01/2025
289063	Mould Release Oil	Bostic	02/2024

28555	Ready mixed concrete	CEMEX	06/2024
78756	Generic - Cement	N/A	07/2024
286462	Generic – Sand	N/A	02/2024
277275	Everbuild Expanding foam	Sika	07/2024
277306	Generic - Bitumen	N/A	07/2024

There are several controls that will be in place on site in order to manage the risk imposed from hazardous materials, their use and their storage;

- *A Ventilated and bunded COSHH material storage container*
- *All materials risk assessed on their exposure scenarios and assessments kept with materials.*
- *All COSHH materials must be returned to the container when not in use.*
- *All COSHH material receptacle waste (i.e spray/paint cans) will be stored in specific COSHH waste bins and disposed of as hazardous waste by licenced waste contractor.*
- *A bunded, padlocked fuel bowser will be set up in the site compound within a fuelling area.*
- *Several spill kits will be provided in key risk areas (i.e fuelling area, with machines, storage area)*
- *Plant nappies will be utilised and placed beneath all plant and equipment that contain oils or fuels when not in use to ensure any leaks are captured.*

11. Traffic management arrangements

Various phases of traffic management will be conducted as part of the works including

- *Traffic controlled part lane closures*
- *Traffic controlled pedestrian crossing.*
- *A Full Road closure with diversion routes in place*
- *Pedestrian diversion walking route to maintain the Parkland walking route.*
- *Small, localised closures / areas closed with herras fencing or barriers, signage, access ramps*

Full traffic management plans, procedures, method statements and risk assessments will be the responsibility of the traffic management contractor.

Small closures for trial holes and minor works can be installed by Milestone operatives via chapter 8 barriers and signage. These closures are for short duration works which are to be removed as soon as possible, preferably by the end of shift. If a footpath is closed in this fashion, footpath diversions will be in place with appropriate signage, kerb ramps and a banks person. Any operatives installing traffic management on public right of way will have the appropriate competencies to do so.

12. Personal protective equipment (PPE)

6 Point PPE (Safety Footwear, Hi Viz Vests, Hi Viz Trousers, Hard Hats, Gloves and Safety Glasses) are mandatory on all worksites for ALL persons including visitors/client etc.
***Arc Rated All-in-one Arc coveralls are mandated for all excavation teams**
The following PPE is to be worn where specified in the method statement, COSHH and/or Risk Assessments

Item	Details	For Use In
Hard hat	BS EN 397	At all times
High visibility vests	BS EN 471 Class 3	At all times
High Visibility Trousers	BS EN 471 Class 3	At all times
Safety Footwear	BS EN 20347	At all times
Gloves	BS EN 21420 (Replaces EN420 by 2023)	At all times
Safety Glasses	EN166	At all times
Safety Goggles	EN166B	As required for use with power tools In areas where breaking procedures taking place
Arc rated overalls	EN IS0 11611 2015, EN ISO 11612 2015, EN 1149-5 2018, IEC ISO 61482-2 2018	Excavating for trial holes
Ear Defender	EN 352	Where necessary Where noise levels exceed 85dB
3M - Dust Mask	8810 Dust/Mist FFP2 FFP3	Works generating dust, dusty areas, mixing concrete and tarmac, cutting cementitious materials.

Supply Chain, plant hire personnel and suppliers shall follow this procedure. They may substitute any specified item of equipment with alternative equipment providing it meets the relevant current British Standard and provides the level of protection required.

In the case of a one-off delivery driver not being in possession of the requisite PPE then it may be expedient for the equipment to be provided by Milestone Infrastructure.

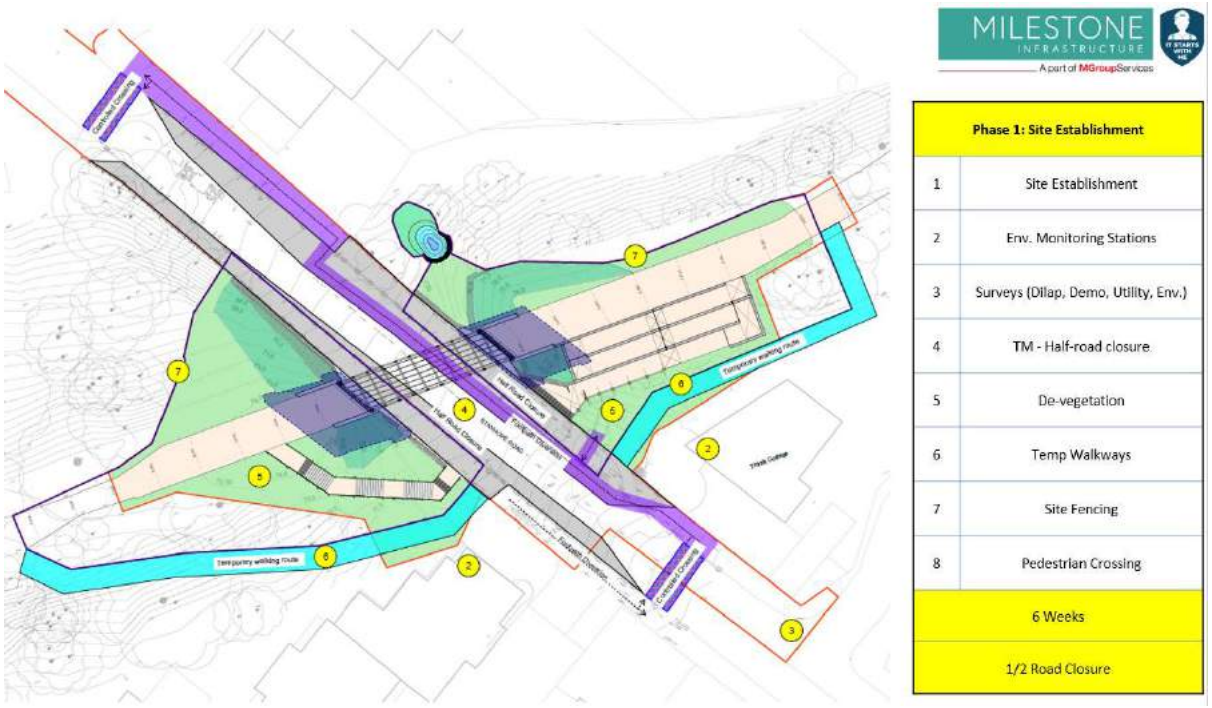
Where the requirement to wear 6 Point PPE is mandatory (for example, in operational areas within depots and on site), the **wearing of shorts, sleeveless vest, short sleeved tops, beanies and Rigger Boots are prohibited**.

13. Plant and materials to be used

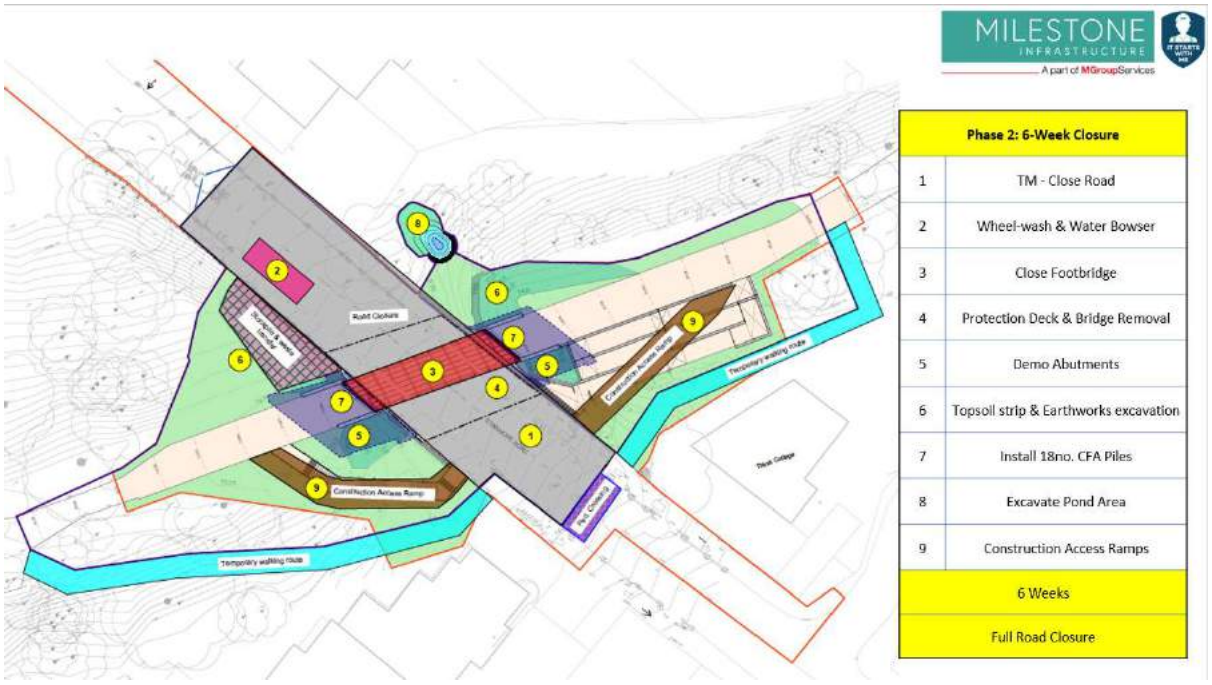
- Delivery vehicles: flat bed lorries, articulated HGVs, various sizes of vans and flat bed trucks
- Telehandler
- Sweeper attachment for telehandler
- Various small hand tools – only small, portable, fit for
- Portable generator
- Breakers
- Petrol saw
- Insulated shovels
- Chapter 8 Barriers
- Water filled barriers
- Slot block barriers
- Stand pipe
- Cordless hammer drill
- Transit van
- Trimmers, cutters and shears for de-vegetation works
- Petrol Chainsaws
- Protections materials: Bog Matts / Navi Matts / Visqueen / plywood and sleepers
- Hot cutting tools – oxy / propane
- (20T / 38T) Excavator
- Mini-digger (3T)
- Articulated dumper trucks

14. Safe method of work to be implemented

The works will be split into phases:-
Phase 1 – ½ Road Closure – Site Establishment (6weeks)



Phase 2 – Full Road Closure – Demolition of bridge and abutments (6weeks)



Following Phases – Construction phases covered by separate Method Statements.

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Mobilisation

- Welfare facilities and site boundary fencing will be installed and available prior to demolition works commencing. These works are covered by MS01 – Mobilisation, deliveries, survey and trail holes
- The site protection materials will be delivered to site. Sleepers / Navi Matts / Visqueen / Plywood and sleepers
- The plant and equipment will be delivered to site and stored within the secure Milestone compound.
- Permit to works will be completed, controlled, and enforced by Milestone and the Milestone minimum standards will be enforced.
- Once the road closure is in place, site boundary fencing will be installed via Herras fencing as per MS01.
- A wheel wash station will be set up near the entrance gates to the works area. – all plant exiting the site area have wheels washed on exit. – all plant activity on site will be controlled by a competent banksman.
- Visqueen and Navi mats will be installed utilising a 360 excavator with a grab attachment and telehandler.
- Footpaths will have additional layer of poly blocks and Navi mats installed to protect services within the footpaths.
- De-vegetation operations will have been completed separate to these works – Covered by MS02 – Tree protection and de-vegetation – Note: Tree protection fencing will not be altered or amended without the consent of the MiL project team.
- Items to be retained as per the works specification section 2.3 table 2/3.1 (below) will be carefully removed, avoiding damage and stored within the MiL Compound.

Description	Location	Delivered to	Requirement
Existing highway boundary fencing	Along the existing east and west footways	On-Site Storage/ steelwork fabricator/	To be repaired, repainted and reinstated following the completion of the works. See Appendix 3/1
Monitoring equipment	Stanhope abutments and wing wall	Engineer's representative	8 Telemetric monitors to be carefully removed and delivered to the Engineer's Representative.
Lamp Column	Stanhope west footway	On site storage	To be isolated, taken down and stored on site and re-erected, including electricity supply, as part of the works.
Deck prop and head and base fittings.	South deck beam	On site storage	The contractor is to remove the props and fittings and to take to store on site. The Engineer will arrange for collection by the owner.
Parking restriction sign and post	East Footway	On site storage	To be taken into store and re-erected as part of the works.

- The existing furniture and will be removed and segregated by type and to be disposed of appropriately as per the Site Waste Management Plan (SWMP)
- Excavator will be used to form a Ramp up to the top of the abutment on the South-west embankment. Covered by MS07 – Earthworks.
- Edge protection will be installed to ramp leading edges and shall not be moved or interfered with without the approval of the MiL project team.
- Slopes will be battered as to a safe angle of reproach.
- Exclusion zones below the bridge deck will be set-up ensuring no access to any persons during demolition activities.

- An Environmental Monitoring station will be set up at the closest affected receptor (adjacent property at Parkgate Mews) – this will include dust, vibration and noise monitoring)
- During the demolition and piling works, a geophone with a digital display will be utilised to monitor vibration levels at existing utility locations and set to alert at threshold limits:
- - 10mm/s at the location of Thames Water assets
- - 50mm/s at Gas assets

Permits

- Milestone permit to break ground system will be followed for breaking ground activities and will be issued by Milestone service co-ordinator with all pre-excavation works completed.
- Dig team will have Milestone line in the sand training completed.
- Full survey, permit to dig, trial hole and excavation methodologies and working procedures are outlined withing MS01 (Mobilisation, deliveries, survey & Trial holes) and MS03 (excavations and drainage) respectively.
- Permit holder will be responsible for ensuring permit control measures are followed on site and all operatives and operations are in line with Milestone standards for breaking ground activities.
- Milestone Hot works permit and standards for hot works will be followed.

See Appendix A – BB industrial dismantling works package plan for BB methodology of works.

Demolition of Bridge deck

- Excavator will be utilised to clear bridge deck coverings – bucket attachment will be utilised (NO Toothed buckets to be utilised without approval)
- Bridge parapet walls and pilasters will be removed with an excavator with grab attachment, reducing the walls down systematically pulling arisings back onto the abutments.
- Final Clearance of the deck to be carried out via 3t Excavator.
- Utilising an oxy propane hot cutting a hole to be cut through the trough deck to install running lined across the deck.
- Exclusion zones will be set-up ensuring only operatives with appropriate fall arrest safety protection will have access to the bridge deck.
- Operative to don harnesses and clip onto running lines (max 2no per line)
- All harnesses, running lines and safety / lifting equipment will have inspections completed and certification in place following LOWLER procedures.
- Operative to prep cut through deck utilising oxy propane cutting.
- Excavator fitted with load indicator to rig 1st section of troughing to be removed.
- Weight of section to be taken by excavator.
- Working from bridge deck / MEWP operatives to carry out final cuts to the section.
- Operatives move clear from the operations.
- Excavator to lift deck section to the road below.
- The above steps to be repaired working from one end of the deck to the other.
- Once the deck has been removed box cross beams to be removed
- 38T excavator with grab attachment to secure cross over beams
- Operatives working from MEWP to hot cut each end of the beam.
- Operatives working from a MEWP to hot cut each end of the beam.
- Operative to move from the exclusion zone.
- Excavator will lift the beam.
- The above to be repeated for each cross beam.
- 38T excavator to secure the main outer beam.
- Operatives to check the bearings for any holding down bolts and cut as required.
- Operatives to move from the exclusion zone.

- Excavator to lift beam.
- Above process to be repeated to second beam

Demolition of abutments

- Excavator to be fitted with hydraulic breaker.
- Excavator to break out the 1st section of arch to the rear of abutment face.
- Excavator to reduce the front wall down systematically across its width ensure the wall is kept reasonably level.
- Once c. 2m has been removed excavator to remove another section of arch to the rear and side wall removal. Each battered as per drawing.
- Front wall to be further systematically reduced.
- The above sequence to be repeated up to the rear wall (front wall to ground level, side and arch walls stepped @ 45degrees to full height rear wall)
- Rear wall to be systematically reduced as per the front abutment wall, side and arch walls to be reduced in sequence with rear wall, embankment to rear and side to also be excavated as the wall height is reduced.
- Brick work / concrete to be transported via dumper to the site compound where it is segregated by type as far as possible.
- Once all walls have been removed to ground level, excavator to reduce levels down to 500mm below existing road level.
- Arisings to be loaded into 8wheel wagons as the work progresses.
- Waste transfer notes to be completed and handed to the site office for records.

15. Control of Hand Arm Vibration Syndrome (HAVS) risk and Noise control measures

All items of plant and equipment that may cause a risk from HAVS must be individually listed in the table shown below.

Equipment	Vibration Output	Actual trigger time to reach the daily 80 exposure points limit

Where operatives may be called upon to operate two or more different items of plant and equipment an additional risk assessment to assess the cumulative effects of this must be undertaken using the exposure calculator and the details should be recorded here and the completed assessment must be attached to this method statement.

To be updated when on site and equipment confirmed

16. Monitoring of site operations

Training and competencies held by the site operative team at minimum shall be as shown below :

Training/Competencies	No
CSCS/CPCS Card	All
Manual Handling Trained	All
CAT scan. Competent.	Minimum 1
Service Protection Co-ordinator	Minimum 1
Abrasive wheels certification	Minimum 1
First Aider	Minimum 1
SMSTS / SSSTS	Minimum 1

Checks of operatives competencies, training certificates and site awareness and capabilities will be evaluated by the management team on their arrival to site and during the induction process.

Site supervisors will conduct regular checks throughout the day on the progress and safety of the operations occurring on site and relay information to the site management team.

Site engineers will conduct regular checks throughout the day on the safety and quality key performance indicators on site and relay the information to the site management team.

The **Site agent** will conduct at minimum one daily site inspection.

Site **project manager** will conduct a weekly site inspection.

Milestone **Health and Safety** advisor will conduct a inspection once a month.

Milestone **Environmental advisor** will conduct a inspection once a month.

Milestone **senior leadership** will a inspection once a month.

17. Training requirements

Training/Competencies	No
CSCS/CPCS Card	All
Manual Handling Trained	All
CAT scan. Competent.	Minimum 1
Service Protection Co-ordinator	Minimum 1
Abrasive wheels certification	Minimum 1
First Aider	Minimum 1
SMSTS / SSSTS	Minimum 1
CPCS, NPoRS	Plant operators
Safety critical medical	All operatives
Facefit testing	All operatives
Confined Space Training	Confined space works

18. Fire prevention measures and control of hot works

Appropriate COSHH material storage as per COSHH risk assessments

Spill kits and plant nappies provided in various locations where risk of leakages is present.

Fuel station set up within compound with a refuelling plan with spill kits and fire extinguishers provided.

Fire extinguishers provided at points of high risk and at various points throughout the site compound and work site areas.

Fire muster points and fire plan included within CPP.

At minimum one fire Marshall will be present at all times. Several of the on-site Milestone management team have fire Marshall and fire prevention training.

Once site set-up complete, third party fire risk assessment will be undertaken and section updated

19. Control of ground or structural penetration work

Any work involving the disturbance or penetration of the ground or a structure is always hazardous due to uncharted and unknown services that may be present. The following outline procedure must be strictly followed when carrying out this type of activity:

1. A Permit to avoid underground services is required for all work of this nature.
2. Where possible the client/service provider should isolate known services prior to carrying out the work. This isolation should be confirmed in writing prior to commencing.
3. Using a CAT (Cable Avoidance Tool), the area must be scanned, and the positions of any known services identified. If other services are identified by the CAT scan, then extreme caution must be exercised when carrying out the work.
4. Manhole and pit covers must be lifted within the immediate location to establish the direction and depth of any services. Where possible always use clamp and/or generator to establish depth and direction of services.
5. Trial holes using horizontal digging techniques must be made to identify the true location, depth and direction of known services.
6. Excavators must never dig deeper than 150mm with each stroke unless it is known that there are no services present.
7. CAT scanning must take place after every layer of soil is removed to ensure that any services can be successfully located.
8. Hand digging must be used within 500mm of the suspected location of a buried service. This must be carried out with extreme caution. This applies regardless of known cable depths.
9. Any changes to the safe system of work associated with the excavation works must be approved jointly between the Site Agent and the Permit Issuer prior to being undertaken.

20. Lifting Operations

An individual lifting plan must be attached to this method statement which covers all of the lifting operations that are to be undertaken on the site.

All lifting accessories should be tagged with the current compliance colour.

Lifting operations using open 'C' hooks are not permitted.

The delivery of site cabins and welfare lift plan will be completed by the supplier of the units and will be reviewed prior delivery.

Lift plans for excavators and telehandlers will be produced once on site and appended to this document

21. Manual handling

Arrangements are to be made to identify any major elements of the work which may constitute a risk from manual handling. The relevant control measures must be recorded in this section of the method statement.

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Manual handling will be reduced as far as reasonably practical to ensure manual handling risk is eliminated from the works activities. Methods of construction will be reviewed, and other options of handling materials will be employed such as:

- Mechanical means of lifting employed (telehandlers, excavators, hoists)
- Elements pre-fabricated off-site and delivered to position
- Lifting aids such as kerb lifters, wheel barrows, vacuum lifters and trollies and trucks
- Heavy materials shall be palletised and moved via telehandler
- All operatives will have manual handling training

22. Confined spaces – safety arrangements

All Operatives involved in a confined space entry must be trained and competent to do so.

Only an 'Authorised Person' may issue a Confined Space Entry Permit.

Confined space risk is not deemed to be encountered as part of these works.

23. Environmental considerations

Statements showing how all relevant environmental aspects and impacts that are identified either in the PMP or on the Risk and Environmental Impact Assessment Form must be recorded in this section of the method statement.

Risk to existing water courses and systems

Gully protection horns will be installed into all local gullies to ensure construction debris does not contaminate the local surface water system – note this is a final point of control in case other controls fail.

Control of COSHH Hazards

Due care will be taken while using any chemical and COSHH liquids to ensure nothing is spilled into the existing water course. COSHH materials will be stored on plant nappies on site, as well as any tools, plant or equipment that have a risk of leakage. Spill kits will be provided at risk points within the site compound and the work site areas. COSHH assessments will be completed, and hard copies stored with the COSHH materials.

A bunded COSHH material stored unit will be used for the safe storage of all COSHH materials, all materials will be removed here at the end of each shift. Materials will be segregated within the storage and clearly labelled including COSHH hazard labelling.

A refuelling station and refuelling plan will be created within the site compound and sufficient controls in place to control the risk of spillages as well as sufficient spill kits to ensure spills can be swiftly taken care of. Operatives will have COSHH and spillage training.

COSHH waste material (i.e used spill kits, empty paint cans) shall be stored in specific COSHH waste bins and disposed of appropriately.

Unexpected find of injurpus, invasive or notifiable species:

Toolbox talks to be conduced with the site team to raise awareness of plant species and their status.

Where observed on site, a report should be submitted to CSC, the site agent and the environmental advisor

The discovered plant will be contained on site within an enclosed skip with appropriate signage and identification.

Negative temporary noise exposure for local residents

Works timings will aim to be undertaken outside of unsociable hours, however where this is not possible, a Section 61 may be applied for and consultation with the local authority completed.

Site personnel will be informed where necessary of the need to minimise the noise exposure to the neighbouring community.

Audible alarms such as reversing beeper will be limited to a low volume setting.

Details of how any waste will be managed must also be recorded in this section of the method statement.

A site waste management plant will be in place to manage and monitor all details of waste material, including spoil movement. All waste material removed from site will have a waste transfer note from a licenced waste carrier and each note will be noted on the SWMP.

Waste and spoil areas will be set up within the site compound and all materials will be segregated by type, with appropriate signage installed denoting the type of waste it is. A general waste skip will also be provided with a closable lid.

24. Site specific emergency arrangements

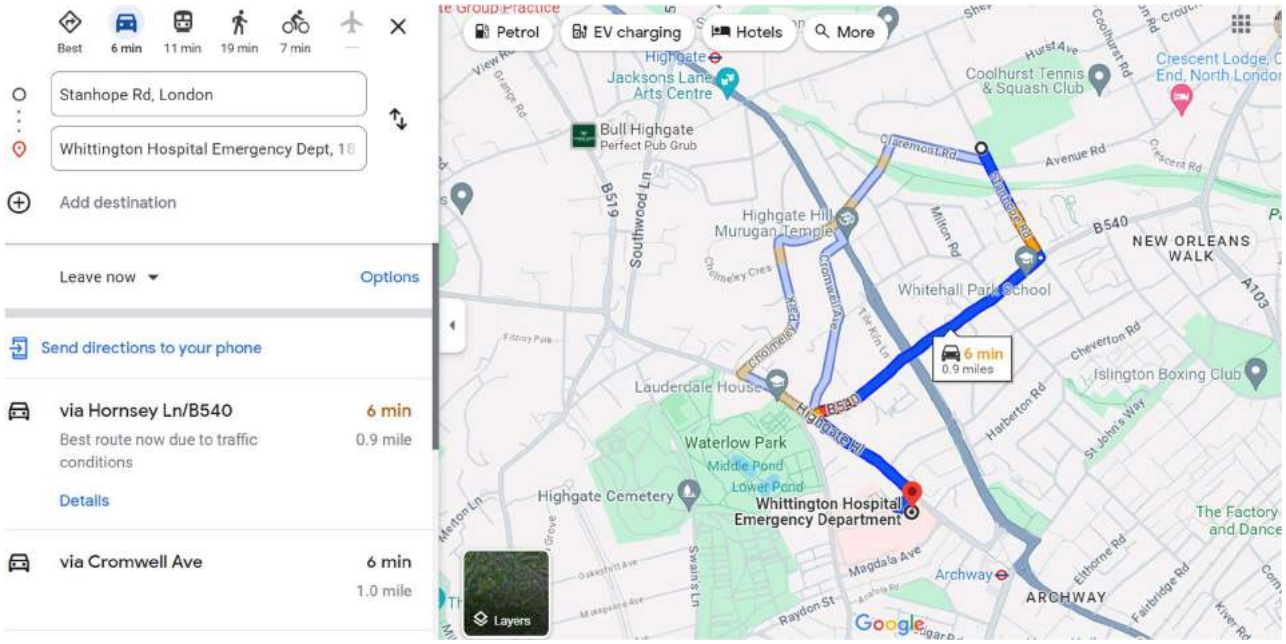
Local Muster Point: to be confirmed once on site

Always telephone the relevant emergency service first then the Site Agent if there has been a serious injury or there is an immediate risk of danger

Call the Site Manager first for advice if there is no immediate risk of danger and/or no one has sustained a serious injury.

In Case of Emergency 999

Local A&E Whittington hospital emergency department



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25. Method Statement briefing record			
This briefing was provided to all employees and subcontractors undertaking the work by the following person:			
Name:		**Position:**	
Declaration – I confirm that I have been provided with the method statement briefing by the person named above and have understood and will abide by all of the information provided.			
Name:	**Job title:**	**Company:**	**Signature:**

Industrial Dismantling Ltd

Project No: C1326
Issue: 1
Date: 07.03.24

Work Package Plan
Stanhope road bridge demolition.

Prepared by: D Blount

Date:07.03.24

Start Date: 06.05.24

Finish Date:24.05.24

Work Package Plan Number:
BB-SH-C1326- R001

Controlled Copy Number:
001

Construction Phase Plan Number:

xxxx

Site Manager

Approved by the Contractor's Engineering Manager (CEM):

Date

Engineering Manager
Accepted on behalf of Network Rail / Client:

Accepted on behalf of the Network Rail, Client Representative:

.....
(Print Name)

.....
(Signature)

.....
(Job Title)

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ISSUED TO:	JOB TITLE	ORGANISATION	VERSION
Document Control Master			Draft

VERSION CONTROL

VERSION	SUMMARY OF CHANGES
Draft	Draft Version

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1 Introduction

1.1 Brief outline of work methodology.

- Surveys carried out (Asbestos, Lead paint etc)
- Plant and equipment to be delivered to site, vehicles exceeding 3.5T to be FORS compliant.
- Vehicle movements overseen by banksman.
- Plant / equipment pre use checks to be carried out by operators.
- Visqueen and Navi mats to be installed to road utilizing 360° excavator with grab attachment / telehandler.
- Foot paths to have an additional layer of 200mm Polly blocks and 75mm Navi mats installed to protect services.
- Permit to dig to be issued by Client.
- De veg to be carried out by others prior.
- Excavator (20T / 38 T) to form ramp up to top of embankment / abutment.
- Excavator (20T) to clear bridge deck coverings (assumed loose fill only and no ballast)
- Parapet walls and pilasters to be removed via excavator fitted with grab attachment reducing walls down systematically pulling arising back onto the abutments.
- Utilizing a mini digger (3T) final clearance of the deck to be carried out
- Hot works permit issued by client with stipulations implemented.
- Utilizing oxy propane hot cutting, a hole to be cut through the trough deck to install running lines along the deck.
- Operative to don harnesses and clip onto running lines (max 2no per line)
- Operative to prep cut trough deck utilizing oxy propane cutting.
- Excavator fitted with load indicator to rig 1st section of troughing to be removed, 2no sets of brothers connected with 3m collar chains to cradle the section.
- Weight of section to be taken
- Working from bridge deck / MEWP operatives to carry out final cuts to section.
- Operatives to move clear.
- Excavator to lift deck section.
- The above to be repeated working from one end of the deck to the opposite end.
- Once the deck has been removed box cross beams to be removed.
- 38t excavator to be fitted with grab attachment.
- 38t excavator with grab attachment to secure beams.
- Operatives working from mewp to hot cut each end of the beam with a sit cut.
- Operative to move from the exclusion zone.
- Excavator to lift beam.
- The above to be repeated for each cross beam.
- 38t excavator to secure main outer beam
- Operatives to check bearings for any holding bolts and cut as required.
- Operatives to move from exclusion zone.
- Excavator to lift beam
- Above process to be repeated to second beam.
- Steel work to be set down in designated area, main beams to be sectioned into 3 to load into skips.
- Steel work to be loaded into EMR skips for removal of site, WTN completed prior to waste leaving site and copy issued to client.

Abutments

- Excavator to be fitted with hydraulic breaker.
- Excavator to break out the 1st section of arch to the rear of abutment face.
- Excavator to then reduce the front wall down systematically across width ensure the wall is kept reasonably level.
- Once c. 2m has been removed excavator to remove another section of arch to the rear and side walls.
- Embankment to the side and rear for the abutment to be excavated as required to facilitate the wall removal. Earth battered as per drawing.
- Front wall to be further systematically reduced.
- The above sequence to be repeated up to the rear wall (front wall to ground level, side and arch walls stepped @ 45° to full height rear wall).
- Rear wall to be systematically reduced as per the front abutment wall, side and arch walls to be reduce in sequence with rare wall, embankment to rear and side to also be excavated as the wall height id reduced.
- Brick work / concrete to be segregated as far as practically possible.
- Once all walls have been removed to ground level, excavator to reduce levels down to 500mm bellow existing road level.
- Arisings to be loaded into 8 wheel wagons as the works progress.
- Waste transfer notes to be completed prior to waste leaving site.
- Once abutments have been removed excavators fitted with buckets to re grade the remaining site area as per drawing / levels set out by client.
- Pond area to be regraded utilizing 3t mini digger due to adjacent trees.

1.1.2 The following tasks support this Work Package Plan:

Reference	Prepared by:	Task Briefing Sheet Title	Activity Start Date
TBS01	D Blount	Span removal	06.05.24
TBS02	D Blount	Abutment demolition & excavation	*13.05.24*

1.2 Principal Contractor's delivery organisation

1.2.1 The following individuals from the Principal Contractor's organisation will be involved during this work package:

Role	Name	Contact Number	
Project Manager	Hassan Soboh	07817 262454	hassan.soboh@milestoneinfra.co.uk

.2.2 The following companies, specialist contractors and/or individuals will be involved during this work package:

Name and address of company, specialist contractor or individual, etc.	Work activity / Specialism	Point of contact details (name and telephone number
B&B Industrial Dismantling Ltd	Dismantling / Asbestos removal	A Blount 07710312944 / D Blount 07891557960

1.3 Resources

1.3.1 The following resources will be used for this work package:

People

Number of People and their competence	Task
1 x Site manager (Client / B&B)	All
1 x Site Supervisor (Client / B&B)	All
2 x Machine drivers	All
2x opps	All

Plant, Equipment and Tools

Quantity of Plant, Equipment and Tools
38T excavator + Attachments
20T excavator + attachments
3T excavator + attachments
Tower scaffolds
Mewp. (nifty 12 or similar)
Dumper (9T)
12m telehandler.
2no running lines
Oxy propane burning gear

Materials

Quantity of Materials	
Various timber sections	Poly blocks
Pedestrian barriers.	Ply wood
Heras fence panels- client	Geotex
Petrol / 2 stroke oil	Navi mats
Oxygen bottles	Propane bottles
Spill kits	Bottle cages

2 Working Together

2.1 At site communication

2.1.1 HSEQ information including risks and controls will be defined in the induction briefing, which are given by the Site Supervisor prior to commencement of work. This includes the arrangements for maintenance and use of common equipment, in particular the access and egress.

All statutory information will be displayed at the site accommodation in accordance with the Client forms and policies.
Communication including safety related information for the project will be, by means of project HSEQ meetings, written safety briefs, bi-weekly toolbox talks, memos and publications.
All contact details are in the Health and Safety Plan and will be posted on the mess room wall.

2.2 Contact details.

2.2.1 The following are the main contacts for this work package:

Name	Role	Organisation	Contact details	Tick to confirm number works and has been tested
	Project Manager			
	Scheme Project Manager			
	Construction Manager			
Hassan Sobohg	Project manager	Milestone	07817 262454	
Andrew Blount	director	B&B	07710312944	
Mike Edwards	manager	B&B		

3 Hazard Management

3.1 Work involving particular risks

3.1.1 The work in this package does not involve any of the particular risk(s), as detailed in Regulation 12 (2), (Schedule 3) of the CDM Regulations 2015.

Risk	When and where will the risk be present?	Permits Required	How will this risk be controlled?
Fall from height	Accessing and Works within building	Permit to demolish,	Working at height trained operatives. Running lines to be installed / inspected by Supervisor / manager. Max 2no opps per line. Harness and lanyard clipped on at all times upon open edge be formed though the deck. Mewps to be operated by IPAF t&C operatives. Pre use checks carried out on all access equipment / PPE.

3.2 Significant construction risks

3.2.1 The following are the significant railway and construction safety and health risks that apply during this work package:

3.2.1 Client shall manage the Hazard Log (or Hazard Record as defined in a Common Safety Method (CSM) for risk evaluation and assessment) during the construction phase of the project. This shall be reviewed and updated at regular intervals, or whenever there is a change that could impact the hazards and associated risks. The review shall be undertaken with input from the parties listed below.

Role	Name	Contact Number	
CEM			

Client shall update the list of significant construction health and safety risks based on the Hazard Log. These risks shall be communicated to all the relevant affected parties. Activities with risks to health & safety are considered at the Health & Safety Planning Meeting. The standard agenda includes a Risk Assessment Chart, which is used to indicate the activities and hazards anticipated.

Risk assessments detailed in the Pre-Tender Plan, together with Designers risk assessments (DRA's) and any further risk assessments deemed necessary, including those for activities carried out by other Contractors, shall be reviewed and approved for use by Client.

Significant risk work packages requiring client acceptance shall be identified at the Health and Safety Planning meeting, the output of which is included in this Construction Phase Plan

Safety Work Package Plans are prepared for activities with significant risk, and these will be briefed to site operatives and a record kept (*Method Statement Briefing Register*)

All persons attending site, whether visitors, employees or self-employed, will be informed of the risks together with the preventive and protective measures established, so that they understand what they need to do.

