

CPES CHECKLIST FOR WORKMANSHIP

PROJECT ID/NO.: _____
 _____ VISIT

PROJECT TYPE: Road
 LOCATION: _____

ITEM: Earthworks
 DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

INDICATORS		Results	Score ____ x factor	Action Monitor
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
Item 100 Clearing & Grubbing, Item 101 Removal of Structure and Obstruction				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects			
RBWS-10_-01	Proper removal of undisputed stumps roots and non-perishable solid objects/structures, vegetation, debris, tree and other obstructions (within carriageway)	/	____ x ____ =	
Minor				
RBWS-10_-01	Proper removal of undisputed stumps roots and non-perishable solid objects/structures, vegetation, debris, tree and other obstructions (outside carriageway)	/	____ x ____ =	
RBWS-10_-02	Conformance to proper disposal	/	____ x ____ =	
		/	____ x ____ =	
Item 102 Excavation, Item 103 Structure Excavation				
Major				
RBWS-10_-01	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions (if no longer correctible, e.g., with in-placed structure)	/	____ x ____ =	
Minor				
RBWS-10_-01	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions (correctible)	/	____ x ____ =	
RBWS-10_-02	Adherence to proper construction methodology	/	____ x ____ =	
RBWS-10_-03	Conformance to proper disposal	/	____ x ____ =	
		/	____ x ____ =	
Item 104 Embankment, Item 105 Subgrade Preparation				
Major				
RBWS-10_-01	Adherence to proper construction methodology (if no longer correctible, e.g., layering, Item 105 not undertaken)	/	____ x ____ =	
RBWS-10_-02	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions (if no longer correctible, e.g., with in-placed structure)	/	____ x ____ =	
RBWS-10_-03	Adherence to compaction procedure and required equipment (if no longer correctible, e.g., done in layers but do not meet required compaction and succeeding layer was laid)	/	____ x ____ =	
Minor				
RBWS-10_-01	Adherence to proper construction methodology	/	____ x ____ =	
RBWS-10_-02	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions (correctible)	/	____ x ____ =	
RBWS-10_-03	Adherence to compaction procedure and required equipment (correctible)	/	____ x ____ =	
		/	____ x ____ =	
Item 106 Compaction Eqpt. & Density Control Strips, Item 107 Overhaul				
Major				
RBWS-10_-01	Hauling distance for excavated materials claimed/considered overhaul beyond freehaul distance	/	____ x ____ =	
		/	____ x ____ =	
Was subcontractor used? If yes, name of company and owner: _____ & _____			Total Score (a) =	CAR Total
Entered by: _____ Date: / /			No. of Indicators (b) =	
			Rate = (a) / (b) =	
			Rate =	

CPES CHECKLIST FOR WORKMANSHIP

PROJECT ID/NO.: _____
 _____ VISIT

PROJECT TYPE: Road
 LOCATION: _____

ITEM: Surface Course
 DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

INDICATORS		Results	Score _____ x factor	Action Monitor
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
Item 301 Bituminous Prime Coat, Item 302 Bituminous Tack Coat, Item 303 Bituminous Seal Coat				
Major				
RBWS-30_-01	Conformance of in-placed materials to plans and specifications	/	= _____ X _____	
RBWS-30_-02	Observance of the required drying time	/	= _____ X _____	
Minor				
RBWS-30_-03	Conformance to the required rate and method of application	/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	
Item 304 Bituminous Surface Treatment, 305 Bit. Penetration Macadam Pavement, 306 Bit. Rd. Mix Surface Course, 307 Bit. Plant Mix Surface Course, 308 Bit. Plant Mix Surface Course, 309 Bit. Plant Mix (Stockpile Maintenance Mixture), 310 Bituminous Concrete Surface Course (Hot Laid)				
Major*		* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects		
RBWS-30_-01	Conformance of in-placed materials to plans and specifications	/	= _____ X _____	
RBWS-30_-02	Monitoring/checking of temperature mix prior to placing/spreading/compaction	/	= _____ X _____	
RBWS-30_-03	Conformance to the temperature requirement	/	= _____ X _____	
RBWS-30_-04	No alligator and longitudinal cracks	/	= _____ X _____	
RBWS-30_-05	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section (>10% deficient)	/	= _____ X _____	
RBWS-30_-06	No bleeding on asphalt pavement (> 1 sq. m.)	/	= _____ X _____	
RBWS-30_-07	No upheaval (severe and needs R/R)	/	= _____ X _____	
RBWS-30_-08	No ravelling (severe and needs R/R)	/	= _____ X _____	
Minor				
RBWS-30_-05	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section (≤10% deficient)	/	= _____ X _____	
RBWS-30_-06	No bleeding on asphalt pavement (≤1 sq.m)	/	= _____ X _____	
RBWS-30_-07	No upheaval	/	= _____ X _____	
RBWS-30_-08	No ravelling	/	= _____ X _____	
RBWS-30_-09	No temperature cracks	/	= _____ X _____	
RBWS-30_-10	Conformance to the required density	/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	

