

	Inspection and Test Plan						
Contract:							
Customer:	Neoen / Tesla						
ITP Title:	Pavement Base Layer						
ITP Number:	3200-0706-ITP-CE-003						
Current Revision:	A						
Current Revision Date:	12/11/2024						
Status:	Draft						
Lot Number / Area							
Lot Description							

	ITP Approval								
Workflow	Name	Title / Position	Signature	Date					
Prepared by:	Edwin Mendoza	Senior Civil Project Engineer	gu .	01/10/2024					
Reviewed by:	Edwin Mendoza	Senior Civil Project Engineer	1 gm	01/10/2024					
Reviewed by:	Mehdi Farahmand	QA/QS Lead	Wholi	01/10/2024					
Approved by:	Matthew Sultana	Site / Construction / Project Manager	-148	07/11/2024					

	Revision History								
Date	Revision Number	Revision Details							
12/11/2024	А	First draft issued for review / comment							





Contact Details		Summary of Requiren	nents		Principal Codes / Standards	Records	
Customer:	Neoen/ Tesla	Process Qualifications	s:		AS1289 - Methods of testing soils for	(MDR Insert as marked	d <u>□)</u>
Operations Mgr:	Mark Groth	Installation of paveme	ent base layer i.e.,		engineering purposes	Inspect Release Cert	
Project Engineer:	Edwin Mendoza	spreading, compactio	n and testing.		• AS3798 - Guidelines on earthworks for	Deviations/Concessions	
Quality Rep:	Mehdi Farahmand				commercial and residential developments	Material Certificates	
Subcontractors	,	Traceability:			MRTS04 General Earthworks	Conformance Certificate	
Design:	UGL Engineering	Material 🔀	Alloy Verification:		MRTS05 Unbound Pavements	Welding Records	
Drafting:	UGL Engineering	Heat Treatment	Pressure Testing:			Welder Qual. Register	
Subcontractor:	Western Down Civil	Consumable:	NDT			NDT Reports	
		Welder ID:	WPS		Client Specifications	Report on Repairs	
		Electrical:	Instrumentation		N/A	Heat Treatment Records	
		'	<u>'</u>			Dimensional Records	
Surveillance / Inspe	ction Key	Heat Treatment:			UGL Procedures/ WI's	Non-Conformance Rpts	
HOLD POINT (H): Nor	minated point beyond which	Dimensional Control: Testing (NDT):			• 3200-0706-PLN-001- QMP	Pressure Test Records	
work shall not procee	d without verified				• 3200-0706-PLN-004 -ERP	Drawing & Data Sheets	
acceptance by nomine	ee				• 3200-0706-PLN-005- CEMP • 0706-C-DRG-0001 Cover Sheet and Drawing List	Misc Verification Records	
WITNESS POINT (W):	Points at which the nominee				0706-C-DRG-0001 Cover sheet and brawing list 0706-C-DRG-0002 General Notes	Electrical Test Sheets	
	nvited to witness an activity				0706-C-DRG-0003 General Arrangement and Set	Position	
but further work may presence of the nomin	•	Acceptance Specificat	tion:		Out Plan Or06-C-DRG-0004 Bulk Earthworks Plan Or06-C-DRG-0006 Earthworks Sections Sheet 1 of 2	Operations Manager	ОМ
REVIEW (R): Verify by	examination of				• 0706-C-DRG-0007 Earthworks Sections Sheet 2 of 2	Project Engineer	PE
documentary evidence	e that inspection / tests have	Pressure Testing:			0706-C-DRG-0008 Finished Grading Sheet 1 and 2 0706-C-DRG-0009 Pavement Plan	Quality Representative	QR
been satisfactorily cor	nducted.				0706-C-DRG-0001 Earthworks Sections and Details	Pre-Processing	PP
SURVEILLANCE (S): Co	ontinuing evaluation of the	Elect. / Instrumentati	on:		0706-C-DRG-0012 Erosion and Sedimentation Control Plan Construction Stage	Technician	Т
status of methods, an	•				0706-C-DRG-0013 Erosion and Sedimentation	Welding Supervisor	WS
monitoring of activities on a random basis to ensure quality of requirements will be met. VISUAL (V): 100% Visual inspection of work / item		Notes: All sampling and testi	ng for earthworks		Control Plan Completion • 0706-C-DRG-0014 Erosion and Sediment Control	Workshop Foreman	WF
		pavement and concre	•	ì	Details • 0706-C-DRG-0015 Drainage Details Sheet 1 and	Document Controller	DC
to ensure compliance	with code / spec	NATA accredited labo	•		Sheet	Store Person	SP
DIMENSIONAL (D): M	easurement of critical				3200-0706-ITC-CE-002 Pavement Subbase Layer	Subcontractor	SC
dimensions to ensure tolerance	work/item is within					Elect. / Instrumentation	E/I