The identification and effective management of activities with risks to health & safety is planned, organised, controlled, monitored and reviewed at the 4-Weekly Health, Safety and Environmental Meetings.

Significant risks to health arising from site activities may include:

Risk	Score		Total score	Control	Result		Total Result
	Probability	Severity			Probability	Severity	
Strike by moving plant	4	5	20	• Exclusion zones. • Machine controlled by bankman out side of exclusion zones. • CPCS / NPOR T&C operators • Pre use checks carried out to plant by operator. • Designated refuelling points • Plant parked in secure location with arms / masts lowered. • Engines switched off when not in use. • Plant to be fitted with mirrors / cameras etc.	2	5	10
Lifting operations	4	5	20	• Works carried out as per lift plan. • Excavator to be fitted with SWL indicator. • All lifting equipment to have certification present on site. • Supervisor to carry out visual inspection of equipment prior to use. • Exclusion zones.	1	5	5
Buried services	5	5	25	• Client to provide service location drawings and demark on site • Client to cat scan and issue permit to dig. • Excavation via excavator	2	5	10
Hazardous substances (Petrol etc)	2	5	10	• COSHH Assessment • Spill kits • Refuelling points • Relevant signage • Hygiene facilities. • Drip trays • Bunded fuel store	1	5	5

Risk	Score		Total score	Control	Result		Total Result
	Probability	Severity			Probability	Severity	
				• An inventory of all substances (e.g., gas oil, hydraulic oil etc) maintained with appropriate hazard information. • All operations which involve, or may involve, exposure to substances hazardous to health will be assessed and appropriate control measures will be taken where elimination or substitution of the hazardous substance is not possible. • All employees will be provided with comprehensible information and appropriate training on the nature of the hazardous substances.			
S,T and F	5	3	15	• Walking route set up and demarked. • PPE foot wear to be worn on site. • Good house keeping. • Adequate task lighting . • Workplace to be kept tidy and managed effectively. Minimise build of materials/debris. • Restrict amount of water used to reduce dust. Limit spread of waste water/slurry. • Client to specify if any additional water control measures are required. • Designated access routes to be adhered to. • Protective footwear to be worn at all times. • Operative to demonstrate care and vigilance and not take unnecessary risks, especially on road embankments, near water, on contaminated sites, or any where else where the conditions heighten the risk.	3	2	6
Working with electrical equipment	3	3	9	• All electrical equipment, including portable equipment to be fit for purpose. • Operatives to be competent in the use of power tools.. • Exposure times to be adhered to for each piece of equipment. • Havs records to be kept as applicable. • Electrical equipment will be used and maintained in accordance with regulations. Electricity at work regulations 1989 apply.	2	2	4

Risk	Score		Total score	Control	Result		Total Result
	Probability	Severity			Probability	Severity	
				• All 110v equipment to hold a current pat test. • Checks to be made to ensure that the cable is not cut or damaged. If damaged, the tool to be exchanged or repaired by a competent person. • Provision and use of work equipment regulations 1998 (PUWER) regulations to be adhered to and it is to be ensured that the equipment is :- suitable for the intended use, safe for use, maintained in a safe condition and, inspected to ensure this remains the case. • Plant to only by used by competent people, accompanied by suitable safety measures, e.g. guards, markings, warnings and maintained in a safe condition. • Any inspection should be carried out by a competent person.			
Power Generation				• 110v/415v mains supply - keep cables to a minimum length and secure where possible. • Ensure Pat Tests are in date and maintain condition of cables/plugs/sockets. • All leads to be checked visually before use. • Ensure all equipment switched off prior to unplugging cables • Electricity at work regulations 1989 to apply. • 240v Mains, all site equipment is 110 volt, therefore transformer required. • Locate transformer directly next to mains plug, use NO mains extension leads. Ensure Pat Tests are in date and maintain condition of cables/plugs/sockets. • All leads to be checked visually before use. • Electricity at work regulations 1989 to apply.	2	2	4
3rd parties	2	3	6	• Works areas segregated. • Noise to be considered at all times – No shouting etc	1	2	2
Falling Materials	3	4	12	• Exclusion zones	2	3	6

Risk	Score		Total score	Control	Result		Total Result
	Probability	Severity			Probability	Severity	
				• Demolition as per method statement • Trained and competent operatives. • Use of mechanical plant.			
Services	3	4	12	• Client to provide service drawings. • Services to the structure to be disconnected / isolated prior to B&B works – Certificates on site • Additional layer of mats & poly block to be installed ot footpath to protect the services	2	4	8
3rd parties	2	3	6	• Works areas segregated. • Noise to be considered at all times – No shouting etc • Traffic management of vehicles entering and exiting site. • Letter drop by client.	1	2	2
Un controlled collapse	3	5	15	• Works carried out as per method and sequence. • Install of temporary / new floor to form solid platform for works.	1	5	5
Sharps	3	4	12	• Initial search for sharps carried out • Gloves to be worn at all times. • Sharps not to be handled by operatives. • Any sharps found to be reported to site supervisor who will organise disposal in accordance with procedure. • Should any person on site be accidentally stuck by a needle and it is bleeding they should allow the injury to bleed while washing under water for 10 - 15 mins then report immediately to the Supervisor. The Supervisor shall then arrange for the person in question to attend a Doctor / Hospital immediately. The needle should be brought to the casualty /Doctor as it will be required for identification of possible Blood Pathogenes etc.	1	4	4
Leptospirosis.	4	3	12	• All operatives will be warned of the dangers associated with contact with rats and other vermin. • Gloves will be worn at all times and operatives will be informed to avoid	2	3	6

Risk	Score		Total score	Control	Result		Total Result
	Probability	Severity			Probability	Severity	
				hand to mouth contact and eating and drinking is prohibited. • All cuts or open wounds should be covered to avoid infection. • A good level of hygiene facilities will be provided, so as site operatives can wash their hands in hot soapy water, drying towels will also be provided. • - If the rodents become a problem, arrangements shall be made for a pest control organisation to be contacted and the vermin eradicated.			
Un even ground	3	4	12	• Employees to carry out visual inspection of area to assess the underfoot conditions. • Special care to be taken after rainfall, or in areas of heavy ground vegetation. • Most suitable access route to be taken to the site. Use access steps. • Safety footwear with good ankle support to be worn at all times.	1	4	4
waste	4	4	16	• All waste will be disposed of using registered and licensed contractors, prior to disposal and will be collected together in an appropriate skip. • Waste transfer notes to be complete prior to waste leaving site. • Current waste carriers license	1	4	4
Havs	5	4	20	• Trained employee • Do not exceed short work duration. • Accumulative exposure limit not to be exceeded • PPE, Anti vibration gloves, high impact goggles. • B&B to assess suppliers and products and purchase low vibration tools which are suitable for the work, efficient and of lower vibration. • Information to be provided on vibration magnitude and trigger times. • Hand held equipment to be fitted with a tag detailing magnitude and exposure times. • Method statements to include vibration data and exposure times.	2	4	8

Risk	Score		Total score	Control	Result		Total Result
	Probability	Severity			Probability	Severity	
				• Equipment to be maintained to manufacturers specification to avoid worsening vibration e.g. ensure rotating parts are checked for balance and replace if necessary keep tools sharp. Control work organisation, by job rotation. • Limit the time of exposure to vibration. • Avoid continuous periods of exposure, several shorter periods preferable. • Work to be planned to prevent operatives being exposed for periods which are long enough to put them in the high risk group (above the ELV). • When operating hand held plant with vibration magnitudes likely to be above the action level, operatives to complete a Daily Havs Exposure Record Sheet to allow monitoring of exposure levels and methods of work. • Operatives who are likely to or have been regularly exposed above the EAV (exposure action value) will be sent to a medical practitioner for assessment. • Operatives to be issued with and to wear PPE to keep warm and dry to encourage good blood circulation. • Gloves to be worn to keep hands warm, but not relied on to provide protection from vibration.			
High noise levels	2	4	8	• Noise to be reduced by engineering means wherever practicable, • Control of Noise at work regulations 2005 to apply • Where noise level is above the 1st action level, currently 80dB(A), hearing protection to be provided on request. • Where noise level is at or above the second action level, currently 85dB(A), appropriate PPE must be worn. • Operatives to be supplied and wear ear defenders to provide protection at 500-2000Hz frequency. Standard Noise Reduction (SNR) - 28-32dB - Approved to EN 352-2. • Client to mark area as ear protection zone and ensure other personnel wear ear protection.	1	4	4

4 Environmental and Waste Management Arrangements

4.1 Environmental management arrangements

4.1.1 All litter generated by operatives shall be put bagged and removed from site.

All plant will be in good working order and have an in-date certificate and copies of the certificate held in the project file.

Plant shall be positioned as to minimise the noise created.

All refuelling of plant shall be at the at refuelling point. Drip trays and plant nappy's to be used always. All waste fuel to be disposed of as hazardous waste

4.2 Waste management arrangements

4.2.1 No waste generated directly from the works will be left on site.

All waste generated by the works shall be removed as controlled waste.

All waste will be carried and disposed of by a licensed operator with all transport notes retained onsite for record purposes.

5 Emergency Arrangements

5.1 Site emergency arrangements

PREPLANNING

An Emergency Planning review shall be undertaken by Client to identify any issues, and an 'Emergency Response Pack' shall be made available with appropriate content to the activities being undertaken.

An emergency response pack shall be created to help ensure that remote works away from Office/Welfare, have sufficient information and materials to assist with dealing with an Emergency/crisis situation.

Each worksite shall ensure that the content is suitable to the site specifics in terms of work location, activities and the levels of risk identified in workplace assessments. However, the below is a guide to the minimum content:

Information (in waterproof document pouch)

Emergency contacts list (Site Manger primary call)

- Accidents & Incidents
- equipment locations
- hospital route and meeting point
- accident reporting procedure
- signaller / isolation details

Fire

- fire arrangements plan (local equipment, routes and muster points

Other(s) as required

Environmental

- Spill kit location and content

5.1.1 First aid arrangements

5.1.1.1 In the event of a major injury, fire or other dangerous occurrence, the incident shall immediately be reported to the site office, where Client's Project / Site Manager or deputy shall assess further actions required including contacting the Emergency Services (999 or other number dependent on location), as per the Emergency Arrangements Plan.

Details (name, address and telephone number) of the nearest Accident and Emergency hospital and police station will be posted in a prominent position on site together with a map showing their location.

Contractors shall provide information about RIDDOR incidents to the Principal Contractor so that they can monitor compliance with health and safety law and, if necessary, review the arrangements for the management of health and safety.

This may be by reference to a particular accident reporting procedure. Any sub-contractor on site should comply with Network Rail or the contractor's accident/incident reporting arrangements. Incidents should also be reported to the Network Rail Investment Support Centre.

5.1.2 Evacuation arrangements

5.1.2.1 A muster point shall be established for any emergency evacuation situation. The use of airhorn shall be used to sound the alarm in an emergency, the signing in register will be used for roll-call.

If within MEWPS will require a rescue from height procedure.

5.1.3 Fire safety arrangements

5.1.3.1 A fire safety plan shall be based on the actual risk of fire present on the site. This will include measures to prevent a fire starting (e.g. control of hot works, smoking and refuelling activities), the method of raising the alarm with all people on site and any firefighting arrangements provided. The plan should also contain details about the need for any temporary fire alarm panels or connections to current fire alarm panels; also the need to locate fire alarm equipment (i.e. smoke or heat detectors) that might be affected during the construction phase.

5.1.4 Security arrangements

5.1.4.1 The site shall be secured by a fence line to prevent unauthorised access from members of the public. British Transport Police shall be advised of the works and the likely for work to attract unwelcome attention.

5.1.5 Summoning emergency services

5.1.5.1 In the event of a major injury, fire or other dangerous occurrence, the incident shall immediately be reported to the site office, where Client's Project / Site Manager or deputy shall assess further actions required including contacting the Emergency Services (999 or other number dependent on location), as per the Emergency Arrangements Plan.
Details (name, address, and telephone number) of the nearest Accident and Emergency hospital and police station will be posted in a prominent position on site together with a map showing their location.

Contractors shall provide information about RIDDOR incidents to the Principal Contractor so that they can monitor compliance with health and safety law and, if necessary, review the arrangements for the management of health and safety.

Organisation	Details	Contact Number
Police	Emergency number	999
British Transport Police	Emergency number	0800 405040
Fire	Emergency number	999
Ambulance	Emergency number	999/112
Environment Agency	Emergency hotline	0800 807060
Health & Safety Executive	International House	0845 345 0055
BUPA	Emergency number	0800 163623
Gas (Transco)	Emergency number	0800 111 999
EDF Electricity	Emergency number	0800 783 8866
British Telecom	Emergency number	0800 917 3993
Emergency Spillage Call Out	Response Line	08700 73 77 66 73

5.1.6 Asbestos

5.1.7.1 if any suspect material is identified on site, works to cease, area made safe as far as practically possible, area segregated, client representative notified.

Utilities

5.1.8.1 In the case that any unexpected services are identified works will stop immediately, the site management team / Utilities coordinator must be notified immediately.

See Client services policy in appendices.

6 Work Package Arrangements

6.1 Site Layout



6.2 Access and Egress

6.2.1 The Authorised Access Point is as follows:

6.3 Welfare

Workers must have access to:

- toilets and hand basins, with soap and towels or a hand-dryer
- drinking water
- a place to store clothing (and somewhere to change if special clothing is worn for work)
- somewhere to rest and eat meals

6.4 Rail Traffic Management

6.4.1 N/A

6.5 Road Traffic Management

6.5.1 Traffic Management Plan (TMP) to be produced and communicated by client / PC. This shall be reviewed as a minimum weekly.

	Required Y / N	Permit Reference	Specific Arrangements & Limitations
Parking Arrangements:	**Y**	N/A	Site vehicles to be limited to the bare minimum & parked in a safe manner avoiding paths of other vehicles. Reverse Parking when possible
Traffic Management	**Y**		Clint to be responsible for road and foot path closures required inclusive of any mitigation measures i.e fencing etc.

APPENDICES – Supporting information



Stanhope Road Bridge

Air Quality and Dust Management Plan

Project Name	Stanhope Road Bridge		
Project Start Date	March 2024		
Project Duration	39 weeks		
Prepared By	Amy Redpath (Senior Environmental Advisor)	**Sign:**	**Date:** 08/03/2024
Reviewed By	Angiolina Albertini (Environmental Manager)	**Sign:**	**Date:** 12/03/2024
Approved By (Document holder)	Hassan Soboh (Senior Project Manager)	**Sign:** H.Soboh	**Date:** 12/03/2024

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Revision Table

Revision	Summary of Changes Made	Revision By	Revision Date:
01	First Revision		

List of Appendices

Appendix	Description	Required Y/N
A	Definitions	Y
B	Emission Monitoring Form	Y
C	NNRM Registration	Y

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1.0 Introduction

This Air Quality and Dust Management Plan (AQDMP) has been prepared in response to the planning condition set out by the London Borough of Haringey in accordance with the Greater London Authority SPG Dust and Emissions Control (2014). Its objective is to ensure emissions are mitigated and minimised for the duration of the project at Stanhope Bridge Road and covers the risk assessment and mitigation measures required for the demolition and construction phases of the project.

2.0 Purpose

This Project is being completed on behalf of London Borough of Haringey (LBH) and was granted planning permission in December 2021 under decision reference HGY/2021/2718. Planning condition 13d requires the submission of a AQDMP to include:

'The AQDMP will be in accordance with the Greater London Authority SPG Dust and Emissions Control (2014) and shall include:

- *i. Mitigation measures to manage and minimise demolition/construction dust emissions during works;*
- *ii. Details confirming the Plot has been registered at http://nrmm.london;*
- *iii. Evidence of Non-Road Mobile Machinery (NRMM) and plant registration shall be available on site in the event of Local Authority Inspection;*
- *iv. An inventory of NRMM currently on site (machinery should be regularly serviced, and service logs kept on site, which includes proof of emission limits for equipment for inspection);*
- *v. A Dust Risk Assessment for the works; and*
- *vi. Lorry Parking, in joint arrangement where appropriate'*

Milestone Infrastructure was awarded the contract to complete the works at Stanhope Road Bridge in December 2023. Milestone Infrastructure recognises that the construction industry is one of the leading sources of dust complaints made to Local Authorities and therefore, consideration for dust throughout the works is required. Additionally, all environmental documentation shall be approved by LBH prior to works commencing.

3.0 UK Air Quality and Dust Emissions

3.1 Guidance, legislation and policy

For the works being undertaken at Stanhope Road Bridge, the two main pollutants of concern considered within this assessment are particulate matter and dust.

The definition of dust given in the Institute of Air Quality Management (IAQM) "Guidance on the assessment of dust from demolition and construction" is as follows: "solid particles that are suspended in air, or have settled out onto a surface after having been suspended in air." Here, dust includes particles that give rise to soiling and effect human health and ecology. Construction activities can cause higher than normal dust deposition levels in the surrounding area. This can be caused by land preparation (e.g., demolition, land clearing, earth movement) or released from site plant and the movement of road vehicles.

Particulate matter suspended in the air can be abbreviated as PM. Airborne particulate matter with an aerodynamic diameter of less than 10 micrometres (μm) is referred to as PM_{10}.

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Elevated PM_{10} concentrations may arise as a result of dust generating activities on site. The primary sources of PM_{10} particles in the UK are combustion, quarrying and construction, and wind-blown dust. Exposure to particulate matter is associated with ill-effects to respiratory and cardiovascular systems among other health concerns. Exposure to finer particles (with a diameter of less than 2.5µm, also known as $PM_{2.5}$ particles) has a significant role in human all-cause mortality. These finer particles make up a significant proportion of PM_{10}. Without effective mitigation, major construction sites can cause an increase in annual mean PM_{10} concentrations and breaches of the short-term 24 objective for PM_{10}.

Legislation, Guidance and Policy

The following legislation, guidance and policy will be considered and adhered to during the preparation of the Air Screening Quality Assessment:

- European Union (EU) Directive 2008/50/EC;
- The NPPF, updated on 20th December 2023);
- The National Planning Practice Guidance (NPPG), relevant chapters produced on 1st November 2019;
- Section 82 of the Environment Act (Part IV), updated 9th November 2021;
- The Air Quality Strategy for England, Scotland, Wales and Northern Ireland, Department for Environment, Food and Rural Affairs (DEFRA), 20072
- The Air Quality Standards (Amendment) Regulations (2016);
- Local Air Quality Management Technical Guidance 2022 LAQM.TG (22), DEFRA, August 2023
- The Control of Dust and Emissions during Construction and Demolition SPG, July 2014
- Land-Use Planning and Development Control: Planning for Air Quality, Environmental Protection UK (EPUK) and IAQM, January 20174
- London Councils Air Quality and Planning Guidance, London Councils, 2007
- The London Plan 2021, Mayor of London, March 20215

UK legislation and Guidance:

The Air Quality Standards (Amendment) Regulations (2016) came into force on 31st December 2016. These Regulations amend the Air Quality Standards Regulations 2010 and transpose the EU Directive 2008/50/EC into UK law. Air Quality Limit Values (AQLVs) were published in these regulations for 7 pollutants, as well as Target Values for an additional 6 pollutants.

Part IV of the Environment Act (2021) requires UK government to produce a national Air Quality Strategy (AQS) which contains standards, objectives and measures for improving ambient air quality. The AQS Framework was produced by the Department for Environment, Food and Rural Affairs (DEFRA) and updated in August 2023.

The AQS sets out Air Quality Objectives (AQOs) that are maximum ambient pollutant concentrations that are not to be exceeded either without exception or with a permitted number of exceedances over a specified timescale. These are generally in line with the AQLVs, although the requirements for compliance vary slightly.

The relevant values in this context for the protection of human health are presented in Table 1 below:

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Table 1: Relevant values in this context for the protection of human health

Pollutant	Objective
NO_2	1 hour mean concentration should not exceed 200µg/m^3 more than 18 times per year. Annual mean concentration should not exceed 40µg/m^3.
PM_{10}	24 hour mean concentration should not exceed 50µg/m^3 more than 35 times per year. Annual mean concentration should not exceed 40µg/m^3.
$PM_{2.5}$	UK (except Scotland) annual mean should not exceed 25µg/m^3. Exposure reduction (urban areas): target of 15%

3.2 Local Planning Policy

3.2.1 The London Plan

The Mayor of London formerly adopted The Publication London Plan as the new London Plan in March 2021. The plan outlines the Spatial Development Plan for London and part of the statutory Development Plan for Greater London from 2019 to 2041. London Plan Policy SI1 Improving Air Quality is relevant to this development.

Table 2: Policy SI1 on improving air quality from The London Plan

Policy SI1		
A	Development Plans, through relevant strategic, site-specific and area-based policies, should seek opportunities to identify and deliver further improvements to air quality and should not reduce air quality benefits that result from the Mayor's or boroughs' activities to improve air quality.	
B	To tackle poor air quality, protect health and meet legal obligations the following criteria should be addressed:	1) Development proposals should not: a) lead to further deterioration of existing poor air quality b) create any new areas that exceed air quality limits or delay the date at which compliance will be achieved in areas that are currently in exceedance of legal limits c) create unacceptable risk of high levels of exposure to poor air quality.
		2) In order to meet the requirements in Part 1, as a minimum: a) development proposals must be at least Air Quality Neutral b) development proposals should use design solutions to prevent or minimise increased exposure to existing air pollution and make provision to address local problems of air quality in preference to post-design or retro-fitted mitigation measures c) major development proposals must be submitted with an Air Quality Assessment. Air quality assessments should show how the development will meet the requirements of B1 d) development proposals in Air Quality Focus Areas or that are likely to be used by large numbers of people particularly vulnerable to poor air quality, such as children or older people should demonstrate that design measures have been used to minimise exposure.
D	In order to reduce the impact on air quality during the construction and demolition phase development proposals must demonstrate how they plan to comply with the Non-Road Mobile Machinery Low Emission Zone and reduce emissions from the demolition and construction of buildings following best practice guidance	

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3.2.2 London Borough of Haringey Air Quality Action Plan (2019 - 2024)

This plan sets out Haringey's goals in working towards the improvement of London's Local Air Quality. The plan has seven topic areas:

Table 3: The seven topic areas set out within the London Borough of Haringey Air Quality Action Plan (2019 - 2024)

1	Monitoring and other core statutory duties:	Maintaining monitoring networks is critical for understanding where pollution is most acute, and what measures are effective to reduce pollution. There are also several other very important statutory duties undertaken by boroughs, which form the basis of action to improve pollution;
2	Emissions from developments and buildings	Emissions from buildings account for about 15% of the Nitrogen Oxides (NO_X) emissions across London so are important in affecting Nitrogen Dioxide (NO_2) concentrations;
3	Public health and awareness raising	Increasing awareness can drive behavioural change to lower emissions as well as to reduce exposure to air pollution
4	Delivery servicing and freight	Vehicles delivering goods and services are usually light and heavy-duty diesel-fuelled vehicles with high primary NO_2 emissions
5	Borough fleet actions	Our fleet includes light and heavy-duty diesel-fuelled vehicles such as minibuses and refuse collection vehicles with high primary NO_2 emissions. Tackling our own fleet means we will be leading by example
6	Localised solutions	These seek to improve the environment of neighbourhoods through a combination of measures
7	Cleaner transport	Road transport is the main source of air pollution in London. We need to incentivise a change to walking, cycling and ultra-low emission vehicles (such as electric).

3.3 Other relevant legislation:

- Health and Safety at Work Act 1974.
- 2002 Control of Substances Hazardous to health Regulations.

Legislation exists to protect the environment and human health, and the regulations are increasingly stringent, with greater penalties for polluters.

4.0 Responsibilities

4.1 General

1. Project Managers/ Site Agents/ Environment Advisors will ensure that this plan is followed at all times.
2. Estimators will make provision for dust management equipment prior to the project commencing. This will include using dust suppression options such as mobile bowser for haul routes and compound area, sheeting on vehicles when necessary, wheel washing facilities, and appropriate material and waste storage.

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3. Site Managers are responsible for the on-site implementation of this plan. This includes ensuring the required equipment is in place, all staff are trained, all required permits/ permissions are in place and that reporting requirements are met.

4.2 Site specific

The Environmental Advisor shall complete regular site inspections to ensure this plan is being adhered to. The site team shall also regularly review the live data provided by the dust monitor as discussed in Section 12.3.3.

For further information on site specific responsibilities see the Stanhope Road Bridge Construction Environmental Management Plan (CEMP).

5.0 Site Description

5.1 Description of Works

Stanhope Bridge makes up one of the ten footbridges along the Parkland Walk; a disused railway line between Finsbury Park and Highgate. The existing bridge structure has been deemed unfit for purpose and structural interventions are currently providing additional support to the bridge deck. Initial feasibility studies completed by the client; London Borough of Haringey, determined that it was not commercially viable to repair the existing structure and therefore this project is to construct a new bridge which shall be used for cyclists and pedestrians. The works shall include:

- Compound establishment (Channing School playing pitch)
- Diversion of pedestrians onto two temporary footways to allow for the Parkland Walk to always remain open
- Protection of all retained trees
- Vegetation clearance
- Management of all surface water by installing new drainage
- Demolition of bridge, including deck removal, and abutment removals down to proposed foundation
- The construction of the new bridge including reinforced earth slopes to link into the existing Parkland Walk
- Replacement of the existing access (steps) on the southeast section of the site with ramp access.
- Creation of a new permanent footway to the southwest of the bridge
- Landscaping across the site including the construction of the pond, dead hedging, and hedge and grassland creation.

5.2 Local conditions

5.2.1 Air Quality Background

The works are located within the Air Quality Management Area (AQMA) as declared by the London Borough of Haringey in 2001 due to exceedances in Nitrogen dioxide (NO_2) and Particulate Matter (PM_{10}). The London Borough of Haringey, Air Quality Action Plan 2019-2024 states that for PM_{10} within Haringey, 'air quality objectives are now largely being achieved, but there are still widespread exceedances of NO_2, particularly along busy and

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congested roads. Haringey also has a formal responsibility to work towards the national requirement for reductions of $PM_{2.5}$.'

In order to determine local air quality, the council produces annual monitoring reports which provides a detailed overview of air quality in London Borough of Haringey. The most recent report was published in May 2023 and contains information for the years up to 2022.

Taken directly from the London Borough of Haringey Annual Air Quality Status Report 2022, the figure below shows the locations of the monitoring stations for air quality within the Borough. The closest Diffusion Tube to the site measuring NO_2 is HR42. This is shown to the southwest of the map located outside of 15 Stanhope Road, N6 5NE (X 529254; Y 188051), approximately 275m northwest of the site. A second monitoring station, HR06, is located ~420m west of the site, however, as this monitoring station is on a main road that is often congested, it is less likely to accurately represent air quality levels within the works area. Therefore, HR42 monitoring station is believed to best represent the air quality level local to the Site.

PM_{10} and $PM_{2.5}$ are measured from one location within the county at location ID HG005 within Haringey Wood Green (14 High Rd Hornsey, London N22 6HH). This can be seen in the centre of the image below.

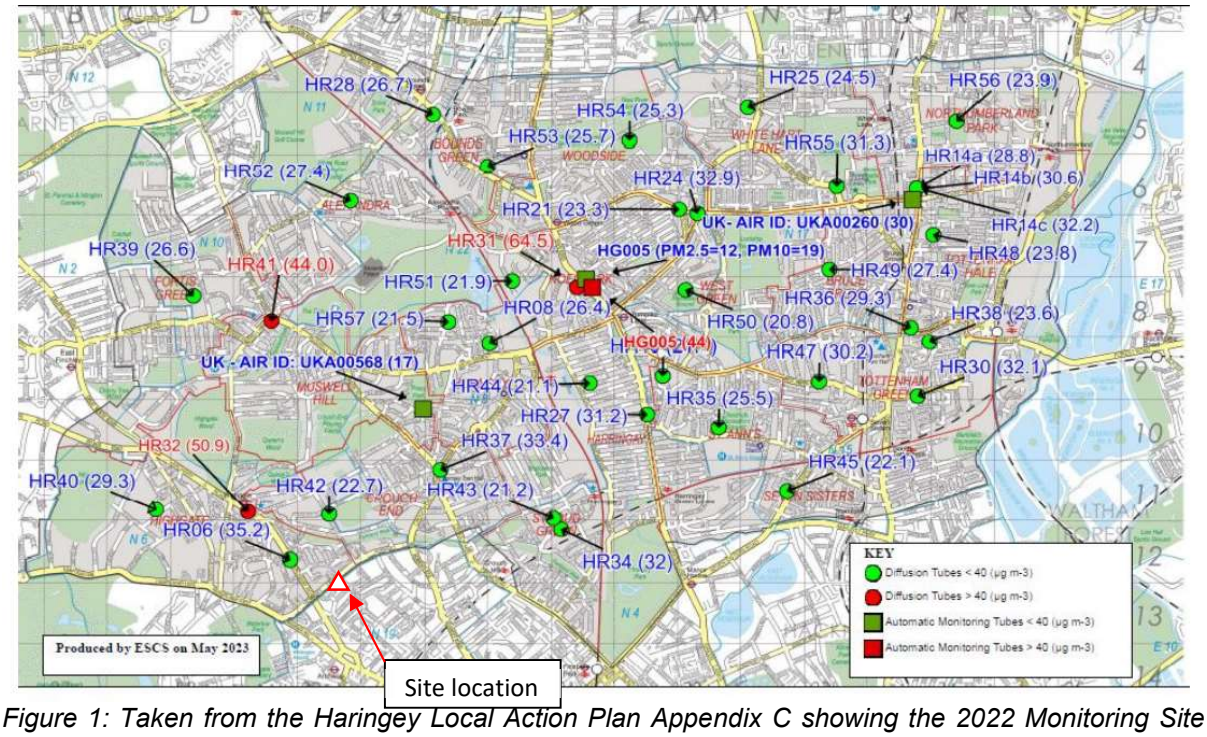


Figure 1: Taken from the Haringey Local Action Plan Appendix C showing the 2022 Monitoring Site Locations and Annual Mean NO_2, $PM_{2.5}$ and PM_{10} concentrations.

Taken from the Local Action Plan, the below table sets out the historical air quality values closest to the site from the manual recording station HR42 and HG005 as shown in Figure 1 above.

Table 4: Local Air Quality readings from local monitoring stations HR42 and HG005.

Air Quality	Reading Location ID	Environment	Data capture 2022 (%)	Distance to development (km)	2021	2022
NO_2 (annual mean, µg m^{-3})	HR42 – Stanhope Road	Urban traffic	91.7	0.27	21.0	22.7
PM_{10} (annual mean, µg m^{-3})	HG005 - Haringey Wood Green, (14 High Rd Hornsey, London N22 6HH)	Roadside	96.32	2.6	16	19
$PM_{2.5}$ (annual mean, µg m^{-3})	HG005 - Haringey Wood Green, (14 High Rd Hornsey, London N22 6HH)	Roadside	96.32	2.6	10	12

5.2.2 Prevailing meteorological conditions

Depending on the strength and direction of the predominant wind, wind plays a significant influence in the long-distance dispersion of polluting particles. The prevailing wind direction is predominantly from the South-West (SW) to North-East (NE) as shown within Figure 2 below. Therefore, in the event of any dust emissions from site, the receptors most likely to be impacted are those immediately north/north-east. This includes a number of residential houses which shall be partly shielded by the Parkland Walk trees (see Section 10 for further information).

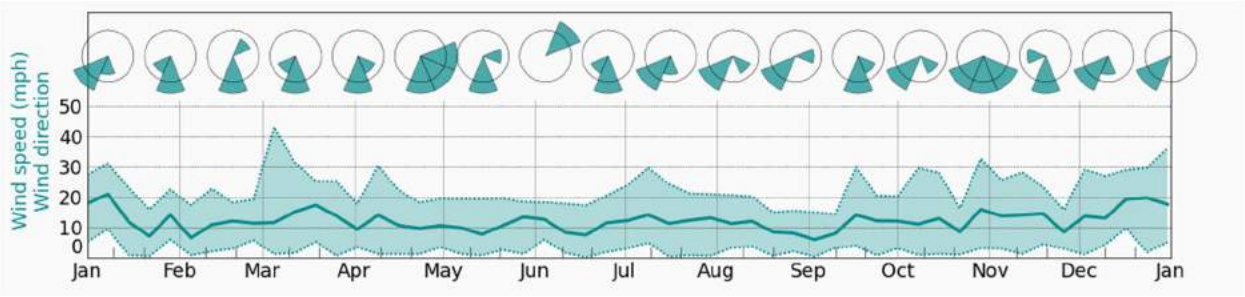


Figure 2: Wind rose based on Highgate readings from Meteoblue website showing average wind direction and speed in 2023.

The local rainfall is greatest between the months of October to January, however significant precipitation occurred between the months of March to May which will be when the initial works commence on site.

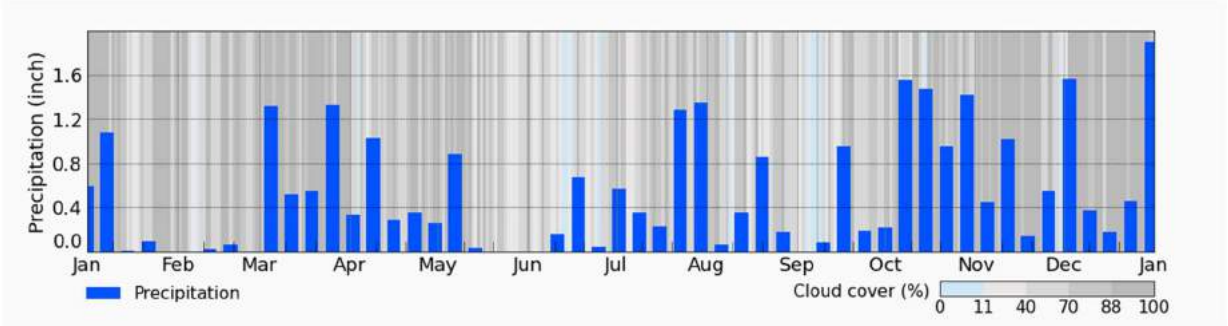


Figure 3: Precipitation based on Highgate readings from Meteoblue website showing average precipitation throughout 2023.

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5.2.3 Topography

As a disused railway line, the walk itself is relatively flat with the topography from the footbridge decreasing towards the two parcels of land to the east and west along Parkland Walk. The manmade embankments wither side of the bridge are relatively steep, with a fall of up to approximately 5 m towards the north and south. Extensive vegetation, mature trees and shrubs are present on the embankments of the Site.

The existing embankments may cause some urban canyoning along Stanhope Road, however this structure shall remain unimpacted by the works at Stanhope Road Bridge as this scope is to replace the existing structure. Therefore, there shall be no changes to long-term air flow throughout the local landscape as a result of these works.

5.3 Staff, Welfare and Operating Hours

The site will begin operating March 2024 and is due to be completed in November 2024. Works will be completed during the driest months of the year where dust is more easily produced. Hours of operation shall be Monday to Friday 0800-1800 and Saturday 0800-1300.

5.4 Site layout and access

Figure 4 below shows the haul route to and from the site (one-way, location of site equipment, wheel washing station, and location of water bowser.