Was subcontractor used? If yes, name of company and owner:
 _____ & _____

Entered by: _____

Date: / /

Total Score (a)	CAR Total
=	
No of Indicators (b)	
=	
Rate = (a) / (b)	
=	
Rate	
=	

CPES CHECKLIST FOR WORKMANSHIP

PROJECT ID/NO.: _____
 _____ VISIT

PROJECT TYPE: Road
 LOCATION: _____

ITEM: Surface Course
 DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

Sub-item Code	INDICATORS <i>Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).</i>	Results	Score _____ x factor	Action Monitor
Item 311 Portland Cement Concrete Pavement (PCCP)				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects			
RBWS-311-01	No longitudinal cracks	/	= _____ X _____	
RBWS-311-02	Conformance to vibration requirement	/	= _____ X _____	
RBWS-311-03	Conformance to quality of concrete mix	/	= _____ X _____	
RBWS-311-04	Conformance to requirements of construction joints (outside middle thirds)	/	= _____ X _____	
RBWS-311-05	No through cracks (all types of cracks)	/	= _____ X _____	
RBWS-311-06	No scaling (severe, needs Removal and Replacement)	/	= _____ X _____	
RBWS-311-07	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section (>10% deficient)	/	= _____ X _____	
Minor				
RBWS-311-05	No cracks e.g. transverse, diagonal, temperature, corner, restraint	/	= _____ X _____	
RBWS-311-06	No scaling	/	= _____ X _____	
RBWS-311-07	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section (≤10% deficient)	/	= _____ X _____	
RBWS-311-08	No honeycomb	/	= _____ X _____	
RBWS-311-09	No spalling	/	= _____ X _____	
RBWS-311-10	No chipped-off edges	/	= _____ X _____	
RBWS-311-11	Conformance to required size, location & spacing of tie bars and dowel bars as per specifications	/	= _____ X _____	
RBWS-311-12	Conformance to proper curing procedures	/	= _____ X _____	
RBWS-311-13	Utilization of templates prior to pouring	/	= _____ X _____	
RBWS-311-14	Conformance to placing requirement which will not result to segregation of aggregates, cold joints, misalignment	/	= _____ X _____	
RBWS-311-15	Conformance to required amount of asphalt sealant on weakened plane joints (insufficient and excessive application)	/	= _____ X _____	
RBWS-311-16	Conformance to requirement of pavement blockings (include depths and widths of weakened plane joints)	/	= _____ X _____	
RBWS-311-17	No hardened/spilled concrete on pavement	/	= _____ X _____	
RBWS-311-18	No pokemarks/tire marks/animal footmarks/skid marks, etc.	/	= _____ X _____	
RBWS-311-19	Conformance to proper finishing of concrete (brooming)	/	= _____ X _____	
RBWS-311-20	Conformance to formworks requirements (wooden, defective steel and not applied with oil/grease)	/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	

Was subcontractor used? If yes, name of company and owner:
 _____ & _____

Entered by: _____

Date: / /

Total Score (a) =	CAR Total
No. of Indicators (b) =	
Rate = (a) / (b) =	
Rate =	

CPES CHECKLIST FOR WORKMANSHIP

PROJECT ID/NO.: _____
 _____ VISIT

PROJECT TYPE: Bridge
 LOCATION: _____

ITEM: Piling
 DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

INDICATORS		Results	Score ____ x factor	Action Monitor
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
400-2 Steel Piles				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects			
RBWS-400-2-01	Conformance of in-placed materials to plans and specifications	/	____ x ____ =	
RBWS-400-2-02	Conformance to construction methodology (installation, location and type)	/	____ x ____ =	
RBWS-400-2-03	Conformance to splicing requirements	/	____ x ____ =	
RBWS-400-2-04	Conformance to the required length, width, thickness, and/or diameter	/	____ x ____ =	
RBWS-400-2-05	Piles provided with gradation marks (driven)	/	____ x ____ =	
RBWS-400-2-06	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	____ x ____ =	
Minor				
RBWS-400-2-05	Piles provided with gradation marks (stockpile)	/	____ x ____ =	
RBWS-400-2-06	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (≤20 mm / m), elevation, location (≤150 mm) & spacing	/	____ x ____ =	
RBWS-400-2-07	No corrosions on steel piles	/	____ x ____ =	
RBWS-400-2-08	No deformation on steel piles	/	____ x ____ =	
		/	____ x ____ =	
		/	____ x ____ =	
		/	____ x ____ =	
		/	____ x ____ =	
		/	____ x ____ =	
		/	____ x ____ =	
		/	____ x ____ =	
		/	____ x ____ =	
		/	____ x ____ =	
		/	____ x ____ =	
		/	____ x ____ =	

