SECTION 262726

WIRING DEVICES

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**NOTE TO SPECIFIER**

*Use this Specification Section for Mail Processing Facilities.*

***This is a Type 2 Specification with primarily editable text; therefore, most of the text can be edited, but there is some required text which is noted within the Section with a “Note to Specifier.” Do not revise these paragraphs without an approved Deviation from USPS Headquarters, Facilities Program Management, through the USPS Project Manager.***

*For Design/Build projects, do not delete the Notes to Specifier in this Section so that they may be available to Design/Build entity when preparing the Construction Documents.*

*For the Design/Build entity, this specification is intended as a guide for the Architect/Engineer preparing the Construction Documents.*

*The MPF specifications may also be used for Design/Bid/Build projects. In either case, it is the responsibility of the design professional to edit the Specifications Sections as appropriate for the project.*

*Text shown in brackets must be modified as needed for project specific requirements.* *See the “Using the USPS Guide Specifications” document in Folder C for more information.*

*The last date that USPS revised this standard specification section occurs in two places, at the end of this section and in the Table of Contents. If the date in this section matches the date in the Table of Contents, then you are using the latest version. Do not delete or revise the “last revised” date at the end of the section during the development of the Project Manual.*

*The footer in this section should be edited to replace the text, “USPS MPF SPECIFICATION” with the project name, and the blank date in the center should be replaced with the submission date, for interim design reviews, or the issue date of the completed Project Manual.*

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1. GENERAL
	1. SUMMARY
		1. Section Includes:
			1. Wall switches.
			2. Receptacles.
			3. Device plates and box covers.
			4. Multi-Outlet surface raceway.
			5. TelePower Poles.
			6. Digital Interval Countdown Timer Switch
		2. Related Documents: The Contract Documents, as defined in Section 011000 - Summary of Work, apply to the Work of this Section. Additional requirements and information necessary to complete the Work of this Section may be found in other documents.
		3. Related Sections:
			1. Section 260500 - Common Work Results for Electrical.
	2. REFERENCES
		1. National Electrical Contractors Association (NECA):
			1. NECA "Standard of Installation."
		2. National Electrical Manufacturers Association (NEMA):
			1. NEMA WD 1 – General Requirements for Wiring Devices.
			2. NEMA WD 6 – Wiring Devices – Dimensional Requirements.
		3. National Fire Protection Association (NFPA):
			1. NFPA 70 - National Electrical Code.
	3. QUALITY ASSURANCE
		1. Qualifications:
			1. Manufacturer: Company specializing in manufacturing the Products specified in this section with minimum 5 years documented experience.
		2. Regulatory Requirements:
			1. Conform to requirements of NFPA 70.
			2. Provide Products listed and classified by Underwriters Laboratories, Incorporated.
	4. SUBMITTALS
		1. Product data required.
2. PRODUCTS

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**NOTE TO SPECIFIER**

Verify manufacturer information, Product numbers, and availability at time of Project Manual preparation for Project.