A General Arrangement drawing can be found in Appendix A of the CEMP.

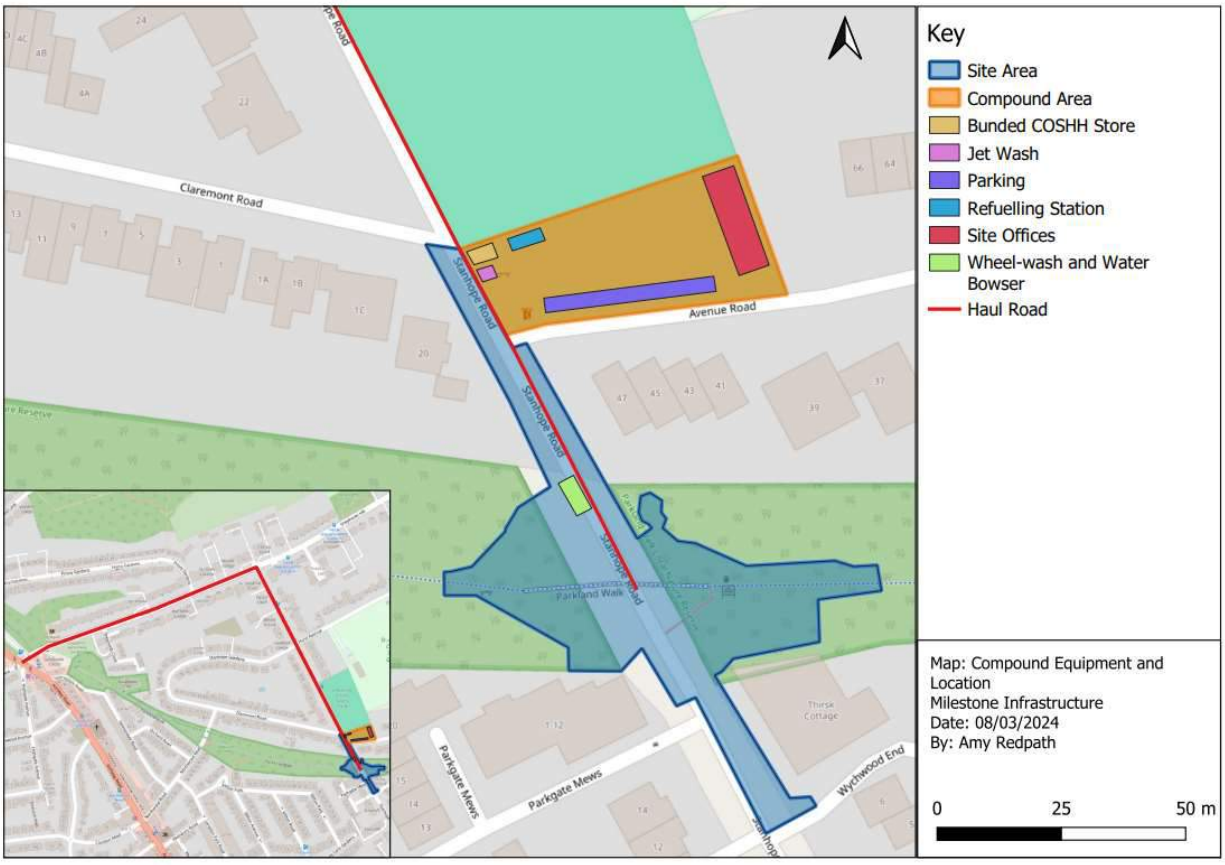


Figure 4: Haul route and site set up for Stanhope Road Bridge project

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5.5 Inventory and timetable

The table below sets out the estimated timings of works and the activities most likely to emit dust.

Table 5: Phasing of works at Stanhope Road Bridge including activities most likely to create dust.

Phase	Duration (weeks)	Brief work description	Dust emitting activities
Phase 1	6 weeks	• Site Establishment • Env. Monitoring Stations to be set out • Surveys completed (Dilap, Demolition, Utility, ecological walkover) • Traffic Management (TM)-Half-road closure • De-vegetation of temporary footways • Temporary walkways • Erect site fencing • Pedestrian crossing	No activities are expected to cause significant dust. Where vegetation has been stripped, open ground is to be covered.
Phase 2	6 weeks	• TM - Close road • Set up wheel-wash facility • Close footbridge • Protection deck & bridge removal • Demolish abutments • Topsoil strip & earthworks excavation • Install piles • Excavate pond area • Construct access ramps	Dust from demolition of abutments, topsoil strip and installation of piles. Use/tracking of a small amount of machinery/plant on site.
Phase 3	10 weeks	• TM - Half-road closure • Install piles & pile cap • Construct abutments • Drainage & backfill • Reinforced earthworks (NW, NE & SW)	Dust earthworks and construction. Use/tracking of a small amount of machinery/plant on site.
Phase 4	10 weeks	• Add bridge bearings • Kingpost wall to be constructed • Drainage • Permanent steps and ramp • Reinforced Earthworks (SE) • Remove temporary access • Landscaping	Dust earthworks and construction. Dust from landscaping and bareground exposure. Use/tracking of a small amount of machinery/plant on site.
Phase 5	2 weeks	• TM - Close road • Install new bridge • Reconstruct footways • Reconstruct raised table • Surfacing • Line-marking & finishes • Demobilise and open road	Dust from re-construction of bridge Use/tracking of a small amount of machinery/plant on site.

Below is an inventory of plant and machinery to be utilised during the works. Where applicable, these shall be registered for London's 'Low Emission Zone' for Non-Road Mobile Machinery (NRMM) (https://www.london.gov.uk/programmes-and-strategies/environment-and-climate-change/pollution-and-air-quality/nrmm):

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Table 6: Estimated inventory of plant that shall be used during construction and demolition of Stanhope Road Bridge Project.

Plant	Size	Number
Excavator	5T	1
	34T	1
	22T	1
	14T	1
Dumper	3T	1
	9T	1
	6T	1
Forklift	N/A	1
Roller	TBC	1
Crane	200-300T	1

6.0 Air Quality Dust Risk Assessment

6.1 Overview

This section sets out the risk assessment for each stage of works incorporating magnitude, sensitivity of local receptors and work activity. Both the site and compound area have been included within this assessment although no detailed modelling of emissions from onsite energy plant or road traffic emissions is required.

The works on Stanhope Bridge are temporary in nature through the replacement of an existing structure, therefore, no permanent air quality changes are expected once the project is complete.

6.2 Assessment of Risk Methodology

In order to reflect the different potential impacts, Mayor of London's 2014 Supplementary Planning Guidance, Control of Dust and Emissions during Construction and Demolition, suggest breaking site activities into four main categories. These include:

- Demolition;
- Earthworks;
- Construction; and
- Trackout.

A risk category shall be assigned to each of the four areas assuming no mitigation is applied, except where legislation requires it. The risk shall be described as 'negligible', 'low risk', 'medium risk' or 'high risk' depending on the nature and scale of the construction activities and the proximity of sensitive receptors to the construction site boundary.

Three separate areas shall be considered during the assessment:

- The risk of health effects from an increase in exposure to PM_{10} and $PM_{2.5}$,
- Annoyance due to the deposition of dust; and
- Harm to the natural environment.

The steps in which with assessment shall be completed will follow the below steps in line with the Mayor of London's 2014 Supplementary Planning Guidance:

- Step 1: Screen the need for a detailed assessment;

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- Step 2: Assess the risk of dust impacts;
- Step 2A: Define the potential dust emission magnitude;
- Step 2B: Define the Sensitivity of the area; and
- Step 2C: Define the risk of Impacts.

7.0 STEP 1: Screening the need for a detailed assessment

Initial mapping of both human and ecological receptors shows there to be a number of local receptors within close proximity to the site. Within 50m of the site the following receptors have been identified:

- Human
  - 35 residential properties
  - School playfield
  - Pedestrians and cyclists using the Parkland Walk
- Ecological
  - The Site falls entirely within Parkland Walk Local Nature Reserve (LNR), a nationally designated statutory site, and Parkland Walk, Queen's Wood and Highgate Wood Site of Importance for Nature Conservation (SINC).
  - Potential for bats within trees on site as identified within the Stanhope Road Bridge Preliminary Ecological Appraisal (70077287-WSP-GEN-B-RP-LE-0003 AUGUST 2021)

Beyond 50m there are a further 89 residential properties between 50-100m, three schools within 500m (one of which is within 200m), an outdoor sports facility and two assisted living or care homes within 500m (one is within 200m) of the site.

There are no further ecological receptors within 500m beyond the Parkland Walk LNR.

Human and Ecological receptors highlighted in Figures 5-7 below.

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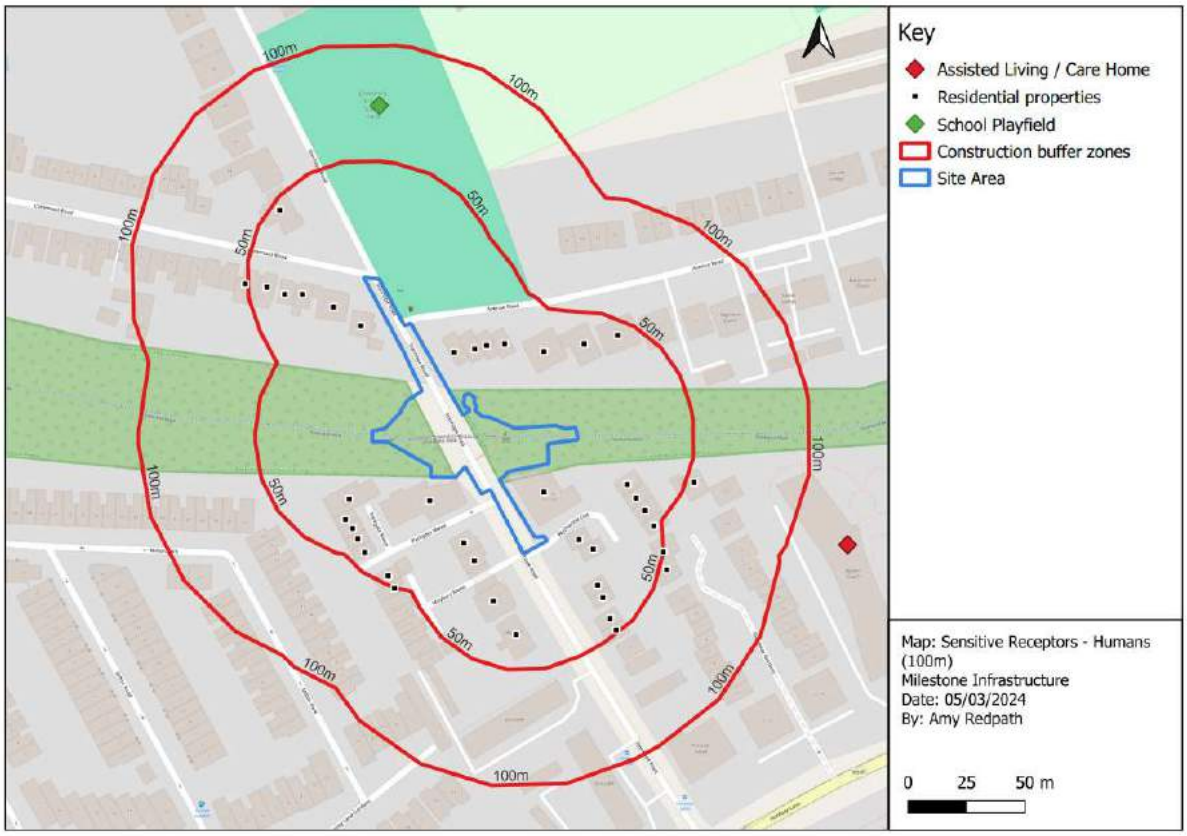


Figure 5: Sensitive human receptors within the 200m of the site.

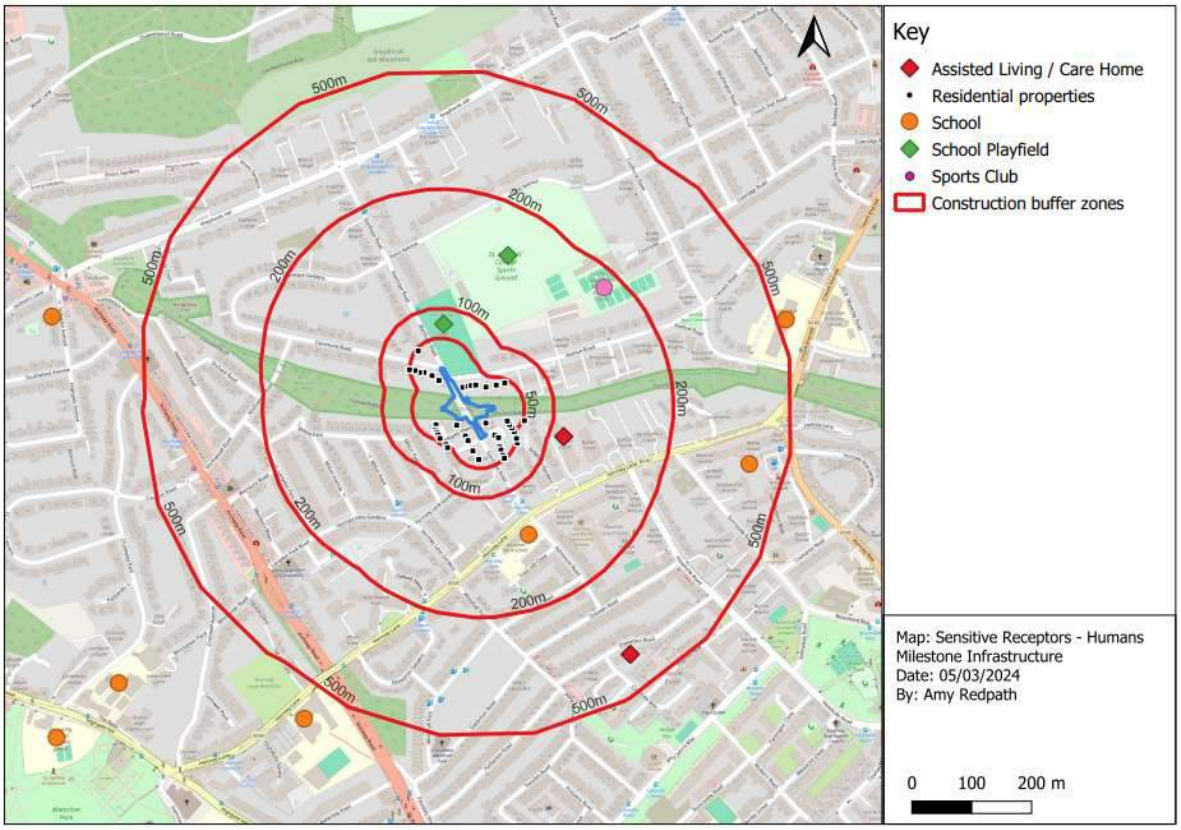


Figure 6: Sensitive human receptors within the local landscape.

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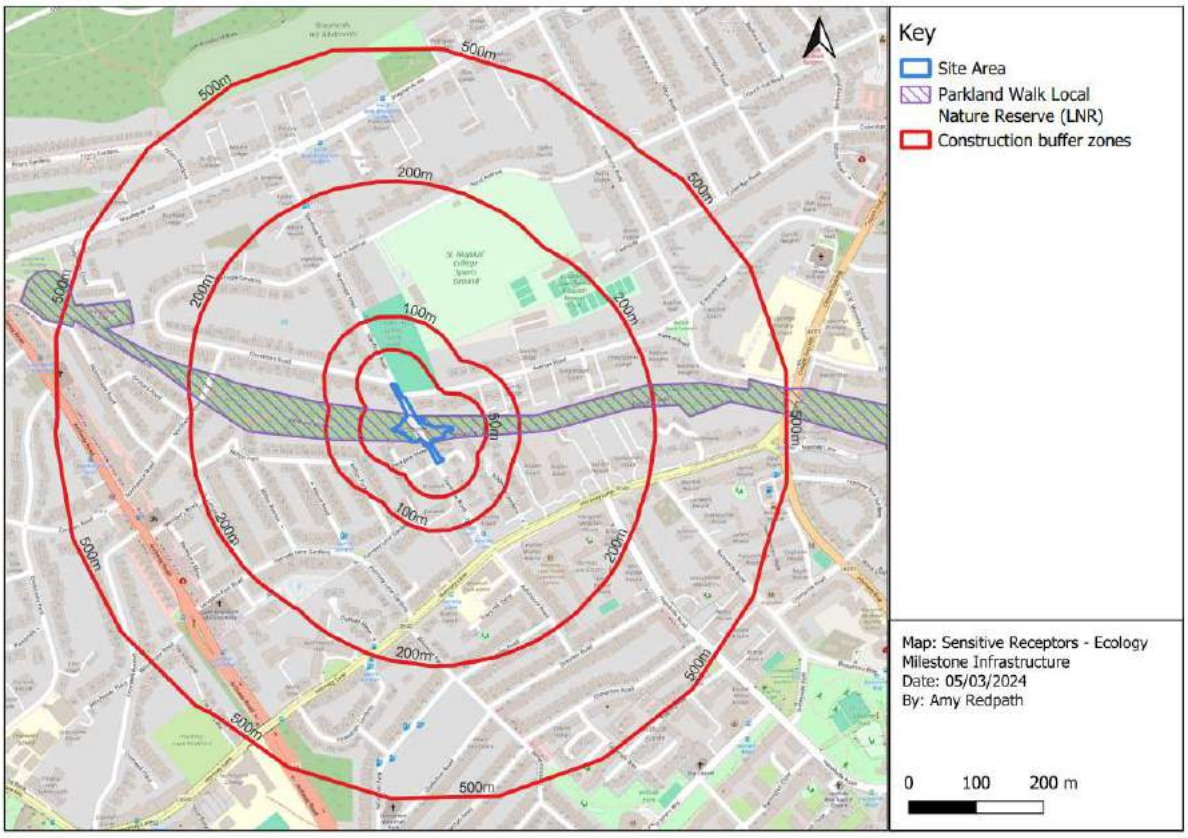


Figure 7: Sensitive ecology receptors within the local landscape.

Due to the presence of sensitive receptors within with 50m of the site, a detailed assessment is required.

8.0 STEP 2: Assess the Risk of Dust Impacts

The risk of dust arising in sufficient quantities to cause annoyance is determined using four risk categories: negligible, small, medium and high. A Site is allocated to a risk category based on two factors:

- The scale and nature which determines the dust emission magnitude (Step “A); and
- The sensitivity of the area to dust impacts (Step 2B).

Step C shall combine the risk levels of both Step 2A and Step 2B to determine the overall risk category for the four potential activities as outlined in section 6.2 (demolition, earthworks, construction, and trackout).

9.0 STEP 2A: Define the Potential Dust Emission Magnitude

The table below sets out the criteria for dust emission magnitude as described within The Control of Dust and Emissions during Construction and Demolition – Supplementary Planning Guidance (2014).

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Table 7: Criteria for dust emission magnitude. Text shown in bold are areas most relevant to Stanhope Road Bridge.

Source	Large	Medium	Small
Demolition	• Total volume of building to be demolished >50,000m^3, or **• Potentially dusty construction material (e.g., Concrete), or on-site crushing and screening, or** • Demolition activities >20m above ground level;	• Total volume of building to be demolished 20,000m^3 – 50,000m^3, or • Potentially dusty construction material, or • Demolition activities 10-20m above ground level	**• Total volume of building to be demolished <20,000m^3, or** • Construction material with low potential for dust release (e.g., Metal cladding or Timber), or **• Demolition activities <10m above ground demolition during wetter months.**
Earthworks	• Total site area >10,000m2 • Potentially dusty soil type (e.g., Clay, which will be prone to suspension when dry to due small particle size), or • >10 heavy earth moving vehicles active at any one time on site, or • Formation of stockpile enclosures • >8m in height; • Total material moved >100,000 tonne (where known).	• Total site area 2,500m2 – 10,000m2, • Moderately dusty soil type (e.g., Silt), or • 5-10 heavy earth moving vehicles active at any one time, or • Formation of stockpile enclosures 4m – 8m in height, or • Total material moved 20,000 tonnes – 100,000 tonnes (where known).	**• Total site area <2,500m^2, or** **• Soil type with large grain size (e.g., Sand), or** **• <5 heavy earth moving vehicles active at any one time, formation of stockpile Enclosures <4m in height, or** **• Total material moved <10,000 tonnes (where known), or earthworks during wetter months.**
Construction	• Total building volume >100,000m^3, or **• Piling, or** • On site concrete batching; or • Sandblasting	• Total building volume 25,000m^3 – 100,000m^3, or • Potentially dusty construction material (e.g., concrete), or • On-site concrete batching;	**• Total building volume <25,000m^3, or** • Construction material with low potential for dust release (e.g., metal cladding or timber
Trackout	• >50 HDV (>3.5t) outward movements in any one day, • Potentially dusty surface material (e.g., high clay/silt content), • Unpaved road length >100 m;	• 10-50 HDV (>3.5t) outward movements in any one day, 29 **• Moderately dusty surface material (e.g., high clay content),** • Unpaved road length 50 m – 100 m (high clay content);	**• <10 HDV (>3.5t) trips in any one day,** • Surface material with low potential for dust release, **• Unpaved road length <50m**

Based on the criteria outlined in the above table, the magnitude of dust emissions generated by the Site are detailed in the table below.

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Table 8: Dust emission magnitude from Stanhope Road Bridge works.

Source	Assessment	Potential Sust Emission estimate based on criteria
Demolition	Should the site utilise a crusher on site for the reuse of aggregate, this has the potential to emit dust which shall need to be mitigated for.	Large
Earthworks	The site area is <2500m^2 and involves minimal movement of earth or creation of waste. The soil type is largely course sand with frequent rootlets.	Small
Construction	The total build is <25,000m^3 however the use of concrete and piling during the rebuild stage has the potential to cause dust.	Large
Trackout	Most plant shall stay within work boundaries as most stockpiles will be kept within the works area to be reused. Only a small amount of waste shall be transported back to the compound and very little waste shall be disposed of offsite. The trackout shall be almost entirely on paved surface with limited open ground at risk of causing dust.	Medium

10.0 STEP 2B: Define the Sensitivity of the Area

The sensitivity of an area to both humans and local ecology takes account of a number of factors including:

- The specific sensitivities of receptors in the area (a);
- The proximity and number of those receptors (b);
- In the case of PM_{10}, the local background concentration (c); and
- Site-specific factors, such as whether there are natural shelters, such as trees or other vegetation, to reduce the risk of wind-blown dust (d).

Examples of Factors Defining Sensitivity of an Area are shown in Table 9 below from the *GLA SPG* **(a & b).**

Table 9: Examples of Factors Defining Sensitivity of an Area. Text shown in bold are options areas most relevant to Stanhope Road Bridge.

Receptor sensitivity	Sensitivity of People to Dust Soiling Effects	Sensitivities of People to the Health Effects of PM10	Sensitivities of Receptors to Ecological Effects
High	• Users can reasonably expect an enjoyment of a high level of amenity; or • The appearance, aesthetics or value of their property would be diminished by soiling and the people or property would reasonably be expected to be present continuously, or at least regularly for extended periods as part of the normal pattern of use of the land. • Indicative examples include dwellings, museums and other culturally important collections, medium and long term car parks and car showrooms.	• Locations where members of the public are exposed over a time period relevant to the air quality objective for PM10 (in the case of the 24-hour objectives, a relevant location would be one where individuals may be exposed for eight hours or more in a day). • Indicative examples include residential properties. Hospitals, schools and residential care homes should also be considered as having equal sensitivity to residential areas for the purposes of this assessment.	• Locations with an international or national designation and the designated features may be affected by dust soiling; or • Locations where there is a community of a particularly dust sensitive species such as vascular species included in the Red Data List for Great Britain. • Indicative examples include a Special Area of Conservation (SAC) designated for acid heathlands or a local site designated for lichens adjacent to the demolition of a large site

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			containing concrete (alkali) buildings.
Medium	• Users would expect to enjoy a reasonable level of amenity but would not reasonably expect to enjoy the same level of amenity as in their home; or • The appearance, aesthetic or value of their property could be diminished by soiling; or • The people or property would not reasonably be expected to be present here continuously or regularly for extended periods as part of the normal pattern of use of the land; • Indicative examples include parks and places of work	• Locations where the people exposed are workers, and exposure is over a time period relevant to the air quality objective for PM10 (in the case of the 24- hour objectives, a relevant location would be one where individuals may be exposed for eight hours or more in a day). • Indicative examples include office and shop workers but will generally not include workers occupationally exposed to PM10, as protection is covered by Health and Safety at Work legislation.	• Locations where there is a particularly important plant species, where its dust sensitivity is uncertain or unknown; or • Locations with a national designation where the features may be affected by dust deposition. • Indicative example is a Site of Special Scientific Interest (SSSI) with dust sensitive features.
Low	**• The enjoyment of amenity would not reasonably be expected; or** **• Property would not reasonably be expected to be diminished in appearance, aesthetics or value by soiling; or** **• There is transient exposure, where the people or property would reasonably be expected to be present only for limited periods of time as part of the normal pattern of use of the land.** **• Indicative examples include playing fields, farmland (unless commercially sensitive horticultural), footpaths, short-term car parks and roads.**	**• Locations where human exposure is transient.** **• Indicative examples include public footpaths, playing fields, parks and shopping streets**	**• Locations with a local designation where the features may be affected by dust deposition.** **• Indicative example is a local Nature Reserve with dust sensitive features**

As described within Section 7, the type of receptors for this project are largely residential properties, a school playfield, pedestrians and cyclists and ecological receptors such as bats due along the Parkland Walk.

Local background PM_{10} concentrations (c)

As stated within Section 5.2.1, the local levels for PM_{10} and $PM_{2.5}$ in 2022 are 19 µg/m^3 and 12µg m-3 accordingly. These levels fall under UK Air Quality Objective of 40 µg/m^3 for PM_{10} and under 25/m^3 for $PM_{2.5}$ at the Haringey location therefore, the annual objective was achieved in 2022.

The largest risk to local receptors from this project is expected to be from dust and not PM_{10} and $PM_{2.5}$. In 2022, approximately 18 per cent of total $PM_{2.5}$ emissions and 16 per cent of total PM_{10} emissions was contributed to road transport in the UK. Road transport emissions are

made up of both exhaust emissions and non-exhaust emissions (brake, tyre and road wear). Due to the low number of fuel burning vehicles, plant and generators on site and through the use of HVO fuel instead of diesel where possible, the projects output for PM_{10} is considered negligible, however, this shall be further reviewed in the Site Sensitivity Analysis below.

Site-specific factors, such as whether there are natural shelters, such as trees or other vegetation, to reduce the risk of wind-blown dust (d)

The majority of works shall be completed during summer where Parkland Walks tree lined footway shall provide a natural barrier to reduce wind-blow dust to both the west and east of the site. The vegetation is largely made up of mature broadleaved trees that with a dense canopy during the warmer months which will provide some protection to residents within close proximity, particularly to the north-east where the prevailing wind is from the southwest. Figure 8 depicts a visual representation of the natural barriers provided by the line of trees in both the compound and site.

Where wind prevails from the north or south, scattered urban trees lining Stanhope Road Bridge provide some additional protection to local residents along the open corridor formed by the road.

The compound area will be reasonably protected from southerly winds by the line of trees to the south, west and east of the compound.



Figure 8 - Annotated aerial image (Google Maps) of the woody vegetated areas providing natural shelters, to reduce the risk of wind-blown dust

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Site sensitivity analysis

Based on the site information and the Mayor's guidance criteria, the area sensitivity to dust soil effects on people and property is **Medium**, as seen in the table below.

Table 10: Sensitivity of the area to dust soil effects on people and property taken from Table 4.2 of The Control of Dust and Emissions During Construction and Demolition Supplementary Planning Guidance. Bold text highlights the relevant sensitivities for Stanhope Road Bridge.

Receptor Sensitivity	Number of Receptors	Distance from the source (m)			
		<20	<50	<100	<350
High	>100	High	High	Medium	**Low**
	10-100	High	**Medium**	**Low**	Low
	1-10	**Medium**	Low	Low	Low
Medium	>1	Medium	Low	Low	Low
Low	>1	Low	Low	Low	Low

Based on the site information and the Mayor's guidance criteria, the area sensitivity of the area to human health impacts is **Low**, as seen in the table below.

Table 11: Sensitivity of the area to human health impacts taken from Table 4.3 of The Control of Dust and Emissions During Construction and Demolition Supplementary Planning Guidance. Bold text highlights the relevant sensitivities for Stanhope Road Bridge.

Receptor Sensitivity	Annual Mean PM_{10} concentration	Number of Receptors	Distance from the source (m)				
			<20	<50	<100	<200	<350
High	>32µg/m^3	>100	High	High	High	Medium	Low
		10-100	High	High	Medium	Low	Low
		1-10	High	Medium	Low	Low	Low
	28-23µg/m^3	>100	High	Low	Medium	Low	Low
		10-100	High	Medium	Low	Low	Low
		1-10	High	Medium	Low	Low	Low
	24-28µg/m^3	>100	High	Medium	Low	Low	Low
		10-100	High	Medium	Low	Low	Low
		1-10	Medium	Low	Low	Low	Low
	<24µg/m^3	>100	Medium	Low	Low	**Low**	**Low**
		10-100	Low	**Low**	**Low**	Low	Low
		1-10	**Low**	Low	Low	Low	Low
Medium		>10	High	Medium	Low	Low	Low
		1-10	Low	Low	Low	Low	Low
Low		1-10	Low	Low	Low	Low	Low

Based on the site information and the Mayor's guidance criteria, the area sensitivity to ecology is **Low**, as seen in the table below.

Table 12: Sensitivity of the area to ecological impacts taken from Table 4.4 of The Control of Dust and Emissions During Construction and Demolition Supplementary Planning Guidance. Bold text highlights the relevant sensitivities for Stanhope Road Bridge.

Receptor Sensitivity	Distance from the source (m)	
	<20	<50
High	High	Medium
Medium	Medium	Low
Low	**Low**	**Low**

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The overall sensitivity of the area to effects caused by construction activities based on the criteria presented above is summarised in the table below.

Table 13: Stanhope Road Bridge areas of sensitivity

Activity	Dust soiling		Human effects of PM_{10}		Ecological impact	
	Sensitivity	Comment	Sensitivity	Comment	Sensitivity	Comment
Demolition	Medium	0-10 high sensitivity receptors (residential dwellings) less than 20m from the proposed site boundary 10-100 high sensitivity receptors less than 50m from the proposed site Boundary including a school playfield.	Low	Background annual mean PM_{10} concentration on site is less than 24µg/m^3(a). There are 0-10 high sensitivity receptors (residential dwellings) less than 20m from the proposed site boundary	Low	The site is located within a Local Nature Reserve (within 20m from site) with dust sensitive features.
Earthworks	Medium		Low		Low	
Construction	Medium		Low		Low	
Trackout	Medium		Low		Low	

11.0 STEP 2C: Define the Risk of Impacts

Based on the site information and following the GLA SPG document, the overall risk of receptors to dust soiling effects, PM_{10} effects, and ecological impacts are presented in the table below.

Due to the potential use of a crusher for the reuse of materials and a small amount of piling, there is a high risk of dust during both the demolition and construction phases. These areas shall be mitigated as part of the control measures set out in Section 12.0. All other areas of work are expected to have low or negligible risk for dust, PM_{10} and ecological impacts.

Table 14: Summary dust risk table to define site-specific using Tables 4.6-4.9 of The Control of Dust and Emissions During Construction and Demolition Supplementary Planning Guidance.

Activity	Dust soiling	Human effects of PM_{10}	Ecological impact
Demolition	High	Low	Low
Earthworks	Low	Negligible	Negligible
Construction	High	Low	Low
Trackout	Low	Low	Low

12.0 Dust and Emission Control Measures

12.1 General Provisions

Industry best practices shall be implemented at all times to minimise dust emissions. The following general procedures should take place:

- The AQDMP shall be accessible and effectively communicated to all stakeholders on site.
- All relevant stakeholders will undergo appropriate training in line with dust mitigation methods outlines within this document.
- Good housekeeping procedures will be implemented and effectively managed to ensure limitation of dust and air pollution.
- Controls to mitigate dust and air pollution outlined in this document will be adhered to during the entire projects lifespan.

12.2 Site management

12.2.1 Stakeholder Engagement

- A stakeholder meeting organised by LBH prior to construction shall provide an opportunity to communicate the potential risk of dust and mitigations to all relevant parties.
- Signage shall be displayed on public noticeboards describing the progress on site and explaining the reason for any activity that has the potential to cause nuisance for locals including dust. This shall be regularly updated and will include a contact number for the community liaison officer.
- A complaints system shall be available to all members of the public with the number available on the sites boundaries. All complaints shall be responded to and recorded in a central log. These will be made available to the local authority where requested.
- Through the use of signage described above and direct contact with groups such as Friends of the Parkland Walk and Channing School, we aim to mitigate any potential complaints by addressing concerns early on.
- No other local works are expected within the local facility within the same timeframe which could otherwise increase the risk of cumulative effects.

12.2.2 Site Inspections

- The Site Management Team and Environmental Advisor will undertake regular inspections to assess and inspect environmental compliance.
- All inspections will be completed, and findings recorded using the Health Safety Environment Inspection template on Procore.
- Any non-conformances will be shared with the site team and client if requested.
- The Environmental Advisor will complete joint inspections with the client where requested.
- The frequency of site inspections will be increased when activities with a high potential to produce dust and emissions are being carried out, and during prolonged dry or windy conditions.

12.3 Preparing and maintaining the site

12.3.1 Site Layout

- A site layout plan will be developed indicating the locations of the main dust causing activities with regards to the most sensitive receptors identified in Figures 5-7. The plan will be accessible to all contractors.

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- The works will be planned so where practicable, works causing the largest amount of dust pollution will be completed away from sensitive receptors.
- The main contractors will also use appropriate methods, such as the erection of barriers along the site boundary, where appropriate, to mitigate the spread of dust to local residents and ecological receptors.
- The compound layout will be designed to mitigate dust as much as possible. This will largely be preventing waste from escaping (see Section 12.7) and keeping the topsoil bund covered or self-seeded to ensure it does not increase the risk of dust to nearby receptors.

12.3.2 Site Maintenance

- Mud tracked onto the highway will be avoided as reasonably practicable it can lead to dust when dry and can also pollute local waterways and sewers.
- All fencing, barriers and scaffolding should be regularly cleaned using wet methods, where possible to prevent re-suspension of particulate matter.

12.3.3 Monitoring

Environmental Monitoring Stations to continuously monitor dust (PM_{10}), noise and vibration, and will be located in two locations within close vicinity to sensitive receptors as shown in Figure 9 below. Dust levels approaching the trigger levels will alert the site team via automatically generated emails.

The monitoring stations will be set out at least one week prior to works beginning establish a base level of dust within the work environment.



Figure 9: Approximate locations of the environmental stations which monitor noise, dust and vibration on Stanhope Road Bridge.

To supplement the particulate monitoring, the Project Manager will ensure that regular visual inspections are made across the site and its perimeter on a daily basis in order to identify any increases in dust.

