Administration and Inspection Activities for Repairing Concrete Pavement and Concrete Base

(As Specified in OPSS 366 and SSP 103S57)

366.01 SCOPE

This CAIS covers the construction administration and inspection requirements for full depth and partial depth repairs of concrete pavement and concrete base using conventional concrete repairs, high early strength concrete repairs, and fast-track concrete repairs (full depth repair only) as specified in OPSS 366, April 2023 and as amended in SSP 103S57, November 2025.

366.02 REFERENCES

This CAIS refers to the following standards, specifications, or publications:

Ontario Provincial Standard Specifications, Construction:

OPSS 366 Repairing Concrete Pavement and Concrete Base

Construction Administration and Inspection Specifications (CAIS):

CAIS 320	Open Graded Drainage Layer
CAIS 350	Concrete Pavement and Concrete Base
CAIS 369	Sealing or Resealing of Joints and Cracks in Concrete Pavement and Concrete Base
CAIS 904	Concrete Structures
CAIS 929	Abrasive Blast Cleaning - Concrete Construction
CAIS 1002	Aggregates – Concrete
CAIS 1010	Aggregates – Base, Subbase, Select Subgrade and Backfill Material
CAIS 1301	Cementing Materials
CAIS 1302	Water
CAIS 1350	Concrete - Materials and Production
CAIS 1440	Steel Reinforcement for Concrete
CAIS 1442	Epoxy Coated Reinforcing Steel Bars for Concrete

Ontario Ministry of Transportation Publications:

MERO-053 Falling Weight Deflectometer (FWD) Testing Manual

MTO Forms:

0 4 10 000

PH-CC-885	Concrete Referee Testing Request Form
PH-CC-465	FWD Referee Testing Request Form

366.03 DEFINITIONS

For the purposes of this CAIS, the definitions shall be as specified in OPSS 366.

366.04 DESIGN AND SUBMISSION REQUIREMENTS

366.04.01 Design Requirements

366.04.01.01 Concrete Mix Design

366.04.02 Submission Requirements

366.04.02.01 Concrete Mix Design

Administrative Activities:

1	-	Check that the concrete mix design is received, Review the mix design and Check that it is as specified in OPSS 366 and OPSS 1350.	-
		Additional administrative and inspection activities shall be according to the CAIS 1350.	
2	-	Check that the linear shrinkage test data is received within the specified time frame from mix design submission and forward the data to the MTO's Quality Assurance Section.	-
3	-	If a new calibration chart is developed and submitted, Check that a mix design is also submitted prior to proceeding with concrete repairs. Review the mix design.	1

366.04.02.02 Calibration Charts and Autogenous Cylinder Method for Fast-Track Concrete Repairs

1	М	Check that the calibration chart is received at the time of concrete mix design submission and prior to construction of the repair.	-
		Determine if a trial is required according to Trial Area for Fast-Track Concrete Repairs Subsection. If a trial area is required for fast-track concrete repair, Check that the calibration chart is received prior to commencement of the trial area.	
2	-	Check that a letter signed by an Engineer that identifies the curing method, test method and details on the development of the calibration charts is submitted.	-
3	-	Review the calibration chart information and supporting test data, Check that the submissions are as specified in OPSS 366. Check that the minimum length of time for the calibration charts is the period of lane closure specified in the Contract Documents.	-

4	-	In the event that field performance or conditions are no longer representative	-
		of the conditions under which the submitted calibration charts were	
		developed, Check that the calibration charts, mix design and supporting	
		information are resubmitted prior to proceeding with concrete repairs.	