Was subcontractor used? If yes, name of company and owner:
 _____ & _____

Entered by: _____ Date: / /

Total Score (a)	CAR Total
=	
No. of Indicators (b)	
=	
Rate = (a) / (b)	
=	
Rate	
=	

CPES CHECKLIST FOR WORKMANSHIP

PROJECT ID/NO.: _____
 _____ VISIT

PROJECT TYPE: Bridge
 LOCATION: _____

ITEM: Piling
 DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

INDICATORS		Results	Score _____ x factor	Action Monitor
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
400-3 Concrete Pile (see Common Items of Work for checklist for formworks, concrete & RSB)				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects			
RBWS-400-3-01	Conformance of in-placed materials to plans and specifications	/	_____ X _____ =	
RBWS-400-3-02	Conformance to construction methodology (installation, location and type)	/	_____ X _____ =	
RBWS-400-3-03	Conformance to splicing requirements	/	_____ X _____ =	
RBWS-400-3-04	Conformance to the required length, width, thickness, and/or diameter	/	_____ X _____ =	
RBWS-400-3-05	Provision of pile shoe	/	_____ X _____ =	
RBWS-400-3-06	No through cracks			
RBWS-400-3-07	No honeycomb (exposed rebars/aggregates)	/	_____ X _____ =	
RBWS-400-3-08	Piles provided with gradation marks (driven)	/	_____ X _____ =	
RBWS-400-3-09	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	_____ X _____ =	
Minor				
RBWS-400-3-06	No cracks	/	_____ X _____ =	
RBWS-400-3-07	No honeycomb	/	_____ X _____ =	
RBWS-400-3-08	Piles provided with gradation marks (stockpile)	/	_____ X _____ =	
RBWS-400-3-09	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (≤20 mm / m), elevation, location (≤150 mm), spacing & champering	/	_____ X _____ =	
RBWS-400-3-10	Conformance to specified curing on casted RC piles	/	_____ X _____ =	
RBWS-400-3-11	Conformance to casting length	/	_____ X _____ =	
RBWS-400-3-12	Conformance to required lifting procedure	/	_____ X _____ =	
		/	_____ X _____ =	
		/	_____ X _____ =	
		/	_____ X _____ =	
		/	_____ X _____ =	
		/	_____ X _____ =	
		/	_____ X _____ =	
		/	_____ X _____ =	
		/	_____ X _____ =	
		/	_____ X _____ =	

Was subcontractor used? If yes, name of company and owner:
 _____ & _____

Entered by: _____

Date: / /

Total Score (a)	CAR Total

No. of Indicators (b)	

Rate = (a) / (b)	

Rate	

CPES CHECKLIST FOR WORKMANSHIP

PROJECT ID/NO.: _____
 _____ VISIT

PROJECT TYPE: Bridge
 LOCATION: _____

ITEM: Railings
 DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

INDICATORS		Results	Score ____ x factor	Action Monitor
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
Item 401 Railings				
401-1 Steel Railings				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects			
RBWS-401-1-01	Conformance of in-placed materials to plans & specifications	/	= <u> </u> X <u> </u>	
RBWS-401-1-02	Conformance to alignment & jointing requirement	/	= <u> </u> X <u> </u>	
RBWS-401-1-03	No corrosion	/	= <u> </u> X <u> </u>	
Minor				
RBWS-401-1-03	No rust	/	= <u> </u> X <u> </u>	
RBWS-401-1-04	No damage to painting and galvanized coating	/	= <u> </u> X <u> </u>	
RBWS-401-1-05	Adequacy of bolts and nuts	/	= <u> </u> X <u> </u>	
RBWS-401-1-06	Conformance to finishing requirement	/	= <u> </u> X <u> </u>	
		/	= <u> </u> X <u> </u>	
		/	= <u> </u> X <u> </u>	
		/	= <u> </u> X <u> </u>	
		/	= <u> </u> X <u> </u>	
		/	= <u> </u> X <u> </u>	
		/	= <u> </u> X <u> </u>	
		/	= <u> </u> X <u> </u>	
		/	= <u> </u> X <u> </u>	
401-2 Timber Railings				
Major				
RBWS-401-2-01	Conformance of in-placed materials to plans & specifications	/	= <u> </u> X <u> </u>	
RBWS-401-2-02	Conformance to alignment & jointing requirement	/	= <u> </u> X <u> </u>	
Minor				
RBWS-401-2-03	No splitting of timber	/	= <u> </u> X <u> </u>	
RBWS-401-2-04	Free from any form of damages	/	= <u> </u> X <u> </u>	
RBWS-401-2-05	Provision of wood preservatives e.g. oils, creosote-oil, etc.	/	= <u> </u> X <u> </u>	
		/	= <u> </u> X <u> </u>	
		/	= <u> </u> X <u> </u>	
		/	= <u> </u> X <u> </u>	
		/	= <u> </u> X <u> </u>	
		/	= <u> </u> X <u> </u>	