The Project Manager is responsible for onsite monitoring and recording. However this can also be completed by trained personnel. The inspections will focus on:

- Monitoring for conditions likely to increase the risk of dust release.
- Visual assessment of any dust release.
- Monitoring of any visible surface soiling.

The results of these inspections shall be recorded in the site diary. This will include both the prevailing conditions at the time of the observation (weather and nature of activity), and location of any visual increases in dust.

If visual dust monitoring around the perimeter of the site indicates a problem or the dust monitors are triggered, the contractor will respond as follows:

1. STOP work and contact Site Agent/Project Manager immediately.
2. Damp down working area before recommencing work.
3. Review working methods to ensure best practicable means are being used.
4. Review weather forecasts to confirm whether additional control measures are required.
5. Record on Optimus reporting system. All incidents are investigated, and appropriate corrective action taken.

Should dust be released to the surrounding environment as a result of a particular activity, control measures would then be reviewed, and corrective measures applied until the dust levels return to normal. The activity will be reviewed in order to prevent re-occurrence.

12.3.4 Dealing with spillages

- All site staff will receive a toolbox talk on the spill response and incident reporting procedure prior to commencing work onsite.
- Any fuels, oils or hazardous materials will be appropriately stored and kept in bunded areas to prevent pollution of surface and ground waters.
- Spill kits will be provided on site for the duration of the works and construction staff trained in their correct application.
- Static plant equipment such as compressors, generators, and tower lights will be equipped with drip trays.
- Management of spillages are set out within the Stanhope Environmental Emergency Response Plan (Appendix F of the CEMP).

12.4 Reducing Emissions from vehicles

- The site is located within the Low Emission Zone (LEZ), Ultra Low Emission Zone (ULEZ) and Direct Vision Standard (DVS) scheme area. All mobile vehicles associated with the demolition / construction will comply with the standards of the London Low Emission Zone. For HGVs, the standard is Euro IV for PM and for heavier vans it is Euro 3.
- All non-road mobile machinery (NRMM) will comply with the standards set within the GLA SPG. Confirmation of the sites registration is provided in Appendix C.

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- The Construction Logistic Plan (CLP) details the transport to and from site including delivery schedules, timings and locations for unloading. The Plan aims to minimise queuing traffic.
- A Travel Plan will be created which supports sustainable travel to site during construction which will include walking, cycling and public transport.
- To limit emissions from plant and vehicles on site, the following measures will be implemented:
    - All vehicles and plant will be switched off when not in use
    - To limit emissions from construction equipment such as generators where reasonably practicable the use of diesel or petrol powered generators will be reduced by using mains electricity or battery powered equipment.
    - Construction plant and vehicle exhausts should be directed away from the ground and be positioned at a height to facilitate appropriate dispersal of exhaust emissions.
    - Where suited to the vehicle, all non-road mobile machinery will use HVO fuel where possible.
    - Latest machinery models with suitable aftertreatment systems will be used where appropriate.

12.5 Reducing dust from plant, vehicles, and machinery

- Plant will be operated and maintained in accordance with the manufacturer's written recommendations.
- Vehicle, plant, and equipment maintenance records will be kept on site, and made available when requested.
- The speed limit on site will be set to 10mph. During the drier summer month speed limits may be further reduced to minimise dust accumulation.
- Where reasonable to enable operations to be effectively completed, the movement of plant and on-site vehicles shall be kept to a minimum.
- Construction plant will operate away from sensitive receptors where possible.
- On-site plant will be chosen carefully to avoid plant that are likely to generate excessive quantities of dust. Should this be unavoidable enclosing, shielding or provision of filters will be employed.

12.6 Operations

12.6.1 Mobile crushing plant

Providing the material is suitable to use, the existing bricks and aggregate on site shall be crushed and used as backfill behind the abutment wall. This has yet to be agreed by the Local Authority and a permit would be required and kept on site. Should this occur at Stanhope Road Bridge, work shall be in line with the Process Guidance note PG 3/16 (04)12 at all times and further management details added to this section outlining mitigation to prevent nuisance to local receptors.

12.7 Transportation, storage and handling of materials and wastes

To limit dust pollution through the storage and transportation of material and waste, the following measures will be taken as appropriate:

- Where waste has been produced, this will be removed from site as soon as possible.

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- No burning of any material is permitted on-site.
- Vehicles transporting materials within or outside the construction site will not be overloaded.
- Where possible, storage of stockpiles and bunds are to be kept away from sensitive receptors including site boundaries, watercourses and drainage and should take into account the predominant wind direction
- Stockpiles, mounds and bunds will be kept at a suitable angle and shape to avoid material slippage.
- Surfaces of long-term stockpiles, that present a risk of dust or air pollution, will be stabilised or be covered with appropriate sheeting or kept watered down
- Fine dry material will be stored inside buildings or enclosures.
- Mixing of large quantities of concrete or other powered materials and slurries are to be completed within a sheltered area away and from sensitive receptors where possible.
- Mixing powered materials such as concrete will be completed using a process suitable for the prevention of dust emissions.
- Waste skips must sufficiently hold all waste and should remain level with the top of the skip. No waste should overflow the skip.
- Materials will not be accepted, nor should any further exaction be completed under the following circumstances:
    - If there is insufficient storage capacity within the waste storage area.
    - If there are extreme weather conditions, such as site flooding,
    - Abnormal site conditions preventing normal working
- During prolonged dry or excessively windy condition the disposal frequency from site to third party may be increased
- Site perimeter fencing/sheeting will be erected if necessary, behind and/or around the perimeter of stockpiles to capture any airborne debris, dust and particulates prior to it being dispersed off-site.

A Site Waste Management Plan has been created for Stanhope Road Bridge as found within Appendix H of the CEMP.

12.8 Measures specific to demolition

The demolition phase of works is to the existing bridge structure. Appropriate measures such as the use of tools with fitted dust suppression and/or vacuums will be used by main contractors for any processing, crushing, cutting and grinding activities as required to limit dust pollution.

Dust suppression by spraying with water or using other appropriate measures will be used where required.

12.9 Measures specific to earthworks

To limit dust pollution through excavations and earthworks activities, the following measures will be taken as appropriate:

- To avoid risk of run-off or dust generation topsoil will be stripped as close as reasonably practicable to the period of excavation or other earthworks activities.
- To control dust generation associated with the fall of materials drop heights from excavators to vehicles will be kept to the minimum practicable;

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- Dust suppression by spraying with water or using other appropriate measures to be used.
- Reseeding, planting or sealing of completed earthworks will be undertaken as soon as reasonably practicable following completion of the earthworks.

12.10 Measures specific to construction

Cement, sand, fine aggregates and other fine powders will be sealed after use and if necessary, stored in enclosed or bunded containers.

12.11 Measures specific to trackout

12.11.1 Haul routes

Haul routes have been developed in which movement to and from site will be completed to access the works area (Figure 4). These have been developed in line with the following measures:

- The haul route has been designed to avoid main sensitive receptors and control dust emissions as far as reasonably practicable.
- Regular inspection of haul routes will be carried out and will be cleaned as suitable to prevent trackout and suppress dust emissions.
- When required, a sweeper shall be used to ensure the public road remains dust free.

12.11.2 Wheel washing

The wheel-washing facility will be used on site within the carriageway to minimise dust and air pollution. The water from this will be captured and transported off site for disposal to a correctly licenced facility. It will not enter the drainage on site.

12.11.3 Covering vehicles

Material deliveries entering and leaving the construction site will be covered by a fixed cover or appropriate sheeting suitable for the purposes of preventing materials and dust spillage.

12.11.4 Dust suppression

As discussed within Sections 12.8 and 12.9 dust suppression will be utilised where required during all stages of work. The quantity of water required for dust suppression will be monitored by the Project Manager to track the usage required.

12.12 Extreme weather conditions

In extreme weather conditions i.e., extended periods of dry weather, modification and/or stopping of operations will be implemented. The site will be shut down if conditions prevent normal working methods leading to an unacceptable risk, such as an increased risk of pollution from dust emission. Conditions include critical failure of the dust management measures, extreme weather conditions, or emergency situations. The Project manager will be responsible instructing site shutdown in these circumstances.

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Appendix A – Definitions

Document Reference	Definition
Pollution	Pollution is the uncontrolled introduction of substances into the water of that are damaging to the environment.
Annoyance (dust)	Loss of amenity due to dust deposition or visible dust plumes, often related to people making complaints, but not necessarily sufficient to be a legal nuisance.
AQMA	Air Quality Management Area, declared by a local authority where its review and assessment of air quality shows that an air quality objective is likely to be exceeded.
Construction	Any activity involved with the provision of a new structure (or structures), its modification or re-furnishment. A structure will include a residential dwelling, office building, retail outlet, road, etc.
Deposited Dust	Dust that is no longer in the air and which has settled onto a surface. Deposited dust is also sometimes called amenity dust or nuisance dust, with the term nuisance applied in the general sense rather than the specific legal definition.
AQDMP	Air Quality Dust Management Plan; a document that describes the site-specific methods to be used to control dust and air quality emissions.
Dust	Solid particles that are suspended in air or have settled out onto a surface after having been suspended in air. The terms dust and particulate matter (PM) are often used interchangeably, although in some contexts one term tends to be used in preference to the other.
Earthworks	Covers the processes of soil-stripping, ground-levelling, excavation and landscaping.
Effects	The consequences of the changes in airborne concentrations and/or dust deposition for a receptor. These might manifest as annoyance due to soiling, increased morbidity or mortality due to exposure to PM_{10} or $PM_{2.5}$ or plant dieback due to reduced photosynthesis. The term 'significant effect' has a specific meaning in EIA regulations. The opposite is an insignificant effect. In the context of construction impacts any effect will usually be adverse, however, professional judgement is required to determine whether this adverse effect is significant based on the evidence presented. There is further discussion of this in Section 10 of this document.
Impacts	The changes in airborne concentrations and/or dust deposition. A scheme can have an 'impact' on airborne dust without having any 'effects', for instance if there are no receptors to experience the impact.
Nuisance	The term nuisance dust is often used in a general sense when describing amenity dust. However, this term also has specific meanings in environmental law: (a) Statutory nuisance, as defined in S79(l) of the Environmental Protection Act 1990 (as amended from time to time). (b) Private nuisance, arising from substantial interference with a person's enjoyment and use of his land. (c) Public nuisance, arising from an act or omission that obstructs, damages or inconveniences the rights of the community.

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	Each of these applying in so far as the nuisance relates to the unacceptable effects of emissions. It is recognised that a significant loss of amenity may occur at lower levels of emission than would constitute a statutory nuisance. Note: as nuisance has a specific meaning in environmental law, and to avoid confusion, it is recommended that the term is not used in a more general sense
PM	Abbreviation for particulate matter suspended in the air. PM_{10} is airborne particulate matter with an aerodynamic diameter less than 10 microns (um); PM is less than 2.5gm.
Receptor	A location that may be affected by dust emissions during demolition and construction. Human receptors include locations where people spend time and where property may be impacted by dust. Ecological receptors are habitats that might be sensitive to dust.
Risk	The likelihood of an adverse event occurring.
Trackout	The transport of dust and dirt from the construction/demolition site onto the public road network, where it may be deposited and then re-suspended by vehicles using the network. This arises when heavy duty vehicles (HDVs) leave the construction/demolition site with dusty materials, which may then spill onto the road, and/or when HDVs transfer dust and dirt onto the road having travelled over muddy ground on site.

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Appendix B – Example Emission Monitoring Form

Investigation Details	
Location of monitoring	
Date & time investigation carried out	
Weather conditions	
Wind direction and speed	
Visual assessment of dust (i.e., negligible, minor not extending beyond boundary, serious dust extending beyond boundary)	
Investigation findings	
Review and Improve	
Improvements needed to prevent a reoccurrence	
Proposed date for completion of the improvements	
Actual date for completion	
If different insert reason for delay -	
Does the dust management plan need to be updated?	
Date that the dust management plan was updated?	
Closure	
Agent review date	
Agent signature to confirm no further action required	

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Appendix C – NNRM Registration

Redpath, Amy

From: nrmm@london.gov.uk
Sent: 12 March 2024 13:20
To: Carley, Ryan
Subject: NRMM - Registration of site - Stanhope Road

Dear Ryan

Thank you for registering Stanhope Road. The site is within Greater London

The current emissions requirement on your site is:

All machinery on your site must meet EU Emission Stage IIIB. Because EU Emissions Stages IIIB and IV have not been defined for constant speed engines, this means that all constant speed machinery will effectively be required to meet EU Emission Stage V.

The emissions standards apply to all machinery with an engine power between 37 kW and 560 kW. Please add all in-scope NRMM to the site record as it arrives on your site. You can also use the site to record equipment that does not fall within these power bands. This will assist the enforcement officers to identify machines that they do not need to inspect in detail when they visit the site.

As the site administrator you are expected to ensure that all machinery used over the course of the development is correctly logged, including any retro-fits or other machinery that requires an exemption to operate. You are also expected to ensure that non-compliant machinery, or machinery that has been refused an exemption, is removed promptly. Failure to comply with the NRMM Low Emission Zone can result in formal enforcement action against the site.

Please login to:

Add machinery

Invite machinery administrators to your site

Invite sub-contractors to your site Invite a new site administrator to your site (You should only normally do this if you are handing the site over to a new manager, or to a new company who are taking over a later stage of the development. Please note that if you invite a new site administrator to the site, they will be able to view all existing and previous machinery records for the site.

Machinery administrators can add machinery to the site and view/edit all machinery at that site but will not be able to edit the site details or manage other site users.

Sub-contractors can add machinery to the site and view/edit their own machinery at that site but will not be able to view/edit machinery added by other site users, edit the site details or manage other site users.

Kind Regards

The NRMM Team

1

Stanhope Road Bridge Replacement

Site Waste Management Plan

Document Reference: **MIL_FOR_ENV_014 Site Waste Management Plan– 3411042 - REV1**

Project Name	Stanhope Road Bridge Replacement		
Contract No.	3411042/70085596		
Project Address	Stanhope Road / Avenue Road, Highgate, London, N6 5DF		
Project Start Date	February 2024		
Project Duration	11 Months		
Prepared By	Mohamad Soboh Section Engineer	Sign: Mohamad Soboh	Date: 22/02/2024
Reviewed By	Amy Redpath Senior Environmental Advisor	Sign:	Date: 29/02/2024
Approved By (Document holder)	Hassan Soboh Senior Project Manager	Sign: H.Soboh	Date: 01/03/2024

Revision	Summary of changes made	Revision by	Approved by	Revision date
01	First Review	MS	AR	22/02/2024

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1 Introduction

This Site Waste Management Plan (SWMP) has been produced to ensure waste arisings are managed in accordance with legal compliance and best practice.

This Plan provides detail on how waste will be managed during the construction phase. Effective management arrangements will support:

- Legal compliance
- Best practice
- Milestone Infrastructure targets as detailed in Section Six

This plan details the scope of the work activities, the waste types and quantities associated with the proposed activities and the way in which these wastes will be managed.

The Waste Hierarchy (the Hierarchy) is the key underlying principle that must underpin all waste management activities during the Project. The waste hierarchy can be seen in Figure 1 - The Waste Hierarchy.

Application of the Hierarchy must begin at pre-construction phase as to design the project such that materials required, and waste produced are reduced as much as practicable.



Figure 1 - The Waste Hierarchy (European Commission, 2023)

The Hierarchy ranks waste management options from in order of environmental sustainability (DEFRA, 2023); prevention being the most sustainable, and disposal the least.

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2 Requirements of this SWMP

This SWMP has been designed to encourage effective waste management practices, improve environmental performance, reduce the cost of waste disposal, and ensure regulatory compliance.

All waste materials sent off site, either for reuse, recovery, recycling, or disposal will be transferred, treated, and disposed of in accordance with the Legal Duty of Care required by the Environmental Protection Act 1990 and the Waste (England and Wales) Regulations 2011.

In line with best practice Milestone Infrastructure will ensure full Duty of Care compliance through the associated supply chain, including completion of pre-engagement audits and ad hoc spot checks on waste carriers and disposal facilities, throughout the duration of the contract or project.

The information and data required by this plan will be recorded using the Waste Management System (WMS) on the Environmental Reporting Hub - Home (sharepoint.com).

The Project Manager and Environment Advisor will review this SWMP for every project or scheme prior to construction and periodically throughout lifetime of project or scheme.

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3 Project Description

Site Address:	Scope of Works
Stanhope Road Highgate London N6 5NB **For Deliveries:** Milestone Infrastructure Compound In Channing School Sports Ground Corner of Stanhope Road / Avenue Road, Highgate London N6 5DF	• Demolition of existing footbridge and abutments • Installation of new drainage and construction of pond. • Construction of new bridge and associated embankments. • Construction of new accessible ramp access, steps and associated landscape works. For further information refer to the Stanhope Road Bridge Construction Environmental Management Plan (CEMP) Due to the nature of works, waste shall be temporarily stored under the Non Waste Framework Directive 3. Should any hazardous waste be discovered this shall be stored on an impermeable surface before being taken off site. A Materials Management Plan may also be implemented depending on whether the project is able to reuse the existing structural components (brick from abutment wall etc) to crush and use behind the new abutment wall as backfill.

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4 Roles and Responsibilities

This SWMP has been produced in line with the Construction, Design and Management (CDM) Regulations in terms of the roles which are required to be specified.

Client: Alex Rogers - London Borough of Haringey/ alex.rogers@haringey.gov.uk
Principle Contractor: Milestone Infrastructure Limited
Document drafter: Mohamad Soboh
Environmental Lead and document reviewer: Amy Redpath
Document approver: Hassan Soboh
Subcontractor Name(s):

- Proposed subcontractors:
- B&B Industrial Dismantling
- Avoncross / Aarsleff Ground Engineering
- O'Donovans – To be confirmed
- ATM – To be confirmed

This SWMP will be maintained on a regular basis by Milestone Infrastructure. A live version of the SWMP will be held for works on Procore and/or local shared drives.

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5 Waste Reduction Principles

Milestone Infrastructure has made a commitment to manage waste in accordance with a set of guiding principles details in the Site Waste Management Plan. These principles include the use of the waste hierarchy whereby disposal is the least desired option. The waste hierarchy shall be applied as follows:

- Prevention and Reduction
- Reuse
- Recycling
- Energy Recovery
- Disposal

The purpose of the waste hierarchy is to reduce the amount of waste that is generated for disposal by implementing management techniques to ensure that alternative outcomes to disposal are achieved. Other principles of waste management to be applied to this project/ scheme include:

- Circular economy principles – understanding the value of materials and waste for suitable repurposing back into the project or network
- The Proximity Principle – this includes provision for the management of waste as close to the point of generation as possible to avoid transport impacts
- Best Available Techniques – this includes using the method of the lowest environmental impact to manage wastes
- Use of industry trends and innovation to ensure latest best practice is used

Milestone Infrastructure will draw upon operational experience to ensure that the principles of waste management are implemented at all times, with the primary emphasis on the reduction and prevention of waste arisings. This will be achieved in the following ways:

- Identify value engineering opportunities with client/designers during design stage
- Identify circular economy principles with client/designers during design stage
- Setting out and working towards waste management targets
- Getting it right first time (to reduce the need for rework and waste generation)
- Reviewing all method statements to emphasise waste reduction
- Driving down over ordering of materials which can result in excess materials at the end of the job
- Ensuring that materials are delivered, stored and handled with care
- Ensuring that staff and operatives are trained in waste reduction techniques
- Creation of Material Management Plans were appropriate (see MIL_VPRO_ENV_005 Reuse of excavated material)

Where required for mirror waste entries, including but not limited to soils & stones and asphalt, appropriate sampling and analysis shall be undertaken to inform waste classification using HazWasteOnline (or similar).

6 Waste Metrics and Targets

All Milestone Infrastructure projects and schemes shall seek to achieve zero waste to landfill as an overriding waste management ambition.

Milestone Infrastructure targets are:

- 98% of waste diverted from landfill
- 30,000t of materials recycled via permits annually

Therefore all projects and schemes will be required to measure waste arisings by entering the waste transfer note data into the Waste Management System (WMS) on the Environmental Reporting Hub - Home (sharepoint.com).

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7 Work Activities Waste Streams

Different activities will generate different waste streams, some of which will be reused and recycled on site and reused or disposed of off-site by third party contractors.

The table below identifies waste streams which may be associated with each activity planned for the project, the European Waste Code (EWC) and potential methods of managing the waste.

Note: No MMP or waste classification needed if material used for backfill

Table 1 - Wastes by Work Activity for the scheme

Activity	Waste Material	Waste Code	Potential Management Method
Demolition	Concrete	17 01 01	Recycled off site
	Construction and demolition waste	17 09 04	Recycled off site
	Demolition waste made up of concrete, bricks, tiles and ceramics	17 01 07	Recycled off site
	Non-hazardous bituminous materials	17 03 02	Recycled off site
	Hazardous bituminous materials	17 03 01*	Recycled off site
	Soil and stone	17 05 04	Recycled off site
	Scrap metal	17 04 07	Recycled off site
	Construction materials containing asbestos	17 06 05*	Disposed off site
	Bricks	17 01 02	Recycled off site
Concrete Piling	Concrete washout	10 13 14	Recycled off site
De-vegetation	Vegetation	20 02 01	Recycled off site
Other	Municipal waste	20 03 03	Recycled off site
	Recycling	20 01 01	Recycled off site
	General waste	20 03 01	Recycled off site
	Spill kit waste	15 02 02*	Recycled off site
	Other hazardous liquids i.e.: Resin	15 01 04*	Recycled off site

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	Aerosols	16 05 04* 16 05 05	Recycled off site

8 Control Measures

Milestone Infrastructure will operate in accordance with industry best practices and requirements of relevant legislation and planning conditions pertinent to the scheme. Training in waste management and minimisation will be delivered to all operatives on the site as appropriate.

8.1 Supplier Controls

In accordance with MI best practice, the following supplier activities should be prevented during the Project:

- Unauthorised keeping, deposit, or disposal of waste on the Site or another site;
- Release or escape of waste on the Site or another site;
- Unauthorised treatment of waste;
- Unauthorised carrying of waste;
- Unauthorised treatment of waste; and
- Mixing of hazardous and non-hazardous waste streams.

8.2 Measures

Pre-appointment audits must be performed on the waste carrier and the waste facility receiving the waste to ensure they hold the correct Waste Carriers Licence (WCL), Environmental Permit, and / or Environmental Exemption to carry, store, treat, recover and / or recycle the proposed waste streams.

Audits should be performed on the appointed waste carriers and waste facilities to ensure that they are handling the Project's waste in accordance with the waste duty of care: code of practice and the Environmental Protection Act 1990 (Waste Management guidance for more detail). These audits must be performed regularly and must comprise of:

- Review of waste transfer notes produced for the transfer of waste between the Site and the appointed waste carrier;
- Review of waste transfer notes produced for the transfer of the Site's waste between the appointed waste carrier and the appointed waste facility; and
- Review of waste transfer notes produced for the transfer of the Site's waste between the appointed waste facility and the subsequent waste facility where the waste is recovered or disposed (if applicable).

Occasional in-transit audits must be performed. During an in-transit audit, a site operative must follow the waste carrier from the Site to the appointed waste facility to ensure their compliance to section Supplier Controls.

8.3 Hazardous Waste

Hazardous wastes such as spill kit waste and spoiled plant nappies must be transferred to the appointed waste carrier using a consignment note, as opposite to a waste transfer note for non-hazardous waste.

As the waste producer and the waste holder we must include, or if completed on our behalf by the appointed waste carrier or appointed waste facility, check that the consignment note includes all the required. It is an offence to exclude any section of the consignment note.

The appointed waste facility managing the hazardous waste produced on the Site must provide a quarterly consignee return to the Project. The consignee returns should be audited by the Environmental Advisor on a quarterly basis.

All hazardous waste must be managed in accordance with the Hazardous Waste (England and Wales) Regulations 2005, and other relevant acts, legislation, regulations, and guidance.

8.4 Waste Sampling, Testing and Assessment

All waste must be sampled to a predetermined sampling frequency, in accordance with MIL_GUI_ENV_004 Waste Management Guidance and MIL_FOR_ENV_013 Sampling Plan and Instructions/ Contract Sampling and Analysis Plan.

All waste must be scheduled and tested to a predetermined suite of analysis, in accordance with MIL_GUI_ENV_004 Waste Management Guidance and MIL_FOR_ENV_013 Sampling Plan and Instructions/ Contract Sampling and Analysis Plan.

All waste testing data must be assessed by the Environmental Advisor, or a member of the Environmental Technical Team before it is transferred to the appointed waste carrier, or it is transferred directly to the appointed waste facility by a member of the project team.

8.5 Material and Waste Reuse

Where a project intends to reuse excavated or demolish material on site of origin or clear naturally occurring material on another site, a material management plan or U1 Waste exemption and register will be required. Refer to MIL_VPRO_ENV_005 Reuse of Excavated Material Process.

For projects live for less than 6 months, low tonnages (<800t), client not requested MMP, then follow the U1 Waste Exemption conditions U1 waste exemption: use of waste in construction - GOV.UK (www.gov.uk) and complete and maintain appendix 3 on this document.

An MMP has been proposed for works at Stanhope Bridge for the use of crushed material for backfill of the abutment walls. This still needs to be confirmed by the client on whether the crushing activity is able to be completed.

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9 Training and Communication

9.1 Training

All those working on site should receive relevant training which should include the SWMP, roles and responsibilities, waste minimisation methods, waste procedures on site, information on hazardous wastes, Duty of Care responsibilities, materials storage and information on spill response.

Milestone Infrastructure will deliver the following types of training to all operatives as appropriate to support the waste management objectives including:

- Site Induction
- Toolbox talks

All records of training will be recorded on a briefing sheet which will be held in site folders on Procore and local share drives. Portfolio • Milestone Infrastructure (procore.com).

For managers, supervisors and other members of staff that hold a high level of responsibility of schemes/projects waste, additionally training through the METS Waste course shall be completed if staff have not already received the appropriate training within the last three years. This shall be organised and completed by the local Environmental Advisor.

9.2 Communication

This plan will be communicated via pre-start meetings and two-way feedback between staff, operatives, and sub-contractors.

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10 Waste Tracking

Milestone infrastructure will track waste arising from the works using the WMS reporting system on Environmental Reporting Hub. The Project/scheme will report the progress against the waste management KPIs identified in Section Six of this document and against any client KPIs.

11 Waste Records

The Project must retain the following waste records for a minimum period of 6 years, as dictated by HM Revenue & Customs (HMRC):

- Environmental permits for the Site (if applicable);
- Environmental exemptions for the Site (if applicable);
- Waste carrier license(s) for all appointed waste carriers;
- Environmental permit(s) for all appointed waste facilities;
- Environmental exemption(s) for all appointed waste facilities; and
- Waste transfer notes for the transfer of waste from the Site to the appointed waste carrier.

In the instances of hazardous waste management, the following waste records must be retained for a period of 6 years, as dictated by the Hazardous Waste (England and Wales) Regulation 2005:

- Consignment notes for the transfer of hazardous waste from the Site to the appointed waste carrier, and from the appointed carrier to the appointed waste facility; and
- Quarterly consignee returns from the appointed waste facility.

Appointed contractor licenses, permits, and / or exemptions should be recorded in **Error! Reference source not found.** and **Error! Reference source not found.** of this SWMP.

The project/scheme Site Agent will ensure that the SWMP is maintained for the duration of the project.

Waste analysis and records can be reviewed on the Waste and Monthly Report Dashboard via the Environmental Reporting Hub.

Appendix 1 – Project Waste Forecast & Duty of Care information – Disposal Sites*

***if using farms for disposal who hold the appropriate U1 waste exemption, the U1 user agreement form must be signed by both Milestone Infrastructure and the exemption holder and filed in the site folder.**

Waste type	EWC Code	ESTIMATED volume m3	Contractor / Sub-Contractor	Approved disposal site(s)	Permit reference (s)	Expiry date
Non-hazardous bituminous materials	170302	**TBC**	MIL	**TBC**	**TBC**	N/A
Hazardous bituminous materials	170301*	**TBC**	MIL	**TBC**	**TBC**	N/A
Non-hazardous soil and stone	170504	**TBC**	MIL	**TBC**	**TBC**	N/A
Hazardous soil and stone	170503*	**TBC**	MIL	**TBC**	**TBC**	N/A
Concrete	170101	**TBC**	MIL	**TBC**	**TBC**	N/A
Construction and demolition waste	17 09 04	**TBC**	MIL	**TBC**	**TBC**	N/A
Demolition waste made up of concrete, bricks, tiles and ceramics	17 01 07	**TBC**	MIL	**TBC**	**TBC**	N/A
Scrap metal	17 04 07	**TBC**	MIL	**TBC**	**TBC**	N/A

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Waste type	EWC Code	ESTIMATED volume m3	Contractor / Sub-Contractor	Approved disposal site(s)	Permit reference (s)	Expiry date
Vegetation	20 02 01	**TBC**	MIL	**TBC**	**TBC**	N/A
Bricks	17 01 02	**TBC**	MIL	**TBC**	**TBC**	N/A
Concrete washout	10 13 14	**TBC**	MIL	**TBC**	**TBC**	N/A
General waste	20 03 01	**TBC**	MIL	**TBC**	**TBC**	N/A
Spill kit waste	15 02 02*	**TBC**	MIL	**TBC**	**TBC**	N/A
Other hazardous liquids i.e.: Resin	15 01 04*	**TBC**	MIL	**TBC**	**TBC**	N/A
Aerosols	16 05 04* 16 05 05	**TBC**	MIL	**TBC**	**TBC**	N/A

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Appendix 2 – Duty of Care information – Waste Carriers

Waste contractor	Registered Address	Registration No.	Registration Date	Expiry Date
Milestone Infrastructure	Abel Smith House, Gunnells Wood Road, Stevenage, Hertfordshire, SG12ST	CBDU374813	22/03/2021	22/03/2024

Appendix 3 - U1 Waste Exemption Register

For projects live for less than 6 months, low tonnages (<800t), client not requested MMP, then follow the U1 Waste Exemption conditions U1 waste exemption: use of waste in construction - GOV.UK (www.gov.uk)

U1 Registration Number	Holder	Date of registration	Date of expiry	EWC	Quantity	Location of excavation	Location of Disposition	Date of movement
N/A								

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Fire Safety & Emergency Plan

Note to Author: This document must be project specific throughout and must be reviewed every three months as a minimum or more frequently should there be significant changes to either the projects or fixed facility buildings layout, storage arrangements, emergency assembly points or escape routes.

Plan details:

Project name	Stanhope Road Bridge Replacement		
Project start date	12/02/2024		
Project duration	11 months		
Prepared by	Name: Ryan Carley	Sign: Ryan Carley	Date: 08/01/2024
Reviewed and approved by	Name: Hassan Soboh	Sign: 	Date: 08/01/2024

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Revision history

Note: this document must be reviewed every twelve months as a minimum or more frequently if there is significant change.

Revision number	Summary of changes made	Revision by	Revision date
01	Document drafted	RC	08/01/2024

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Appendix H	Fire Excavation Instruction

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Instructions for use

This plan is designed for Offices/Projects/Depots/Frameworks to effectively identify, mitigate and manage fire risk on projects and fixed facilities and the associated control measures in line with Milestone Infrastructure standards and the Hierarchy of Control.

The red italic text is written to be included in the Fire Risk & Emergency Plan wherever it is applicable but should be assessed for suitability and then deleted or amended as appropriate. Each section should be completed and where, for example, there are no “Service Risers” the statement should be clearly made in the suitable section.

For all new projects this plan should be prepared at the earliest opportunity during the tender stage of the project.
The Fire Risk and Emergency Coordinator (FREC) will determine what areas are covered under a single plan, e.g.: offices, a single project, a depot, a whole area or a framework agreement covering multiple locations.

Relevant sections of the plan should be identified as applicable through the identification of elements of work related to Fire Risk Management in this contract / project. Each relevant section of this plan should be specific to the project it relates to.

This plan must be reviewed a minimum of every 3 months for projects or 12 months for contracts or following any significant changes.

This plan must be shared with relevant parties outlined herein with roles and responsibilities to allow works to be planned and risk assessments and method statements developed in line with the agreed control measures detailed within this plan.

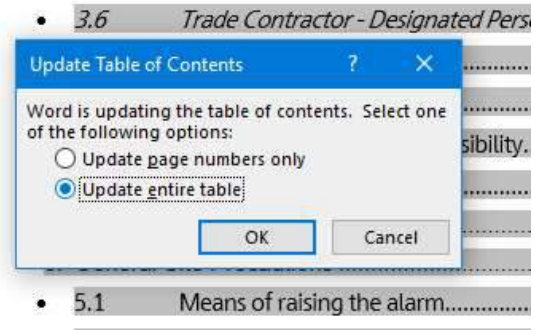
This plan must be developed and read in conjunction with Milestone Infrastructure Health, safety, Wellbeing and Environment minimum standards and the project Construction Phase Health and Safety Plan.

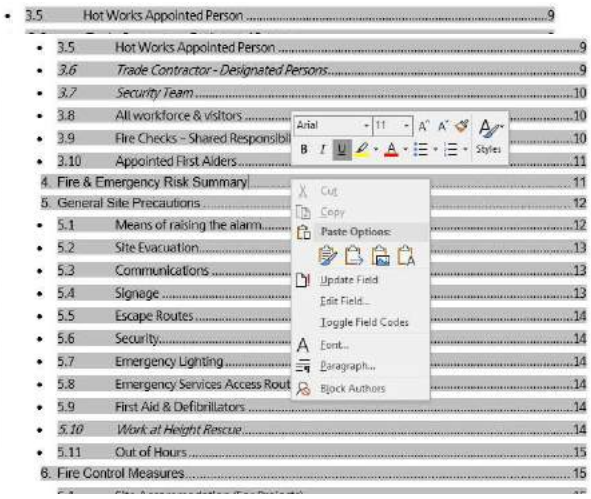
Each section heading is collapsible and has sections contained within; please ensure you detail what is applicable and not applicable to your project/site.

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Finally, please ensure you update the contents page following the plans completion by right clicking on the page and hitting “Update Field” then select “Update entire table”





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Introduction

This plan has been prepared to identify potential fire and emergency situations, reduce the risk of them occurring, ensure the earliest detection, provide an effective system for calling and assisting the emergency services and to mitigate the consequences by ensuring procedures are in place to save life, arrangements for evacuating persons from site, prevent damage and minimise the effects should a fire or an emergency occur.

