

# PRACTICE NOTE 4

# **INSPECTION PLAN**

- 1. The primary reference in relation to Inspection Plans is the Code of Practice for Inspecting and Certifying Buildings and Works, current at the time the Inspection Plan is being prepared. The Assigned Certifier and other persons nominated to undertake necessary inspections should adopt an appropriate Inspection Plan which takes full account of relevant factors for the building work concerned. Ancillary Certifiers should notify the Assigned Certifier of their proposed inspection regime for inclusion in the Overall Inspection Plan, subject to the appropriate professional judgement and risk assessment.
- 2. The Assigned Certifier should, as part of the Inspection Plan and before the commencement of work on site, agree with the Building Owner and Builder an Inspection Notification Framework (INF).
- 3. As an example for Ancillary Certifiers, a **Template for Targeted Inspections** for Civil and Structural Works, which would be part of an INF, is attached. This should be produced for **Tender Purposes**, where appropriate, to identify generally **the stages or items of work** that the Consultant wishes to be notified of, as and when they are ready for inspection. The actual number of inspections required for each Work Stage element is dependent upon the Builder's Programme, and on the Importance of the Element, the Builder, the Site and the Size and Complexity of the Structure.
- 4. Multiple inspections may be necessary for each element of the Work Stages listed in the template for Targeted Inspections.
- 5. On receipt of the Builder's Programme, the **Preliminary Inspection Plan**, produced by the Assigned Certifier in conjunction with the Design Professionals, will be filled in taking into account the construction programme for the works. The Preliminary Inspection Plan will be issued for inclusion with the **Commencement Notice**.







- The Inspection Plan is a live document and is updated on an on-going basis during construction, to reflect the actual conditions and Builder's performance. Two further copies are included to illustrate stages of this development for an individual Ancillary Certifier.
- 7. Sample Record Sheets for recording inspections and for notifying the Builder of issues identified during inspections are also attached.
- 8. It is critical that Inspection Plans are developed using professional skill and judgement, taking full account of relevant factors applicable to the particular Discipline and Project (Risk Assessment).
- 9. The provision of any guidance contained in this Practice Note, concerning the use of a particular inspection framework or approach, should not be construed as prohibiting the use of other suitable frameworks or approaches.
- 10. An example of an Inspection Template for a Detached Non-Complex Dwelling House is included in Table C.1 of the Code of Practice [Sept 2016].

August 2017









Inspection F	Report	Job No:	
Inspection By:			
Date and Time:			
Project:			
People/Involved/Present:			
List of Items Inspected			
Comments			
Number of Targeted Insp	ections Covered during th	nis Site Visit:	









Non Compliance Report		Job No:				
		NCR No:				
Issued By:						
Date of Inspection:						
Project:						
NCR Issued to:	Main Contractor -					
NCR Copied to:	Assigned Certifier -					
By:						
Provide description of N	on Compliance Items/Works w	vith Reference	to Drawings and/or Specification			
Response By Contracto	r					
Provide description of C	orrective Actions Taken to Res	solve Non Com	pliance Items/Works noted above with			
reference to record phot	ographs, test report etc.					
Signed by Contractor:		Date <sup>.</sup>				
Signed by Contractor.		Dale.				

#### XXXXXXXXXXX - TEMPLATE FOR TARGETED INSPECTION FOR CIVIL & STRUCTURAL WORKS (ISSUED FOR TENDER PURPOSES ONLY)

Overall Total

- Notes on Template for Targeted Inspections:
   This Template is produced for Tender Purposes to identify generally the stages or items of work that XXXXXXXX wish to be notified of, as and when they are ready for inspection. The actual number of inspections required for each Work Stage element is dependent upon the Contractors Programme and Factors A, B, C & D listed in the Inspection Matrix below.
   On receipt of the Contractors Programme, the Preliminary Inspection Plan will be filled in, taking accound of the Construction Programme for the works. The Preliminary Inspection Plan will be issued for inclusion with the commencement notice. The inspection plan is a live document and is updated on an on-going basis during construction, to refet the actual conditions and contractor performance.
   In accordance with the Code of Pactice for Inspecting and Certifying Buildings and Works, the Inspection Notification Framework must be agreed with the Building Owner and the Builder before Commencement of the works on-site.
   Whilling inspections may be necessary for each along to the Will be for t