Was subcontractor used? If yes, name of company and owner:
 _____ & _____

Entered by: _____ Date: / /

Total Score (a)	CAR Total
=	
No. of Indicators (b)	
=	
Rate = (a) / (b)	
=	
Rate	
=	

CPES CHECKLIST FOR WORKMANSHIP

PROJECT ID/NO.: _____
 _____ VISIT

PROJECT TYPE: Bridge
 LOCATION: _____

ITEM: Railings
 DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

INDICATORS		Results	Score _____ x factor	Action Monitor
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
401-3 Masonry Railings				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects			
RBWS-401-3-01	Conformance of in-placed materials to plans & specifications	/	= _____ X _____	
RBWS-401-3-02	Conformance to required alignment	/	= _____ X _____	
RBWS-401-3-03	Conformance to required quality of mortar mix, CHB, stones, aggregates & boulders	/	= _____ X _____	
Minor				
RBWS-401-3-03	No cracks	/	= _____ X _____	
RBWS-401-3-04	Sufficiency of mortar	/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	
401-4 Concrete Railings (see Common Items of Work for checklist for Formworks, RSB & Concrete)				
Major				
RBWS-401-4-01	Conformance of in-placed materials to plans & specifications	/	= _____ X _____	
RBWS-401-4-02	Conformance to required alignment	/	= _____ X _____	
RBWS-401-4-03	Conformance to required quality of concrete mix			
Minor				
RBWS-401-4-04	Conformance to finishing requirements	/	= _____ X _____	
RBWS-401-4-05	No cracks	/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	
Item 402 Trowelled				
RBWS-402-01	Smooth and even floor finish	/	= _____ X _____	
RBWS-402-02	No temperature cracks	/	= _____ X _____	
RBWS-402-03	No sign of deflection/settlement	/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	
Was subcontractor used? If yes, name of company and owner: _____ & _____			Total Score (a) =	CAR Total
Entered by: _____			No. of Indicators (b) =	
Date: / /			Rate = (a) / (b) =	
			Rate =	

CPES CHECKLIST FOR WORKMANSHIP

PROJECT ID/NO.: _____
 _____ VISIT

PROJECT TYPE: Bridge
 LOCATION: _____

ITEM: Metal Structures
 DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

INDICATORS		Results	Score ____ x factor	Action Monitor
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
Item 403 Metal Structures				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects			
RBWS-403-01	Structural steel conforms to the required size and dimension as per specification	/	____ X ____ =	
RBWS-403-02	No corrosion (conditon that already affects structural soundness)	/	____ X ____ =	
RBWS-403-03	No sagging/deflection (beyond 50% of the maximum tolerance)	/	____ X ____ =	
RBWS-403-04	Conformance to proper installation/assembly	/	____ X ____ =	
RBWS-403-05	Conformance to the required number of bolts/rivets as per plan	/	____ X ____ =	
RBWS-403-06	Conformance to the required size and dimension for welding	/	____ X ____ =	
RBWS-403-07	Fasteners, anchor bolts, base plates, bolts/nuts and washers conforms to specified size and dimension	/	____ X ____ =	
		/	____ X ____ =	
Minor				
RBWS-403-02	No rust/corrosion	/	____ X ____ =	
RBWS-403-03	No sagging/deflection (within 50% of the maximum tolerance)	/	____ X ____ =	
RBWS-403-08	Provided with appropriate paints (primer and surface coatings) in accordance with the specifications	/	____ X ____ =	
RBWS-403-09	Structural members are true to line and free from twist, bends and open joints	/	____ X ____ =	
RBWS-403-10	Pin holes/fastener holes (bolts & rivets) conforms to the required diameter as per specification	/	____ X ____ =	
RBWS-403-11	Rivets are installed according to proper procedure per specifications	/	____ X ____ =	
RBWS-403-12	Bolts are tightened to at least the minimum bolt tension, or at a required tension per specification	/	____ X ____ =	
RBWS-403-13	Conformance to use of appropriate tightening tools	/	____ X ____ =	
RBWS-403-14	Conformance to proper splicing/jointing	/	____ X ____ =	
RBWS-403-15	Provision of camber for truss/beams/girder	/	____ X ____ =	
RBWS-403-16	Complete number of bolts/rivets installed	/	____ X ____ =	
RBWS-403-17	Painted metal surface are free of loose and bubbled paints, etc.	/	____ X ____ =	
		/	____ X ____ =	
		/	____ X ____ =	
		/	____ X ____ =	
		/	____ X ____ =	
Was subcontractor used? If yes, name of company and owner: _____ & _____			Total Score (a) =	CAR Total
Entered by: _____			No. of Indicators (b) =	
Date: / /			Rate = (a) / (b) =	
			Rate =	