- It is the project/building management team's responsibility to ensure that the appropriate site rules, procedures, and controls are fully implemented.
- Potential emergency situations include, but are not limited to:
- Fire or explosion resulting in major injuries, death or damage to property and plant.
- Death or major injury of any person on site due to the demolition or construction works.
- High profile near miss incident where severe injury or damage to property could have occurred.
- Collapse of buildings, hoists cranes, overturning plant etc.
- Release of gases/chemicals or other substances, which could render premises unsuitable or affect adjacent land/property and occupants.
- Discharge of contaminants to drains/water course
- Discovery or release of hazardous materials including asbestos.
- Falls of materials/plant on adjacent premises / external to the site boundary causing danger. i.e. onto adjacent roads, footpaths
- Riot or civil commotion.
- Terrorist activity e.g. bomb threats, firearms or weapons attack

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Organisation & Responsibilities

Fire Management Lead (Projects Only)

Hassan Soboh – Senior Project Manager
Lead on all aspects of construction fire safety
Undertake risk assessments for non-complex locations as required
Undertake fire risk management audits as required
Liaise with the Milestone Infrastructure Head of HSW as required
This role must be formally appointed by the Head of Health and Safety

External Fire Consultant

ZETA Compliance Services
Undertake complex fire risk assessments as required
Advise on the required control measures as required
Assist with the development and implementation of the Fire Risk & Emergency Plan as required
Undertake reviews of the fire risk assessment and Fire Risk & Emergency Plan as required

Fire Risk & Emergency Coordinator (FREC)

- Ryan Carley – Site Agent
- Appoint and liaise with the externally appointed External Fire Consultant (if appointed) to undertake fire risk assessment
- Prepare a location specific Fire Risk & Emergency Plan based on the outcome of the fire risk assessment and in consultation with External Consultant.
- Appoint Fire & Emergency Wardens as required, to implement the plan including a nominated Lead Fire & Emergency Warden in case of their absence
- Ensure the Fire Risk Assessment and Fire Risk & Emergency Plan are reviewed a minimum of every 12 months or following significant change
- Ensure routine Fire & Emergency checks are completed in line with the plan and that inspection and maintenance regimes are adhered to.
- Undertake audits and inspections against the Fire Risk & Emergency Plan as appropriate
- Review Out of Hours working requests to ensure suitable Fire & Emergency arrangements
- In the event of an emergency evacuation:
  - Establish the details associated with the incident & ensure the emergency services have been contacted if necessary
  - Communicate details with members of the Milestone Infrastructure Senior Management Team

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  - Coordinate with Fire & Emergency team and ensure each area of the building is being swept / evacuated and share details with Emergency Services.
  - When site is confirmed safe and everyone has been accounted for, communicate with all relevant party's evacuation is complete and it is safe to return to work
  - Ensure a recorded debrief is undertaken following emergency evacuations with relevant persons to identify and follow up on any possible learning outcomes
- The above is a not an exhaustive list, but the items listed are essential to all building evacuation/bomb alert, firefighting and emergency services requirements
- Ensure defined levels of trained First Aiders and first aid equipment is available during all working hours.

Fire & Emergency Warden

- Mohammed Soboh – Site Supervisor
- Ensure the Fire Risk & Emergency plan is in place
- Ensure fire escapes are clear of obstructions, unlocked and lit
- Ensure emergency service vehicle routes are clear
- Ensure alarm call points are clear and visible
- Ensure fire points are clear and extinguishers in place
- Ensure the weekly Fire & Emergency Wardens checklist is completed and actioned as necessary
- Ensure a full evacuation drill in undertaken a minimum of twice per year
- Ensure all flammable gases/liquids/materials are correctly stored
- Ensure rubbish is not allowed to accumulate
- On hearing the evacuation alarm each Fire Warden, if safe to do so will check the area for which they are responsible to ensure it has been evacuated and report to the emergency assembly point controller for further instructions
- Where safe to do so the Fire & Emergency Wardens with assistance will aid in extinguishing small fires – only where this does not put themselves or others at further risk
- If nominated lead Fire & Emergency Warden, in case of FREC absence, coordinate evacuation and other Fire & Emergency Wardens and liaise directly with the emergency services as single point of contact

Hot Works Appointed Person

- Ryan Carley – Site Agent / Mohamad Soboh – Section Engineer
- Ensure that they understand the requirements of the fire plan
- Ensure that they are familiar with Milestone's Hot work Permits Process

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- Ensure permits requested are in advance of work activity and in accordance with approved method statements / risk assessments
- Ensure all relevant permit checks have been undertaken e.g.
  - Adequate Ventilation
  - Extinguishers & Blankets available
  - Fire watch in place
  - Flammable Fuel stored away from hot works
  - Gas cylinders away from burners
- Authorise permits with signature
- Maintain hot works permit register
- Monitor conditions of permit during work activity
- Check permit extension requests as initial issue process
- Close out permits on completion of activity
- Issue safety violations following permit sign off failure

Trade Contractor - Designated Persons

- In the event of an emergency evacuation, Trade Contractor – Designated Person is responsible for:
- Pick up their company role call sheet from security and paddle board from next to the site entrance
- At emergency assembly point, display company name and complete a role call for their respective company
- Update the FREC after the roll call has been completed

Security Team

- The Security Team is responsible for controlling access to the site, outside working hours and at weekends.
- In the event of an emergency evacuation, the Security Team is responsible for:
- On confirmation of the emergency evacuation print role call documents (including visitor sign in log) for each contractor on site and have the visitor log ready for pick up
- Release the turnstiles to free swing mode for ease of evacuation
- Share role call documents with persons who come to collect them
- Ensure the fire logbook is available to the FREC at the emergency assembly point
- Have the grab pack ready to share with the emergency services including photo of the hazardous substance mark up
- When the site is confirmed safe to return to site, turnstiles must be reactivated so people can be accounted for when re-entering site

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All workforce & visitors

- In the event of an emergency evacuation, all persons must leave site via the quickest safe route and report to the emergency assembly point. At the emergency assembly point, report to the designated person for their company taking the roll call
- Each person on site is responsible for responding immediately in the event of an emergency on site
- If you discover a fire on site, raise the alarm via the nearest call point
- Assess the scale of the fire, if it's possible to put it out with a suitable fire extinguisher and if you are comfortable to do so
- If it is not possible to put the fire out, immediately evacuate from site, via the safest shortest route, reporting to the emergency assembly point for rollcall *[insert project/site specific detail on the route and any specific instruction in terms of road risk or environmental risk with regards to the external walking route e.g. you must use the pedestrian crossing point and follow the rules of the red and green man. Cross road providing it is safe to do so] – to be updated once on site with designation fire evacuation routes*
- Fire & Emergency Wardens will marshal the people traffic with designated hi-vis vests on
- Communicate the details of the incident, by speaking to or calling any member of the Milestone Infrastructure Management Team or to your supervisor
- For all Supervisors managing teams on site, they must ensure workers in their area evacuate towards the site emergency assembly point
- Follow Milestone Infrastructure's and statutory procedures for reporting and recording accidents.

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Fire Checks – Shared Responsibility

- Daily checks by Construction Managers/Site Managers/Site Supervisors to ensure:
    - Fire escapes are clear of obstructions.
    - Emergency service vehicle routes are clear.
    - Fire call points are clear and visible.
    - Fire points are clear and extinguishers in place.
    - All flammable gases/liquids/materials are correctly stored.
    - Rubbish is not accumulated.
    - Ensure that the daily hot works procedures are being upheld by the floor Fire & Emergency Wardens.
    - Ensure that all escape routes are sufficiently lit
- Close of day checks by Team Member on late duty to ensure:
    - All doors, windows, perimeter fencing/gates secure
    - Plant is immobilised
    - All heaters are switched off
    - Electrical systems isolated (where possible)
    - Gases are correctly stored
    - Ensure all persons have left site
    - Check all hot work locations to ensure they are free of sources of heat / combustion
- Weekly checks by Fire Risk & Emergency Wardens to ensure:
    - Daily checks listed above are carried out
    - Fire extinguishers are in working order
    - Fire alarm tests to ensure fire alarm sounder units are in working order
    - Emergency lighting visual checks are carried out

Appointed First Aiders

- FREC to display appointed First Aiders on suitable notice board
- Provide first aid to sustain life
- Ensure the emergency services are contacted where necessary
- Liaise with the emergency services on arrival
- Ensure that the accident book is completed where necessary
- Ensure that the first aid station is replenished as necessary

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Fire & Emergency Risk Summary

- The Fire Risk Assessment will inform this section with the key risks; store the Fire Risk Assessment in Appendix D.
- Potential causes of fire on this project are:
    - Arson
    - Failure to carry out Hot Works safely
    - Smoking
    - Unsafe storage and use of flammable materials
    - Faulty/leaking fuel tanks to plant and other flammable substance containers
    - Poor housekeeping
    - Faulty electrical tools and equipment
    - Faulty electrical systems, including site accommodation and plant
    - Excessive combustible materials stored
    - Heat sources in the restaurant / kitchens
    - Faulty site accommodation heaters or heating systems
    - Covered or unsighted heaters
    - Extreme weather – lighting to tree
- Potential causes of other emergencies on this project during the demolition, installation of Substructure and steel frame are:
    - Lifting equipment failure during a lift
    - Persons being trapped by loads or moving vehicles
    - Unintended collapse of structures and materials
    - Unprotected leading edges
    - Overturning of plant / equipment
    - Confined space works
    - Exposed voids
    - Exposure to asbestos
    - Injury in areas of restricted or limited access
    - Power failure
- Potential causes of Terrorist Attack at this site are:
    - Bomb
    - Vehicle attack
    - Firearms or weapon attack

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An outline of controls for these risks are provided in the Fire Risk Assessment (Appendix D), details of specific Hot Works, Housekeeping and Emergency rescue plans will be provided within individual Safe Systems of Work and the General Risk

Assessments for the tasks and this project/site and subject to the normal review process.

General Site Precautions

Means of raising the alarm

- *To be updated on site once fire evacuation procedures outlines*
- *Fire points – in compound and on site – fire horns to be present*
- *Detail the means of raising the alarm on the project/fixed facility e.g. break glass call points and sounders, loud hailer, manual turn handle bell etc. Include a visual representation wherever possible.*
- *Clearly detail the location and types here.*

Site Evacuation

- *To be updated once on site and Zeta emergency plan assessment has been undertaken*
- *Detail the location of the emergency assembly point in case of evacuation. If, because of the nature of the emergency, or because of circumstances beyond the control of Milestone Infrastructure, the emergency assembly points identified above are deemed unsafe the Fire Risk & Emergency Coordinator (or if the Fire Risk & Emergency Coordinator is not present on site, their Deputy) will identify a suitable alternative location. This may be as a result of an instruction or direction from the emergency services.*
- *If the emergency assembly point must be relocated, members of the Milestone Infrastructure Management Team will be posted to redirect site personnel to the new location.*
- *How will the site be evacuated? Is there a phased evacuation?*
- *Fire / Emergency Evacuation drills must be undertaken at least every 6 months for both office and site.*
- *Include a visual representation (e.g. layout drawings) in Appendix A*

Communications

- The Fire Risk & Emergency Coordinator, or in their absence the Deputy, will co-ordinate facts of the incident and keep the Milestone Infrastructure Senior Management Team and workforce updated.
- Detail means of communication on site:
- e.g. Mobile telephone: calls and text messaging groups between Milestone Infrastructure Management Team
- Special consideration for radio channels (e.g. for crane team):

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- Crash channel (emergency frequency)
- Following an emergency, the incident details should be notified to the client.
- Note: media communication is managed by Milestone Infrastructure Communications Department. Upon request of information form media relating to Milestone Infrastructure, be helpful and explain you are not an authorised spokesperson to disclose information on behalf of the company.
- Signage
- Fire and emergency signage are displayed and kept up to date in all areas of site. Signage will include:
- Escape routes - directional, final point of exit and emergency assembly point
- First aiders, first aid provisions
- Fire points – including extinguishers, alarm call points, Signage etc
- Fire & Emergency Wardens (Name, Photo and Number)
- Fire Action Notices at points of entry/exit

Escape Routes

- To be updated once received the ZETA on site fire assessment.
- Compound escape routes to be outlined below before starting works.
- Escape routes should be provided from all office and welfare areas with clearly displayed signage strategically placed along routes for ease of identification when attempting an exit in the event of an emergency.
- As far as is practicable, a minimum of two designated routes will always be provided for egress.
- These should be detailed on visual plans in Appendix A

Security

- An effective security system should be in place for securing the site. The security team should be briefed on the Fire Risk & Emergency Plan and their duties in case of fire or emergency.
- Visitors should receive a visitor's induction, be always signed in and remain with their Milestone Infrastructure contact during an evacuation.
- The site will be fully hoarded with fixed access gates in order to prevent unauthorised access. Where there is a requirement to use Heras fencing instead of a full timber hoarding, all fencing panels will be double clipped, adequately footed and kept closed at all times when not being used for access.
- On this project access to the site will be maintained in the following way:
- The site compound will be set up within the Channing School playing fields park on the corner of Stanhope Road and Avenue Road, the field is a secure field with high fencing and barbed wire with secure gated access. The compound within this field will consist of additional temporary fencing and gated access with chains and

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padlocks and CCTV will be set up at access points to the compound stored within an on site server, remote monitoring for the site management team will also be set up

- Anything that does not appear normal, i.e. packages or boxes in places where they look out of place should be treated as suspicious and security or Milestone Infrastructure MUST be informed immediately.

Emergency Lighting

- Where provided, emergency lighting systems are to be inspected and tested every 12 months. Results are to be recorded and stored in the fire logbook along with other relevant test and inspection certification.
- Weekly visual checks of emergency lighting must be completed on the Fire & Emergency Wardens checklist. A minimum of 1 lux of lighting must be achieved on all emergency escape routes.

Emergency Services Access Routes

- Clear access must always be maintained.
- Access point locations are likely to be via the loading bay or the main site/office entrance depending upon the location of the fire / emergency incident.

First Aid & Defibrillators

- Milestone Infrastructure will ensure that at least 1 in 6 (target 1 in 3) of its safety critical staff are trained in Emergency First Aid, including electric shock treatment, and that at least 1 in 50 staff are trained in First Aid at Work.
- Conduct a First Aid assessment of need in terms of numbers of first aiders and provision of first aid equipment. The first aid assessment tool will be utilised for this.
- Detail locations of First Aid facilities and Defibrillators in case of emergency; further details should be contained within the Construction Phase Plan/Fixed Facilities Plan [insert hyperlink to relevant section]
- Detail the location of any burn's kits and those trained and competent to apply the right level of first aid.

Work at Height Rescue

- Trade Contractor method statements must include all relevant rescue procedures for specific work activities including rescue from restricted locations, Work at Height, MEWPs, Confined Space, Tower Crane. These must be signed off by a competent manager.
- Recorded rescue drills will be undertaken will be completed regular intervals to test the effectiveness of our rescue plans.

Out of Hours

- All Out of Hours working is to be co-ordinated initially through the Site Manager, when all requirements for Out of Hours working are met, they

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shall be presented to the Fire Risk & Emergency Coordinator (or authorised deputy) for approval. See Appendix F - Out of Hours request form

- The Site Manager will then assess the validity of the extended working hour's request, the requirement for Milestone Infrastructure cover and arrange cover where necessary. The assessment will be based on number of men, location, complexity of operation, safety hazards such as work at height, crane lifting etc.
- Any other Permits required such as Hot Works, Lifting, Riser Access etc must be in place prior to the Out of Hours works commencing.

Environmental Considerations

- During firefighting, consideration should be made to mitigate the flow of firefighting water run off to ensure it is directed to sewer routes wherever practicable and protect surface water drainage wherever reasonably practicable. There are mitigating circumstances, however, this requires consideration. Liaise with your Environmental lead for further information.

Fire Control Measures

Site Accommodation (For Projects)

- Detail any temporary site accommodation arrangements here.
- Temporary accommodation units will be provided to the following standards:
  1. Category "A" i.e. of non-combustible construction and with 1/2-hour fire rated inside to out and outside to in (located inside, on or within 6 m of a building)
  2. Category "B" i.e. 1/2-hour fire rated inside to out (located within 10 m of a building)
- All site accommodation heaters to be securely always fixed to the wall with non-flammable backings and be kept clear of waste or furniture and other combustibles.

Fire Detection

- Detail detection methods i.e. battery-operated smoke detectors, heat detectors, hard wired mains connected systems etc – update on site

Compartmentalisation

- Detail here passive/active fire protection design for fixed facility; these should be checked and inspected as part of the design process and included within the project specification or within the O&M manuals for the fixed facility plans. New meetings rooms/offices must have their design checked by a competent surveyor for sign off and approval.

Service Risers

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- Service risers need to be compartmentalised at the earliest opportunity to prevent vertical spread of fire through the building at the earliest opportunity (at a time when the building is becoming reasonably enclosed)
- Details of the locations of service risers should be included in the building layout drawings and Fire Risk & Emergency Plans; these should be included in the Fire Risk Assessment (Appendix D) and inspections maintained at regular intervals.

Limiting the spread of fire (Construction Phase)

- During the construction phase, newly formed compartments within the building at stairway access routes and corridors will provide enough protection to limit the spread of a fire along designated access routes. Fire rated compartments will be provided along areas deemed higher risk of fire. This ensures compliance with the requirements of the JCOP for fire prevention on construction sites 9th edition.

Firefighting equipment

- Detail what firefighting equipment is provided on site; this needs to include the type and locations of fire extinguishing media included but not limited to Fire Extinguishers, Fire Blankets, Inert Material etc. – update on site
- Firefighting equipment will be provided to strategic locations around the project office, welfare areas and site.
- Provisions to be reviewed and updated as works progress/there are changes in office layout.

Smoking/vaping

- Detail the location and associated control measures i.e. disposal and checks/cleaning rota – update smoking area in compound and on site

Hot works

- Before any Hot Works take place, a hot work permit must be obtained from a Milestone Infrastructure authorised issuer.
- Hot works will only be undertaken after the issue of a hot work permit to the contractor carrying out the work, this is to include the use of a fire watch.
- Work areas will be checked after the completion of hot works by the competent fire watch to ensure the site is left in a safe condition. These checks will be recorded on the Hot Works Permits.
- During hot works 2no of the appropriate fire extinguisher must be at hand, fire extinguisher must have been inspected in the last year, pressure gauge must be in the green. Checks for the above will be recorded on the Hot Work Permit. Any hot work permit will be issued and closed out each day.

Housekeeping

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- Good housekeeping must be maintained to prevent the build-up of combustible materials especially near sources of ignition, waste and obstructions to fire escape routes.
- Site team to daily inspect the level of housekeeping during the contract – welfare facilities are to be emptied / maintain weekly by provider. Any issues with welfare to be raised to site manager immediately.

Flammables/LPG/Fuels

- Flammable gasses will be kept to a minimum and will be stored in a locked ventilated cage with adjacent fire extinguisher. LPG, propane and oxygen will be stored in separate cages at least 6 metres apart.
- All gas cylinders will be stored and secured upright using proprietary trolleys when in use and fitted with flash back arrestors. Storage will be in appropriate cages with oxygen stored away from other flammable gasses.
- Gas cylinder and other fuel storage locations will be identified on the site plans and contained within Appendix A.
- A contractor using fuel on site must have refuelling procedures in place and a risk assessment to cover refuelling procedures.
- Asphalt/Bitumen Boilers: Bitumen boilers must be placed on heat resistant mats where positioned at roof level, with appropriate fire extinguishers in attendance always. Lit boilers must not be left unattended in any circumstances
- Combustible materials stored internally must always be kept to a minimum. Where combustibles need to be stored internally, they must be covered in LPS:1207 flame retardant covering.
- All gas installations to be carried out using ‘Gas Safe’ registered operatives.

Electrical equipment

- Workshop tools and on-site electrical tools will be inspected before use and PAT tested every 12 months.
- All temporary site electrical systems will be examined / PAT tested every 12 months. All installations terminal connections/ Cable restraints etc. will conform to BS7671
- Fixed electrical installations in offices, site welfare and site accommodation will be inspected by competent electrician.
- All electrical items used in the site/project office, site welfare and kitchen will be PAT tested every 3 years.

Other Emergency Considerations

Lifting Equipment Failure during a lift

- Refer to relevant lifting plan / contract lift plan for emergency procedures regarding lift failure.

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- All lifting operations will be co-ordinated by the Milestone Infrastructure Lifting Co-ordinator to ensure each lift is properly planned and controlled by competent personnel.
- Lifting plans must be submitted to the co-ordinator in advance of any lifting operation being undertaken to allow a full review of the proposed lift. Milestone Infrastructure shall provide the Lifting Contractor the relevant information required (ground conditions etc.) to properly plan the lift.

Major Injury or Fatality

- For any major injuries, Multiple injuries or a fatality dial 999 immediately or report to nearest A+E outlined in the indurction / briefing.
- All accidents and incidents must be reported to the project management team to allow the investigation process to begin. Initial details will be collated by the supervisor or manager responsible for the works, i.e. brief statements from witnesses, photos and measurements etc. It is important to leave the scene of all accidents and incidents untouched to preserve evidence for the investigating person (Project Health and Safety Manager) who will conduct a full investigation; only preserve the area if safe to do so. All incidents will be recorded on the EHS Database

Unintended collapse of structures and materials

- A full task and location specific RA & MS for works involving the demolition of the existing bridge structure and abutment walls will be drafted to ensure works, access and egress and demolition of the structure is completed in a safe and methodical manner

Confined space works

- Detail here any emergency arrangements associated with Confined space works, link wherever possible to specific works package plans or safe systems of work.
- The Person Responsible for the Works is responsible for the planning and coordination of all confined space operations on site required in accordance with this procedure to ensure that confined space operations can be delivered safely.
- The Person Responsible for the Works will compile a detailed specific risk assessment and give consideration to eliminate the need for a person to enter a confined space. Consideration should be given to remote CCTV surveys and other remote-controlled devices to be used. Failing this consideration should be given to declassifying the space to the extent where the occurrence of the specified hazards can be completely eliminated.
- The Person Responsible for the Works must ensure that suitable rescue procedures and facilities are available throughout the duration of the confined space entry work. The exact nature of the facilities will be determined through the risk assessment process and will be communicated to the team conducting and overseeing the work.
- If a gas monitor should emit an alarm tone (no matter what the cause) whilst work is being carried out in the confined space, then all staff within

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the confined space will immediately don their escape breathing apparatus and make their way to the exit point in preparation to evacuate the confined space. The Entry Controller will co-ordinate the rescue arrangements in cases where there is a problem with vacating the team from the area. Once the team have successfully vacated the space, the access must be sealed, and the matter investigated.

- If there is an incident within the confined space then the casualty (if conscious and mobile), should be encouraged to make their way to the access point so that they can be attached to the retrieval winch and be winched out of the area. If the casualty is unable to move or be moved, then the only option is to call for the rescue services to assist with the removal of the casualty.
- If there is an incident within the confined space and the casualty is unconscious (i.e. through injury or they have been overcome by gas, etc.) and the gas monitor starts to emit an alarm tone, then all remaining persons within the confined space must don their escape breathing apparatus and leave the area immediately.
- On no account must they attempt to rescue the casualty as the extra effort involved in carrying a casualty will deplete their own oxygen supply leading to further casualties. In this instance the relevant rescue services, (wearing self-contained breathing apparatus) must be called to retrieve the casualty (normally the fire brigade).
- All gas alarm activations that occur during confined space entry work must be reported as a positive intervention (hazard) within the Milestone Infrastructure Incident Management System.
- All incidents that occur during confined space entry work must be reported to the HSW team to ensure that they are investigated where required.

Overturning of plant and equipment

- All contract lifts to have full complete risk assessments detailing emergency procedures.
- All vehicles to be within the legal loading limit to reduce overturning risk

Exposure of multiple parties to harmful substances

- Detail here any emergency arrangements associated with harmful substances in use or inherent on the site/project. Link wherever possible to works package plans or safe systems of work and COSHH assessments.
- To ensure the project is compliant with the COSHH procedure, the person responsible for the works is to identify the product and activity (How to be used, Location, how long) they wish to use, and requests COSHH assessment from Hazardous Substance Co-ordinator. The COSHH assessment form (MIL_FOR_HS_006.1) and safety data sheet will outline the safer use procedure and safe storage.

Security & Terrorist Threat

- A potential threat to Milestone Infrastructure sites is that of a terrorist attack. This may be by inserting an explosive, chemical, biological device into the construction site or by parking a vehicle bomb explosive device as

close to the building as possible. To deter and prevent these types of attack the site must be securely maintained. See Appendix G - Protestors Security and Terrorism Guidance

Telephone Warnings

- Telephone warnings from the police:
  - Establish the name of the caller and his/her station.
  - The location of the device.
  - Whether there is a need to evacuate the building.
  - Establish whether the normal emergency assembly point is safe. If not, ask for an alternative suggestion.
  - Establish the safest route to the emergency assembly point if an alternative is specified.
- AS SOON AS THE CALL IS ENDED INFORM SECURITY / MILESTONE INFRASTRUCTURE WITH ALL DETAILS
- Telephone warnings from an anonymous caller:
- ALL CALLS MUST BE TAKEN SERIOUSLY
  - Remain calm.
  - Make notes, if possible.
  - Ask if there is a code word
  - Establish the exact nature of the threat.
  - If explosive device, try and establish location and size/quantity.
  - Establish the time the device is expected to explode.
  - Who does the caller represent i.e. what group?
  - Why is the building being targeted?
  - Try to gain and remember as much as possible about the caller's voice and any background noise(s).
- AS SOON AS THE CALL IS ENDED INFORM SECURITY WITH ALL DETAILS

Nuclear, Biological, Chemical, Radiological Alert

- Initial actions to be taken on discovery of a suspicious package or object:
  - If you are suspicious of a package or envelope DO NOT OPEN IT.
  - If an envelope or package containing a suspicious substance has been opened, DO NOT TAMPER with the substance concerned or attempt to move it elsewhere.
  - Close all windows in the room/area.
  - Close all fire doors.
  - Switch off any air conditioning or extract ventilation systems.

- Evacuate all staff in the room/area to another room and record the names of those present at the time. Any further action will be dictated by the emergency services.
- Shut the door of the room involved or otherwise deny access to the area concerned.
- Inform Security at the earliest opportunity in order that the Fire Risk & Emergency Coordinator may be briefed.
- Nobody, other than the emergency services, is to enter the room or area until declared safe by the Fire Risk & Emergency Coordinator.
- The Fire Risk & Emergency Coordinator, having assessed the situation with the emergency services, should decide if any other staff should be moved.

Vehicle attack

- In the event of a vehicle attack is taking place:
  - Raise the alarm to those around you
  - Run away from danger
  - Hide in a place of safety (preferably with robust barrier between you and the attacker, remain quiet and hidden until it is thought safe to leave the hiding place)
  - Alert Site Security or Emergency Services to the situation

Firearm or Weapon Attack

- In the event of a Firearm or Weapon attack taking place on site:
  - Run away from danger
  - Hide in a place of safety (preferably with robust barrier between you and the attacker, remain quiet and hidden until it is thought safe to leave the hiding place)
  - Alert Site Security or Emergency Services to the situation when it is safe to do so

Suspicious Packages and Objects

- In the event of anyone finding a suspicious package or object the following procedures must be followed:
  - Report to Milestone Infrastructure or site Security - do not speak to any other persons about the situation.
  - Security to contact the Police.
  - Adopt emergency evacuation plan.
  - Place Security in strategic positions until police take over the situation.

Contaminated Persons

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- The following action should be taken for any persons suspected of being in contact with a suspected chemical or biological device, prior to the arrival of the emergency services:
  - Wash hands in a weak bleach solution (one teaspoon of domestic bleach to one litre of water), and then rinse with ordinary soap and water.
  - Keep the person finding the device separate from others and available for immediate attention from the emergency services
  - Try to ascertain how many other people may have been exposed to the material
  - Keep all suspected contaminated people separate from others.

Vehicles

- Special vigilance must be paid to unattended vehicles which may be left adjacent to the site, concern will be raised with the local Police force.

Information, Instruction & Training

- Trauma & Stress - should an incident occur where emotional support is required those affected will be given access though the Milestone employee assistance programme.
- Fire Risk & Emergency Coordinators are advised of their responsibilities when they are appointed to the role and must have the appropriate competency as detailed in the Milestone Projects' Appointments Matrix
- Fire & Emergency Wardens must have attended practical fire warden training covering general fire safety, general duties and use of fire extinguishers. They will be briefed on their specific duties on this project, the contents of this plan and responsibilities.
- Trade Contractor Designated Persons are required to acknowledge their responsibilities as part of Fire Risk & Emergency Plan issue
- Site Security are advised of their responsibilities during an evacuation on commencement of their role
- Trade Contractor supervisors are advised of their responsibilities during an evacuation as part of the Supervisor Induction process and during regular toolbox talks
- Workforce are advised of their responsibilities during an evacuation as part of the Site Induction process and during regular toolbox talks
- Visitors are advised of emergency evacuation procedures via an information sign displayed at the site entrance or during the site visitor induction
- Trade Contractors' Co-ordination meetings will be held on construction projects during which all parties are to discuss their forthcoming work(s) with relevance to potential health and safety issues, including fire hazards, rescue procedures and emergency arrangements.
- The following information will be posted on site:

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- First Aid & Fire & Emergency Warden Contact Poster (To be displayed at strategic locations on site)
- Fire Action Notice (To be displayed at fire points and other relevant prominent locations, i.e. main notice board etc)
- Site Layout Plan (To be appended to this Fire Risk & Emergency Plan, displayed at prominent locations, i.e. main notice board, site entrance etc. Showing location of fire points, evacuation routes and emergency services access routes to be kept clear)
- Hazardous / Flammable Substance Storage Locations (Appended to this Fire Risk & Emergency Plan, displayed on the site plan/held at the security desk)

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Appendix F - Out of hours working request

The following information is required as detailed in the procedure for which application is being made.
Access to site outside normal weekday hours will not be permitted without the prior authorisation of this form.

Request for working on:	Day:		Date:	
Requested Working times:	From:		To:	
Trade Contractor:				
Location of Work:				
Details of work:				
Method Statement No:		Copy Attached:	Yes / No	If NO work is not to be approved
Applying Manager:		Signature		

Information Checklist

Supervisors Names	Pass No	Emergency Contact Details / No's

Other Permits Required			
Hot Works	Yes / No	Other **(specify)**	Yes / No
Confined Space	Yes / No	Other **(specify)**	Yes / No
Environmental	Yes / No	Other **(specify)**	Yes / No
Limitation of Access	Yes / No	Other **(specify)**	Yes / No
Lifting	Yes / No	Other **(specify)**	Yes / No
Electrical	Yes / No	Other **(specify)**	Yes / No

First Aiders Names (1 FA to 5 operatives)			
Name:		Name:	
Name:		Name:	

Expected Deliveries		
Date:	Time:	Who:
Date:	Time:	Who:
Date:	Time:	Who:

To be Completed by Milestone			
First Aid Cover Adequate	Yes/No	Adequate Security Available	Yes/No
Milestone Supervisor for Activity:	Name:	Tel. No.	

Approved By:	Name	Signature:	Date:
Project Manager			
Fire Risk & Emergency Coordinator			

Work complete, all those detailed below have left site - Milestone Supervisor signing should be same as detailed above

Signature:	Name:	Date/Time:

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MILESTONE INFRASTRUCTURE
A part of MGroupServices

Trade contractor application form - Employee list

Contractor Name ---------- Day/Date ----------

	Full Name	Pass No	Time In	Time Out
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
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21				
22				
23				
24				
25				
Note: repeat this sheet on a continuation page if necessary				

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Appendix G - Protestors Security and Terrorism Guidance

If protestor action occurs on any Milestone Instructure site, then advice should be sought immediately from the local police. If any part of the site is occupied by any group, make the area safe. Do not engage with them. Staff should be mindful of their own safety and that of any protestor. We have a legal obligation to ensure safety of all persons on site, however they may be there.

1.0 Suspect packages/suspicious objects found without warning

All employees should be made aware that an explosive device might still be placed in a building without prior warning, even though all possible preventative measures have been taken. Anyone finding such an object should clear people away from the immediate area and follow the reporting procedure below.

2.0 Suspected letter/parcel bomb

A letter or parcel bomb can be almost any size that can travel by post. Visual clues include unusual postmarks, too many stamps for the weight, inaccurate delivery address, excessive weight for size, pin holes in the covering and the smell of marzipan, almonds or ammonia. To avoid unnecessary alarm and disruption, and wasting the bomb disposal unit's time, every effort should be made to authenticate the status and integrity of a suspect item. If the sender's address is shown it should be checked.

A letter or package that arouses suspicion should be handled as little as possible. It should be left where it is if it has not been handled and should not be moved or touched further. If the letter/package is being handled or is being opened, immediately place it on the nearest horizontal firm surface. It should not be moved or touched further. Do not prod, fold, cut or interfere with the letter/package in any way or place it in sand, water or a metal container. Evacuate the room/area opening all windows, if possible, and close all doors into the room/area. Prevent others from going into the room/area and follow the reporting procedure.

3.0 Suspect objects potentially containing a bomb

A bomb can be anything capable of holding explosives or incendiary materials, ranging from a matchbox to a suitcase, a crate, or even a vehicle. An indication may be the discovery of an object that is alien to the location, unusual in appearance, hidden from casual view, and of questionable ownership.

If you discover a suspect object do not open, move, cover, or interfere with it in any way.

If inside a building, arrange for all people to leave the surrounding area and if considered necessary, the whole floor, opening windows, if possible.

Visual clues for suspect letters/packages containing hazardous material might include oily stains on envelopes, discolouration or unusual smells, envelopes that are lopsided, rigid, bulky, discoloured, have an obvious or strange odour or feel like they contain powder, vapour is released when opened, or are leaking or weeping liquid.

If you find a letter/package which you suspect may contain hazardous material inside a building, **do not** touch, tamper with it, or move it. If it is a letter/package you are already handling, or it is being opened, place it in a transparent sealable bag or container, if

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available, and place it on the nearest horizontal firm surface. **Do not** tamper with it or move it further, and **do not** clean up spilled powder. Turn off portable air conditioning and office equipment. Evacuate the room/area, closing all windows and doors leading into the room/area. Prevent others from entering the room/area and follow the reporting procedure. Segregate yourself and any others who have come into contact with the suspicious letter/package, device or substance, to prevent further contamination. Do not rub your eyes; touch your face, or other people. Thoroughly wash your hands with soap and water as soon as possible.

4.0 Suspect objects or vehicles – outside a building

Where a suspect object or vehicle is discovered, clear people away from the immediate area, and if the object or vehicle is suspected of containing hazardous material, move upwind from it, as far away as possible. Do not touch or interfere with the object or vehicle in any way.

5.0 Reporting suspect objects or vehicles

All details of suspect letters/packages, objects or vehicles should be recorded. This includes make, colour, and model of the vehicle, along with any distinguishing features or names written on the sides. The exact location where there are parked, being driven. What time they were first observed. Any description of the driver or other occupants of the vehicle. Description of the any load on or in the vehicle. Why you feel they are suspicious.

Do not use a mobile telephone or two-way radio within 400m of any suspect package.

6.0 Good housekeeping

Good housekeeping makes it more difficult for a terrorist to plant a bomb, and also makes it easier for search teams to find should one be left

Areas outside buildings must be kept clean and tidy. Rubbish must not be allowed to accumulate as it provides an ideal place to hide a bomb and is unlikely to be properly searched. It may also act as an invitation to arson. Large rubbish bins, which can present a particular problem, should be kept in the building or in a lockable storage area if possible.

Shrubbery should not become overgrown, thereby reducing the risk of a bomb being concealed within.

Internally all rooms and stairways should be kept clean and tidy, particularly areas accessible to the public

7.0 Role of the Police

The police will advise on the management of the situation where a suspect letter/package, device or material is discovered. They will co-ordinate the response from the emergency services. The police have a legal right to take charge in these situations and their instructions must be followed:

- All reports should be directed in the first instance to;
  - the Police by dialling 999
  - then the relevant Milestone Instructure Director
  - then the Health & Safety Advisor

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Milestone Instructure staff and employees, visitors and contractors on site should contact reception/emergency coordinator/fire warden who will then contact the Police and any other agencies required.

