

HIGHLIGHT OF DECEMBER 1, 2022, FEE CHANGES
(Changes Highlighted Below)

1) Transaction Rebates/Fees

a) Standard Rates

Category	Adding Liquidity Displayed Order	Adding Liquidity Non-Displayed Order	Removing Liquidity	Routing and Removing Liquidity	Opening or Re-Opening Process
Securities at or above \$1.00	Tapes A, B, and C (\$0.0029)	(\$0.0021)	\$0.0029	\$0.0030	\$0.00
Securities below \$1.00	(0.10% of Dollar Value)	(0.10% of Dollar Value)	0.20% of Dollar Value	0.30% of Dollar Value	\$0.00
Standard Liquidity Indicator Codes	AA, AB, AC, AR	Aa, Ab, Ac, Ap, Ar	RA, Ra, RB, Rb, RC, Rc, Rp, RR, Rr	X	O

b) Liquidity Indicator Codes and Associated Fees

Liquidity Indicator Code	Description	Fee/(Rebate) Securities Priced at or Above \$1.00	Fee/(Rebate) Securities Priced Below \$1.00
AA	Adds Liquidity, Displayed Order (Tape A)	(\$0.0029)	(0.10% of Dollar Value)
AB	Adds Liquidity, Displayed Order (Tape B)	(\$0.0029)	(0.10% of Dollar Value)
AC	Adds Liquidity, Displayed Order (Tape C)	(\$0.0029)	(0.10% of Dollar Value)
AR	Retail Order, Adds Liquidity, Displayed Order (All Tapes)	(\$0.0037)	(0.10% of Dollar Value)
Aa	Adds Liquidity, Non-Displayed Order (Tape A)	(\$0.0021)	(0.10% of Dollar Value)
Ab	Adds Liquidity, Non-Displayed Order (Tape B)	(\$0.0021)	(0.10% of Dollar Value)
Ac	Adds Liquidity, Non-Displayed Order (Tape C)	(\$0.0021)	(0.10% of Dollar Value)
Ap	Adds Liquidity and Executes at the Midpoint, Non-Displayed Midpoint Peg Order (All Tapes)	(\$0.0021)	(0.10% of Dollar Value)
Ar	Retail Order, Adds Liquidity, Non-Displayed Order (All Tapes)	(\$0.0021)	(0.10% of Dollar Value)
O	Opening/Re-Opening Process	\$0.00	\$0.00

Liquidity Indicator Code	Description	Fee/(Rebate) Securities Priced at or Above \$1.00	Fee/(Rebate) Securities Priced Below \$1.00
RA	Removes Liquidity, Displayed Order (Tape A)	\$0.0029	0.20% of Dollar Value
RB	Removes Liquidity, Displayed Order (Tape B)	\$0.0029	0.20% of Dollar Value
RC	Removes Liquidity, Displayed Order (Tape C)	\$0.0029	0.20% of Dollar Value
RR	Retail Order, Removes Liquidity, Displayed Order (All Tapes)	\$0.0029	0.20% of Dollar Value
Ra	Removes Liquidity, Non-Displayed Order (Tape A)	\$0.0029	0.20% of Dollar Value
Rb	Removes Liquidity, Non-Displayed Order (Tape B)	\$0.0029	0.20% of Dollar Value
Rc	Removes Liquidity, Non-Displayed Order (Tape C)	\$0.0029	0.20% of Dollar Value
Rp	Removes Liquidity and Executes at the Midpoint, Non-Displayed Midpoint Peg Order (All Tapes)	\$0.00265	0.20% Of Dollar Value
Rr	Retail Order, Removes Liquidity, Non-Displayed Order (All Tapes)	\$0.0029	0.20% of Dollar Value
X	Routed	\$0.0030	0.30% of Dollar Value
XA	Re-routed by Primary Listing Exchange	\$0.0030	0.30% of Dollar Value
XB	Routed Primary Listing Exchange Execution (Other)	\$0.0030	0.30% of Dollar Value
XC	Routed to NYSE, Opening/Re-Opening Auction	\$0.00105	0.30% of Dollar Value
XD	Routed to NYSE, Closing Auction	\$0.00085	0.30% of Dollar Value
XE	Routed to NYSE, Adds Displayed Liquidity	(\$0.0015)	0.01% of Dollar Value
XF	Routed to NYSE Arca, Opening/Re-Opening Auction	\$0.00155	0.105% of Dollar Value
XG	Routed to NYSE Arca, Closing Auction	\$0.00105	0.105% of Dollar Value
XH	Routed to NYSE Arca, Adds Displayed Liquidity	(\$0.0015)	0.01% of Dollar Value
XI	Routed to NYSE American, Opening/Re-Opening Auction	\$0.00055	0.055% of Dollar Value
XJ	Routed to NYSE American, Closing Auction	\$0.00055	0.055% of Dollar Value
XK	Routed to NYSE American, Adds Displayed Liquidity	(\$0.001)	0.01% of Dollar Value
XL	Routed to Cboe BZX, Opening/Re-Opening Auction	\$0.0008	0.08% of Dollar Value
XM	Routed to Cboe BZX, Closing Auction	\$0.00105	0.105% of Dollar Value
XN	Routed to Cboe BZX, Adds Displayed Liquidity	(\$0.0015)	0.01% of Dollar Value
XO	Routed to Nasdaq, Opening/Re-Opening Auction	\$0.00155	0.30% of Dollar Value
XP	Routed to Nasdaq, Closing Auction	\$0.00085	0.09% of Dollar Value
XQ	Routed to Nasdaq, Adds Displayed Liquidity	(\$0.0015)	0.01% of Dollar Value