- Multiple inspections may be necessary for each element of the Work Stages listed below. The Contractor's tender price must include for facilitating all necessary inspections by XXXXXXXXXXX

		SAMPLE INSPECTION MATRIX (TO BE BASED ON THE CODE OF PRACTICE AND PROFESSIONAL JUDGEMENT)			
		A	В	с	D
		Importance of Element - Note 1	The Contractor - Note 2	The Site	Size andComplexity of Structure - Note 3
		- How Critical is Element	- Expertise of Contractor	- Difficult Ground Conditions	- Size of Project
		- How Often Repeated	- Previous Experience with Contracto	- Contamination	- Unconventional Construction
		Complex or Unusual     Possibility of Later Inspection	- Performance to Date	- Brown Field Site	- Speed of Construction
		Consequence of Contravention			-
Work Stages	s as per Contractors Programme				
oundations					
	Formation Trench Fill Pour below pads on GL A				
	Reinforcement Concrete Pour				
und Slab					
	Formation				
	Imported Fill incl. on-site testing Reinforcement				
	Concrete Pour				
sing Elements					
Grnd Floor incl. stub	- Reinforcement				
posed Concrete	- Tanking to Lift Pits				
nd - 1st	- Reinforcement - Concrete Pour				
-2nd	- Finish** - Reinforcement				
	- Concrete Pour - Finish**				
d-3rd	- Reinforcement - Concrete Pour				
-Roof	- Finish** - Reinforcement				
	- Concrete Pour - Finish**				
f to Top of Plantroom	- Reinforcement - Concrete Pour				
	- Finish**				
inag list created to recor	rd surface defects				
spended Slabs and Roof	1				
	- Reinforcement incl. Punching Shear Rein. - Pour				
d	Reinforcement incl. Punching Shear Rein.     Pour				
1	Reinforcement incl. Punching Shear Rein.     Pour				
of	- Reinforcement - Pour				
antroom	- Reinforcement - Pour				
ant Screen Steelwork	- Installation of Stoolwook				
	- Grouting of Baseplates				
SB Substation and Switch	chroom				
Junitation and Switch	- Foundations	•			
	- Block Walls - Concrete Roof Slab				
fain Drainage & Waterm	aain/Firemain				
ewers & Mains	- Prior to backfilling				
lanholes & Chambers	- Backfilling/Reinstatement				
esting	- Structure & Benching				
toads, Car Parks & Pavee	d Areas				
	- Formation - Build-Up				
	- Kerbs, Gullies, Markings				
nagging					
ivil spaging (to	taged bandover)				
tructural snagging	up-u imiRUVEI /				
	Each tatab				