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Fire Evacuation Procedure

- On Hearing the alarm, you must leave the building by the nearest exit and proceed to the assembly point which is on the left-hand side outside of the main gates.
- DO NOT stop to collect personal belongings
- DO NOT re-enter the building until advised to do so by the official fire warden.
- DO NOT leave the assembly point without the permission of the fire warden.
- Please inform your line manager if for any reason you are not able to hear the alarm or have a physical condition that makes it difficult for you to leave the building in an emergency unaided e.g. heart condition, temporary injury or pregnancy so a evacuation risk assessment can be completed.
- If you discover a fire, raise the alarm, and then leave the building as mentioned.
- Report to the fire evacuation point which is situated outside the front gates.
- Your Fire Wardens are highlighted below:

RYAN CARLEY – 07811 5810782

MOHAMAD SOBOH – 07731 982839

MOHAMMED SOBOH – 07890 415158

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Stanhope Road Bridge Replacement Environment Emergency Response Plan

Contract/Project Name	Stanhope Road		
Contract/Project No.	3411042		
Project Address	Stanhope Road N6 5DF		
Project Start Date	February 2024		
Project Duration	39 weeks		
Prepared By	Ryan Carley **Site Agent**	**Sign**: 	**Date**: 19/02/2024
Reviewed By	Amy Redpath **Senior Environmental Advisor**	**Sign**: 	**Date**: 01/03/2024
Approved By (Document holder)	Hassan Soboh **Senior Project Manager**	**Sign**: 	**Date**: 01/03/2024

Revision Control Schedule

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Rev	Date	Description	Prepared By	Checked By	Approved By
00	19/02/2024	First Revision Stanhope Road	Ryan Carley	Amy Redpath	
01					
02					
03					
04					

File Location: *An electronic copy will be maintained of this document will be held and maintained on Procore as the controlled version.*

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Terms	Definitions
Consent Infringement/ breach	Where the limits (of potential pollution) set as conditions of consents, permits or licences are exceeded or where methods of operation are not in accordance with procedures or conditions set by the regulatory authority.
Environmental Incident	Any event, activity or condition that causes, could have caused, or has the potential to cause damage to people, damage to property or the environment.
Environmental Hazard	A situation where no environmental consequences occur, but where a risk of environmental harm exists as a result of conditions on site or as a result of individual's actions.
Non-Compliance	Any event, activity or condition that does not comply with the Environmental Management Plan, legislation, MIMS and/or ISO 14001:2015.
Pollution	The harmful impact on the local atmospheric, aquatic or land environment caused by the release of hazardous or nuisance-causing substances; excessive noise and vibration.

1. Immediate Environmental Incident Response on Site

In the event of an environmental incident, for example a substance entering a drain or soaking into the ground, an uncontrolled release to atmosphere (in breach of permit conditions), the unexpected discovery of protected species or habitats on site or the unexpected discovery of archaeological artefacts, works will cease immediately in that location in a manner that is safe to do so. Milestone Infrastructure and all sub-contractors will take immediate action where appropriate, to prevent or reduce environmental impact (and other impacts i.e., safety), if safe to do so.

In the event of a significant environmental incident where local arrangements cannot cope with the incident e.g. a rupture of the oil storage tank, the Site Agent/Manager shall be contacted immediately in order to escalate the incident and if required, enact the site-specific emergency procedures, as set out in the Construction Phase Health and Safety Plan.

For all those incidents which do not require the enactment of the site-specific emergency arrangements, the below process describes how an individual should respond to an environmental incident at the site.

In the event of a spill (hydrocarbons, chemicals, liquids) the following process shall be followed:

- Assess the **safety requirements** needed to manage the spill e.g., gloves, eye protection, overalls etc. Do not attempt to clean up un-identified chemical or fluid spills without wearing the correct PPE.
- Use spill kits or other means to **STOP** the pollution at its source, where safe to do so. Spillages shall not be washed into drains or ditches.
- Use spill kits or other means if required to **CONTAIN** the spillage and prevent it from entering surface or groundwaters.
- **CLEAN-UP** using appropriate spill kit equipment and personal protective clothing as necessary. If necessary, this can include the use of a specialist spillage response contractor.
- **DISPOSE** of contaminated absorbents and/or contaminated soils/waters as hazardous waste in accordance with waste management procedures and the Contract/Project Waste Plan.
- **NOTIFY** the incident to Site Agent who is responsible for notifying the incident to the Milestone Environment Advisor, providing a detailed description of the event and immediate actions taken to prevent or reduce the environmental impact (and other impacts as appropriate i.e. safety).

For the uncontrolled release of emissions to the atmosphere, the Site Agent/Manager shall immediately stop the source of the emissions where safe to do so, review mitigation techniques and work instructions immediately e.g. dust suppression.

Where a pollution incident occurs from an activity covered by an environmental permit, consent or other regulatory control, the incident will be managed in accordance with all relevant conditions imposed by the permit, and in line with the mitigation measures outlined within this plan.

For all other environmental incidents e.g. unplanned disturbance of ecology, archaeology and contaminated land etc., please refer to the Environmental Incident Action Sheets (EIAS) in Appendix A of this document.

Following the initial response, a Milestone Infrastructure led Incident Investigation will be undertaken as per Section 8, to determine the immediate and root causes of the incident.

1. Introduction

The following Emergency Response Plan is to assist in providing advice and guidance for emergency situations that may arise during the course of delivering activities relating to this contract/project.

This plan details the actions to be taken in the event of an environmental incident or emergency. It also provides a mechanism for recording incidents so trends can be identified, and action can be implemented to prevent recurrence. For a detailed scope of works refer to the Environmental Management Plan.

This plan should be read in conjunction with the following Procedures, Plans and Guidance:

- Environmental Management Plan
- Environmental Aspects and Impacts Register
- Project Fire and Emergency Plan
- Construction Environmental Management Plan
- Construction Environmental Management Plan
- Construction Phase Plan
- Environmental Incident Process
- Environment Incident Guidance
- Full Environment Investigation Template
- Witness Statement Guidance
- Incident Investigation and Reporting Procedure
- Environmental Incident Notification Form
- Environment Lessons Learnt Form
- Spillage Response Procedure

2. Emergency Contacts

Contact Type	Name/Area Covered	Telephone Number
Milestone Project Manger	Hassan Soboh	07817262454
Milestone Site Agent	Ryan Carley	07811 581072
Milestone Site Engineer	Mohamad Soboh	07731 982839
Milestone Environmental Manger	Amy Redpath	07526 193951
Milestone Health & Safety Manger	Kenneth MacKellar	07594 512088
Police	Emergency line	999
Gas Emergency No.	Cadent	0800 111 999
Electricity Emergency No.	UKPN	0800 31 63 105
Water Emergency No.	Thames Water	0800 316 9800
Local Authority	LB Haringey	020 8489 0000
Environment Agency National	National (report incident)	24 Hour Emergency: 0800 807 060 Floodline: 08459 881 188
Environment Agency Local	Insert Region	Insert contact details
Natural England	National	0300 060 3900
Health & Safety Executive	National	Major and fatal injuries only: 0345 300 9923

		24 hour duty officer: 0151 922 9235
24hr emergency spill clean-up company	Adler and Allan	0800 592 827
Optimus	All Areas	0800 028 0676

3. Roles and Responsibilities

All staff and operatives are responsible for identifying environmental incidents, where practicable implementing controls, and reporting them to the Site Agent / Manager. Guidance on how to deal with various environmental incidents is given in the Environmental Incident Action Sheets in Appendix A of this document.

The Project / Operations Manager has overall responsibility for environmental compliance on the Project, including the management of sub-contractors. They will, with the assistance of the Environment Team and relevant environmental specialists, ensure that suitable controls and corrective measures are applied when an environmental incident is identified. They shall also make arrangements for callout personnel to investigate and take control of out of hours environmental incidents.

The Environment Advisor is responsible for undertaking site inspections, leading on environmental incident drills, and undertaking incident investigations. They will where relevant, consult with environmental specialists and/or the Regulatory Body, and will advise the Project Manager / Business Director on the correct controls and remedial action following an environmental incident. The Environment Team will review and investigate all incidents and communicate findings to reduce the likelihood of recurrence.

4. Competence and Training

Individual training requirements will be determined based on job role, appointment role and mandatory training requirements. See MIL_FOR_HS_001.1 Appointments Matrix.

The Environmental Spill Coordinator and key members of the team will be identified and trained in the use of emergency equipment and spill kits and will be fully briefed on the actions to be taken to deal with and report an environmental incident. Training in spill response will include site-specific toolbox talks.

The Environmental Team will ensure that appropriate environmental toolbox talks on dealing with environmental incidents are highlighted for delivery. The Site Agent will ensure selected toolbox talks are regularly delivered to the directly employed and subcontract workforce.

Environmental Site Notices, posters and advisory notices dealing with environmental incidents will be displayed in the main site office notice boards, site mess facilities and stores areas.

5. Notification of Incidents

All environmental hazards and incidents shall be notified and reported in line with the MIL_GUI_ENV_003 Environmental Incident Investigation and Reporting Guidance and the MIL_VPRO_ENV_004 Environmental Incident Process.

All environmental hazards should be reported, and any lessons learnt circulated to prevent more serious incidents from occurring on site.

- On identification of an environmental hazard, where a potentially hazardous situation is identified, ensure that the area is made safe. Do not put yourself or others at risk
- Inform the Site Agent of the environmental hazard and report directly to Optimus via the hotline
- All environmental hazards will be entered onto Optimus, and will be monitored at SHEQ monthly meetings
- Feedback - It is the Site Agent responsibility to ensure that information relating to the outcome and any changes as result of the environmental hazard report are communicated to site employees

6. Arrangements for Statutory Notification

The Environmental Advisor/ Manager will, following consultation with the Head of Sustainability, ensure that the appropriate regulatory authority is notified of environmental incidents where it is required by legislation and/or the contract/project.

The Business Director will make suitable and adequate arrangements for notification of pollution incidents to the Environment Agency both during and out of hours. These will include the nomination of an appropriate senior manager to be available 24 hours a day, 365 days a year, responsible for contacting the Environment Agency. The arrangements will be communicated to security staff, emergency call out staff and duty managers (where relevant).

The Environment Agency emergency hotline number is 0800 80 70 60.

The Environment Team will copy all communications with the regulatory authorities relating to environmental incidents to the Head of Sustainability and Operations Director.

Records of telephone conversations with regulatory authorities will be maintained in site diaries and the Environment Teams inspection reports. The Operations Managers are responsible for reporting, in consultation with the relevant members of the Environment Team.

7. Dealing with the Media

There is a strict procedure within Milestone Infrastructure for handling communications in the event of a crisis or incident and it is vital that the Milestone Infrastructure Environment team is informed immediately should an incident occur that could result in publicity and cause a marked deterioration in the public image, value or operating efficiency of the company.

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In the event of a crisis the media will often go directly to the site involved and will try to get any employee to comment and give information. The following rules apply:

- Refer the call or visitor at once to your Director; be as helpful as possible but explain that you are not in a position to comment, as you are not an authorised spokesperson.
- If a spokesperson is not available or cannot be reached immediately, make a written record of all calls received with the name, time, call back number and indication of subject so we can make contact later. Never elaborate on authorised external audience statements; do not speculate on cause or effect.
- Avoid open discussion in public places on a crisis which affects the company.
- Never speculate. Apart from the legal implications of liability, opinions and speculation can, for example, lead to unwarranted distress to employees or their families, as well as to others affected by the crisis, and can only serve to cause confusion. All responses will be cleared by the Milestone Infrastructure senior management and appropriate departments such as HR and Legal.
- Try to ensure that any employees within the business who are directly affected by the crisis are provided with approved information, prior to hearing or reading comment in the media.

A crisis, or an impending crisis, will become known from within the company or through the media. The media are able to gain access to information very quickly, often faster than internal sources. The objective of the press is to gain information of a higher quality and at a faster rate than their competitors. They will utilise any contacts they have to obtain information. The way Milestone Infrastructure respond, especially in the early stages of a crisis, is vitally important. Total control of information is required in order to protect the value and integrity of the company's image.

8. Investigating and Reporting

The purpose of an investigation is to identify what happened and the circumstances leading up to the incident in order to prevent it happening again – not only on site where it occurred, but also on any other construction site.

An incident investigation will be undertaken by the Environment Team as a result of an incident. This will involve gathering evidence as the first part of the investigation. Evidence is important to ensure that sufficient information is available to enable a thorough investigation of what occurred in order to prevent it happening again. The Environment Team may also need to provide evidence to an enforcing authority.

If an enforcing agency takes any photographs, samples or carries out any monitoring, a representative from the Contract/Project Team or Environment Team should also gather evidence in the same way at the same time. This might include the Environment Agency taking water, waste or soil samples, or the Local Authority Environmental Health Officer carrying out noise, vibration or dust monitoring.

Important evidence that needs to be gathered and recorded includes:

- What happened before, during and after the event
- The consequences of the incident e.g. harm, damage, intervention by an enforcing authority, breach of a consent
- Witness information and statements
- Photographs of the incident and the area affected
- Sketches showing what happened and where e.g. positions of people, plant, equipment, and environmental receptors

- Other relevant factors e.g. weather

An investigation should identify:

- What happened before, during and after the incident – this should include a precise step-by-step timeline of the sequence of events, where they happened, and who was present
- Details of instructions provided prior to and during the incident (verbal and written)
- Records of competence/training of all personnel present at the location of the incident
- Plant and equipment records, including maintenance records.
- All points of failure in methods, plans, processes, procedures, training, and communication etc.
- Immediate cause
- Underlying cause
- Root cause
- Actions to correct the incident and to prevent recurrence.

9. Incident Severity

The Severity Matrix categories are based on the following:

- **Environmental hazard** – A situation where no environmental consequences occur, but where a risk of environmental harm exists as a result of conditions on site
- **Incident** – likely to be resolved by immediate response and action in a localised area by those present at or near the incident
- **Serious Incident** – A situation causing minor environmental consequences beyond the site boundary, they are likely to require mobilisation of significant resources from the site or resources outside the worksite to respond and resolve the situation and are likely to breach Environmental Permit requirements or Environmental Regulations.
- **Very Serious Incident** – A situation likely to result in enforcement action and/or damage to our reputation and are likely to require external emergency services/regulatory authorities to respond in order to resolve the situation

Please see MIL_APP_ENV_001 Appendix A - Incident Severity Matrix for full details on incident categories.

10. Control Measures for Environmental Pollution Incidents

In order to avoid the potential for environmental pollution incidents from the work activities, the following series of preventative measures will be adopted across the project. Further information to be issued as follows:

- Emergency controls for fixed sites are listed in the Construction Environment Management Plans.
- Site specific emergency procedures are listed in the Construction Phase Plan and Construction Environmental Management Plans.
- Mitigation controls listed in the Generic Highways Risk Assessments and site-specific Risk Assessments.
- Site specific risks and mitigation measures included in the site induction.
- Environment Incident Action Sheets for site works to all operational staff

Management Controls

In order to avoid the potential for environmental pollution incidents from the work activities, the following series of preventative measures will be adopted.

All site personnel (including sub-contractors) will be made aware of the potential pollution hazards and risks associated with their work activities through appropriate training and briefings prepared and delivered by Milestone Infrastructure.

Contractors working on this contract/project must keep and maintain equipment and materials on site to deal with pollution incidents, including (where applicable):

- Absorbent granules;
- Absorbent mats;
- Absorbent pillows;
- Drain mats/covers;
- Pipe blockers;
- Absorbent booms;
- Plant nappies
- Pumps;
- Over drums.

Milestone Infrastructure must ensure that all those involved in emergency response are familiar with, and have access to:

- The Emergency Response Plan
- The Construction Phase Plan
- The Construction Environmental Management Plan
- Construction Environmental Management Plan (Highways Contracts)
- Spillage Response Procedure
- Information on materials, their health, safety and pollution risks;
- Appropriate spill response equipment; and,
- Training in the adoption of incident response procedures.

Drainage

All drainage elements and management plans will be implemented in line with the Environment Agency's (EA) pollution prevention guidance notes. In summary many of these measures include:

- Minimising the excessive storage of potentially polluting materials and substances where possible
- Locating the storage of potentially polluting materials and substances as far away as possible from high risk locations, such as:

        - Where there is a risk of damage by collision (e.g. From site traffic)
        - Within 50m of a spring, well or borehole
        - Within 10m of a watercourse, ditch or drainage channel
        - Where polluting materials or substances could enter an open drain or soak into unmade ground where it could pollute groundwater
        - Where a spill could run over hard ground to enter a watercourse or soak into unmade ground where it could pollute groundwater
        - On roofs (materials can enter guttering, itself a pathway to the surface or groundwater environment)
    - Creation of temporary drainage networks (e.g. Temporary connection into combined sewer infrastructure) during interim periods during the construction of the permanent drainage system;
    - Use of silt traps used to capture suspended solids;
    - Use of appropriately designed, built and maintained oil storage and refuelling facilities;
    - Oil/water separators; and drainage rate control to ensure run-off does not exceed the agreed discharge rates.

A plan identifying drainage facilities of either a permanent or temporary nature on site that could exacerbate a pollution incident will be made available at all spill kit locations to enable operatives on site to respond rapidly in sealing drainage and hence containing a spill in a manner that reduces the impact of the spill on sensitive receptors.

Hazardous Substances (Environmental)

COSHH stores are secure, bunded, non-flammable containers used to store chemicals when they are not being used. Only chemicals that have been approved to be used on Milestone Infrastructure sites are permitted to be used and stored on site.

In the event of an accidental release of a COSHH approved chemical to the environment, the accidental release measures for dealing with the spill can be found in the chemicals material safety data sheets (MSDS) and COSHH assessments. This information includes details of the PPE that should be worn and who should be contacted in case the chemical enters a water course. Up to date COSHH assessments to be completed and saved on the Sypol COSHH Management System.

All oil and fuel is to be stored in bunded facilities, and all tanks are clearly marked as to their contents. The bunding must provide an impermeable base and walls and adequate storage capacity in the event of a leak and comply with EA guidance. The bund must be sufficient to contain 110% of the maximum contents of any oil container of 200 Litres or more. Where more than one container is stored, the bund should be capable of storing 110% of the largest tank or 25% of the total storage capacity, whichever is the greater.

Oil containing plant and equipment will be located on hard-standing and away from drains where possible. All refuelling of minor items of equipment will take place on made ground, away from drains and any spillages will be contained and cleaned up immediately. Plant and equipment will be of good working order and used only during specified operating times.

An up-to-date record shall be maintained of all hazardous substances stored on-site, together with an indication of the maximum quantity likely to be stored. The relevant Material Safety Data Sheets (MSDSs) and COSHH assessments for these substances, shall be made available to All Site Staff advance of the works taking place.

Waste Management

Waste is to be segregated and stored in appropriate, covered, containers which will be clearly marked as to their contents. The containers are to be located away from drains and where possible on impermeable surfaces.

Spill Kits

Milestone Infrastructure staff and those working on behalf of Milestone Infrastructure will carry suitable spill kits on site to cater for the range of possible pollution risks identified during the contract/project. Smaller kits will also be provided for mobile plant, equipment, and oil containers when taken to remote areas of the site.

Spill kits are to be situated in front of all refuelling areas and the Site Agents/Site Manager are responsible for checking and maintaining stock levels. Spill kits and refuelling areas are shown on the site/layout compound plan in the DEMP/CEMP.

As a minimum each spill kit must be able to contain approximately 120 litres. Based on this each spill kits should contain:

- 60 Absorbent pads
- 4 Socks
- 8 Pillows
- 1 Pair of gloves
- 2 Bags and ties
- 1 drainage mat

All operational vehicles carry a mobile spill kit which should be able to contain approximately 25 litres. Based on this, each spill kit should contain the following as a minimum:

- 20 Absorbent pads
- 2 Socks
- 1 Pair of gloves
- 2 bags and ties

Responsible personnel must be suitably trained in the use of spillage response equipment and materials. If any equipment requires special training to use it, the contact details of staff members who are trained in its use will be available on site.

11. Environmental Incidents Offsite

Milestone Infrastructure has an obligation towards proper management of environmental incidents occurring off-site that relate to works or activities associated with this contract/project:

Mud on the Road

In the event of mud on the road being discovered or reported, the Site Agent shall make the area safe and protect drains from silt. An approved Road Sweeper supplier shall be used to clean the area and unblock drains if required. An incident report should be submitted to Optimus and the Environment team informed.

Spills during transport to/ from site

As a minimum, arrangements shall include alerting the contract/project Environment Advisor.

In the event that the spill is significant which the local arrangements cannot cope, the Local Emergency Services and Local Authority shall be contacted to support the emergency response. Milestone Infrastructure shall take responsibility for informing the emergency services and Local Authority in this case.

The Site Agent shall brief grab wagon drivers, flat bed drivers or equivalent, on the spill procedure in the event of a spill during delivery to site which includes how to notify Milestone Infrastructure of an incident. It is expected that contractors vehicles (or vehicles on their behalf) will have spill kits available to respond to spills and drivers be competent in the stop, contain notify process.

Fly tipping

As a minimum Milestone Infrastructure shall respond immediately reporting the incident to the Local Authority and putting arrangements in place to recover and dispose of the waste in line with the waste duty of care.

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Appendix A Environment Incident Action Sheets (EIAS)

These documents support the Contract/Project Emergency Response Plan

Delivering what we promise

In the event of an environmental incident please refer to the relevant Environmental Incident Action Sheet.

EIAS 01 – Fuel, oil or chemical spill to watercourse or drainage system

EIAS 02 – Silty runoff to watercourse or drainage system

EIAS 03 – Fuel, oil or chemical spill to ground

EIAS 04 – Fuel, oil or chemical spill to highway

EIAS 05 – Unexpected discovery of contaminated land

EIAS 06 – Discovery of potential asbestos containing material

EIAS 07 – Unexpected discovery of protected species, invasive species or habitat

EIAS 08 – Uncontrolled release of dust

EIAS 09 – Complaint due to construction noise

EIAS 10 – Enforcement action by LPA / EHO / EA / Police

EIAS 11 – Flooding of worksite

EIAS 12 – Unexpected archaeological discovery outside planned archaeological works

EIAS 13 – Fly tipping

EIAS 14 – Illegal disposal of Waste

EIAS 15 – Spill of Emission Reduction Solutions (ERS) - Ad Blue

EIAS 16 - Spill of Bitumen Emulsion

The following action sheets are given as an initial guide to incident response on site. Actions and notifications should include but are not limited to those listed within the tables.

Delivering what we promise

EIAS 01	
Incident:	**Fuel, oil or chemical spill to watercourse or drainage system**
Action:	1. **STOP** work and **CONTAIN** spill 2. Establish nature of substance spilled, considering personal safety before beginning any action to stop or clean up spillage. Use appropriate PPE e.g. gloves. 3. Identify the source of spillage and stop flow immediately. Switch of sources of ignitions. 4. Prevent spillage spreading by diverting the flow, creating a dam with earth or blocking drains. 5. Locate the nearest spill kit and use absorbent booms, pads as appropriate to soak up the spillage. 6. Do not wash spillage into drains and do not use detergents, as this will make things worse. 7. Call in emergency response team if required to remove spillage. 8. Collect all used spill kit materials and contaminated soil for disposal as hazardous waste. 9. Record on Optimus *(except if from call out)* 10. Replace spill kits used.
Notification:	**NOTIFY** • Site Agent • Environment Advisor (Amy Redpath 07526 193951) • Environment Agency where spillage is likely to enter controlled water (0800 80 70 60) • Sewerage undertaker where spillage is likely to enter sewers or drains (Thames Water 0800 316 9800) • Optimus (0800 028 0676) • Emergency response contractors – 0800 592 827
Severity Rating:	Serious Incident, Very Serious Incident
What might this look like?	

EIAS 02	
Incident:	**Silty runoff to watercourse or drainage system**
Action:	1. **STOP** work and contact Site Agent immediately. 2. Identify cause of silty runoff and stop flow where possible and safe to do so e.g. dewatering of excavations. 3. Block drains, create settlement ponds to enable settlement of solids, establish silt fence and / or place straw bales to filter runoff. 4. Establish controlled discharge allowing for settlement of solids and filtration using straw bales or silt fencing as appropriate. 5. Record on Optimus.
Notification:	**NOTIFY** • Site Agent • Environment Advisor (Amy Redpath 07526 193951) • Environment Agency where a large volume of silty runoff has entered or is likely to enter controlled water (0800 80 70 60) • Sewerage undertaker where a large volume of silty runoff has entered or is likely to enter sewers or drains (Thames Water 0800 316 9800) • Optimus (0800 028 0676)
Severity Rating:	Incident, Serious Incident, Very Serious Incident
What might this look like?	

EIAS 03	
Incident:	**Fuel, oil or chemical spill to ground**
Action:	1. **STOP** work and contact Site Agent immediately. 2. Establish nature of substance spilled, considering personal safety before beginning any action to stop or clean up spillage. Use appropriate PPE e.g. gloves. 3. Identify the source of spillage and stop flow immediately. Switch of sources of ignitions. 4. Prevent spillage spreading by diverting the flow, creating a dam with earth or blocking drains. 5. Locate the nearest spill kit and use absorbent booms, pads and granules as appropriate to soak up the spillage. 6. May require excavation of contaminated soil 7. Do not wash spillage into drains and do not use detergents, as this will make things worse. 8. Call in emergency response team if required to remove spillage. 9. Collect all used spill kit materials and contaminated soil for disposal as hazardous waste. 10. Record on Optimus *(except if from call out)* 11. Replace any spill kit used.
Notification:	**NOTIFY** • Site Agent • Environment Advisor (Amy Redpath 07526 193951) • Environment Agency where spillage is likely to enter controlled water or large spillage in groundwater protection zone (0800 80 70 60) • Sewerage undertaker where spillage is likely to enter sewers or drains (Thames Water 0800 316 9800) • Optimus (0800 028 0676) • Emergency response contractors – 0800 592 827
Severity Rating:	Incident, Serious Incident, Very Serious Incident
What might this look like?	

EIAS 04	
Incident:	**Fuel, oil or chemical spill to highway**
Action:	1. **STOP** work and contact Site Agent immediately. 2. Establish nature of substance spilled and risk of road traffic accident, considering personal safety before beginning any action to stop or clean up spillage. Use appropriate PPE and traffic management. 3. Identify the source of spillage and stop flow immediately. Switch of sources of ignitions. 4. Prevent spillage spreading by diverting the flow or blocking drains. 5. Locate the nearest spill kit and use absorbent booms, pads and granules as appropriate to soak up the spillage. 6. Do not wash spillage into drains and do not use detergents, as this will make things worse. 7. Call in emergency response team if required to remove spillage. 8. Collect all used spill kit materials and contaminated soil for disposal as hazardous waste. 9. Record on Optimus *(except if from call out)* 10. Replace any spill kit used. 11. Contact duty or on call agent to make a decision on when to open the road
Notification:	**NOTIFY** • Site Agent • Environment Advisor (Amy Redpath 07526 193951 • Environment Agency where spillage is likely to enter controlled water or large spillage in groundwater protection zone (0800 80 70 60) • Sewerage undertaker where spillage is likely to enter sewers or drains (Thames Water 0800 316 9800) • Optimus (0800 028 0676) • Emergency response contractors – 0800 592 827
Severity Rating:	Incident, Serious Incident, Very Serious Incident
What might this look like?	

EIAS 05	
Incident:	**Unexpected discovery of contaminated land**
Action:	1. **STOP** work and contact Site Agent immediately 2. Establish nature of contaminated material and risk to personal safety before implementing control measures to prevent the escape of contamination. 3. Control measures may involve backfilling or covering the excavation or the use of absorbent spill kit materials. 4. Fence the affected area off and signpost to indicate "Contaminated Area – No Unauthorised Access". **5.** Record on Optimus. **6.** Agree requirements for continuing works in the area and hazardous waste disposal with the Area Manager and the Environment Advisor.
Notification:	**NOTIFY** • Site Agent • Environment Advisor (Amy Redpath 07526 193951) • Environment Agency (0800 80 70 60) and Local Authority Environmental Health Officer where significant risk of pollution from contaminated land • Optimus (0800 028 0676)
Severity Rating:	Incident, Serious Incident
What might this look like?	

EIAS 06	
Incident:	**Discovery of potential asbestos containing material (ACM)**
Action:	1. **STOP** work and contact Site Agent immediately 2. Establish nature of contaminated material and risk to personal safety before implementing control measures to prevent the escape of contamination. 3. Fence the affected area off and signpost to indicate "Contaminated Area – No Unauthorised Access". 4. Record on Optimus. **5.** Call in licensed asbestos contractor to sample potential ACM. **6.** Develop method statement for removal and disposal to licensed facility if confirmed to be asbestos.
Notification:	**NOTIFY** • Site Agent • Environment Advisor (Amy Redpath 07526 193951) • Environment Agency (0800 80 70 60) and Local Authority Environmental Health Officer where significant risk of pollution from contaminated land • Optimus (0800 028 0676)
Severity Rating:	Incident, Serious Incident
What might this look like?	

EIAS 07	
Incident:	**Unexpected discovery of protected species, invasive species or habitat**
Action:	**1.** **STOP** work and contact Site Agent immediately **2.** Contact Ecologist to agree working methods and mitigation measures that may be required before recommencing work. **3.** Record on Optimus. **4.** Work may only restart with authorisation of the Environmental Team
Notification:	**NOTIFY** • Site Agent • Environment Advisor (Amy Redpath 07526 193951) • Ecologist (to be confirmed) • Natural England if advised by Ecologist • Optimus (0800 028 0676)
Severity Rating:	Incident, Serious Incident, Very Serious Incident depending on the degree of disturbance
What this might look like?	

EIAS 08	
Incident:	**Uncontrolled release of dust**
Action:	**1.** **STOP** work and contact Site Agent immediately. **2.** Damp down working area before recommencing work. **3.** Review working methods to ensure best practicable means is being used. **4.** Review weather forecasts to confirm whether additional control measures are required. **5.** Record on Optimus.
Notification:	**NOTIFY** • Site Agent • Environment Advisor (Amy Redpath 07526 193951) • Local Authority Environmental Health Officer if significant release of dust outside site boundary • Optimus (0800 028 0676)
Severity Rating:	Incident, Serious Incident, Very Serious Incident
What might this look like?	

EIAS 09	
Incident:	**Complaint due to construction noise**
Action:	1. **STOP** work and contact Site Agent immediately. **2.** Review working hours and method statement, machinery and investigate potential for improvement. **3.** Record on Optimus.
Notification:	**NOTIFY** • Site Agent • Environment Advisor (Amy Redpath 07526 193951) • Local Authority Environmental Health Officer • Optimus (0800 028 0676)
Severity Rating:	Incident
What might this look like?	

EIAS 10	
Incident:	**Enforcement action by LPA / EHO / EA / Police**
Action:	**1.** **STOP** work and contact Site Agent immediately. **2.** Contact Environment Team. **3.** Do not restart work until agreement has been reached with enforcing authority
Notification:	**NOTIFY** • Site Agent • Environment Advisor (Amy Redpath 07526 193951) • Optimus (0800 028 0676)
Severity Rating:	Incident, Serious Incident, Very Serious Incident
What might this look like?	

EIAS 11	
Incident:	**Flooding of worksite**
Action:	1. **STOP** work and contact Site Agent immediately. 2. Consider personal safety before attempting to access flooding worksite. 3. Remove potentially polluting materials from worksite e.g. fuel, oils, chemicals and cement. 4. Remove floating materials from work area e.g. timber. 5. Remove plant and equipment from work area. 6. Use floating booms to contain and absorb any floating contaminants. 7. Do not pump contaminated water out of area as flooding recedes, contain and use spill kit to absorb pollutants before pumping or removal by vacuum tanker. 8. Record on Optimus.
Notification:	**NOTIFY** • Site Agent • Environment Advisor (Amy Redpath 07526 193951) • Environment Agency if significant flooding or pollution of watercourse (0800 80 70 60) • Optimus (0800 028 0676)
Severity Rating:	Incident, Serious Incident, Very Serious Incident
What might this look like?	

EIAS 12	
Incident:	**Unexpected archaeological discovery outside planned archaeological works**
Action:	**1.** **STOP** work and contact Site Agent immediately. **2.** Notify Environmental Team. **3.** Agree mitigation requirements with Archaeologist prior to restarting work. **4.** Record on Optimus.
Notification:	**NOTIFY** • Site Agent • Environment Advisor (Amy Redpath 07526 193951) • Archaeologist (Local Authority) • Optimus (0800 028 0676)
Severity Rating:	Incident, Serious Incident, Very Serious Incident
What this might look like?	

EIAS 13	
Incident:	**Fly tipping (on Milestone Infrastructure work site)**
Action:	**1.** **NOTIFY** Site Agent immediately. **2.** Contact Environment Advisor to arrange disposal of fly tipped material and agree immediate control measures. **3.** Ensure site is secured to prevent recurrence. **4.** Record on Optimus.
Notification:	**NOTIFY** • Site Agent • Environment Advisor (Amy Redpath 07526 193951) • Optimus (0800 028 0676)
Severity Rating:	Incident, Serious Incident
What might this look like?	

EIAS 14	
Incident:	**Suspected illegal disposal of waste**
Action:	**1.** **NOTIFY** Site Agent immediately. **2.** Contact Environment Advisor so that full Duty of Care check / waste audit can be carried out on supplier / subcontractor. **3.** Record on Optimus.
Notification:	**NOTIFY** • Site Agent • Environment Advisor (Amy Redpath 07526 193951) • Optimus (0800 028 0676)
Severity Rating:	Serious Incident, Very Serious Incident
What this might look like?	

EIAS 15	
Incident:	**Spill of Emission Reduction Solutions (ERS) - Adblue**
Action:	1. **STOP** work and CONTAIN spill. 2. Do not attempt to wash down or add water. ERS is soluble in water. 3. Consider personal safety before beginning any action to stop or clean up spillage. Use appropriate PPE e.g. gloves. 4. Identify the source of spillage and stop flow immediately. Switch of sources of ignitions. 5. Prevent spillage spreading by diverting the flow, creating a dam or blocking drains. Note: this substance will not be captured by interceptors so any outfalls will need to be isolated and arrangements made to cleanse the interceptor. 6. Locate the nearest spill kit and use absorbent booms, pads and granules as appropriate to soak up the spillage. 7. Do not wash spillage into drains and do not use detergents, as this will make things worse. 8. Call in emergency response team if required to remove spillage. 9. Collect all used spill kit materials and contaminated soil for disposal as hazardous waste. 10. Record on Optimus. 11. Replace any spill kits/granules used.
Notification:	**NOTIFY** • Environment Advisor (Amy Redpath 07526 193951) • Environment Agency where spillage is likely to enter controlled water (0800 80 70 60) • Sewerage undertaker where spillage is likely to enter sewers or drains (Thames Water 0800 316 9800) • Optimus (0800 028 0676) • Emergency response contractors – 0800 592 827
Severity Rating:	Incident, Serious Incident, Very Serious Incident

EIAS 16	
Incident:	**Spill of Bitumen Emulsion**
Action:	1. **STOP** work and CONTAIN spill. 2. Do not attempt to wash down or add water. 3. Consider personal safety before beginning any action to stop or clean up spillage. Use appropriate PPE e.g. gloves. 4. Identify the source of spillage and stop flow immediately. Block sources of ignitions. 5. Prevent spillage spreading by diverting the flow, creating a dam or blocking drains. 6. Locate the nearest sand to soak up the spillage. 7. Do not wash spillage into drains and do not use detergents, as this will make things worse. 8. Call in emergency response team if required to remove spillage. 9. Collect all contaminated soil for disposal as waste. 10. Record on Optimus. 11. Replace any sand used.
Notification:	**NOTIFY** • Environment Advisor (Amy Redpath 07526 193951) • Environment Agency where spillage is likely to enter controlled water (0800 80 70 60) • Sewerage undertaker where spillage is likely to enter sewers or drains (Thames Water 0800 316 9800) • Optimus (0800 028 0676) • Emergency response contractors - 0800 592 827
Severity Rating:	Incident, Serious Incident, Very Serious Incident
What might this look like?	