366.04.02.03 Concrete Removal Plan

Administrative Activities:

1	-	Check that a concrete removal plan is received within the specified timeline.	-
2	-	Review the concrete removal plan and Check the plan meets the requirement as specified in OPSS 366.	-
3	-	Notify the Contractor whether the concrete removal plan is acceptable or unacceptable.	-

366.04.02.04 Chipping Hammers

Administrative Activities:

1		Check that chipping hammer manufacturer's published specifications are received within the specified timeline.	-
2	-	Review the manufacturer's specifications and Check that it is as specified in OPSS 366.	1

366.04.02.05 Temperature Control Plans

366.04.02.05.01 Cold Weather

Administrative Activities:

1	-	In the event of cold weather condition, Check that the temperature control plans for all concrete, except fast-track concrete repair, is received.	ı
2	ı	Review the temperature control plan for cold weather condition and Check that the plan is according to OPSS 904.	1
		Additional administrative and inspection activities shall be according to the CAIS 904.	

366.04.02.05.02 Hot Weather

1		Check that a temperature control plan for hot weather conditions is submitted as specified and Review.	1
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366.04.02.06 Curing Compound

Administrative Activities:

1	-	Check that curing compound submissions are as specified in OPSS 904.	-
		Additional administrative and inspection activities shall be according to the CAIS 904.	

366.04.02.07 Effluent Management

Administrative Activities:

1	-	Check that effluent management submissions are as specified in OPSS 350.	-
		Additional administrative and inspection activities shall be according to the CAIS 350.	

366.05 MATERIALS

366.05.01 Bond Breaker

Administrative Activities:

1		-	Check that the bond breaker is as specified in OPSS 366.	-
2	-	-	If proposal using alternative type of material is received, Check with MTO's Quality Assurance Section.	-

366.05.02 Bonding Agent

Administrative Activities:

1	-	Check that the bonding agent is as specified in OPSS 366.	-	
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366.05.03 Burlap

1		ı	Check that the burlap is as specified in OPSS 366.	10%
2	- <	•	Check that the burlaps have no tears or holes.	10%

366.05.04 Concrete

Administrative Activities:

1	-	Check that the concrete and materials for concrete are as specified in OPSS 366.	-
		Additional administrative and inspection activities shall be according to CAIS 1350. Additional administrative and inspection activities for aggregates used for concrete shall be according to CAIS 1002.	

366.05.05 Curing Compound

Administrative Activities:

1	-	Check that the curing compound is as specified in OPSS 366.	-	
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366.05.06 Epoxy Adhesives

Administrative Activities:

1 - Check that the epoxy adhesive is as specified in OPSS 366.	1		1	-	Check that the epoxy adhesive is as specified in OPSS 366.	-
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366.05.07 Expansion Joint Filler

Administrative Activities:

1	- Check that the expansion joint filler is as s	pecified in OPSS 366.
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366.05.08 Moisture Vapour Barrier

Administrative Activities:

1	-	Check that the moisture vapour barrier is as specified in OPSS 366.	-	
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366.05.09 Proprietary Patching Materials

1	-	Request the Ministry's List of Concrete Patching Materials from MTO's Quality Assurance Section.	-
2	-	Check that the proprietary patching materials are suitable for the application and are from the Ministry's list.	-
3	-	Verify the suitability of the proprietary patching material with MTO's Quality Assurance Section.	-

366.05.10 Tie Bars, Dowel Bars and Load Transfer Devices

Administrative Activities:

1	-	Check that tie bars and dowel bars are as specified in OPSS 366.	-
		Additional administrative and inspection activities shall be according to CAIS 1440.	
2	-	Check that tie bars and dowel bars are epoxy coated as specified in OPSS 366.	-
		Additional administrative and inspection activities shall be according to CAIS 1442.	
3	-	Check that load transfer devices are as specified in OPSS 366 and the Contract Documents.	-

366.05.11 Water

Administrative Activities:

1	-	Check that the water is as specified in OPSS 366.	-
		Additional administrative and inspection activities shall be according to CAIS 1302.	