## XXXXXXXXXXX · TARGETED INSPECTION FOR CIVIL & STRUCTURAL WORKS · CONSTRUCTION STAGE

		SAMPLE INSPECTION MATRIX (TO BE BASED ON THE CODE OF PRACTICE AND PROFESSIONAL JUDGEMENT)			Notes:			
		A	В	с	D		If an element is important because it is complex or will be repeated/through a significant part of the building then that element must beinspected during the early construction so as to form a view of the contractor's ability to carry out the particular task.	course of
		Importance of Element -	The Contractor - Note 2	The Site	Size andComplexity of	2	Early assessment of the contractor's ability to carry out the workis essential in estimating the number of sample inspections	
		- How Critical is Element	- Expertise of Contractor	- Difficult Ground Conditions	- Size of Project	This matrix should be expanded to reflect the scale and complexity of the project and the contractor's programme     Horis inspection regime must beappropriate and must be kept under reviewas the project proceeds.		
		- How Often Repeated	- Previous Experience with Contracto	- Contamination	- Unconventional Construction	5	The timing of inspections must correspond with the work being undertaken on site.	
		- Complex or Unusual	- Performance to Date	- Brown Field Site	- Speed of Construction	6	The Engineer should normally expect to carry outmannounced inspections.	
		- Possibility of Later Inspection	-		-	7	Follow-up procedures are essential to ensure that non-compliance issues identified during inspections are resolved.	
		- Consequence of Contravention				8	The Engineer should indicate in his Inspection Planthe tests that he wishes to monitor periodically.	
Work Sta	ges as per Contractors Programme	-	*****			9 Records of inspections must be maintained, sufficient to identify the work inspected and any non-compliance issues noted.		
Foundations							Dates of Inspections	Total
	Formation	1	-	2				
	Trench Fill Pour below pads on GL A Reinforcement	1		- n/a				
	Concrete Pour for Foundations	1	-	n/a	•			
Ground Slab								
	Formation	1	-	1	-			
	Imported Fill incl. on-site testing Reinforcement	1	-	n/a	- -			
	Concrete Pour for Ground Slab	1	-	n'a				
Rising Elements								
To Grnd Floor incl. stub cols	- Reinforcement	1	-	nía				
and edge beams	- Tanking to Lift Pits	1	-	n/a				
Walls & Columns Grnd - 1st	- Reinforcement	1	-	n'a	-			
1st-2nd 2nd-3rd	- Reinforcement	1	-	n/a n/a	-			
3rd-Roof Roof to Top of Plantroom	Reinforcement     Reinforcement	1		n/a n/a				
	Concrete Pour for Rising Elements	1	-	n/a	•			
Suspended Slabs and Roof								
lst	- Reinforcement incl. Punching Shear Rein.	1	-	n'a	-			
2nd 3rd	Reinforcement incl. Punching Shear Rein.     Reinforcement incl. Punching Shear Rein.	1		n's n's				
Roof Plantroom	Reinforcement     Reinforcement	1	-	n'a n'a				
	Concrete Pour for Suspended Slabs	1	-	n'a	-			
Plant Screen Steelwork								
	- Installation of Steelwork	1	-	n/a	-			
ESB Substation and Switch	oom							
	- Foundations - Block Walls	1	-	- n/a				
	- Concrete Roof Slab	1	-	n/a	-			
Main Drainage			*****					
Sewers & Mains								
	<ul> <li>Prior to backfilling</li> <li>Backfilling/Reinstatement</li> </ul>	1	•	n/a n/a	· · · · · · · · · · · · · · · · · · ·			
Manholes & Chambers	- Structure & Benching	1	-	n/a	-			
resultg		1	-	n/a	-	1		
Roads, Car Parks & Paved .	Areas							
	- Formation - Build-Up	1	-	- n/a				
	- Kerbs, Gullies, Markings	1	-	n/a				
Foundations of Link Buildi	ng					1		
	Formation	1	-	-	-			
	Reinforcement Concrete Pour for Foundations	1	-	n/a n/a	-			
Ground Slab of Link Buildi	ng							
	Formation Imported Fill incl. on-site testing	1	-	-	-			
	Reinforcement Concrete Pour for Ground Slab	1	-	n/a n/a	-			
Rising Elements of Link Bui	lding							
To Grnd Floor incl. stub cols and edge beams	- Reinforcement	1	-	n/a n/a				
Concrete Rising Walls		1	-	n/a	-			
Roof Slab of Link Building			*****					
Roof Slab	- Reinforcement	1	-	n/a	-			
Snagging						1		
Civil snagging (to reflect stag	ed handover)	1		n/a		1		
Structural snagging	× • · ·	1	-	n/s				
	Sub-totals	45	0	3	0	1	Actual Querall Tatal of Jacobarian	