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Construction Logistics Plan

Project Name	Stanhope Road Bridge Replacement
Landowner	London Borough of Haringey
Site Address	Stanhope Road, Haringey, N6 5DE
Planning App. Ref No.	HGY/2021/2718
Revision	

CLP Produced by:	**Signature**	**Date**
Arturas Niemcinskas	*Arturas Niemcinskas*	21.03.2024
CLP reviewed by:	**Signature**	**Date**
Ryan Carley	*Ryan Carley*	27.03.2024

Construction Logistics Manager:	Ryan Carley
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1. Introduction

Construction Logistics Plan Objectives

The Construction Logistics Plan is designed to detail the procedures and objectives of Milestone Infrastructure with the main aim being to reduce incidents, maximise efficiency and provide a proactive approach to site logistic management for the Project. The Construction Logistics Plan covers the following items:

- Traffic / pedestrian management,
- Delivery coordination, prioritising, and scheduling,
- Material storage and distribution,
- Managing waste,
- Management of keys.

Site Context

The 0.8ha site is linear, along a section of the Parkland Walk, the bridge to be replaced is an existing bridge allowing the Parkland Walk to cross over Stanhope Road. The main Parkland Walk Path, running west-east is generally flat or gently sloping, but is set on what was a railway embankment, which slopes down steeply north and south to the housing flanking the path as well as steep slopes towards Stanhope Road at the intersection.

The current land use is a local nature reserve and public walkway with grass, shrubbery and predominantly woodland, apart from where the trees have been cleared close to the bridge. Tree schedules, protection plans and surveys have been provided within the detailed arboricultural report supplied by the principal designer. The Parkland Walk users consist of moderate pedestrian and cycle traffic and Stanhope Road consists of light pedestrian traffic and moderate vehicular traffic, including a local bus route.

The site compound will be located within Channing School playing fields, adjacent to the Stanhope Road / Avenue Road junction, in close proximity to the bridge site. This area is comprised of a grass field with an edge of trees.

Considerations of surrounding environment

- Highway Environment
- Urban area
- Pedestrian traffic
- Interface with public rights of way
- Proximity to local schools & playgrounds
- Densely populated urban area
- Works adjacent to embankments and ditches.
- Working at height

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Construction Proposal

The Proposed Development will replace one of ten bridges along Parkland Walk – a Local Nature Reserve (LNR) as part of the HBC's efforts to upgrade several of the bridges along the length of the Walk and deliver safe, quality, and healthy places. This document, the project demolition environmental management plan (DEMP) will be concerned with the demolition aspects of the works and their effect on the environment and measure taken by the principal contractor and those under the contractor's control to minimise their effects to the environment in line with industry best practices and the Milestone minimum standards.

Other related documentation:

- Construction Management Plan
- Construction Phase Plan
- Construction Environmental Management Plan
- Construction Waste Management Plan

2. Context, Considerations and Challenges

Policy Context

This plan is and the works to be undertaken by Milestone on site will be in line with relevant regulatory requirements and policies. These include;

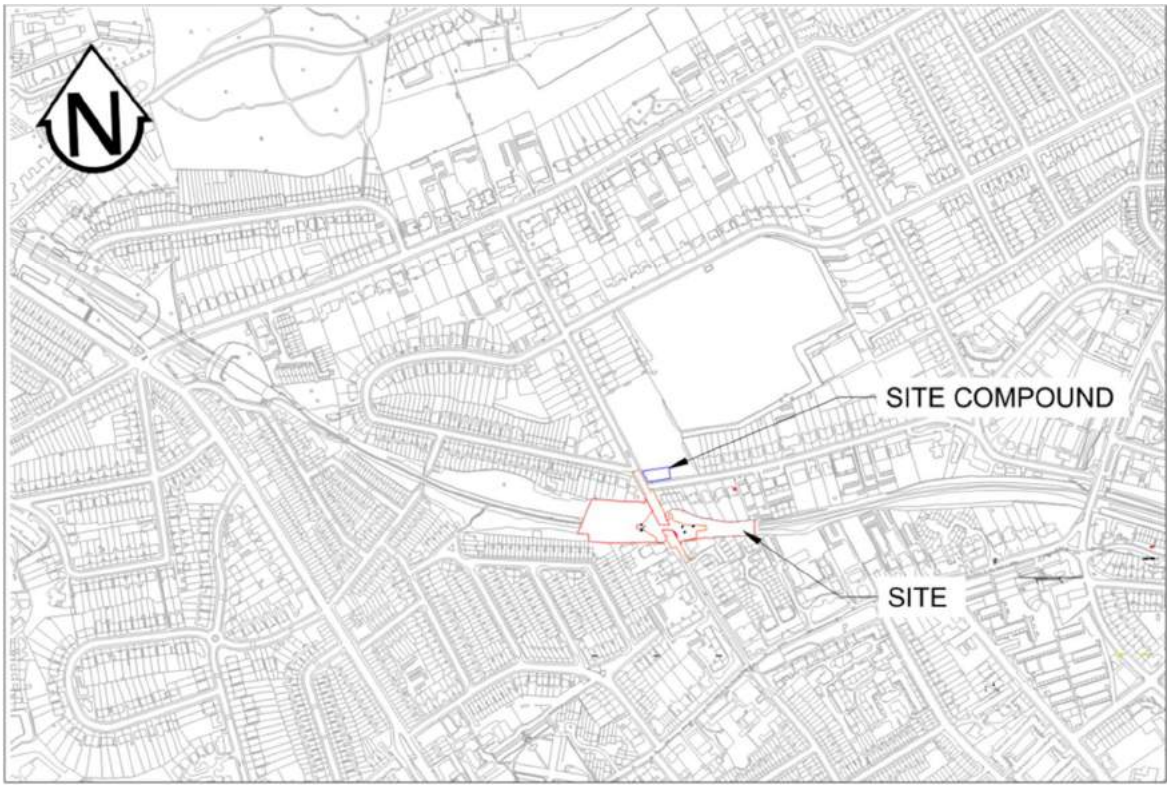
- Traffic Management Act (2004)
- Milestone Minimum Standards
- Local Council – LBH – Traffic Management requirements including Street works, traffic orders and temporary road closure requirements

Site location Plans

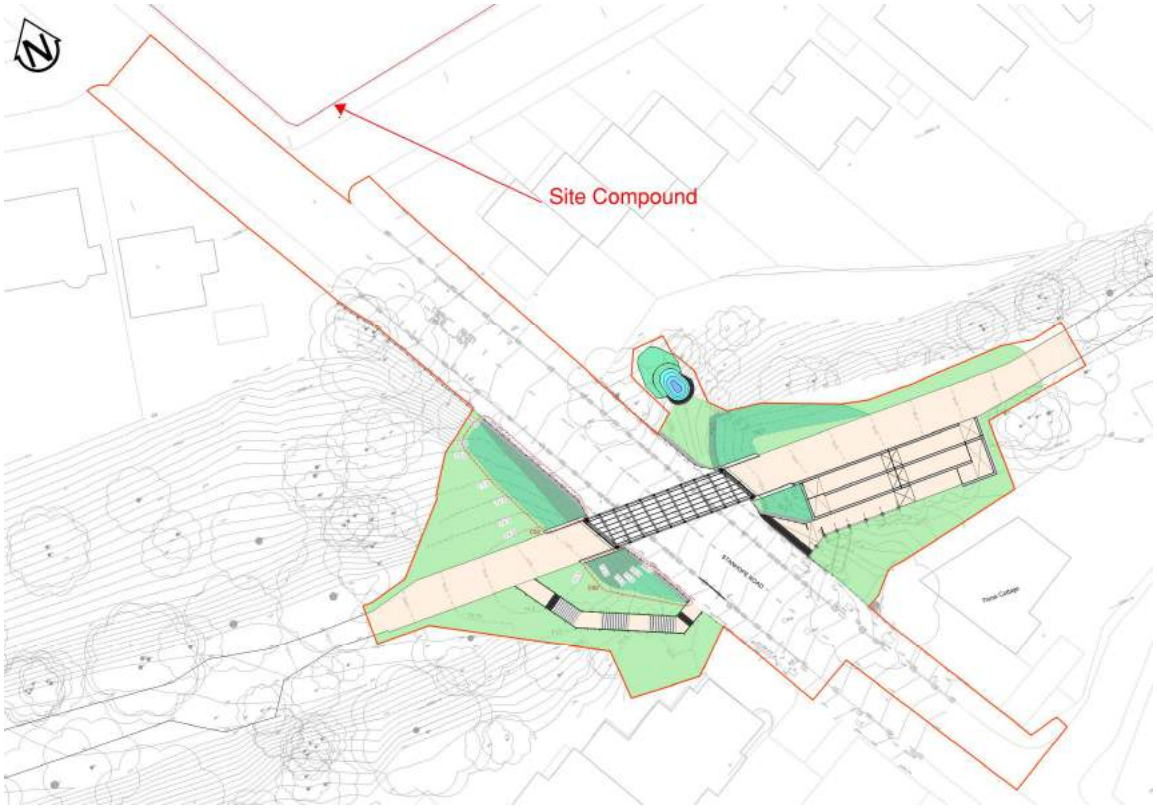
Regional Plan



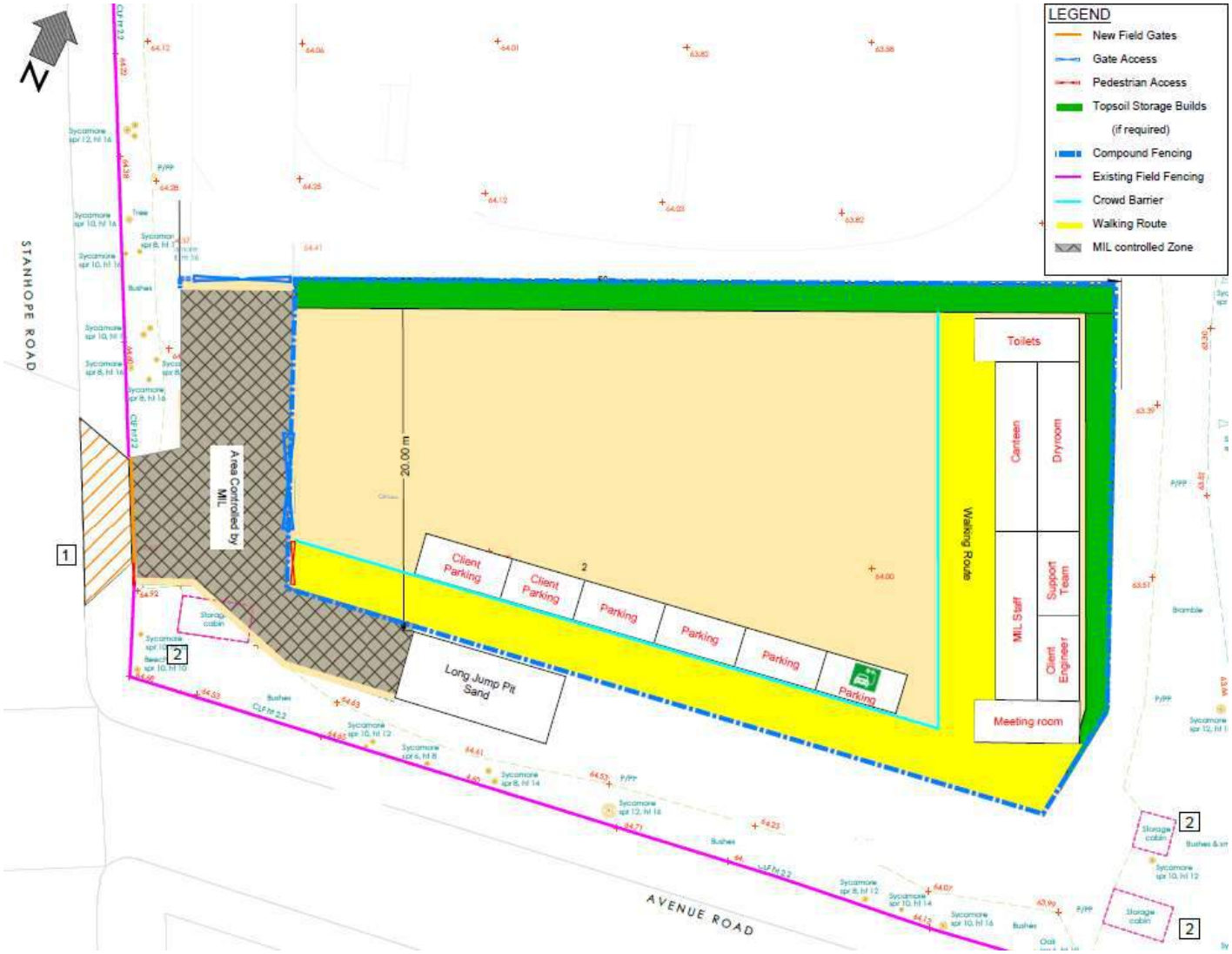
Local Context Plan



Site Boundary Plan

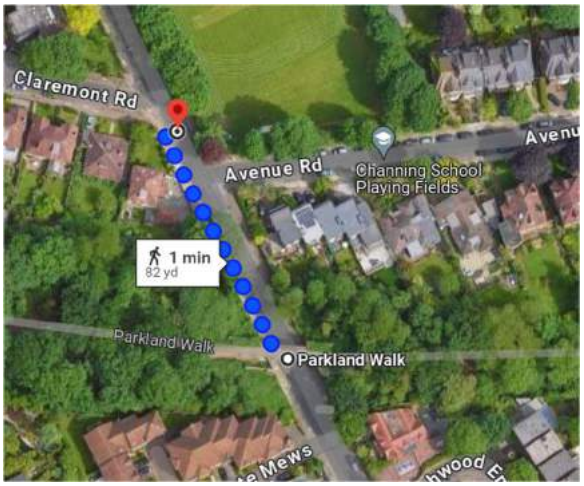


Compound Plan



local Access





Highways, carriageways, and footways

Stanhope Road is a two lane 20mph carriageway with footpaths either side of it. As part of the works, where Stanhope Road crosses under the parkland walk, as part of the works, there will be differing methods of traffic management in place affecting Stanhope Road.

The initial works will require a partial closure and will have a traffic-controlled lane closure in place with pedestrian re-routing and pedestrian crossings, with physical barriers in place between vehicle traffic and pedestrian traffic.

During the demolition and dismantling operations of the bridge deck and subsequent phases of lifting in and installation of the new bridge structure, there will be a full closure of Stanhope Road with a diversion route in place for vehicles and pedestrians. Such closures shall be kept to a minimum and disruption to local traffic minimised.

Railway / Underground

There are no railway or underground stations or lines that will be affected by these works or are adjacent to the works area.

Bus Routes

There is a active bus route running along Stanhope Road and will need to be diverted during the closure of the bridge. Good communication and engagement with the bus operators and locals utilising the bus route are critical for this diversion to have minimal affect.

Cycling

There are no official cycle routes within the works area. However, both Stanhope Road and the Parkland Walk are cycle friendly, which should be considered when implementing closures and traffic and pedestrian management.

Considerations and Challenges

The construction period of the project is approximately six months and as such, the impact of the activities on the local community, residents and businesses needs to be minimised, the key impacts, issues and challenges, from a logistical perspective, covered by this plan will include:

- Minimising the effect of diversions on the users of Stanhope Road and the Parkland Walk
- Pedestrians and cyclists, traffic management and vehicular access to site
- Site logistics and interfaces with other road users
- The need to effectively remove demolition arisings and excavated material from site
- The neighbouring buildings that will be affected by the works in relation to access.
- Residential properties adjacent to the works site
- Access routes for Stanhope Road and the Parkland Walk to be maintained
- Use of the local school field for the site compound and its effects on the locals
- Diversion routes to be set up and maintained for the duration of the Stanhope Road closures.
- Traffic controlled partial closures and their effects on local traffic and pedestrians.
- Pedestrian diversion routes for closures including Stanhope Road and the Parkland Walk
- The location of the site compound is within the Channing School grounds and school pupil should be considered.

3. Construction Programme and Phases

The project is broken down into five main phases of work as shown below. For further information on the phases, refer to the phasing plan drawings and works programme.

Works Phase	Project Description	Proposed Programme Date	Environmental focus areas
Phase 1	Site Establishment Env. Monitoring Stations to be set out. Surveys completed (Dilap, Demo, Utility, Env.) TM - Half- Road closure including signalise pedestrian crossing. De-vegetation of temporary footways Temporary walkway for Parkland walk diversion Erect site fencing Pedestrian crossing	26/02/24 – 10/05/24	Protection of reptiles and other protected species during vegetation clearance. Noise from tools impacting local environment Root Protection Areas retained at all times
Phase 2	6 Week full road closure – Demolition Temporary walkway for Parkland walk diversion Set up wheel-wash facility. Close footbridge Protection deck & bridge removal Demolish abutments. Topsoil strip & earthworks excavation Install piles. Excavate pond area. Construct access ramps	10/05/24 – 01/07/24	Noise from demolition impacting local environment Waste management including possible hazardous waste (soil and stones, bituminous waste containing coal tar) Unexpected finds Dust from demolition and ground works Spill and pollution from plant and vehicles Root Protection Areas retained at all times
Phase 3	Alter TM - Set-Up TM (2-way lights) - traffic through centre of road. Temporary walkway for Parkland walk diversion Abutment Construction Install piles & pilecap. Construct abutments Drainage & backfill. Reinforced earthworks (NW, NE & SW)	24/06/24 – 11/09/24	Noise from demolition impacting local environment Vibration from piling impacting local environment Dust from demolition and ground works Spill and pollution from plant and vehicles Root Protection Areas retained at all times
Phase 4	Permanent Access Alter TM - Set-Up TM (2-way lights) - traffic through centre of road. Temporary walkway for Parkland walk diversion Kingpost wall to be constructed. Drainage	12/08/24 – 29/10/24	Noise from demolition impacting local environment Vibration from piling impacting local environment Dust from demolition and ground works Spill and pollution from plant and vehicles

	Permanent steps and ramp Reinforced Earthworks (SE) Remove temporary access. Landscaping		Root Protection Areas retained at all times Landscaping completed at the correct time to ensure success
Phase 5	Full Road Closure Temporary walkway for Parkland walk diversion New Bridge and Finishes Install new bridge. Reconstruct footways. Reconstruct raised table. Surfacing Line-marking & finishes Demobilise and open road	15/10/24 – 28/10/24	Noise from demolition impacting local environment Vibration from piling impacting local environment Dust from demolition and ground works Spill and pollution from plant and vehicles Root Protection Areas retained at all times

See Appendix C for detailed phasing plan drawings.

Traffic Management

Traffic routes on site shall be clearly marked and restrict our vehicles to 15mph between site and compound or 5mph in congested sensitive areas throughout our site and will be segregated from all pedestrians with crossing points clearly marked. Pedestrian access routes shall be segregated from vehicles and plant by physical barriers. Walkways and crossing points shall be appropriately sign posted, illuminated, and kept clear of any slip/trip hazards.

Details of the site layout will be available on site and updated accordingly - this will show direction of traffic, turning points, holding areas, storage areas, pedestrian crossing points, etc.
Vehicles exiting site will be checked for excess mud and where necessary pass through the vehicle wheel wash or alternative measures such as jet washing shall be undertaken before leaving site.

For Stanhope Road traffic management plans, please refer to **Appendix E**

Site Logistics and Traffic Management Plan

The Site Logistics and Traffic Management Plan has been produced to detail the procedures and objectives of Milestone Infrastructure (MIL) within the Stanhope Road Bridge Replacement project, with the main aim being to reduce incidents, maximise efficiency and provide a proactive approach to site logistic management for the Project.

The Site Logistics Plan covers the following items:

- Traffic / pedestrian management,
- Delivery coordination, prioritising, and scheduling,
- Material storage and distribution,
- Managing waste,
- Management of keys.

Vehicles and Plant on site

- Where practical, one-way traffic routes will be established to reduce the need for reversing and the danger of head on collisions.
- Where two-way traffic and limited access cannot be avoided suitable passing points will be created

- Routes will be adequately lit, and sign posted.
- Vehicle routes will be designed to minimise gradients. Where significant gradients exist warning notices will be posted at head and foot.
- Traffic route surface will preferably be tarmac / concrete surface. At stages temporary concrete crushed roads may be established.
- A speed limit of 5mph will be established and displayed on site and compound and in all areas, which will be strictly observed and enforced throughout the duration of the project.
- Where appropriate restricted openings in structure, etc., will be identified and signed by suitable means, such as hazard strips on structure and height restriction boards.
- Wheel wash facilities will be provided as necessary to prevent the build-up of mud on public roads. Regular monitoring of the road conditions will be conducted and where necessary roads will be cleaned accordingly.
- Reverse parking policy is implemented across all projects.
- Vehicle and plant will be fitted with hazard warning lights, audible reverse warning sounder, and means of clear 360, vision for manoeuvres (i.e., CCTV, Mirrors, etc.,) and seat belts.
- Plant and vehicle must be accompanied by a banksman.
- Exclusion zones for plant will be implemented on site.
- Keys will be removed from all vehicles and plant when not in use.

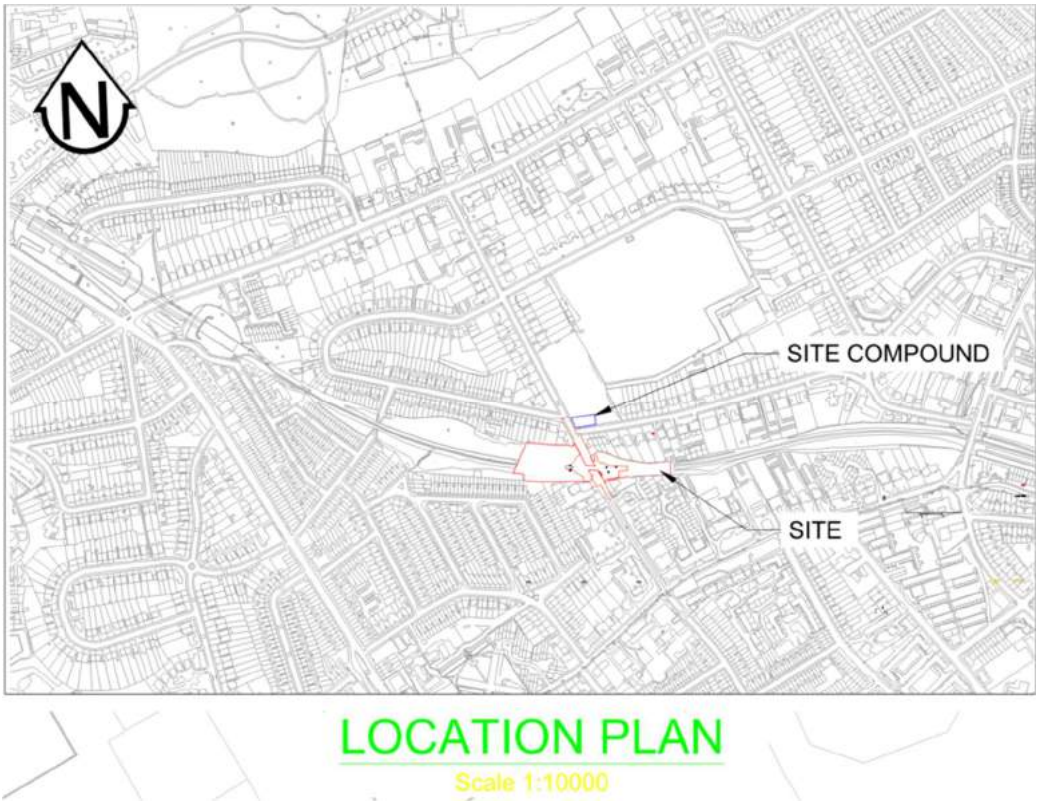
4. Vehicle Routing and Access

The map below shows the area around the development site. The proposed vehicle route to the site, considering local area constraints and road restrictions.

To minimise disruption and avoid additional strain on adjacent roads, our Procurement Manager together with our Construction Logistics Manager will liaise with all our supply chain companies to pre-arrange material and plant deliveries ensuring efficient off-loading to avoid traffic congestion.

A traffic marshal will ensure safe access and egress to and from the site. All staff and visitors will sign in and out for the duration of the project. This will ensure that no unauthorised persons will enter the site.

The Construction Logistics Manager will ensure the adjacent areas are kept clean and clear always and prevent nuisance parking by site personnel and visitors.



A traffic route that provides as little disruption as practicable to the projects neighbouring residents and businesses will be followed.

All site traffic will approach the site entrance from Stanhope Road via

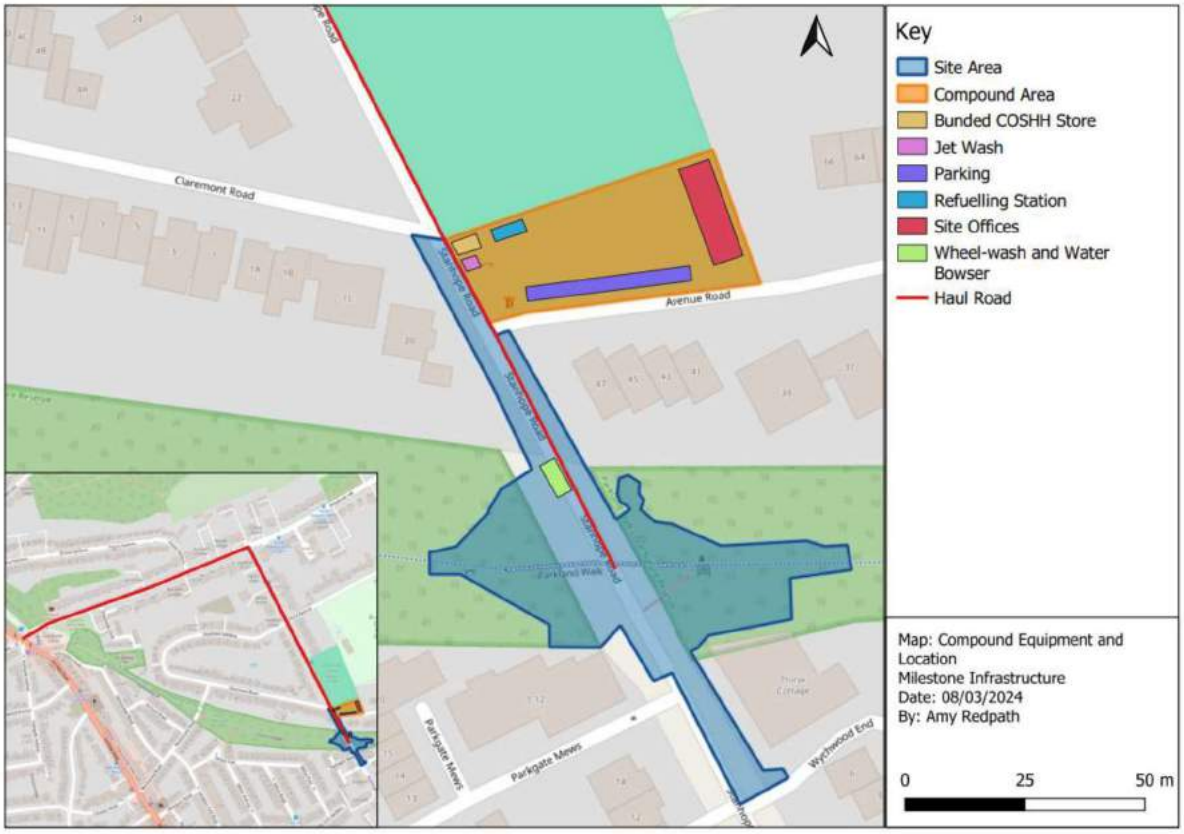
- A1 via Shepherds Hill
- Hornsey Ln/ Ashmount Rd

Traffic Marshalls from the Stanhope Road Bridge Replacement team will then guide the site traffic into the site and then into the relevant loading/ unloading area.

Site traffic emerging from the site, will do so under the supervision of MIL Traffic Marshalls, exiting onto Stanhope Road Street via one of the 2 routes below

- Shepherds Hill to re-joining the A1
- Hornsey Ln/ Ashmount Rd

The Haul route for the prefered route (A1 – Shepherds Hill – Stanhope Road route) is shown as below.



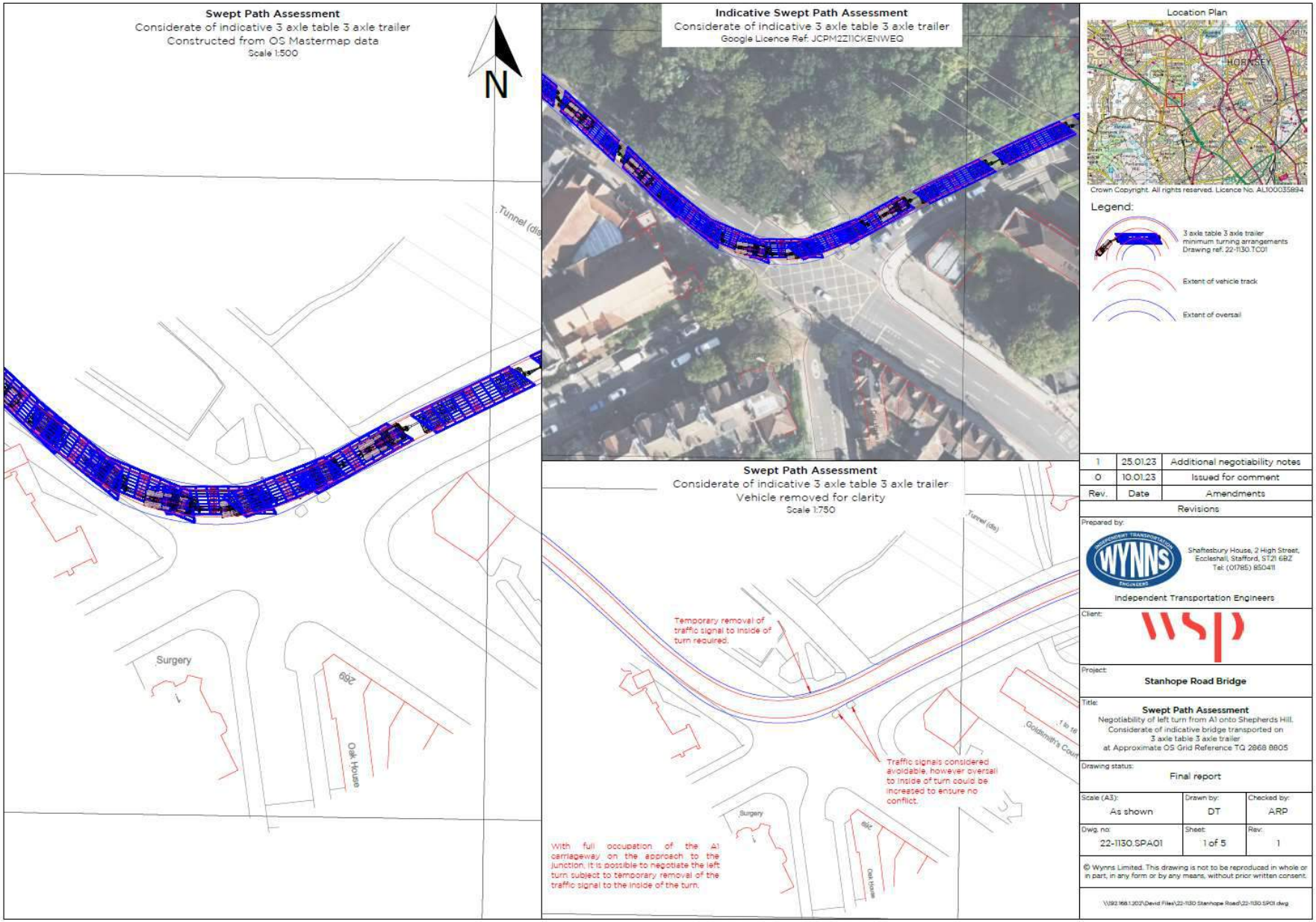
Further to this strategy and to further mitigate our impact upon the area our team will carry out the following:

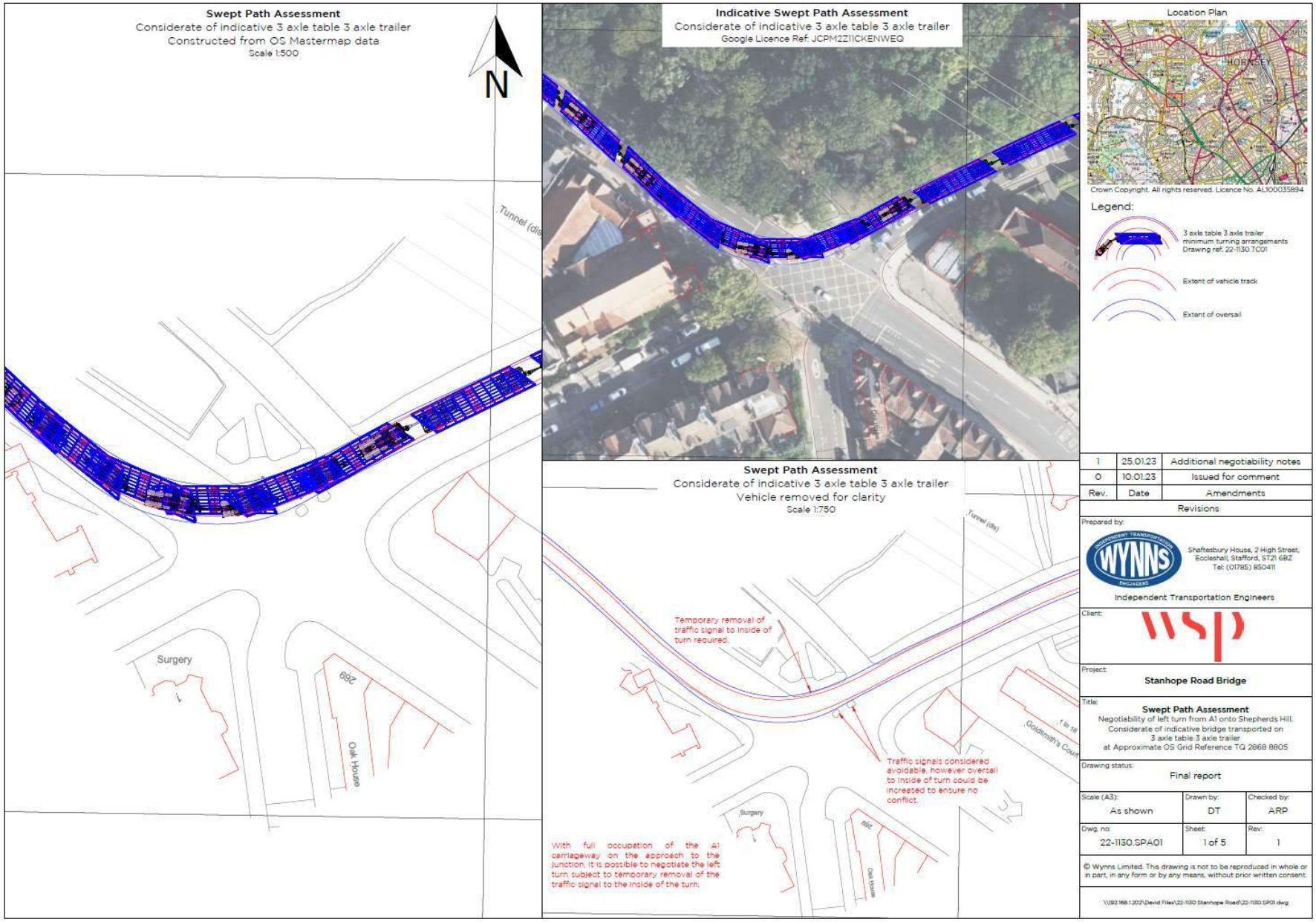
- The site based Construction Logistics Manager will be responsible for implementing the final Traffic Management Plan.
- MIL Traffic Marshalls to guide Site Traffic to and from site entrance.
- Construction Logistics Manager to coordinate deliveries to avoid peak traffic times. Also coordinate deliveries between subcontractors and suppliers to avoid increased traffic.
- Deliveries based on Just in Time requirements.
- Off-loading and on-loading of materials & plant to be undertaken within the site boundary.
- Ensure site entrance and surrounding areas are clean and debris free.
- Site boundaries fully secured.
- Site boundaries kept clean with professional appearance.

