

Spec Section	DESCRIPTION	SUB / VENDOR	Rec'd	Electronic Copy	Hard Copies (7)	REQUIRED DOCUMENTS										COMMENTS	
						Field Test Reports	Maintenance Data	Operation Data	Emergency Data	Commissioning	Demonstration / Training	Maintenance Service	Parts Catalog	# of Years	Special Warranty		
013233	Construction Photos	DBK															Final Completion Construction Photos; after Substantial Completion
071700	Bentonite Waterproofing	S&S				X										5	
074113	Metal Roof Panels	DKG				X	X									2	
	Panel Finishes	DKG				X	X									20	
	Weather-Tightness	DKG				X	X									20	
	Weather-Tightness Standing Seam Metal Roof Panels	DKG				X	X									20	
074213	Metal Wall Panels	DKG				X	X									2	
	Exposed Panel Finishes	DKG				X	X									20	
074216	Insulated-Core Metal Wall Panels	DKG				X	X									2	
	Exposed Panel Finishes	DKG				X	X									20	
076200	Sheet Metal Flashing & Trim Finish	DKG				X	X									20	
077100	Roof Specialties	DKG					X									20	
	Finish Warranty	DKG					X									20	
078100	Applied Fireproofing	Sprayworks				X										2	
079200	Joint Sealants	S&S				X											
	Special Installer's Warranty	S&S				X										5	
	Special Manufacturer's Warranty	S&S				X										5	
084113	Aluminum-Framed System	Champion				X	X									5	
	Aluminum System Finish	Champion				X	X									5	
084523	Fiberglass-Sandwich-Panel Assembly:	DKG					X										
	Special Assembly Warranty	DKG					X									5	
	Special Fiberglass-Sandwich-Panel Warranty	DKG					X									10	
	Special Aluminum-Finish Warranty	DKG					X									10	
087100	Door Hardware:	Tru-Fit					X										Provide Key Control Cabinet
	Hardware	Tru-Fit					X									3	
	Exit Devices	Tru-Fit					X									2	
	Manual Closers	Tru-Fit					X									10	
088000	Glazing	Champion															
	Coated-Glass Products Warranty	Champion														10	
	Laminated Glass Warranty	Champion														5	
	Insulating Glass Warranty	Champion														10	
088300	Mirrors	Dist of FL					X									5	
093000	Tiling	Moyer															Provide Master Grade Certificates Tile & Trim Units: 3% of each type units and grout
095123	Acoustical Tile Ceilings	Center Bros	3/31	X	X		X										Acoustical Tiles & Suspension System Components: 2% installed
096519	Resilient Tile Flooring	Moyer	4/15	X	X		X										Resilient Base & accessories: 10 LF for every 500 LF installed
096813	Tile Carpeting	Moyer	4/15	X	X		X							10			5% installed but not less than 10 SY

