

STAFF SUMMARY

☐ Secretary Approval ☐ MassDOT Board Approval Prepared by: Hema Bhatt

Department: Highway Division	Program Manager: John J. Bechard	email: john.bechard@dot.state.ma.us	Telephone: 508-751-1755
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Contract No./Subject: 131826 Boston – UPS System Replacements in Central Artery Tunnels	Date Prepared: 11/3/2025
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Implications

☒ Capital Budget ☐ Operating Budget ☐ Legal ☐ Other

PURPOSE:

The purpose of this Staff Summary is to request that the Board of Directors authorize and approve the Secretary/CEO, or their designee, to execute MassDOT Contract No. 131826 titled Boston – UPS System Replacements in Central Artery Tunnels, for construction, with Dagle Electrical Construction Corp., for the amount of \$17,777,771.17 and for a total duration of 972 days from Notice to Proceed (NTP).

TOTAL PROGRAM BUDGET:

The MHS Tunnels Preservation Project has a total program budget of \$21,598,325.40, which includes the following:

Bid Amount	\$17,777,771.17
Contingencies (15%)	\$2,666,665.67
Construction Engineering (5%)	\$888,888.56
Specialty Services	\$2,500.00
Traffic Police	\$262,500.00
Total	\$21,598,325.40

DISCUSSION:

The award of Contract No. 131826 titled Boston – UPS System Replacements in Central Artery Tunnels serves to replace the uninterruptible power systems (UPS), to have new system which is reliable as it is crucial for Tunnel operations; the original system from construction of Central Artery is nearing to end of its life. The Tunnel system is integral to destination connectivity within Boston region and Logan airport.

The work includes the replacement of uninterruptible power systems (UPS), UPS batteries, and related mechanical/heating ventilation and air conditioning (HVAC) systems, roofing work and SCADA work. The UPS and battery system replacement will be done in 7 facilities, five Vent Buildings (VB1, VB3, VB4, VB5 and VB8) and two Electric Sub Stations (ESS2 and ESS3). HVAC systems will also be replaced in these 7 facilities, SCADA work including HVAC system related monitoring points and integration with existing IPCS SCADA control system will be done. Roofing will be replaced for facilities of ESS2 and ESS3, repairs to roofs will be done at VB1, VB5 and VB8.

PROCUREMENT:

On August 2, 2025, the Highway Division advertised this contract for bids. On October 28, 2025, three (3) bids were opened for this contract. Dagle Electrical Construction Corp. was the lowest responsive and eligible bidder with a bid price of \$17,777,771.17.

The bids were reviewed by engineers in the Major Projects, Construction, and Construction Contracts sections. The Highway Division has accepted the bid submitted by Dagle Electrical Construction Corp., which at \$17,777,771.17 is 32.32% below the office estimate of \$26,265,601.10.

The following is the list of the bidders with the corresponding bid prices:

DAGLE ELECTRICAL CONSTR CORP	\$17,777,771.17
FISCHBACH & MOORE ELECTRIC GROUP	\$23,526,613.66
J. F. WHITE CONTRACTING CO	\$24,116,802.24

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Contract No./Subject: 131826 Boston – UPS System Replacements in Central Artery Tunnels	Date Prepared: 11/3/2025
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Implications

☒ Capital Budget ☐ Operating Budget ☐ Legal ☐ Other

FINANCIAL IMPACT/BUDGET SOURCE:

This action is funded through the NFA – Metropolitan Highway System (MHS) - Site Specific funding.

FUTURE ANTICIPATED AUTHORIZATIONS:

There are no future anticipated authorizations.

RECOMMENDATIONS:

It is recommended that the Board of Directors authorize the Secretary, or their designee, to award and execute MassDOT Contract No. 131826 Entitled Boston – UPS System Replacements in Central Artery Tunnels, with Dagle Electrical Construction Corp., in a form approved by the General Counsel, in the amount of \$17,777,771.17.