366.06 EQUIPMENT

366.06.01 Air Compressor

Inspection Activities:

1	-	Check that the air compressor is as specified in OPSS 366.	10%	l
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366.06.02 Batching Plant and Delivery Equipment

Inspection Activities:

1	-	Check that the delivery equipment is as specified in OPSS 366.	10%
		Additional administrative and inspection activities shall be according to CAIS 1350.	

1	-	Check that the batching plant is as specified in OPSS 366.	-
		Additional administrative and inspection activities shall be according to CAIS 1350.	

366.06.03 Chipping Hammer

Inspection Activities:

1	-	Check that the chipping hammer is as specified in OPSS 366.	10%	
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366.06.04 Diamond Grinder

Inspection Activities:

1	-	When a diamond grinder is used, Check that the diamond grinder is as specified in OPSS 366.	10%
2	-	Check that the effluent from diamond grinding operations is managed as per OPSS 366.	10%

366.06.05 Gang Drill

Inspection Activities:

1 - Check that the gang drill is as specified in OPSS 366.	1	-	Check that the gang drill is as specified in OPSS 366.	10%
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366.06.06 Hand Finishing Equipment

Inspection Activities:

1	-	Check that the hand finishing equipment are as specified in OPSS 366.	10%
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366.06.07 Placing, Consolidating and Finishing Equipment

Inspection Activities:

1	- Check that the equipment for placing, consolidating, and finishing are as specified in OPSS 366.	10%
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366.06.08 Straight Edge

1	-	Check that the straight edge is as specified in OPSS 366.	10%

366.06.09 Thermocouples and Dataloggers

Inspection Activities:

Ī	1	-	Check that the thermocouples and associated instrumentation are as	10%
			specified in OPSS 366.	

366.07 CONSTRUCTION

366.07.01 Autogenous Cylinder Method Calibration Charts for Fast-Track Concrete Repairs

Administrative Activities:

1	М	When ambient temperature or other conditions are different from the condition described in the submitted calibration chart, request new calibration chart.	-
2	М	Check that the calibration charts for fast-track concrete repair are developed as specified in OPSS 366.	1

366.07.02 Trial Area for Fast-Track Concrete Repairs

Inspection Activities:

1	-	Check that the fast-track trial concrete repair area simulates the Contract site conditions.	25%
2	-	Check that the calibration chart is developed for mix design strength versus temperature and mix design temperature versus time using the autogenous cylinder method as specified in OPSS 366.	25%
3	-	Witness sampling, labelling, packing of core samples as specified in OPSS 366.	100%
4	-	Check that the Contractor has demonstrated an ability to complete fast-track concrete repair within the time frame of lane closure specified in the Contract Documents.	100%
5	-	Inspect the fast-track trial area for deficiencies within 7 Days of placement.	100%

1	М	When the trial area location for fast-track concrete repair is not specified in the Contract Documents, Check that the proposed trial area and location by the Contractor is acceptable.	-
2	М	Notify the Contractor of acceptance or rejection of the proposed trial area location.	-

3	-	Check that the fast-track full depth concrete repair is demonstrated a minimum of 7 Days prior to any concreting operation.	-	
4	М	Check that the cores, a transmittal form, and the MTO form PH-CC-433-A, Concrete Mix Design Submission Form A, the concrete mix design for the fast-track trial area are received.	-	
5	М	Notify the Contractor to proceed with fast-track concrete repairs when the Contractor has demonstrated successfully placement and meets all the requirement specified in OPSS 366.	-	

366.07.03 Operational Constraints

366.07.03.01 General

Inspection Activities:

1	-	Check that operational constraints are as specified in OPSS 366.	100%
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Administrative Activities:

1	Check that a notice of intent to repair the concrete pavement or concrete base is received from the Contractor within the timeline specified in OPSS 366.	-	
	366.		