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099123	Interior Painting	Pro Pt														5% installed but not less than 1 Gal each type used
099600	High Performance Coatings	Pro Pt														5% installed but not less than 1 Gal each type used
101100	Visual Display Surfaces	Dist of FL					X							Lifetime		Warranty Period: Life of the building
102113	Toilet Compartments	Dist of FL					X									
102116	Shower and Dressing Compartments	SWP					X									See Plumbing Fixtures
102800	Toilet, Bath and Laundry Accessories	Dist of FL					X						15		Mirror Warranty	
104413	Fire Extinguisher Cabinets	Dist of FL					X									
104416	Fire Extinguishers	Dist of FL					X						6			
105113	Metal Lockers	Dist of FL					X						2		10% installed but not less than 5 units of locks, ID plates and hooks	
105213	Projection Screens	Dist of FL					X									
122113	Horizontal Louver Blinds	DBK					X								5% installed	
124813	Entrance Floor Mats & Frames	Dist of FL					X								Entrance Tiles: Full-size units 2% for each size, color, and pattern indicated.	
142100	Elevator	Otis					X			X			1		Include preventive maintenance 24 hour emergency service for one year	
	Certificates of readiness									X					See checklist in commissioning plan	
	Certificates of completion of installation, prestart, and startup activities.									X						
	Elevator - Maintenance Control Program (MCP)	Otis	3/31	X											Provide quote for 5 year Preventive Maintenance Agreement	
211313	Wet-Pipe Sprinkler Systems	McGilvray				X	X	X	X						Sprinkler Cabinet: 1 cabinet for each type used on job with 6 spare sprinklers plus wrench each.	
213113	Electric-Drive, Centrifugal Fire Pumps	McGilvray				X	X	X	X	X						
213123	Fire Pump Systems, Interlocking Wall-type enclosure	McGilvray				X	X	X								
213400	Pressure-Maintenance Pumps	McGilvray				X	X	X	X							
213900	Controllers for Fire-Pump Drivers	McGilvray				X	X	X	X	X					timers, controls and alarm points, testing, adjusting and reprogramming microprocessor-based logic	
	Extra Materials:	McGilvray													Indicating Lights: 2 of each type & color lens and 2 of each type & size lamp	
		McGilvray													Auxiliary Contacts: 1 for each size and type of magnetic contactor installed	
		McGilvray													Power Contacts: 3 for each size and type of magnetic contactor installed	
		McGilvray													Contactors Coils: 1 for each size and type of magnetic controller installed	
		McGilvray													Relay Boards: 1 for each size and type of relay board installed	
		McGilvray													Operator Interface: 1 microprocessor board, complete with display and membrane keypad	

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220519	Meters and Gages for Plumbing Piping	SWP	3/31	X	X		X	X									
221113	Facility Water Distribution Piping	McGilvray				X	X	X									
221119	Domestic Water Piping Specialties	SWP	3/31	X	X		X	X									
221123	Domestic Water Pumps	SWP	3/31	X	X		X	X									
221123.13	Domestic-Water Packaged Booster Pumps	SWP	3/31	X	X		X	X	X		X						
221313	Facility Sanitary Sewers	Redland				X											
221316	Sanitary Waste and Vent Piping	SWP				X											
221329	Sanitary Sewerage Pumps	Redland	3/31	X	X		X	X			X				1		
221413	Facility Storm Drainage Piping	SWP				X											
221513	General-Service Compressed-Air piping	SWP				X	X	X	X								
221519	General-Service Packaged Air Compressors and Receivers	SWP					X	X	X		X						
223300	Electric Domestic Water Heaters	SWP	3/31	X	X	X	X	X	X		X						
412213.15	Instantaneous Electric Water Heater	SWP	3/31	X	X							X		5			
	Commercial Electric: Storage Tank	SWP												10			
	Commercial Electric Controls & Components	SWP												5			
	Compression Tanks	SWP												1			
224000	Plumbing Fixtures	SWP	3/31	X	X		X	X	X					3			
	Faucet Washers & O-rings	SWP															10% installed
	Faucet Cartridges & O-rings	SWP															5 % installed
	Flushometer Valve, Repair Kits	SWP															10% installed but not fewer than 10 of each type
	Hinged-top wood or metal box for above	SWP															
	Toilet Seats	SWP															5% installed
224500	Emergency Plumbing Fixtures	SWP	3/31	X	X	X	X					X					
224700	Drinking Fountains and Water Coolers	SWP	3/31	X	X	X	X	X	X					1.5			10% filter cartridges for each type installed, but not fewer than 5 of each type
230548	Vibration Controls for HVAC Piping and Equipment	Hyvac					X	X			X						
230553	Identification for HVAC Piping and Equipment	Hyvac					X										Valve Schedules: For each piping system to include in maintenance manual.
230593	Testing, Adjusting, and Balancing for HVAC	Hyvac				X											Certified TAB Reports
230800	Commissioning of HVAC	Hyvac								X							
	Certificates of readiness	Hyvac								X							
	Certificates of completion of installation, prestart, and startup activities.	Hyvac								X							See checklist in commissioning plan
232123	Hydronic Pumps	Hyvac					X	X	X								N/A
232300	Refrigerant Piping	Hyvac				X	X										
233113	Metal Ducts	Hyvac				X											Leakage Tests
233300	Air Duct Accessories	Hyvac					X	X									
233423	HVAC Power Ventilators	Hyvac		X		X	X	X	X								
236200	Packaged Compressor and Condenser Units	Hyvac		X		X	X	X	X		X			5			