COORDINATION WITH:

Office of Diversity and Civil Rights
Engineering and Maintenance
Environmental
Capital Programs
Budget and Finance
Legal Department

ATTACHMENTS:

Tab A – Vote

RESOURCE/REFERENCE DOCUMENTS:

Bid Average
Bid Results
Bid Tabulations
Eligible Bidders Listing
Low Bidder by Bid Items with Affidavit
Schedule of Participation by Disadvantaged Business Enterprises (DBEs)

Project # : 612636
Location : BOSTON
District : 6
Description : BOSTON- UPS SYSTEM REPLACEMENTS IN CENTRAL ARTERY TUNNELS

Bids Open Date : 28 Oct 2025

Contract # : 131826

Item #	Quantity	Units	Description	Office Estimate	Low Bid	Average 2 thru 3
078.413	84.000	EA	PENETRATION FIRESTOPPING	\$55.07	\$300.00	\$952.26
079.200	1.000	LS	JOINT SEALANTS	\$1,240.82	\$140.00	\$9,935.50
081.100	1.000	LS	DOOR HARDWARE	\$22,268.95	\$16,800.00	\$9,449.50
081.113	1.000	LS	HOLLOW METAL DOORS AND FRAMES	\$21,101.22	\$3,500.00	\$82,816.50
100.5	1.000	LS	ELECTRICAL WORK	\$736,797.97	\$850,000.00	\$331,500.00
100.6	1.000	LS	PLUMBING WORK	\$65,215.21	\$58,108.00	\$58,108.00
100.61	1.000	LS	HVAC WORK	\$4,929,784.33	\$4,423,000.00	\$4,423,000.00
100.7	1.000	LS	ROOFING AND FLASHING WORK	\$2,023,981.31	\$1,914,000.00	\$1,914,000.00
100.75	1.000	LS	PAINTING	\$353,137.03	\$383,910.00	\$383,910.00
100.78	1.000	LS	MISCELLANEOUS AND ORNAMENTAL IRON WORK	\$194,723.33	\$292,100.00	\$333,599.00
112.	1.000	LS	SELECTIVE DEMOLITION 024119	\$14,831.91	\$35,000.00	\$67,536.50
112.201	1.000	LS	DEMOLITION OF ELECTRICAL SYSTEMS AND EQUIPMENT	\$374,435.60	\$420,000.00	\$1,627,516.50
722.1	1.000	LS	SCHEDULE OF OPERATIONS (TYPE A) - FIXED PRICE \$117,500.00	\$117,500.00	\$117,500.00	\$117,500.00
728.320	51.000	EA	NEMA 4X #316 STAINLESS STEEL DISCONNECT	\$6,118.63	\$1,900.00	\$3,204.50
728.321	7.000	EA	NEMA 1 DISCONNECT FOR TRANSFORMERS	\$2,320.21	\$2,000.00	\$1,979.29
728.322	11.000	EA	TRIP UNITS	\$6,797.52	\$5,400.00	\$7,828.64
748.	1.000	LS	MOBILIZATION	\$761,663.56	\$525,000.00	\$677,500.00
806.075	2,260.000	FT	3/4 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$58.17	\$19.00	\$57.95
806.1	13,920.000	FT	1 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$68.45	\$20.00	\$60.18
806.110	180.000	FT	1-1/4 INCH ELECTRICAL CONDUIT TYPE RM- GALVANIZED STEEL	\$77.87	\$22.00	\$126.69
806.15	2,088.000	FT	1-1/2 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$82.46	\$23.00	\$68.07
806.2	5,853.000	FT	2 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$95.10	\$24.00	\$82.86
806.250	100.000	FT	2-1/2 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$144.42	\$68.00	\$161.47
806.3	688.670	FT	3 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$163.26	\$70.00	\$193.54
806.35	584.500	FT	3-1/2 INCH ELECTRIC CONDUIT TYPE RM - GALVANIZED STEEL	\$185.85	\$72.00	\$180.71
806.500	125.000	FT	5 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$302.42	\$130.00	\$385.05
811.61	25.000	EA	JUNCTION BOX 12 X 12 X 6 INCHES	\$1,279.23	\$650.00	\$916.32
811.87	21.000	EA	JUNCTION BOX 24 X 24 X 10 INCHES	\$1,644.80	\$1,050.00	\$1,340.81

Bid Average

Project # : 612636
Location : BOSTON
District : 6
Description : BOSTON- UPS SYSTEM REPLACEMENTS IN CENTRAL ARTERY TUNNELS