CPES CHECKLIST FOR WORKMANSHIP

PROJECT ID/NO.: _____ PROJECT TYPE: Road & Bridge ITEM: Drainage & Slope Protection
 _____ VISIT LOCATION: _____ DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

INDICATORS		Results	Score _____ x factor	Action Monitor
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
Item 500 Pipe Culverts & Storm Drains				
Major				
RBWS-500-01	Conformance to the required/approved tolerance for slope, alignment, elevation and dimensions	/	_____ x _____ =	
Minor				
RBWS-500-02	No cracks, honeycombs, chipping of edges	/	_____ x _____ =	
RBWS-500-03	Compliance to joint mortar mixing proportions	/	_____ x _____ =	
RBWS-500-04	Sufficient collaring and flushing	/	_____ x _____ =	
RBWS-500-05	Compliance to the required thickness, compaction & materials requirement of gravel bedding	/	_____ x _____ =	
RBWS-500-06	Compliance to the required thickness & compaction of backfill	/	_____ x _____ =	
RBWS-500-07	Conformance to trenching requirements	/	_____ x _____ =	
RBWS-500-08	Free from debris, siltation, etc.	/	_____ x _____ =	
		/	_____ x _____ =	
Item 502 Manhole, Inlets and Catch Basins				
Major				
RBWS-502-01	Conformance to connection requirements between pipes & inlet wall	/	_____ x _____ =	
RBWS-502-02	Conformance to approved/specified tolerance for dimensions and elevations	/	_____ x _____ =	
Minor				
RBWS-502-03	No damage on manhole, inlets & catch basins	/	_____ x _____ =	
RBWS-502-04	No cracks	/	_____ x _____ =	
RBWS-502-05	No honeycomb	/	_____ x _____ =	
RBWS-502-06	Free from debris, siltation, etc.	/	_____ x _____ =	
RBWS-502-07	Covers and gratings are well fitted and can easily be opened during maintenance work	/	_____ x _____ =	
		/	_____ x _____ =	
Item 504 Cleaning and Recondition of Existing Drainage Structures				
RBWS-504-01	Conformance to the approved/required tolerances for alignment	/	_____ x _____ =	
RBWS-504-02	Proper spacing of rebars	/	_____ x _____ =	
RBWS-504-03	Compliance to scope of work	/	_____ x _____ =	
RBWS-504-04	Conformance to plans and specifications	/	_____ x _____ =	
		/	_____ x _____ =	

Was subcontractor used? If yes, name of company and owner:
 _____ & _____

Entered by: _____

Date: / /

Total Score (a)	CAR Total
=	
No. of Indicators (b)	
=	
Rate = (a) / (b)	
=	
Rate	
=	

CPES CHECKLIST FOR WORKMANSHIP

PROJECT ID/NO.: _____ PROJECT TYPE: Road & Bridge ITEM: Drainage & Slope Protection
 _____ VISIT LOCATION: _____ DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