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* 1. WALL SWITCHES
		1. Manufacturers: Subject to compliance with project requirements, manufacturers offering specified items which may be incorporated in the Work include the following:
			1. Hubbell, Inc, Milford, CT (203) 882-4800.
			2. Leviton Manufacturing, Company, Inc., Little Neck, NY (800) 824-3005.
			3. Pass & Seymour, Syracuse, NY (800) 776-4035.
		2. Section 016000 - Product Requirements: Product options and substitutions. Substitutions: Permitted.
		3. Provide 20Amp, 120/277Volt, specification grade, flush single pole toggle switches with side and back wired screw terminals. All switches shall be equipped with grounding screws.
		4. Single Pole Switch:
			1. Leviton Cat. No.1221-2.
			2. P&S Cat. No. PS20AC1I.
			3. Hubbell Cat. No. HBL1221.
		5. Double Pole Switch:
			1. Leviton Cat. No. 1222-2.
			2. P&S Cat. No. PS20AC2.
			3. Hubbell, Cat. No. HBL1222.
		6. Three-way Switch:
			1. Leviton, Cat. No. 1223-2.
			2. P&S Cat. No. PS20AC-3.
			3. Hubbell Cat. No. HBL1223.
		7. Indicator Switch:
			1. Leviton Cat. No. 1221-PLR (Red).
			2. P&S Cat. No. PS20AC1-RPL (Red).
			3. Hubbell Cat. No. HBL1221PL (Red).
		8. Locator Switch:
			1. Leviton Cat. No. 1221-LHC (Clear).
			2. P&S Cat. No. PS20AC1-CSL (Clear).
			3. Hubbell Cat. No. HBL1221IL (Clear).
		9. Locking Switch:
			1. Leviton Cat. No. 1221-2L.
			2. P&S Cat. No. PS20AC1-L.
			3. Hubbell Cat. No. HBL1221L.
		10. Color: Switches located within the Retail Area to be mounted in “blue” or “red” painted walls shall be black. All other switches shall be white unless indicated otherwise.
	2. RECEPTACLES
		1. Manufacturers: Subject to compliance with project requirements, manufacturers offering specified items which may be incorporated in the Work include the following:
			1. Leviton Manufacturing, Company, Inc., Little Neck, NY (800) 824-3005.
			2. Pass & Seymour, Syracuse, NY (800) 776-4035.
			3. Hubbell, Inc, Milford, CT (203) 882-4800.
			4. Section 016000 - Product Requirements: Product options and substitutions. Substitutions: Permitted.
		2. Provide duplex, specification grade, 20Amp, 125Volt, 2 pole, 3 wire receptacles with grounding screw.
		3. Duplex Convenience Receptacle:
			1. Leviton Cat. No. 5362.
			2. P&S Cat. No. 5362.
			3. Hubbell Cat. No. HBL5352.
		4. Tamper and Weather Resistant GFCI Receptacle (Side Wired Feed-Thru):
			1. Hubbell Cat. No. GFR5362SG.
		5. Color: Receptacles located within the Retail Area to be mounted in “blue” or “red” painted walls shall be black. All other receptacles shall be white unless indicated otherwise.
	3. WALL PLATES
		1. Manufacturers: Subject to compliance with project requirements, manufacturers offering specified items which may be incorporated in the Work include the following:
			1. P&S Sierra.
			2. Hubbell.
			3. Leviton.
			4. Section 016000 - Product Requirements: Product options and substitutions. Substitutions: Permitted.
		2. Coverplate: Coverplates to be installed within the Retail Areas on “blue” or “red” painted walls shall be black smooth thermoplastic. All other coverplates shall be white smooth thermoplastic unless otherwise noted.
			1. Sierra TP8-W.
		3. Weatherproof Coverplate: Gasketed cast metal with hinged gasketed device.
			1. Sierra 4510 cast aluminum.
		4. Integral locking and pad-lockable coverplates:
			1. Duplex receptacles shall be equipped with Decora style, stainless steel, single gang, locking coverplates: Pass & Seymour/Legrand #WR26L.
			2. Quadraplex receptacles shall be equipped die-cast metal, low profile, two gang, flip type, pad-lockable coverplates: Hubbell/TayMac #MX2050S.
				1. Provide two (2) keyed, padlocks for each quadraplex coverplate: Master Lock #4120KA.
				2. All quadraplex receptacles to be keyed alike.
	4. MULTI-OUTLET SURFACE RACEWAY
		1. Manufacturer: Subject to compliance with project requirements, manufacturers offering specified items which may be incorporated in the Work include the following:
			1. Legrand/Wiremold, West Hartford, CT (800) 621-0049.
			2. Section 016000 - Product Requirements: Product options and substitutions. Substitutions: Permitted.
		2. Raceway Material: Anodized aluminum with manufacturer’s standard hardware and fittings. Length as indicated on drawings.
		3. Wire: Factory pre-wired with No. 12 AWG minimum. Provide equipment grounding conductor.
		4. Wiring Devices: NEMA5-20R duplex receptacles and/or telecommunication outlets. Quantity as indicated on drawings.
		5. Provide single channel raceway for applications requiring power receptacles only. Provide dual channel raceway for applications requiring power receptacles and telecommunications outlets.
		6. Single channel, single cover raceway.
			1. Wiremold #AL3000 Series.
		7. Dual channel, single cover raceway
			1. Wiremold #AL4000 Series.
	5. TELE/POWER POLE
		1. Manufacturers: Subject to compliance with project requirements, manufacturers offering specified items which may be incorporated in the Work include the following:
			1. Legrand/Wiremold, West Hartford, CT (800) 621-0049.
			2. Section 016000 - Product Requirements: Product options and substitutions. Substitutions: Permitted.
		2. Raceway Material: Anodized aluminum with manufacturer’s standard hardware and fittings. Length as indicated on drawings.
		3. Wire: Factory pre-wired with No. 12 AWG minimum. Provide equipment grounding conductor.
		4. Wiring Devices: NEMA5-20R duplex receptacles and/or telecommunication outlets. Quantity as indicated on drawings.
		5. Basis of Design: Wiremold NP620 Series.