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237313	Modular Indoor Central-Station Air-Handling Units	Hyvac		X		X	X	X	X		X					Filters: Two sets for each unit. Fan Belts: One set for each unit fan.
238126	Split-System Air-Conditioners	Hyvac		X		X	X	X	X		X			5		Filters: One set for each unit. Fan Belts: One set for each unit.
260519	Low-Voltage Electrical Power Conductors and Cables	Nagelbush				X										
260526	Grounding and Bonding for Electrical Systems	Nagelbush				X	X	X	X							
260543	Underground Ducts and Raceways for Electrical Systems	Nagelbush				X										10% of each item installed for cable-support stanchions, arms and associated fasteners.
260553	Identification for Electrical Systems	Nagelbush														Identification Schedule: An index of nomenclature of electrical equipment and system components used in identification signs and labels.
260573	Overcurrent Protective Device Coordination Study	Nagelbush								X						
	Coordination-study input data, including completed computer program input data sheets.										X					
	Study and Equipment Evaluation Reports.										X					
	Coordination-Study Report.										X					
260800	Commissioning of Generator	Nagelbush	3/31	X	X		X	X			X					
	Certificates of readiness	Nagelbush									X					
	Certificates of completion of installation, prestart, and startup activities.	Nagelbush									X					See checklist in commissioning plan
260923	Lighting Control Devices	Nagelbush				X	X	X	X		X					
260936	Modular Dimming Controls	Nagelbush				X					X					
262200	Low-Voltage Transformers	Nagelbush	3/31	X	X	X	X	X	X							
262413	Switchboards	Nagelbush	3/31	X	X									5		Potential Transformer Fuses: 10% > two Control-Power Fuses: 10% > two Fuses & Fusible Dev- Fused Circuit Breakers: 10% > three Fuses for Fused Switches: 10% > three Fuses for Fused Power-Circuit Devices: 10% > three Indicating Lights: 10% > one
262416	Panelboards	Nagelbush	3/31	X	X	X	X	X	X		X			5		Panelboard Schedules: Submit final versions after load balancing. 2 spare keys for each type of panelboard cabinet lock Circuit Breakers incl GFCI and GFEP: 2 spares for each panelboard. Fuses for Fused Switches: 10% > 3. Fuses for Fused Power-Circuit Devices: 10% > 3
262416	Panelboard Lighting Control System	Nagelbush	3/31	X	X		X	X						1		Wiring and routing diagrams must be in O&Ms; provide quote for maintenance and service agreement following warranty period

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262713	Electricity Metering	Nagelbush				X	X	X									* See spec section for detailed requirements for O&M; provide tech support for 2 years and complimentary upgrades during this 2 years
262726	Wiring Devices	Nagelbush				X	X	X	X								Floor Service Outlet Assemblies: 1 for every 10 > 2 TVSS Receptacles: 1 for every 10 of each type > 2
262816	Enclosed Switches and Circuit Breakers	Nagelbush	3/31	X	X	X	X	X	X								Fuses: 10% installed > 3 each size & type Fuse Pullers: 2 for each size and type.
262913	Enclosed Controllers	Nagelbush				X	X	X	X		X						* See spec section for detailed requirements for O&M; Fuses for Fused Swithces: 10% installed > 3 each size & type Control Power Fuses: 10 % installed > 2 each size & type Indicating Lights: 2 of each type and color installed Auxiliary Contacts: One spare for each size and type of magnetic controller Power Contacts: 3 spares for each size and type of magnetic contactor
263213	Engine Generators	Nagelbush	3/31	X	X	X	X	X	X		X	1				2	Provide a list of tools recommended to bestore at project for ready access including part numbers, current prices and source of supply; Fuses: 1 for every 10 of each type and rating Indicator Lamps: 2 for every 6 of each type > 2 Filters: 1 set each of lubricating oil, fuel and combustion-air filters
263600	Transfer Switches	Nagelbush	3/31	X	X	X	X	X	X		X					1	* See spec section for detailed requirements for O&M
264113	Lightning Protection for Structures	Nagelbush				X											
264313	TVSS devices	Nagelbush	3/31	X	X	X	X	X	X							5	Replaceable Protection Modules: 1 of each size & type
265100	Interior Lighting	Nagelbush				X	X	X	X								Lamps: 10% each type & rating Plastic Diffusers & Lenses: 1% each type & rating > 1 Battery & Charger Data: 1 for each emergency lighting unit Ballasts: 10% each type & rating > 1 Globes and Guards: 10% each type & rating > 1
	Emergency Lighting Batteries	Nagelbush														10	
	Emergency Flourescent Ballast and Self-Powered Exit Sign Batteries	Nagelbush														7	
	Electronic Ballasts	Nagelbush														5	
	T5 & T8 Flourescent Lamps	Nagelbush														1	