In terms of Parking, we acknowledge that the site is constrained in providing the required number of car parking spaces required for the site work force. A small number of spaces will be made available on site within the site compound for site management. Off-site parking for constructions crews will be utilised if required.

A route for the delivery of the bridge truss has been agreed with LB Haringey Network Management and has been subject to a ‘swept path analysis’ to ensure that it is suitable for delivery of the truss. The analysis is included within the next 5 pages ‘Wynns Drawings 22-1130.SP01 - Sht 1-5 & 22-1130.TC01’. The delivery route is to be via the A1 North, Shepherds Hill and Stanhope Road. LBH will make arrangements for the suspension of any parking and temporary removal of street furniture to permit delivery along this route.

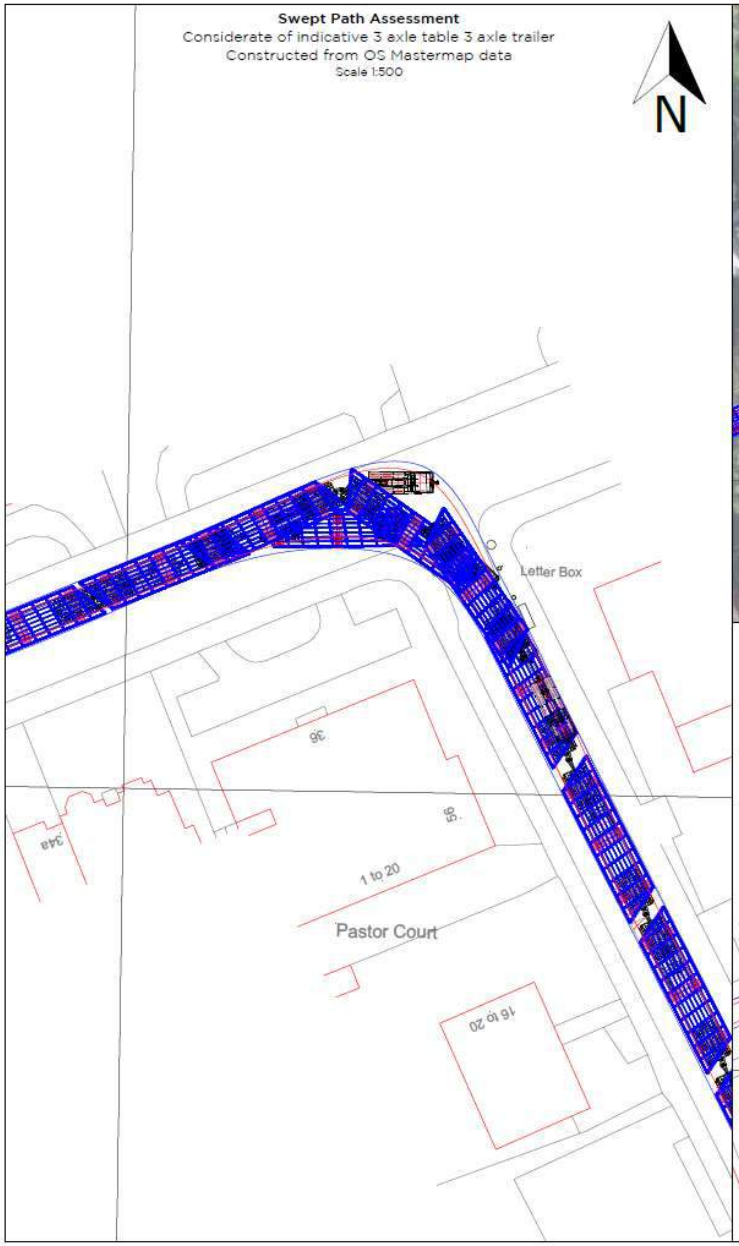
Delivering what we promise


Swept Path Assessment
Considerate of indicative 3 axle table 3 axle trailer
Constructed from OS Mastermap data
Scale 1:500
N
Surgery
692
Oak House
Indicative Swept Path Assessment
Considerate of indicative 3 axle table 3 axle trailer
Google Licence Ref: JCPM2ZI1CKENWEQ
Swept Path Assessment
Considerate of indicative 3 axle table 3 axle trailer
Vehicle removed for clarity
Scale 1:750
Temporary removal of traffic signal to inside of turn required.
Traffic signals considered avoidable, however overall to inside of turn could be increased to ensure no conflict.
With full occupation of the A1 carriageway on the approach to the junction, it is possible to negotiate the left turn subject to temporary removal of the traffic signal to the inside of the turn.
Location Plan
HORNSEY
Crown Copyright. All rights reserved. Licence No. AL100035894
Legend:
3 axle table 3 axle trailer minimum turning arrangements Drawing ref: 22-1130.TC01
Extent of vehicle track
Extent of oversail
1 | 25.01.23 | Additional negotiability notes
0 | 10.01.23 | Issued for comment
Rev. | Date | Amendments
Revisions
Prepared by:
WYNNS
Shaftesbury House, 2 High Street, Eccleshall, Stafford, ST21 6BZ
Tel: (01785) 850411
Independent Transportation Engineers
Client:
wsp
Project:
Stanhope Road Bridge
Title:
Swept Path Assessment
Negotiability of left turn from A1 onto Shepherds Hill.
Considerate of indicative bridge transported on
3 axle table 3 axle trailer
at Approximate OS Grid Reference TQ 2868 8805
Drawing status:
Final report
Scale (A3): As shown
Drawn by: DT
Checked by: ARP
Dwg. no: 22-1130.SPA01
Sheet: 1 of 5
Rev: 1
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Swept Path Assessment
Considerate of indicative 3 axle table 3 axle trailer
Constructed from OS Mastermap data
Scale 1:500
N
Surgery
692
Oak House
Indicative Swept Path Assessment
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Extent of vehicle track
Extent of oversail
1 25.01.23 Additional negotiability notes
0 10.01.23 Issued for comment
Rev. Date Amendments
Revisions
Prepared by:
WYNNs
Shaftesbury House, 2 High Street, Eccleshall, Stafford, ST21 6BZ
Tel: (01785) 850411
Independent Transportation Engineers
Client:
wsp
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Considerate of indicative bridge transported on
3 axle table 3 axle trailer
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Final report
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Rev: 1
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MILESTONE INFRASTRUCTURE
A part of MGroupServices

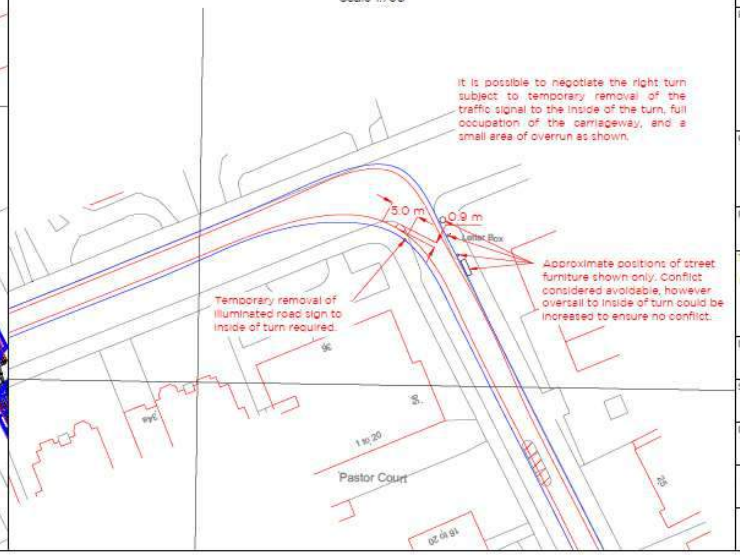
Swept Path Assessment
Considerate of indicative 3 axle table 3 axle trailer
Constructed from OS Mastermap data
Scale 1:500



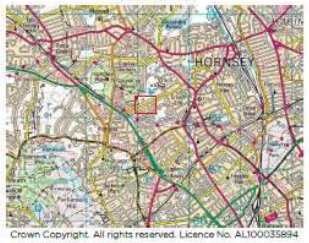
Indicative Swept Path Assessment
Considerate of indicative 3 axle table 3 axle trailer
Google Licence Ref: JCPM2Z11CKENWEQ



Swept Path Assessment
Considerate of indicative 3 axle table 3 axle trailer
Vehicle removed for clarity
Scale 1:750

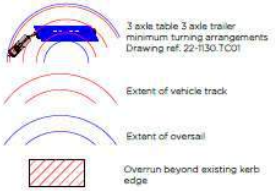


Location Plan



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Legend:



Rev.	Date	Amendments
1	25.01.23	Additional negotiability notes
0	10.01.23	Issued for comment

Revisions

Prepared by:
WYNNS INDEPENDENT TRANSPORTATION ENGINEERS
Shaftesbury House, 2 High Street, Eccleshall, Stafford, ST21 6BZ
Tel: (01785) 850411
Independent Transportation Engineers

Client: wsp

Project: **Stanhope Road Bridge**

Title: **Swept Path Assessment**
Negotiability of right turn from Shepherds Hill onto Stanhope Road. Considerate of indicative bridge transported on 3 axle table 3 axle trailer at Approximate OS Grid Reference TQ 2914 8824

Drawing status: Final report

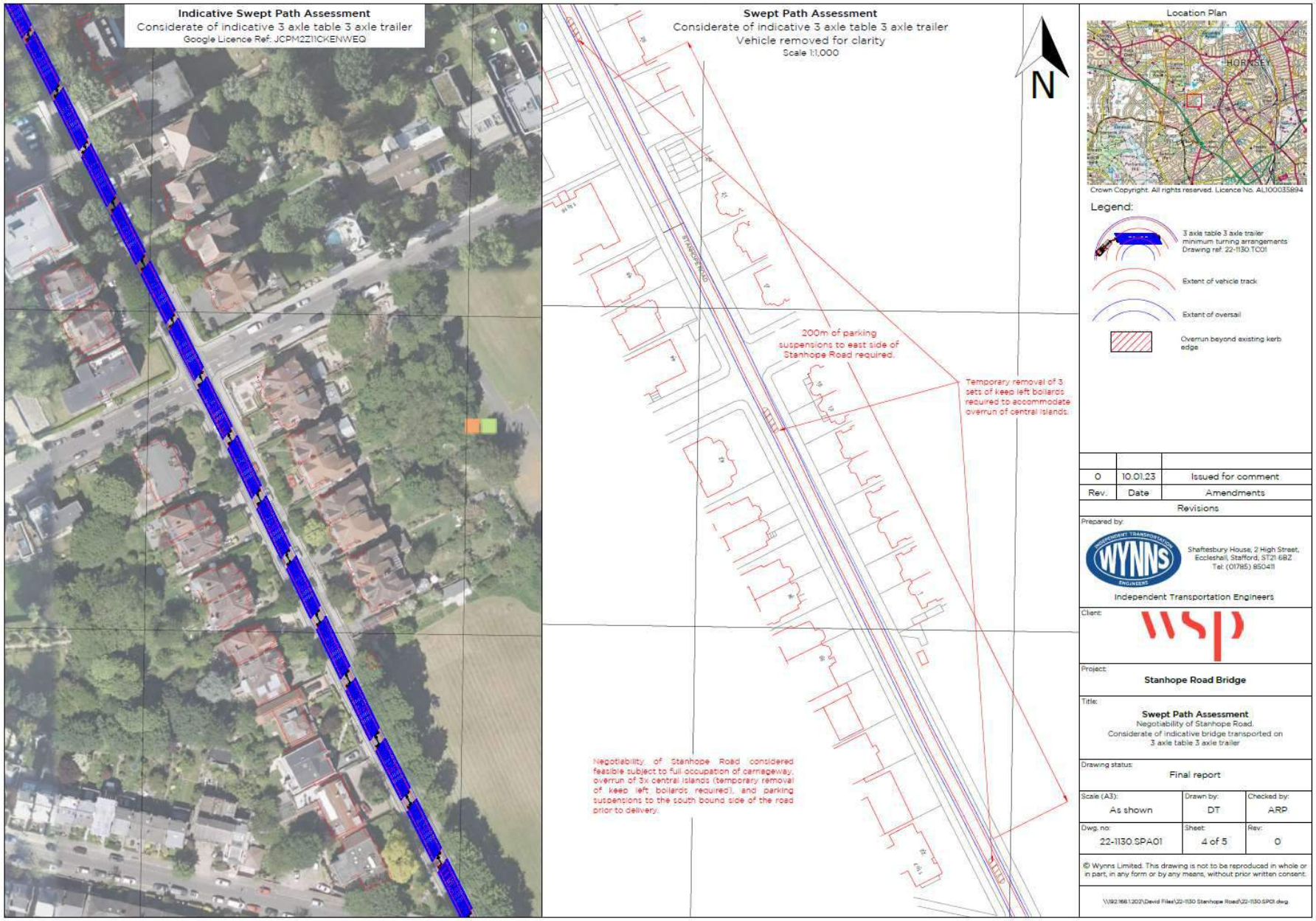
Scale (A3):	Drawn by:	Checked by:
As shown	DT	ARP

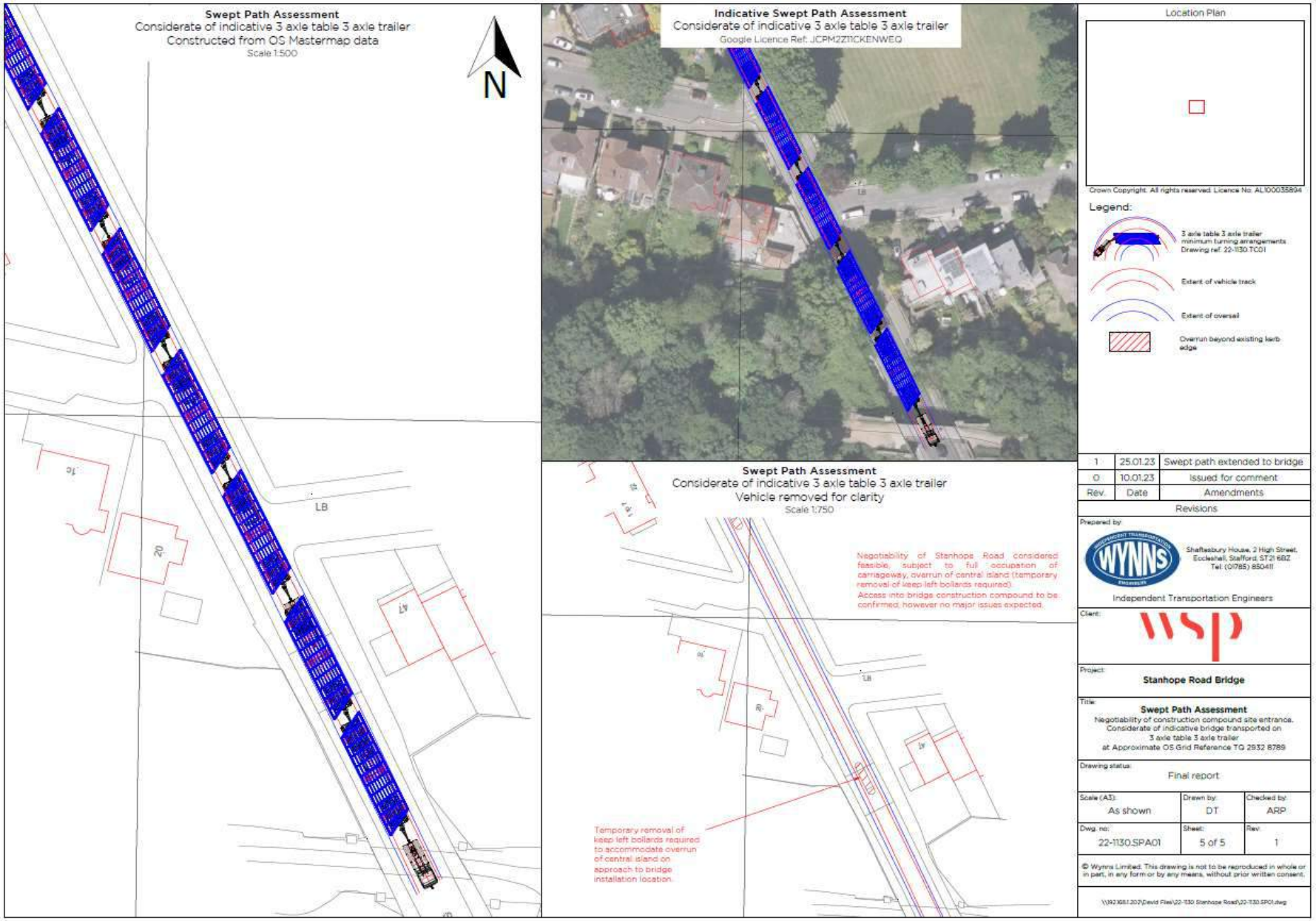
Dwg. no:	Sheet:	Rev:
22-1130.SPA01	3 of 5	1

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MILESTONE INFRASTRUCTURE
A part of MGroupServices




Swept Path Assessment
Considerate of indicative 3 axle table 3 axle trailer
Constructed from OS Mastermap data
Scale 1:500
N
LB
Indicative Swept Path Assessment
Considerate of indicative 3 axle table 3 axle trailer
Google Licence Ref: JCPM2ZTICKENWEQ
Swept Path Assessment
Considerate of indicative 3 axle table 3 axle trailer
Vehicle removed for clarity
Scale 1:750
Negotiability of Stanhope Road considered feasible, subject to full occupation of carriageway, overrun of central island (temporary removal of keep left bollards required).
Access into bridge construction compound to be confirmed, however no major issues expected.
Temporary removal of keep left bollards required to accommodate overrun of central island on approach to bridge installation location.
Location Plan
Crown Copyright. All rights reserved. Licence No: AL100035894
Legend:
3 axle table 3 axle trailer minimum turning arrangements Drawing ref: 22-1130.TC01
Extent of vehicle track
Extent of oversail
Overrun beyond existing kerb edge
1 25.01.23 Swept path extended to bridge
0 10.01.23 Issued for comment
Rev. Date Amendments
Revisions
Prepared by:
WYNNs
Shaftesbury House, 2 High Street, Eccleshall, Stafford, ST21 6BZ
Tel: (01785) 850411
Independent Transportation Engineers
Client:
wsp
Project:
Stanhope Road Bridge
Title:
Swept Path Assessment
Negotiability of construction compound site entrance.
Considerate of indicative bridge transported on
3 axle table 3 axle trailer
at Approximate OS Grid Reference TQ 2932 8789
Drawing status:
Final report
Scale (A3): As shown
Drawn by: DT
Checked by: ARP
Dwg. no: 22-1130.SPA01
Sheet: 5 of 5
Rev: 1
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Site Plan


DO NOT SCALE
NOTES
1. Site Establishment
2. Env. Monitoring Stations
3. Surveys (Dilap, Demo, Utility, Env.)
4. TM - Half-road closure & Ped.Crossing
5. De-vegetation
6. Temp Walkways
7. Site Fencing
Temporary walking route
Half Road Closure
Toilet Cottage
Controlled Crossing
PLAN
FOR CONSTRUCTION
wsp
LONDON BOROUGH OF HARINGEY
STANHOPE ROAD BRIDGE
Phase 1 - Site Establishment
70085596-WSP-SBR-DR-BR-0000
C01
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5. Strategies to reduce impacts

The following Planned Measures have been identified to achieve the goals of the Construction Logistics Plan.

Medium Impact Site Planned Measures checklist	Committed	Proposed	Considered
Measures Influencing construction vehicles and deliveries			
• Safety and environmental standards and programmes	X		
• Adherence to designated routes	X		
• Delivery scheduling	X		
• Re-timing for out-of-peak deliveries		x	
• Re-timing for out-of-hours deliveries			X
• Use of holding areas and vehicle call-off areas			X
• Use of logistics and consolidation centres			X
Measure to encourage sustainable freight			
• Freight by water			X
• Freight by rail			X
Material procurement measures			
• DfMA and off-site manufacture	X		
• Re-use material on site	X		
• Smart procurement		X	
Other Measures			
• Collaboration amongst other sites in area			X
• Implement a staff travel plan		X	

Safety and environmental programmes

We are committed to ensuring all sub-contractor vehicles arriving at site comply with sufficient safety measures and requirements relating to Work Related Road Risk. It is a requirement for all vehicles and driver management practices to comply with the FORS and Community Safety (CLOCS). FORS Bronze, with progression to Silver within 90 days, will need to be confirmed by all sub-contracted transport/haulage providers that the Contractor intends to use. An up-to-date list of trained companies and drivers is available at www.fors-online.org.uk.

A collision reporting system will be mandated to ensure all collisions and accidents involving the projects' vehicle and drivers are reported to the Project Manager and any relevant parties. The 'FORS Manager' reporting tool will be used; www.fors-online.org.uk

All contractors, sub-contractors and their plant and vehicles will adhere to the following standards and programmes

- FORS – Fleet Operators Registration Scheme – all MGroup and Milestone fleet operates at a minimum of FORS Silver
- CLOCS – Construction logistics and community safety – registered with the scheme and committed to the mission and primary goals – Zero collisions, improved air quality, fewer vehicle journeys and reduced reputational risk.
- CCS – Considerate constructors scheme – committed to limit construction impact to environment and local residents

Adherence to designated routes

The routes to/from the Transport for London Road Network and Strategic Road Network are specified. These access routes have been reviewed with respect to potential impacts, conflicts, and hazards. Junctions and parts of the routes of potential concern have been identified in terms of coming into conflict with other road users, with attention paid to pedestrians and cyclists around access to work sites.

A copy of the route plan will be given to all suppliers when orders are placed to ensure drivers are fully briefed on the required route to take. The supplier will be made aware that these routes are required to be followed always unless agreed or alternate diversions are in place.

- Supply chain will be issues with a delivery leaflet, which will outline site drop-off locations, traffic management in place and site delivery rules.
- Driver induction sent to supply chain prior commencement of site activities.
- Banksman will be in place to control vehicle routing on site.
- Clear signage in place showing designated routes and drop-off locations.

Delivery Scheduling

A site-based delivery management system will be used to control the volume of deliveries to site. This system will work by defining the number of 'resources' a site has and thus can service in a 60-minute interval.

Sub-contractors and hauliers must be booked in a minimum of 48-hours in advance to allow the request to be reviewed and subsequently approved/declined by the site-based Construction Logistics Manager.

Re-timing for out of peak deliveries

Re-timing out of peak time will aid the operational efficiency of the construction site and the neighbouring area. We, Milestone Infrastructure will commit to attempting to re-time as many deliveries as possible out of the morning peak (07.00-09.00) and during school term school collection (15:00-16:00). Deliveries will be arranged as standard between the hours of 09.00-15.00 to avoid peak travel periods.

- Amount of varying delivery and collection entities to be used is to be minimised to make scheduling of delivery manageable.
- Limit number of vehicles allocated to arrive to site per hour.
- Create schedule for high volume days.
- Ensure schedule is distributed to supply chain.
- Supply chain will be instructed to an out-of-peak time delivery and collection requirements specifically school times during term time.

Off-site Manufacture

Design for Manufacture and Assembly and off-site manufacture

Reducing delivery numbers and effective delivery management is a core value of this project. We have identified many new elements that can be manufactured off-site reducing the number of deliveries associated with manufacturing onsite, namely reduction in plant and material deliveries.

- Reduce impact of handling and storing materials on site
- Allows greater control of manufacturing processes to ensure higher quality end product.
- The Bridge structure to be manufactured off-site and delivered on a one-time abnormal load
- Traffic management and escort to be in place.
- On-site planning and preparation completed to aid in the efficient delivery and installation of bridge structure.

Re-use of material on site

Several measures will be explored to re-use materials on site as per the list below. These are proposed in order to recycle material to decrease environmental impacts and to reduce the number of vehicles required to deliver to site. Stanhope Road Bridge Replacement.

- Top-soil stripped from the existing landscape will be stockpiles in the site compound for later re-use, reducing double handling of topsoil – removal from site and delivery of new material.
- Existing highway boundary fencing to be repaired and reused on site/

MIL will source materials from local suppliers to contribute to the local economy.

Other measures

Implement a staff travel plan

There will be limited on-site parking provided for construction worker's vehicles. Staff will be strongly encouraged to use public transport as there are excellent transport links nearby at Highgate Station, together with available bus routes.

- Staff travel plan in place encouraging staff to car-pool where possible.
- Company policy and procedures incentivise car-pooling.
- Cycle to work scheme in place encouraging staff to cycle to work.

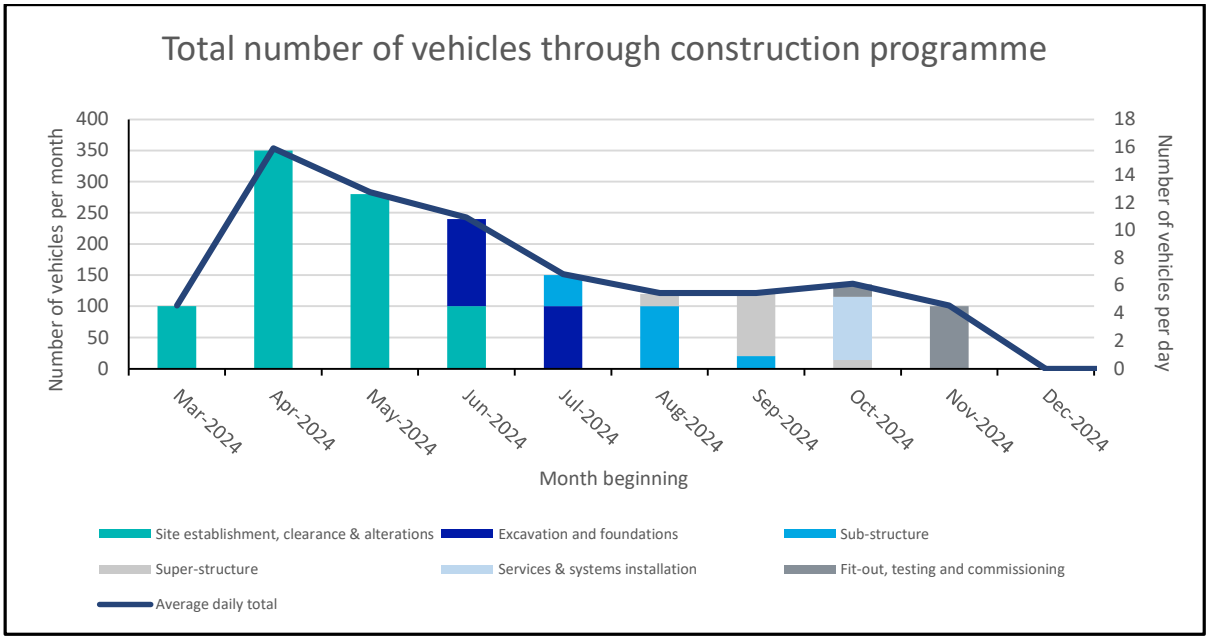
6. Estimated Vehicle Movements

The programme of construction for Stanhope Road Bridge has been developed with input from the specialist contractors that will be employed to carry out the works. Construction is expected to last for 35 weeks and is scheduled to begin in March 2024. The building will be completed and ready for public use in October 2024. The below provide a high-level breakdown of the program by the key construction stages with a detailed construction programme contained in Appendix B.

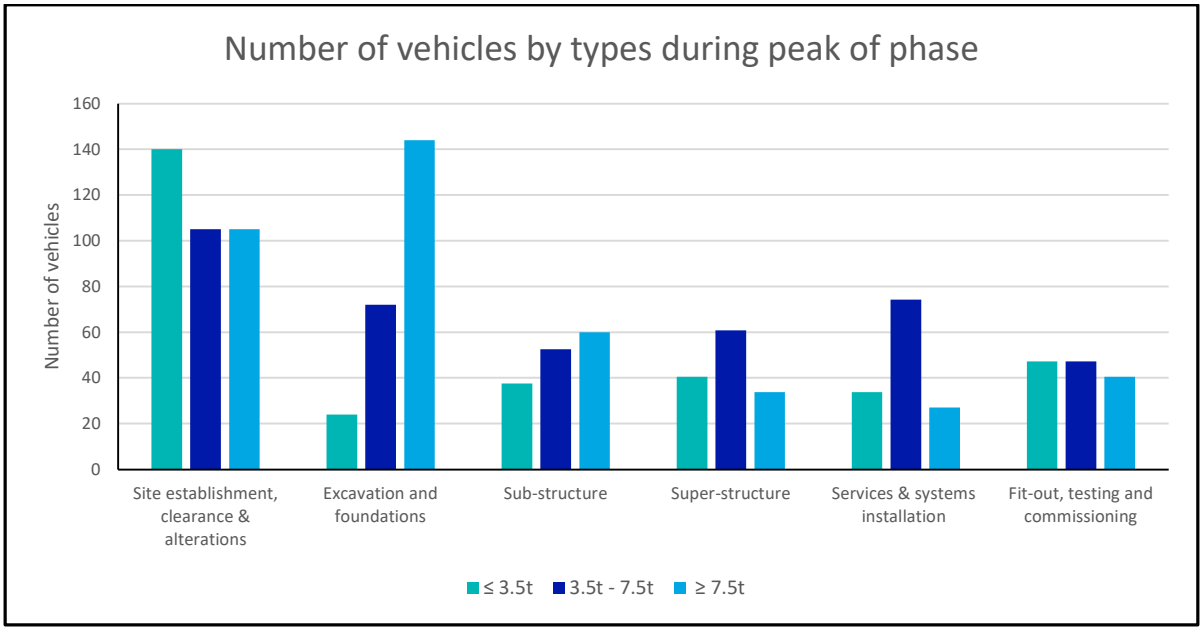
ESTIMATED CONSTRUCTION VEHICLES – MONTHLY AND DAILY

Construction phase	Start	End
Site establishment, clearance & alterations	Mar-2024	Jun-2024
Excavation and foundations	Jun-2024	Jul-2024
Sub-structure	Jul-2024	Sep-2024
Super-structure	Aug-2024	Oct-2024
Services & systems installation	Oct-2024	Oct-2024
Fit-out, testing and commissioning	Oct-2024	Nov-2024

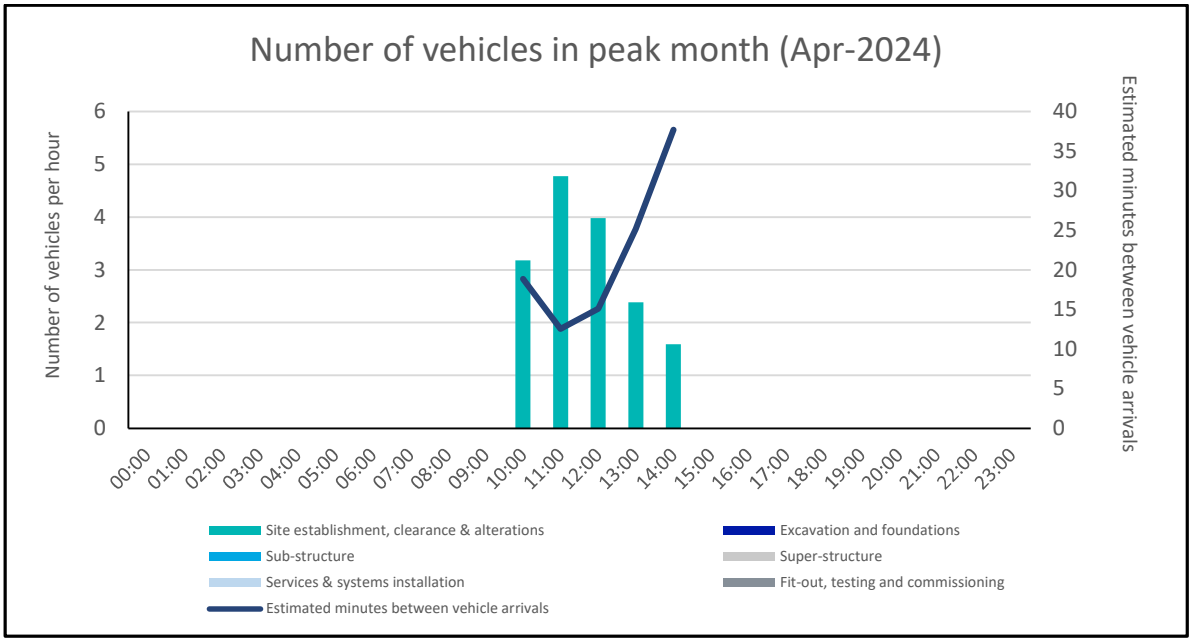
ESTIMATED CONSTRUCTION VEHICLES – MONTHLY AND DAILY



NUMBER AND VEHICLE TYPE BY PHASE OF CONSTRUCTION



HOURLY ARRIVAL PROFILE OF VEHICLES DURING PEAK



7. Implementing, monitoring, and updating

The CLP will be implemented by the site project team and monitored to ensure control measures are adhered to. Supply chain and other partners will be notified of measures to be in place and adhered to during pre-start meetings prior to works on site commencing.

The following strategy can be confirmed for the implementation, monitoring of this Construction Logistics Plan.

- Number of vehicle movements to site
  - Total per day/week/month
  - Vehicle type
  - Vehicle size
  - Vehicle age
  - Time spent on site
  - Delivery/collection accuracy compared to schedule
  - Supplier FORS accreditation.
  - Unplanned vehicles.
  - Low Emissions Zone compliance.

- Breaches and complaints
  - Vehicle route taken.
  - Unacceptable queuing.
  - Unacceptable parking.
- Safety
  - Logistics-related accidents.
  - Record of associated fatalities and serious injuries.
  - Ways staff are travelling to site.
  - Vehicles and operations not meeting safety requirements.

The data collected with records will be held onsite.