INDICATORS		Results	Score _____ x factor	Action Monitor
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
Item 505 Riprap and Grouted Riprap, Item 506 Stone Masonry, Item 507 Rubble Concrete				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects			
RBWS-50_-01	No through cracks	/	= _____ X _____	
RBWS-50_-02	Conformance to specifications (size, type, weight, etc. of boulders)	/	= _____ X _____	
RBWS-50_-03	Sufficient grout/mortar	/	= _____ X _____	
RBWS-50_-04	Observance to proper placing of stones/boulders	/	= _____ X _____	
RBWS-50_-05	Conformance to the approved/required tolerance for slope and thickness	/	= _____ X _____	
RBWS-50_-06	Compliance to the specified compaction and preparation of bedding	/	= _____ X _____	
Minor				
RBWS-50_-01	No cracks	/	= _____ X _____	
RBWS-50_-07	Adequate and proper spacing of weepholes	/	= _____ X _____	
RBWS-50_-08	Compliance to design mix of mortar	/	= _____ X _____	
RBWS-50_-09	Conformance with approved tolerance for lines, grades, cross-sections and elevations	/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	
Item 508 Hand-laid Rock Embankment				
Major				
RBWS-508-01	Conformance to the required size of boulders	/	= _____ X _____	
RBWS-508-02	Observance to proper placement of stones/boulders	/	= _____ X _____	
RBWS-508-03	Conformance to the approved/required tolerance for length, slope, and thickness	/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	
Was subcontractor used? If yes, name of company and owner: _____ & _____			Total Score (a) =	CAR Total
Entered by: _____ Date: / /			No. of Indicators (b) =	
			Rate = (a) / (b) =	
			Rate =	

CPES CHECKLIST FOR WORKMANSHIP

PROJECT ID/NO.: _____ PROJECT TYPE: Road & Bridge ITEM: Drainage & Slope Protection
 _____ VISIT LOCATION: _____ DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

INDICATORS		Results	Score _____ x factor	Action Monitor
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
509-3 Timber Sheet Piles				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects			
RBWS-509-3-01	Conformance of in-placed materials to plans & specifications	/	_____ x _____ =	
RBWS-509-3-02	Conformance to construction methodology (installation, location and type)	/	_____ x _____ =	
RBWS-509-3-03	Conformance to splicing requirements	/	_____ x _____ =	
RBWS-509-3-04	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	_____ x _____ =	
RBWS-509-3-05	Piles provided with gradation marks (driven)	/	_____ x _____ =	
RBWS-509-3-06	Conformance to approved/specified tolerances for length, width, thickness and/or diameter	/	_____ x _____ =	
Minor				
RBWS-509-3-04	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (≤20 mm / m), elevation, location (≤150 mm) & spacing	/	_____ x _____ =	
RBWS-509-3-05	Piles provided with gradation marks (stockpile)	/	_____ x _____ =	
RBWS-509-3-07	No worm holes, decays, warps, ring, segregation, splits and loose knots	/	_____ x _____ =	
RBWS-509-3-08	Non-splintering/brooming of timber pile end beyond specified allowance	/	_____ x _____ =	
RBWS-509-3-09	No cracks	/	_____ x _____ =	
RBWS-509-3-10	Provision of pile cap	/	_____ x _____ =	
RBWS-509-3-11	Attainment of required number of piles	/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
Was subcontractor used? If yes, name of company and owner: _____ & _____			Total Score (a) =	CAR Total
Entered by: _____ Date: / /			No. of Indicators (b) =	
			Rate = (a) / (b) =	
			Rate =	

CPES CHECKLIST FOR WORKMANSHIP

PROJECT ID/NO.: _____ PROJECT TYPE: Road & Bridge ITEM: Drainage & Slope Protection
 _____ VISIT LOCATION: _____ DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

INDICATORS				
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score _____ x factor	Action Monitor
Item 511 Gabions & Mattresses				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects			
RBWS-511-01	Conformance to the required/approved tolerance for lines grades, dimensions and arrangements as shown on the plans and designated location (>10%)	/	_____ x _____ =	
RBWS-511-02	Conformance to specifications (size, type, weight, etc. of boulders)	/	_____ x _____ =	
Minor				
RBWS-511-01	Conformance to the required/approved tolerance for lines grades, dimensions and arrangements as shown on the plans and designated location (≤10%)	/	_____ x _____ =	
RBWS-511-03	Conformance to the required wire mesh cage fabrication requirement	/	_____ x _____ =	
RBWS-511-04	No misalignment, bulging	/	_____ x _____ =	
RBWS-511-05	Conformance to the required lapping requirement	/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
Item 602 Monuments, Markers and Guide Posts				
RBWS-602-01	Conformance to required/approved tolerance for lines, grades and dimensions	/	_____ x _____ =	
RBWS-602-02	Conformance to painting requirement	/	_____ x _____ =	
RBWS-602-03	Provision of the required warning reflectors	/	_____ x _____ =	
RBWS-602-04	Conformance to the design and location as shown on the plans	/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	
		/	_____ x _____ =	

Was subcontractor used? If yes, name of company and owner:
 _____ & _____

Entered by: _____ Date: / /

Total Score (a)	CAR Total
=	
No. of Indicators (b)	
=	
Rate = (a) / (b)	
=	
Rate	
=	