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265600	Exterior Lighting: Luminaries	Nagelbush				X	X	X	X		X			STD	Lamps: 10% > 1 each type & rating Glass and Plastic Lenses, Covers and Other Optical Parts: 10% > 1 each type & rating Ballasts: 10% > 1 each type and rating Globes & Guards: 10% > 1 each type and rating	
271000	Building Communications Cabling	Nagelbush									1		1	See Warranty Requirements		
	Hardware and Labor	Nagelbush											20	See Warranty Requirements		
275116	Public Address & Mass Notification Systems	Nagelbush				X	X	X	X		X					
283111	Digital, Addressable Fire-Alarm System	Nagelbush	3/31	X	X	X	X	X	X		X	2		* See spec section for detailed requirements of O&M and Extra Materials; provide complimentary upgrade during 2 years of maintenance		
412213.13	Bridge Cranes	Met-Con	3/22	X	X		X	X			3 days					
412213.14	Jacking System	Portec					X	X				X	2	*Spare parts as recommended by manufacturer		

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412213.15	TRAIN MAINTENANCE SHOP EQUIPMENT																*Field Testing Procedures of last 30 days; spare parts list for routine maintenance; spare parts list considered critical; spare set of all disposable items as recommended by the Manufacturer
																	Certificates of readiness
																	Certificates of completion of installation, prestart, and startup activities.
	Coach Watering Cabinets	Snyder					X	X		X				X	2		
	Hopper Trash and Scrap Container	Craft					X	X		X				X	2		
	Carpet Extractor	Steambrite					X	X		X				X	2		
	Dishwasher	EH Thom					X	X		X				X	2		
	Truck Washer	Proceco	3/31	X	X		X	X	X	X				X	2		
	Parts Washer	Better	3/31	X	X		X	X	X	X				X	2		
	Portable Welding Booth	Oskar	3/31	X	X		X	X	X	X				X	2		
	Paint Booth	Dietz	3/31	X	X		X	X		X				X	2		
	Portable Industrial Vacuum Systems						X	X		X				X	2		
	Manipulators	Dalmec	3/31	X	X		X	X	X	X				X	2		
	Instant Hot Water Heater	SWP	3/31	X	X		X	X		X				X	2		
	Kiosks	Strong Hold					X	X		X				X	2		
	Water Jet Cutter	Multi-Cam	3/31	X	X		X	X	X	X				X	2		
	Derail System	Railcomm					X	X		X				X	2		
	Motorized Curtains	Steel Guard	3/31	X	X		X	X	X	X				X	2		
	Storage Racks	Craft	1/26	X	X		X	X		X				X	2		
	Toilet Dump Stations	SWP	3/31	X	X		X	X		X				X	2		
	Hose Reels	SWP	3/31	X	X		X	X		X				X	2		
	1/2 Ton Jib Crane	Met-Con	3/22	X	X		X	X		X				X	2		
	Materials Vending	SupplyPro	3/31	X	X		X	X		X				X	2		
end																	