ITEM NO.:	PROCESS ACTIVITY	OCESS ACTIVITY PROCEDURE / INSTRUCTION		RELEVANT SECTION	VERIFYING DOCUMENT	VERIFI	CATION (SIGN &	REMARKS
						s/c	UGL	Client	
STAGE	1: PREPARATION	I WORKS							
1.1	Permits and Approvals	Ensure Permits are in place including, but not limited to: • Excavation Permits	NA	NA	NA				
1.2	CEMP and Emergency Response Plans	Controls established within CEMP and ERP shall be adhered to throughout works.	3200-0706-PLN-005 – CEMP 3200-0706-PLN-010 - ERP	0706-C-DRG-0012 0706-C-DRG-0013 Erosion and Sedimentation Control Plan	Site Audits as works progress.	R	R	S	
1.3	Identification of underground services	Use of DBYD and pothole to positively identify underground services. Use progress As-Constructed drawings for installed buried cables	NA	UGL Safety Critical Risk Control – Excavation and Trenching	DBYD / Excavation Permit Survey (if required).	Н	Н	S	
1.4	Approval of Subcontractor SWMS	Submission, review, and approval of all subcontractor SWMS for the works	SWMS Approved	UGL-Contractor HSEQ Requirements	UGL SWMS Review Forms and approved SWMS.	Н	Н	S	
1.5	Conformance of Materials	All delivered materials and procured items conform to project specification and AFC drawings.	As per Drawings and Specifications	MRTS05 Type 2.1	Material Certificate Test Reports complying to Type 2.1 material by NATA accredited laboratory.	R	R	S	
1.6	Inspection Measuring and Test Equipment (IMTE) Registers	Supply of all calibration certificates to the Engineer including but not limited to: Survey equipment	Visual	UGL 3200-0706-PLN- 001 QMP Section 9.8	Calibration Certificates.	R	R	S	
STAGE	2: CONSTRUCTIO	ON WORKS							
2.1	Setout of pad	 Registered Surveyor to set out pad with pegs and markers. Check surveyor marks against known structures, such as boundaries, fences 	Drawing provided showing marked out areas and exclusion zones.	 Drawing Number: 0706-C-DRG-0003 Drawing Number: 0706-C-DRG-0002 General Notes G8. 	Survey complies with checks and contract drawings.	Н	н	S	



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ITEM NO.:	PROCESS ACTIVITY	PROCEDURE / INSTRUCTION	ACCEPTANCE CRITERIA	RELEVANT SECTION	VERIFYING DOCUMENT		DATE)		REMARKS
						s/c	UGL	Client	
2.2	Underlying ITP/ITC closed and signed off.	Verify ITC if closed and signed off.	Signed off ITC document 3200- 0706-ITC-CE-002 Pavement Subbase Layer	NA	 Survey Conformance Report for finish surface uniformity 3200-0706-ITC-CE-002 Pavement Subbase Layer 	н	н	S	
2.3	Base Layer (Class 2.1)	Spread material and compact to maximum: 150mm Typical Battery Storage Platform 150mm Typical Sealed Road Pavement 150mm Typical Substation Platform Compact material to 100% SMDD. Minimum CBR 80%. Trim final surface level for uniformity within tolerance.	Material compacted to 100% at specified maximum thickness layer. CBR 80% Tolerances ±5mm Maximum ±5mm in 3m straight edge at any direction. Minimum 4 test per lot	 Drawing Number: 0706-C-DRG-0011 MRTS05 Type 2.1 (Class 2.1) 	Survey Conformance Report for finish surface uniformity SMDD material test report 3200-0706-ITC-CE-003 Pavement Base Layer	Н	н	S	
2.4	Proof Rolling	Proof roll using either 7,000 litre single rear axle or 10,000 litre tandem near axle water tanker	No perceptible surface deformation	MRTS05 CI 9.4.7Testing Method Q723	• Visual	Н	Н	S	
2.5	Finish Platform -Single size dressing layer	Spread single gravel dressing layer minimum 100mm thick. Single size clean gravel and free of unwanted materials	 Final surface free of loose material and properly clean. Visual and spread evenly. 	Drawing Number: 0706-C-DRG-0011 under Typical substation platform detail with gravel layer.	Visual and at random checking.	R	R	S	
STAGE	3: ITP CLOSE-OU								
3.1	Compilation of survey records	Sub-contractor to provide survey records to Engineer for review and acceptance. Deviations or changes to AFC Design shall be highlighted to Engineer.	Provision of CAD file of Works.	UGL 3200-0706-PLN- 001 QMP Section 11.1.1	As-Constructed drawing	R	R	S	