CPES CHECKLIST FOR WORKMANSHIP

PROJECT ID/NO.: _____
 _____ VISIT

PROJECT TYPE: Bridge
 LOCATION: _____

ITEM: Guardrail
 DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

INDICATORS		Results	Score _____ x factor	Action Monitor
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
Item 603 - Guardrail				
603-1 Steel or Aluminum				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects			
RBWS-603-1-01	Conformance to the required/approved tolerance for lines, grades and dimensions (>6%)	/	_____ x _____ = _____	
Minor				
RBWS-603-1-01	Conformance to the required/approved tolerance for lines, grade, and dimensions (<6%)	/	_____ x _____ = _____	
RBWS-603-1-02	Sufficient paint	/	_____ x _____ = _____	
RBWS-603-1-03	Sufficient galvanizing	/	_____ x _____ = _____	
RBWS-603-1-04	Non-appearance of rust on steel	/	_____ x _____ = _____	
RBWS-603-1-05	Conformance with the design and location as shown on the plans	/	_____ x _____ = _____	
RBWS-603-1-06	Conformance to required installation (lapping, provision of bolts, nuts & washers)	/	_____ x _____ = _____	
		/	_____ x _____ = _____	
		/	_____ x _____ = _____	
		/	_____ x _____ = _____	
603-2 Concrete (see common items of works for checklist on formworks, reinforcing steel bars and concrete)				
		/	_____ x _____ = _____	
603-3 Timber				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects			
RBWS-603-3-01	Conformance to the required/approved tolerance for lines, grades and dimensions	/	_____ x _____ = _____	
Minor				
RBWS-603-3-01	Conformance to the approved/required tolerance for lines, grades and dimensions	/	_____ x _____ = _____	
RBWS-603-3-02	No splitting of timber	/	_____ x _____ = _____	
RBWS-603-3-03	No insect attack	/	_____ x _____ = _____	
RBWS-603-3-04	No decay of timber especially at the base of the posts and joints between posts and rails	/	_____ x _____ = _____	
RBWS-603-3-05	Conformity with the design and location as shown on the plans	/	_____ x _____ = _____	
RBWS-603-3-06	Proper application of preservatives	/	_____ x _____ = _____	
		/	_____ x _____ = _____	
		/	_____ x _____ = _____	
Was subcontractor used? If yes, name of company and owner: _____ & _____			Total Score (a) =	CAR Total
Entered by: _____			No. of Indicators (b) =	
Date: / /			Rate = (a) / (b) =	
			Rate =	

CPES CHECKLIST FOR WORKMANSHIP

PROJECT ID/NO.: _____
 _____ VISIT

PROJECT TYPE: Road
 LOCATION: _____

ITEM: Miscellaneous Work
 DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

INDICATORS		Results	Score ____ x factor	Action Monitor
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
Item 604 Fencing, Item 605 Road Signs, Item 606 Pavement Markings, Item 607 Reflective Pavement Studs				
Major				
RBWS-60__-01	Conformance to the required materials for road signs pavement markings and reflective pavement studs	/	= ____ x ____	
Minor				
RBWS-60__-02	Proper preparation of pavement surface prior to paint application (Item 606)	/	= ____ x ____	
RBWS-60__-03	Conformance to provisions stipulated in the DPWH Standard Specifications for Public Works & Highways, Vol.II, 1995	/	= ____ x ____	
RBWS-60__-04	Cracking, peeling off of paints	/	= ____ x ____	
		/	= ____ x ____	
		/	= ____ x ____	
		/	= ____ x ____	
		/	= ____ x ____	
		/	= ____ x ____	
		/	= ____ x ____	
		/	= ____ x ____	
		/	= ____ x ____	
Item 608 Topsoil, Item 609 Spriggings, Item 610 Sodding, Item 611 Tree Planting				
RBWS-6__- 01	Conformance to appropriate type, thickness and density of soil	/	= ____ x ____	
RBWS-6__- 02	Conformance to approved slope	/	= ____ x ____	
RBWS-6__- 03	Conformance to the required type of grass/planting materials	/	= ____ x ____	
RBWS-6__- 04	Healthy, dense, well rooted	/	= ____ x ____	
RBWS-6__- 05	Free from weeds or undesirable grasses	/	= ____ x ____	
		/	= ____ x ____	
		/	= ____ x ____	
		/	= ____ x ____	
		/	= ____ x ____	
		/	= ____ x ____	
		/	= ____ x ____	
		/	= ____ x ____	
		/	= ____ x ____	
Was subcontractor used? If yes, name of company and owner: _____ & _____			Total Score (a) =	CAR Total
Entered by: _____			No. of Indicators (b) =	
Date: / /			Rate = (a) / (b) =	
			Rate =	