366.07.03.02 Concrete Base Repairs

Inspection Activities:

1	М	Prior to arranging for FWD testing, Check that the site conditions are acceptable for FWD testing as specified in MERO-053, Section 3.6.	100%
2	-	Check that the exposed concrete base is power swept prior to visual inspection and FWD testing.	100%
3	-	Check that equipment which may cause vibration in the pavement structure is not used within 100 metres of the FWD test area.	100%
4	М	Identify and Notify the Contractor to remove any barriers or obstructions on site that will interfere with the FWD testing.	100%
5	-	Check that the FWD testing is carried out according to LS-449, MERO-053 and Contract Administrator Services Assignment.	25%

1 M For concrete base repairs, receive notification of asphalt pavement ren as specified in OPSS 366.	al -
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2	M	Arrange visual inspection and/or FWD testing on exposed concrete base surface after receiving notification of asphalt removal timing from the Contractor. The visual inspection and/or FWD Testing on the exposed concrete base surface shall be carried out no later than 3 Business Days after the area has been power swept. If the deadline cannot be met due to weather conditions, the Contract Administrator shall propose a new timeline acceptable to the Owner.	-
3	M	Check that FWD testing is performed by a service provider from the List of Approved Falling Weight Deflectometer (FWD) Testing Service Providers. Refer to LS-449, MERO-053 for specified testing, and Contract Administrator Service Assignment.	-
4	М	FWD Data Analysis Report shall be provided to the MTO within 3 Business Days of completion of the fieldwork.	-

366.07.03.03 High Early Strength Concrete Repairs

Inspection Activities:

1	-	Check that high early strength concrete repairs are completed within the time period as specified in the Contract Documents.	100%
2	-	Check whether the high early strength concrete repair is progressing at a rate that will permit the full restoration of traffic within the specified time period.	100%
3	-	Check the temporary work is replaced by the high early strength concrete repair during the next schedule closure.	100%

Administrative Activities:

1	-	When the high early strength repair work is not progressing at a rate that will permit traffic restoration, Notify the Contractor that temporary measures need to be used.	-
2	-	Review the Contractor's proposed temporary measures and Notify the Contractor if the plan is acceptable or unacceptable.	-

366.07.03.04 Fast-Track Concrete Repairs

1	-	Check that fast-track concrete repairs are completed within the time period as specified in the Contract Documents.	100%
2		Check whether the fast-track concrete repair is progressing at a rate that will permit the full restoration of traffic within the specified time period.	100%

3	Check the temporary works is replaced by the fast-track concrete repair during the next schedule closure.	100%
	during the next schedule closure.	

Administrative Activities:

1	-	Check that fast-track concrete repairs are not placed between Oct 1 and May 1.	100%
2	-	When the fast-track concrete repair work is not progressing at a rate that will permit traffic restoration, Notify the Contractor that temporary measures need to be used.	-
3	-	Review the Contractor's proposed temporary measures and Notify the Contractor if the plan is acceptable or unacceptable.	-

366.07.04 Concrete Removal

366.07.04.01 Full Depth Repairs

Inspection Activities:

1	М	Identify and demarcate the full depth removal areas. Notify and consult with MTO's Quality Assurance Section if there are any discrepancies between the design and the existing conditions.	100%
2	-	Check that concrete removal for full depth repairs is as specified in OPSS 366.	100%
3	-	When the adjacent concrete in the lane is damaged or cracked due to the removal procedure, direct to cut back and repair as specified. Check the repair, Notify the Contractor for acceptance or rejection.	100%
4	-	Check that underlying material disturbed, removed, or damaged are repaired and/or replaced as specified. Additional administrative and inspection activities shall be according to CAIS 320 for OGDL and CAIS 1010 for granular materials.	50%

366.07.04.02 Partial Depth Repairs

1	М	Identify and demarcate the partial depth repair areas. Notify and consult with MTO's Regional Quality Assurance Section if there are any discrepancies between the design and the existing conditions.	100%
2	-	Check that concrete removal for partial depth repairs is as specified in OPSS 366.	100%
3	М	When the Contractor proposed to replace a partial depth repair with a full depth repair, Notify the Contractor of acceptance or rejection.	50%

366.07.05 Preparation Work

Inspection Activities:

1	1	Check the preparation work for full depth repairs and partial depth repairs are	100%
		as specified in OPSS 366.	