ITEM NO.:	PROCESS ACTIVITY	PROCEDURE / INSTRUCTION	STRUCTION ACCEPTANCE CRITERIA RELEVANT SECTION		VERIFYING DOCUMENT	VERIFICATION (SIGN & DATE)			REMARKS
NO.:						S/C	UGL	Client	
3.2	Develop Punchlist	Walkdown and inspection of works and development of punch list with Engineer and or Supervisor.	Punchlist closed in a timely manner.	UGL 3200-0706-PLN- 001 QMP Section 9.7	Master Punchlist Register	R	R	S	
3.3	Closeout of NCRs	Any NCRs that have been raised during the progress of the works have been formally closed out and lessons have been captured. Refer to UGL Quality Management Plan.	NCRs close out in a timely manner.	UGL 3200-0706-PLN- 001 QMP Section 9.5	NCR Closed, signed off.	R	R	S	
3.4	Changes captured and agreed within RFIs	Any deviations to AFC Design or Contract Specifications are to be captured, recorded, and agreed via the Formal RFI process.	All RFI's to be agreed or accepted in a timely manner.	UGL 3200-0706-PLN- 001 QMP Section 11.1.1	RFI Register	R	R	S	
3.5	As Constructed records – Red Line Mark-Up (RLMU) Drawings.	Sub-contractor to compile and record changes on AFC Drawings, to be issued to UGL Engineering via Teambinder.	NA	UGL 3200-0706-PLN- 001 QMP Section 11.1.1	As-Constructed Drawing / RLMU drawing	R	R	S	

COMMENTS AND NOTES								
	ITP COMPLETION AND SIGN-OFF							
S/C Representative	UGL Representative	Client Representative						
Name:	Name:	Name:						
Signature:	Signature:	Signature:						
	- 0							
Date:	Date:	Date:						
Date.	Date.	Date.						



Attachment A - Inspection and Test Plan Notes

Document Rev	Activity Ref	Change	Reason for Change



Pavement – Base Layer

INSPECTION & TEST CHECKLIST (ITC)

Checklist No: 3200-0706-ITC-CE-003

Project No:	3200-0706	Title:	Pavement Base Layer	Client:	NEOEN TESLA				
Description:	CE – Pavement – Base Layer								
Lot No:		Drawing / A	rea Ref:						
Work Pack No:	3200-0706-WP-002: General Civil Works	ITP Ref:		3200-07	06 -ITP-CE-003				

NOTE: Strike through sections that are not applicable.

Item	Description	Yes	No	N/A
1	Prior Works			
1.1	Materials are compliant to design			
1.2	Surveyor pad layout/ pavement layout			
1.3	Installation of Erosion and Sediment Controls installed			
2	Pavement – Base Layer			
2.1	Typical Battery Storage Platform			
2.1.1	Tie-in new material on existing by cutting the seal with road saw straight and a vertical face.			
2.1.2	Base Layer: Crushed Rock (Class 2.1) with minimum CBR 80%			
2.1.3	150mm thick per layer compacted to 100% SMDD Actual SMDD value: Test Report number:			
2.1.4	Finish base surface level Survey pick-up (As-Constructed) Tolerances: ± 5mm V/H			
2.2	Substation Platform			
2.2.1	Tie-in new material on existing by cutting the seal with road saw straight and a vertical face.			
2.2.2	Base Layer: Crushed Rock (Class 2.1) with minimum CBR 80%			
2.2.3	150mm thick per layer compacted to 100% SMDD Actual SMDD value: Test Report number:			
2.2.4	Finish base surface level Survey pick-up (As-Constructed) Tolerances: ± 5mm V/ H			





2.2.5	100mm single size gravel dressing la	iyer			
2.3	Typical Sealed Road				
2.3.1	Tie-in new material on existing by cu vertical face.	utting the seal wit	h road saw straight and a		
2.3.2	Subbase Layer: Crushed Rock (Class	2.1) with minimu	m CBR 80%		
	150mm thick per layer compacted to	o 100% SMDD			
222	Actual SMDD value:				
2.3.3	Test Report number:				
2.3.4	Finish base surface level Survey pick Tolerances: ±5mm V/ H	-up (As-Construct	ted)		
2.4	O&M Platform				
2.4					
2.4.1	Tie-in new material on existing by cu vertical face.	atting the seal wit	.n road saw straight and a		
2.4.2	Base Layer: Crushed Rock (Class 2.1)) with minimum C	BR 80%		
	150mm thick compacted to 100% SN	MDD			
	Actual SMDD value:				
2.4.3	Test Report number:				
	Finish base surface level Survey pick	-up (As-Construct	ted)		
2.4.4	Tolerances: ± 5mm V/H				
3	Proof Roll				
3.1	Conduct proof roll using either 7,000 double rear axle water truck. No per				
4	Post Works				
4.1	Final sweep to remove loose and un	wanted materials	s prior to bitumen		
4.2	Clean-up of Site				
Comments					
Chocked	Subcontractor				
	Subconti actor	Signed		Date	
Name:	UGI Project Engineer	Signed:		Date:	
	UGL Project Engineer	Cinn. I		Dat	
Name:		Signed:		Date:	