## XXXXXXXXXXX - TARGETED INSPECTION FOR CIVIL & STRUCTURAL WORKS - CONSTRUCTION STAGE

		SAMPLE INSPECTION MATRIX					
					n		
		A Importance of Element - Note 1	D The Contractor - Note 2	The Site	Size andComplexity of Structure - Note 3		
		- How Critical is Element	- Expertise of Contractor	- Difficult Ground Conditions	- Size of Project		
		- How Often Repeated     - Complex or Unusual	Previous Experience with Contracto     Performance to Date	Contamination     Brown Field Site	- Unconventional Construction     - Speed of Construction		
		- Possibility of Later Inspection	-		-		
		- Consequence of Contravention					
Work Sta	ges as per Contractors Programme	-					
Foundations							
	Formation	1		2			
	Trench Fill Pour below pads on GL A Reinforcement	1	•	- n/a			
Ground Slab							
	Formation Imported Fill incl. on-site testing	1	•	-			
	Concrete Pour for Ground Slab	1	•	n'a			
Rising Elements							
To Grnd Floor incl. stub cols	Reinforcement	1		n/a			
and edge beams	- Tanking to Lift Pits	1		n/a			
<u>Walls &amp; Columns</u> Grnd - 1st 1st-2nd	Reinforcement     Reinforcement	1	-	n/a n/a			
2nd-3rd 3rd-Roof	- Reinforcement	1		n'a n'a	· · · · · · · · · · · · · · · · · · ·		
Roof to Top of Plantroom	Reinforcement Concrete Pour for Rising Elements	1	•	n'a n'a			
Suspended Statis and Root	Reinforcement incl. Punching Shear Rein.	1	-	n/a			
2nd 3rd	Reinforcement incl. Punching Shear Rein.     Reinforcement incl. Punching Shear Rein.	1	-	n/a n/a			
Roof Plantroom	Reinforcement     Reinforcement	1	-	n/a n/a			
	- Concrete Pour for Suspended Slabs	1	-	n/a	·		
Plant Screen Steelwork							
	- Installation of Steelwork	1	-	n/a			
ESB Substation and Switch	oom						
****	- Foundations	1	-	-	-		
	BIOCK Walls     Concrete Roof Slab	1	-	n/a n/a			
Main Drainage							
Sewers & Mains							
Manholes & Chambers	Prior to backfilling     Backfilling/Reinstatement	1	- -	n/a			
Testing	- Structure & Benching	1	•	n/a n/a	· · ·		
Roads, Car Farks & Faved .	Enumerica						
	- Build-Up - Kerbs, Gullies, Markings	1		- n/a	· · · · · · · · · · · · · · · · · · ·		
Foundations of Link Buildi	Formation						
*****	Reinforcement Concrete Pour for Foundations	1	-	- n/a n/a			
Ground Slab of Link Buildin							
	Formation Imported Fill incl. on-site testing Painfor-ament	1		- - -			
	Concrete Pour for Ground Slab	1		n/a n/a	· · · · · · · · · · · · · · · · · · ·		
Rising Elements of Link Bui	lding		·	·			
To Grnd Floor incl. stub cols	- Reinforcement	1	-	nía	-		
ana eage peams Concrete Rising Walls		1		nia nia	· · · · · · · · · · · · · · · · · · ·		
Roof Slab of Link Building							
Roof Slab	- Reinforcement	1	-	n/a			
Snagging							
Civil snagging (to reflect stag Structural snagging	ed handover)	1	-	n/a n/a	-		
	Sub-totals	45	0	3	0		
	D			48			

Notes:	
If an element is important because it iscomplex or will be repeated/hrough a significant part of the building then that element must beinspected during the ear construction so as to form a view of the contractor's ability to carry out the particular task.	ly course of
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The timing of inspections must correspond with the work being undertaken on site.	
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The Engineer should indicate in his Inspection Planthe tests that he wishes to monitor periodically.	
Records of inspections must be maintained, sufficient to identify the work inspected and any non-compliance issues noted.	
Dates of Inspections	Total
04.06.2015. 09.06.2015, 23.06.2015, 24.06.2015, 24.06.2015	5
16.06.2015, 01.07.2015 16.06.2015,	2
23.06.2015	1
04.06.2015, 09.06.2015	2
Actual Overall Total of Inspections	1