



CPM COMMISSIONING ELEVATOR UNIT

TRACTION ELEVATOR CONSTRUCTION & COMMISSIONING SEQUENCE AS OF				
CONTRACT # C-40241		ELEVATOR #		
Item	Description of Task	Dates		Relating parties
		Expect.	Complete	
1.	Elevator Shop Drawings & Catalog Cuts Submittals (see submittals log)			
1.1.	Controller Wiring Schematics review & approval			
1.1.1.	Controller Drawings – to include Traction Limit monitor per ASME requirement			
1.1.2.	Controller Drawings – include Governor Tension Safety Switch			
1.1.3.	Catalog Cuts – Controller components & parts			
1.2.	Controller Test Procedures review & approval			
1.2.1.	Test Procedure - Elevator Emergency Automatic Operation			
1.3.	Elevator Machine Room Coordination Layout review & approval			
1.4.	Shop Drawings – coordination of Channel-Rail Base in the elevator pit with details			
1.5.	Shop Drawings – Coordination and details for elevator rails Z-brackets and structural brackets			
1.6.	Catalog Cut for Governor			
1.7.	Catalog Cut for Counterweight – To include spacer for filler plates displacement			
1.8.	Catalog Cuts: Governor, Governor Tension Device, Main Drive Machine, all Deflector Sheaves – To include Rope Retainer Guards			
1.9.	Catalog Cut – Emergency Car Power Supply			
1.10.	Catalog Cuts – Terminal Boxes and Terminal Strips for elevator wiring			
1.11.	Catalog Cut for Leveling/Selector system			
1.12.	Catalog Cut – Elevator Cab Flooring			
1.13.	Catalog Cut –submit Travel Cable type ETT			
1.14.	Shop Drawings – Elevator electrical conduits routing inside Hoistway and for Car, with details for installation of conduit brackets on square tubing of elevator shaft structure			
1.15.	Shop Drawings – Elevator cab conduits & wiring			
1.16.	Submittal & approval for elevator signs, nameplates & tags			
1.17.	O&M submittals			
1.18.	Submittals for syllabus & training manuals			
2.	ELEVATOR CONSTRUCTION			
2.1.	DEMOLITION AND REMOVALS			
2.1.1.	Barricades erection			
2.1.2.	Old elevator demolition or new shaft construction			
2.2.	SYSTEMS INTEGRATION			

2.2.1	Elevator Intercoms (talk-back system)			
2.2.1.1.	Request telephone numbers and/or IPs for phone in machine room and for intercoms.			
2.2.1.2.	Conduits, wiring and connection termination			
2.2.1.3.	System pre-test by contractor			
2.2.2.	Fire Alarm			
2.2.2.1.	Installation of smoke heads, relays, etc.			
2.2.2.2.	Completion of conduits, wiring and connections			
2.2.2.3.	System pre-test with Fire Alarm Vendor			
2.2.3.	ELEVATOR INSTALLATION PROGRESS			
2.2.3.1.	Elevator Shaft Survey & Verification (N/A for existing shaft)			
2.2.3.2.	Installation of Channel-Rail Base in the pit			
2.2.3.3.	Installation of Structural Brackets on elevator shaft structure			
2.2.3.4.	Installation of Guide Rails Z-Brackets			
2.2.3.5.	Installation of Car & Counterweight Guide Rails			
2.2.3.6.	Guide Rails Alignment Hold Point Inspection			
2.2.3.7.	Installation of pit ship ladder			
2.2.3.8.	Installation of pit sump pump and pit drainage			
2.2.3.9.	G/C and other trades work in hoist way			
2.2.3.10.	G/C and other trades work in Elevator Machine Room			
2.2.3.11.	Elevator Cab Factory Acceptance (FAT)			
2.2.3.12.	Delivery of Cab			
2.2.3.13.	Installation of drive machine			
2.2.3.14.	Installation of buffers, car & counterweight slings and platform			
2.2.3.15.	Roping of elevator & filling of counterweight			
2.2.3.16.	Installation & Powering Up for machine room EDB panels and elevator Main Line Disconnect switch			
2.2.3.17.	Installation of conduits and light fixtures for machine room and in hoistway			
2.2.3.18.	Installation of HVAC in machine room			
2.2.3.19.	Installation of electrical conduits for controller and drive machine			
2.2.3.20.	Installation of elevator controller and wiring in construction mode. Temporary elevator run			
2.2.3.21.	Commissioning Observation list walkthrough #1			
2.2.3.22.	Building of elevator Cab, installation of car panels, electrical boxes, Top of Car devices & guard railing (outriggers)			
2.2.3.23.	Installation of Door Operators			
2.2.3.24.	Installation of Hoistway & Car Door Sills/ Entry Ways			
2.2.3.25.	Shaft Clearances Verification Hold Point Inspection (running platform)			
2.2.3.26.	Installation of elevator door frames, door tracks, doors and door locks			
2.2.3.27.	Grout Door Sills and Entry Ways			
2.2.3.28.	Installation of Hall & Car Stations			
2.2.3.29.	Sealing, caulking gaps and holes into hoistway			
2.2.3.30.	Installation of elevator safety switches & sensors in hoistway			
2.2.3.31.	Installation of Fascia in elevator shaft			