366.07.06 Joints for Full Depth Repairs

366.07.06.01 General

Inspection Activities:

1		Check that joints for concrete pavement and concrete base are as specified in OPSS 366.	100%
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366.07.06.02 Installation of Dowel Bars and Tie Bars

366.07.06.02.01 General

Inspection Activities:

1	-	Check that installation of dowel bars and tie bars are as specified in OPSS 366.	100%
2	-	Check that the dowel bars and load transfer devices (when applicable) are shop-coated with an accepted bond breaker by checking the tag on the dowel bar bundles and by visually checking the surface of the dowel bars and load transfer devices.	100%
3	-	Check that adhesive is fully cured prior to placing concrete by pulling a couple of bars.	25%

366.07.06.02.02 Installation Tolerances

1 - Check that dowel bars and tie bars are installed within the specified allowable installation tolerances specified in OPSS 366.	100%
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366.07.06.03 Transverse Joints

Inspection Activities:

1	-	Check that transverse joints are as specified in OPSS 366.	100%
2	-	Check that the expansion joints is placed and/or replaced as specified in OPSS 366.	50%

366.07.06.04 Mid-Lane Longitudinal Joints for Fast-Track Concrete Repairs

Inspection Activities:

1	-	Check that the mid-lane longitudinal joints are as specified in OPSS 366.	100%
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366.07.06.05 Sawcutting, Cleaning and Sealing of Joints

Inspection Activities:

1	-	Check that sawcutting, cleaning and sealing of joint are carried out as specified in OPSS 366.	100%
		Administrative and inspection activities shall be according to the CAIS 369.	

366.07.07 Production of Concrete

1	-	Check that production of concrete is as specified in OPSS 366.	1000/
		Additional administrative and inspection activities shall be according to CAIS 1350.	100%

366.07.08 Placing of Concrete

Inspection Activities:

1	-	If demonstration of the equipment is required, Inspect the demonstration of the placing equipment and Check that the trial section meets the specified requirements.	100%
2	-	Check that the placing of concrete is as specified in OPSS 366.	50%
		Additional administrative and inspection activities shall be according to CAIS 350.	

Administrative Activities:

1		Consult with MTO's Quality Assurance Section to determine if a demonstration of the placing equipment to be used is required.	-
2	-	Notify the Contractor whether the demonstration is required.	-

366.07.09 Consolidating

Inspection Activities:

1	-	Check that consolidating of concrete is as specified in OPSS 366.	50%
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366.07.10 Concrete Finishing

Inspection Activities:

1	-	Check that concrete finishing is as specified in OPSS 366.	50%
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366.07.11 Texturing of Pavement Surface

Inspection Activities:

1	-	Check that texturing of pavement surface is as specified in OPSS 366	50%
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366.07.12 Curing

1	-	Check that curing is as specified in OPSS 366.	50%	l
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366.0	7.13	Retaining Heat for High Early Strength Concrete and Fast-Track Concrete Repairs				
Inspe	ction A	Activities:				
1		No inspection activities.	-			
366.07.14		Cold Weather Protection – Conventional and High Early Strength Concrete Repairs				
366.0	7.14.0	01 General				
Inspe	ction A	Activities:				
1	-	Check that cold weather protection is as specified in OPSS 366.	100%			
366.0	7.14.0	Monitoring and Control of Temperature				
Inspe	ction A	Activities:				
1	-	Check that monitoring and control of temperature is as specified in OPSS 366.	100%			
366.0	7.14.0	Submission of Temperature Records				
Admir	nistrati	ive Activities:				
1	-	Receive and Review the submitted temperature records. Notify MTO's Quality Assurance Section if any specified requirements are not met.	-			
366.0	7.15	Surface Tolerance				
Inspe	ction A	Activities:				
1	-	Check that the surface tolerance is as specified in OPSS 366.	50%			
Admir	nistrati	ive Activities:				
1	М	Prior approval is required for the use of diamond grinding to meet the surface tolerance requirements. If applicable, Check that a request to use diamond grinding is received and Notify the Contractor of approval status.	-			