CPES CHECKLIST FOR WORKMANSHIP

PROJECT ID/NO.: _____
 _____ VISIT

PROJECT TYPE: Road & Bridge
 LOCATION: _____

ITEM: Common Items of Work
 DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

INDICATORS		Results	Score ____ x factor	Action Monitor
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
Item 900 Formworks				
RBWS-900-01	Conformance to the required type of formworks in accordance with approved shop/working drawings	/	____ x ____ =	
RBWS-900-02	Forms coated with mould oil as required	/	____ x ____ =	
RBWS-900-03	Sufficient bracing/support provided	/	____ x ____ =	
RBWS-900-04	No loose knots, splits, cracks, etc.	/	____ x ____ =	
RBWS-900-05	Provision of required concrete or steel spacer	/	____ x ____ =	
RBWS-900-06	Conformance to dimensions, location, plumbness and alignment	/	____ x ____ =	
RBWS-900-07	Provision of camber during construction stage	/	____ x ____ =	
		/	____ x ____ =	
		/	____ x ____ =	
		/	____ x ____ =	
		/	____ x ____ =	
Item 901 Reinforcing Steel Bars (including tendons for Pre/Post-Stressed concrete)				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects			
RBWS-901-01	Conformance of in-placed materials to plans & specifications	/	____ x ____ =	
RBWS-901-02	Non-appearance of corrosion on steel reinforcement	/	____ x ____ =	
Minor				
RBWS-901-02	Non-appearance of rust on steel reinforcement	/	____ x ____ =	
RBWS-901-03	Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements	/	____ x ____ =	
RBWS-901-04	No sign of oil, paint and other deleterious materials on reinforcements	/	____ x ____ =	
RBWS-901-05	Conformance to jointing requirement, i.e. splicing, welding, etc.	/	____ x ____ =	
RBWS-901-06	Conformance to the required installation of ducttube e.g. (spacing, location and distance)	/	____ x ____ =	
RBWS-901-07	Conformance to the required steel plate and lock	/	____ x ____ =	
RBWS-901-08	Conformance to the number of bundles of tendons and number of pieces of bundles of tendons	/	____ x ____ =	
		/	____ x ____ =	
		/	____ x ____ =	
		/	____ x ____ =	
Was subcontractor used? If yes, name of company and owner: _____ & _____		Total Score (a)		CAR Total
Entered by: _____		No. of Indicators (b)		
Date: / /		Rate = (a) / (b)		
		=		
		Rate		
		=		

CPES CHECKLIST FOR WORKMANSHIP

PROJECT ID/NO.: _____
 _____ VISIT

PROJECT TYPE: Road & Bridge
 LOCATION: _____

ITEM: Common Items of Work
 DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

INDICATORS		Results	Score _____ x factor	Action Monitor
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
Item 902 Concrete Works				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects			
RBWS-902-01	No through of cracks	/	= _____ X _____	
RBWS-902-02	No honeycomb or spalling (no exposed rebars/aggregates)	/	= _____ X _____	
RBWS-902-03	No sagging or bulging	/	= _____ X _____	
RBWS-902-04	Conformance to the required quality of concrete mix	/	= _____ X _____	
RBWS-902-05	Provision of camber for RCDG (reinforced concrete for deck girder)	/	= _____ X _____	
Minor				
RBWS-902-01	No cracks	/	= _____ X _____	
RBWS-902-02	No honeycomb or spalling	/	= _____ X _____	
RBWS-902-03	No sagging or bulging	/	= _____ X _____	
RBWS-902-06	No chipping off of concrete cover	/	= _____ X _____	
RBWS-902-07	Proper and adequate vibration	/	= _____ X _____	
RBWS-902-08	Conformance to finishing/plastering requirement	/	= _____ X _____	
RBWS-902-09	Conformance to the required concrete cover for rebars	/	= _____ X _____	
RBWS-902-10	Conformance to the batching, mixing, transporting and discharge time requirements	/	= _____ X _____	
RBWS-902-11	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment	/	= _____ X _____	
RBWS-902-12	Conformance to the jointing requirement	/	= _____ X _____	
RBWS-902-13	Proper curing	/	= _____ X _____	
RBWS-902-14	Conformance to required dimensions, lines, grades/elevation locations and crown (for pier)	/	= _____ X _____	
RBWS-902-15	No water ponding on bearing plates	/	= _____ X _____	
RBWS-902-16	Conformance to elevation of expansion joints	/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	
		/	= _____ X _____	

Was subcontractor used? If yes, name of company and owner:
 _____ & _____

Entered by: _____

Date: / /

Total Score (a)	CAR Total
No. of Indicators (b)	
Rate = (a) / (b)	
=	
Rate	
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