2.2.3.32.	Installation and wiring of elevator hoistway conduits and selector unit			
2.2.3.33.	Commissioning Observation list walkthrough update #2			
2.2.3.34.	Pit Sump Pump - wiring & heat tracing for exposed drain line			
2.2.3.35.	Installation of pit lighting			
2.2.3.36.	Installation of Travel cables and elevator wiring termination			
2.2.3.37.	Installation of intercom & CCTV camera inside the car			
2.2.3.38.	Installation of communication travel cables and communication wiring termination			
2.2.3.39.	Installation of Fire Alarm conduits and devices inside hoistway and in machine room			
2.2.3.40.	100% completion and sealing of hoistway enclosure			
2.2.3.41.	Mechanical & Electrical Adjustments and alignments			
2.2.3.42.	Painting & Clean Up inside hoistway			
2.2.3.43.	Glass work - Cab & Doors, Mylar, etc.			
2.2.3.44.	Epoxy flooring inside the cab			
2.2.3.45.	Commissioning Observation list walkthrough update #3			
2.2.3.46.	Completion of G.C. & other trades work inside hoistway (tagging, nameplates, signs, etc.)			
2.2.3.47.	Calibration & Mechanical Code Compliance Hold Point			
2.2.3.48.	Necessary Corrections & re-adjustments			
2.2.3.49.	Install five-year tags			
2.2.3.50.	Painting & Clean Up inside Machine Room			
2.2.3.51.	Completion of G.C. & other trades work inside machine room and outside hoistway. (Tagging, nameplates, signs, etc.)			
2.2.3.52.	Pit drainage/ Sump pump operation witnessing			
2.2.3.53.	Fire Alarm/ Fire Recall Test (DOB/ System Safety)			
2.2.3.54.	Intercom tests (DOB)			
2.2.3.55.	ADA compliance inspection (CPM ADA group)			
2.2.3.56.	System Safety group inspection			
2.2.3.57.	ASME Doors Inspection Module –	Cx + Contractor PRE-TESTS		
2.2.3.58.	ASME Electrical Inspections Module			
2.2.3.59.	ASME Traction Inspections Module			
2.2.3.60.	ASME General Part Module			
2.2.3.61.	Commissioning Observation list walkthrough update #4			
2.2.3.62.	Controller functionality field tests			
2.2.3.63.	ASME Doors Inspection Module	AHJ FINAL ACCEPTATION		
2.2.3.64.	ASME Electrical Inspections Module			
2.2.3.65.	ASME Traction Inspections Module			
2.2.3.66.	ASME General Part Module			
2.2.3.67.	O&M and laminated electrical drawings delivery in EMR			
2.2.4	E&E PERSONNEL TRAINING			
2.2.4.1.	Coordinating of schedules, syllabus & training manuals			
2.2.4.2.	Mechanical Training			
2.2.4.3.	Controller Training			
2.2.5.	Concurrence Letters: <ul style="list-style-type: none"> - Department Of Buses (Sump pump operation; Fire Alarm; Intercom); - ADA Compliance letter; - System Safety letter; 			

2.2.6	8 hours 75% load - operation test			
3.	Placement into Service – Letter from NYCT Department Of Buses			
3.1.	Issue of Punch List for open items			
3.2.	Closing of punch list items			
3.4.	Start of warranty period			