366.07.16 Material Sampling and Testing

366.07.16.01 Slump, Air Content and Temperature

Inspection Activities:

1	-	Check that plastic concrete sampling, testing, acceptance and field adjustments, visual acceptance and submission of plastic concrete test results are as specified in OPSS 366.	50%
		Additional administrative and inspection activities shall be according to CAIS 1350.	

366.07.16.02 Coring for 28-Day Compressive Strength and Air Void System Parameter Testing

Inspection Activities:

1	М	Witness sampling, labelling, packing of core samples as specified in OPSS 366.	100%
2	-	Check that each sample hole is filled as specified in OPSS 366. Additional administrative and inspection activities shall be according to CAIS 1350.	100%

Administrative Activities:

1	М	Select random core sampling locations.	-
2	M	Receive the cores, a transmittal form, and the MTO form PH-CC-433-A, Concrete Mix Design Submission Form A, the concrete mix design for the concrete pavement or concrete base.	1
3	М	Deliver the core samples to the designated laboratory for testing.	-

366.07.16.03 Early Strength Determination for Conventional Concrete Repairs

1	-	Witness sampling, labelling, and packing of core samples as specified in OPSS 366.	100%
2	-	Check that each sample hole is filled as specified in OPSS 366. Additional administrative and inspection activities shall be according to CAIS 1350.	100%

Administrative Activities:

1	М	For conventional concrete repairs, the Contractor may elect to take cores for early strength determination. Check that advance notice of coring for early strength determination is received and arrange testing with the designated quality assurance laboratory.	-
3	М	Deliver the core samples to the designated laboratory for testing.	-

366.07.16.04 Early Strength Determination for High Early Strength Repairs

Inspection Activities:

1	-	Check that the cylinders for early strength determination for high early strength repairs are prepared and delivered as specified.	50%
2		Check that the repairs are only opened to the traffic when early strength determination cylinders have attained an average compressive strength of 20 MPa or greater.	50%

Administrative Activities:

1		Receive notification from the Contractor for the date and time for early strength determination for cylinders. Arrange with the designated laboratory for testing of samples delivered by the Contractor.	-
2	-	Check that the compressive strength test results are received for each closure prior to re-opening the lane to traffic.	-

366.07.16.05 Early Strength Determination for Fast-Track Concrete Repairs

Inspection Activities:

1	-	Check that the autogenous cylinders for early strength determination for fast-track concrete repairs are prepared as specified.	50%
2	-	Check that thermocouple or sensors are installed as specified.	100%
3	-	Verify temperature readings periodically.	25%
4	-	Check that the repaired slab is only opened to the traffic when the slab temperature has reached at least the same temperature as the cylinders which attained a compressive strength of 20 MPa or greater.	50%

Check that the concrete testing laborat OPSS 366.	fied in -
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2		Receive the temperature record for the repaired slab and autogenous cylinders, and the compressive strength test results for each closure prior to re-opening the lane to traffic.	-
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366.07.17 Unacceptable Repair Areas

Inspection Activities:

1		Check that concrete found to be unacceptable is removed and replaced with new concrete, as specified in OPSS 366.	100%
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Administrative Activities:

1	-	When concrete does not meet the surface tolerance, correction by diamond grinding in lieu of removal and replacement may be accepted. Check that the request to use diamond grinding is received.	-
2	-	Check that the use of diamond grinding is approved by the Owner and Notify the Contractor.	-