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**NOTE TO SPECIFIER**

REQUIRED: Interval countdown timer switches are required for the control of the receptacles within the public lobbies of retail and the BMEU. Include paragraph 2.6 for those applications. Indicate the placement on the drawings. Only remove this paragraph if the project does not include receptacles within the public lobbies of retail and the BMEU.

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* 1. DIGITAL INTERVAL COUNTDOWN TIMER SWITCH
		1. Provide flush wall mounted line voltage, digital, countdown timer switch with the following features:
			1. The timer switch shall be preset to turn loads “off” after a preset interval time of 60 minutes maximum. Switch shall be equipped with manual on/off pushbutton.
			2. Timer switch shall mount in a standard single gang wall box and shall fit behind a decorator style face plate. The control switches shall not protrude more than 1/8 inch from the wall.
			3. Timer switch shall have no minimum load requirement from 0 to 800 Watt @ 120 VAC - 60 Hz.
			4. Optional flash and beep warnings shall notify occupants when the interval countdown reaches one minute.
			5. The switch shall not require a neutral, simplifying installation and shall feature terminal style wiring, which makes installation easier.
			6. Basis of Design:
				1. Sensor Switch #PTS-60 (60 minute max.)
				2. Intermatic #EI215 (1800W @ 120 VAC).
1. EXECUTION
	1. EXAMINATION
		1. Section 017300 - Execution: Verification of existing conditions before starting work.
		2. Verification of Conditions: Verify that field measurements, surfaces, substrates and conditions are as required, and ready to receive Work.
			1. Verify that outlet boxes are installed at proper height.
			2. Verify that wall openings are neatly cut and will be completely covered by wall plates.
			3. Verify that branch circuit wiring installation is completed, tested, and ready for connection to wiring devices.
	2. PREPARATION
		1. Provide extension rings to bring outlet boxes flush with finished surface.
		2. Clean debris from outlet boxes.
	3. INSTALLATION
		1. Install wiring devices as indicated, in accordance with manufacturer’s written instruction, applicable requirements of the NEC and NECA “Standard of Installation”, and in accordance with recognized industry practices to fulfill project requirements.
		2. Install devices plumb and level.
		3. Install switches with OFF position down.
		4. Install receptacles with grounding pole on bottom.
		5. Connect wiring device grounding terminal to branch circuit equipment grounding conductor.
		6. Connect wiring devices by wrapping conductor 2/3 of screw diameter in clockwise direction around screw terminal. Tighten screw to 12 pound-inches. Do not use spring pressure devices for wire connections.
		7. Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted outlets.
		8. Provide coverplates on switch, receptacle, and blank outlets.

* + 1. Receptacles mounted within 8 feet of a fire extinguisher shall be equipped with integral locking or pad-lockable coverplates as specified in paragraph 2.3 D.
	1. LABELING
		1. All coverplates for receptacles and switches shall be labeled with the branch circuit number. Label shall be machine generated and permanently affixed to the outside of the coverplate.
	2. CONSTRUCTION
		1. Interface with other work:
			1. Coordinate locations of outlet boxes provided under Section 260533 to obtain mounting heights indicated on Drawings.
	3. FIELD QUALITY CONTROL
		1. Section 014000 - Quality Requirements: Field inspection.
		2. Prior to energizing circuitry, test wiring for electrical continuity, and for short circuits. Ensure proper polarity of connections is maintained. Subsequent to energization, test wiring devices to demonstrate compliance with requirements.
		3. Inspect each wiring device for defects.
		4. Operate each wall switch with circuit energized and verify proper operation.

* + 1. Verify that each receptacle device is energized.
		2. Test each receptacle device for proper polarity.
		3. Test each GFCI receptacle device for proper operation.
	1. ADJUSTING
		1. Adjust devices and wall plates to be flush, level and plumb with wall.
	2. CLEANING
		1. Section 017300 - Execution: Cleaning installed work.
		2. Clean exposed surfaces to remove splatters and restore finish.

END OF SECTION

USPS MPF Specification Last Revised: 10/1/2022