366.07.18 Management of Excess Material

Inspection Activities:

1	- Check the excess materials are managed as specified in OPSS 366.	25%	
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366.08 QUALITY ASSURANCE

366.08.01 Acceptance of Concrete Pavement and Concrete Base Repairs

Inspection Activities:

1	-	Check that all the specified requirements are met.	100%
2		Check that all rejected areas/lots are removed and replaced or repair if accepted by the Owner.	100%

1	-	Notify MTO's Quality Assurance Section of any requirement that are not met.	ı

366.08.02 Lot Size for 28-Day Compressive Strength and Air Void System Acceptance Testing

Administrative Activities:

1	-	Establish the sizes and numbers of concrete lots as specified in OPSS 366	-
		and Notify the Contractor.	

366.08.03 Acceptance of 28-Day Compressive Strength

366.08.03.01 General

Inspection Activities:

1	-	Check that rejected concrete lots are removed and replaced as specified.	100%
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Administrative Activities:

1	-	Check and Review compressive strength test results for each lot.	-
2	-	Forward the test result to the Contractor as they become available.	-
3	-	Notify MTO's Quality Assurance Section for any unacceptable lot.	-
4	М	Notify the Contractor of unacceptable and acceptable lots as necessary. Unacceptable lots shall be rejected, removed and replaced.	-

366.08.03.02 Referee Testing

366.08.03.02.01 General

Inspection Activities:

1	М	Witness sampling, labelling, packing of core samples as specified in OPSS 366.	100%
2	-	Check that each sample hole is filled as specified in OPSS 366. Additional administrative and inspection activities shall be according to CAIS 1350.	100%

1	М	Check that a written request to invoke referee testing is received as specified in OPSS 366.	-
2	М	Perform the referee workflow as specified in CAIS 100, MTO Construction Administration General Conditions (CAGC).	100%
3	-	Complete MTO form PH-CC-885 Concrete Referee Testing Request and submit it to the MTO's Quality Assurance Section.	-

4	-	Check referee testing process is performed as specified. Additional administrative and inspection activities shall be according to the CAIS 1350.	-
5	-	Check that the new set of cores are obtained within the specified timeframe of invoking referee testing.	-
6	-	Forward the referee test results to the Contractor as they become available.	-

366.08.03.02.02 Referee Testing Cost

Administrative Activities:

1	-	Determine who is responsible for the referee testing cost.	-	
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366.08.04 Acceptance of Air Void System in Hardened Concrete

366.08.04.01 General

Inspection Activities:

1	-	Check that rejected concrete lots are removed and replaced as specified.	100%
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Administrative Activities:

1	-	Check and Review air void system test results for each lot.	-
2	-	Forward the test result to the Contractor as they become available.	-
3	-	Notify MTO's Quality Assurance Section for any unacceptable lot.	-
4	М	Notify the Contractor of unacceptable and acceptable lots as necessary. Unacceptable lots shall be rejected, removed and replaced.	-

366.08.04.02 Referee Testing

366.08.04.02.01 General

Inspection Activities:

1	М	Perform the referee workflow as specified in CAIS 100, MTO Construction	100%
		Administration General Conditions (CAGC).	

1	М	Check that a written request to invoke referee testing is received as specified in OPSS 366.	-
2	М	Perform the referee workflow as specified in CAIS 100, MTO Construction Administration General Conditions (CAGC).	100%

3	3		Complete MTO form PH-CC-885 Concrete Referee Testing Request and submit it to the MTO's Quality Assurance Section.	1	
4			Check referee testing process is performed as specified. Additional administrative and inspection activities shall be according to the CAIS 1350.	-	
5	5	-	Forward the referee test results to the Contractor as they become available.	-	l

366.08.04.02.02 Referee Testing Cost

Administrative Activities:

1	-	Determine who is responsible for the referee testing cost.	-	
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366.08.05 Falling Weight Deflectometer Acceptance Testing

366.08.05.01 General

Inspection Activities:

1	М	Prior to arranging for Quality Assurance (QA) FWD testing, Check the site condition are acceptable for FWD testing as specified in MERO-053, Section 3.6.	100%
2	-	Check that equipment which may cause vibration in the pavement structure is not used within 100 metres of the FWD test area.	100%
3	М	Identify and Notify the Contractor to remove barriers or obstructions on the field that will interfere with the QA FWD testing.	100%
4	-	Check that the QA FWD testing is carried out according to LS-449, MERO-053 and Contract Administrator Service Assignment.	100%

1	М	Receive, from the Contractor, written notification that the repaired concrete section condition is sufficient to support traffic loading.	-
2	-	Check that FWD testing for concrete slab QA acceptance is performed by a service provider from the Approved List of FWD Testing Service Providers. Refer to LS-449 and MERO-053 for specified testing and Contract Administrator requirements.	-
3	1	The QA FWD Service Provider shall carry out the FWD testing when the repair concrete section condition is sufficient to support traffic loading and no later than 5 Business Days after a repaired section is completed. If the deadline cannot be met, the Contract Administrator shall propose a new timeline acceptable to the Owner.	-
4	-	Check that the FWD testing plan, location and frequency are selected as specified.	-

5	-	Select the wheelpath for QA testing on the repaired concrete slab randomly and inform the QA FWD Testing Service Provider.	-
6	М	Discuss with the QA FWD Testing Service Provider if the current site conditions do not meet the testing requirement.	-
7	М	Notify the QA FWD Testing Service Provider that the site is ready for testing.	-
8	М	Mark the location of the FWD loading plate and first sensor for each test, to verify that the FWD is placed in the same location with the same sensor arrangement for referee testing, if invoked.	100%
9	М	Check the QA FWD results. Provide FWD Data Analysis Report to the MTO's Quality Assurance Section and Contractor within 3 Business Days of completion of the fieldwork.	100%

366.08.05.02 Referee Testing

Inspection Activities:

1	М	Perform the referee workflow as specified in CAIS 100, MTO Construction Administration General Conditions (CAGC).	100%
2	-	Check referee testing process is performed as specified.	100%
3	-	Check that the FWD loading plate and first sensor are placed at the same location as the sensor arrangement marked for QA FWD Testing.	100%

Administrative Activities:

1	М	Check that a written request to invoke referee testing is received as specified.	-
2		Complete MTO form PH-CC-465 FWD Referee Testing Request and submit it to MTO's Quality Assurance Section.	
3	-	Forward the referee test results to the Contractor as they become available.	-

366.08.05.03 Referee Testing Cost

Administrative Activities:

1	-	Determine who is responsible for the referee testing cost.	-
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366.08.06 Acceptance of Surface Tolerance

1	-	Check all repaired areas to verify that the surface tolerance requirements are	100%
		met.	

Administrative Activities:

1	М	Notify the Contractor of any repair areas that do not meet the surface tolerance specified. Unacceptable repair areas shall be rejected, removed, and replaced.	-
2	-	Concrete that does not meet the surface tolerance may be corrected by diamond grinding in lieu of removal and replacement. Check that a request is submitted and approved by the Owner.	-

366.08.07 Defects

Inspection Activities:

1	-	Check all repair areas are free of defects as specified in OPSS 366.	100%
2	-	Check that unacceptable repair areas shall be rejected, removed, and replaced.	100%

Administrative Activities:

1	М	Notify the MTO's Quality Assurance Section of the presence of any defects.	1
2	-	Notify the Contractor of the presence of any defects.	-

366.09 MEASUREMENT FOR PAYMENT

Administrative Activities:

1	-	Measurement for payment shall be as specified in OPSS 366.	-
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366.10 BASIS OF PAYMENT

1	-	Basis of payment shall be as specified in OPSS 366.	-
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