Bids Open Date : 28 Oct 2025
Contract # : 131826

Item #	Quantity	Units	Description	Office Estimate	Low Bid	Average 2 thru 3
811.90	25.000	EA	JUNCTION BOX 30 X 24 X 12 INCHES	\$6,380.75	\$1,300.00	\$2,021.50
813.28	5,950.000	FT	WIRE TYPE 7 NO. 16 GENERAL PURPOSE	\$31.08	\$1.00	\$25.23
813.29	21,530.000	FT	WIRE TYPE 7 NO. 12 GENERAL PURPOSE	\$6.33	\$1.20	\$3.22
813.30	35,370.000	FT	WIRE TYPE 7 NO. 10 GENERAL PURPOSE	\$7.78	\$1.25	\$2.62
813.31	8,580.000	FT	WIRE TYPE 7 NO. 8 GENERAL PURPOSE	\$15.73	\$1.75	\$4.29
813.32	2,736.000	FT	WIRE TYPE 7 NO. 6 GENERAL PURPOSE	\$20.35	\$2.40	\$16.10
813.33	4,007.500	FT	WIRE TYPE 7 NO. 4 GENERAL PURPOSE	\$27.84	\$3.35	\$9.41
813.34	4,665.000	FT	WIRE TYPE 7 NO. 2 GENERAL PURPOSE	\$35.73	\$5.00	\$15.09
813.35	5,002.000	FT	WIRE TYPE 7 NO. 1 GENERAL PURPOSE	\$39.45	\$16.00	\$19.22
813.36	215.000	FT	WIRE TYPE 7 NO. 1/0 GENERAL PURPOSE	\$45.79	\$9.00	\$54.66
813.37	928.000	FT	WIRE TYPE 7 NO. 2/0 GENERAL PURPOSE	\$49.20	\$44.00	\$31.71
813.38	2,798.000	FT	WIRE TYPE 7 NO. 3/0 GENERAL PURPOSE	\$52.80	\$46.00	\$25.23
813.39	1,530.000	FT	WIRE TYPE 7 NO. 4/0 GENERAL PURPOSE	\$57.87	\$49.00	\$47.45
813.56	2,000.000	FT	WIRE TYPE CAT 6	\$3.59	\$2.00	\$7.42
813.57	2,000.000	FT	WIRE TYPE 3C#16	\$8.64	\$4.00	\$15.22
813.92	3,916.000	FT	WIRE TYPE 500KCMIL	\$70.29	\$75.00	\$51.30
813.93	340.000	FT	WIRE TYPE 600KCMIL	\$116.64	\$88.00	\$44.46
813.99	1.000	LS	LIGHTNING PROTECTION	\$150,687.76	\$84,000.00	\$163,511.00
882.001	14.000	EA	LOW VOLTAGE TRANSFORMERS	\$28,842.81	\$9,000.00	\$10,219.75
885.002	7.000	EA	PANELBOARDS	\$10,961.06	\$5,000.00	\$11,760.50
904.41	1,040.000	SF	CAST IN PLACE CONCRETE 033000	\$62.95	\$125.00	\$92.42
960.101	14.000	EA	JUNCTION BOX 24 X 36 X 8 INCHES	\$9,378.52	\$2,000.00	\$2,736.18
998.004	1.000	LS	UPS AND BATTERY EQUIPMENT SYSTEM	\$10,983,820.80	\$6,435,849.24	\$9,826,355.50
998.450	1.000	LS	GROUNDING	\$209,219.25	\$210,000.00	\$26,150.00

BOSTON - 612636 - 131826 - FAP# None - 61060650 - UPS System Replacements in Central Artery Tunnels

DBE % (goal):

MWBE % (goal): 16.00 %

SDVOB % (goal):

OFFICE ESTIMATE: \$26,265,601.10

DAGLE ELECTRICAL CONSTR CORP	68 Industrial Way, Wilmington, MA, 01887-3434	\$17,777,771.17
FISCHBACH & MOORE ELECTRIC GROUP LLC	60 Tenean Street, Boston, MA, 02122	\$23,526,613.66
J F WHITE CONTRACTING CO	10 Burr Street, Framingham, MA, 01701	\$24,116,802.24

Bid Tabulations

Prelims Unit

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Item #	Quantity	Units	Description	Unit Price	Office Estimate	DAGLE ELECTRICAL CONSTR CORP	
					Amount	Unit Price	Amount
078.413	84.000	EA	PENETRATION FIRESTOPPING	\$55.07	\$4,625.88	\$300.00	\$25,200.00
079.200	1.000	LS	JOINT SEALANTS	\$1,240.82	\$1,240.82	\$140.00	\$140.00
081.100	1.000	LS	DOOR HARDWARE	\$22,268.95	\$22,268.95	\$16,800.00	\$16,800.00
081.113	1.000	LS	HOLLOW METAL DOORS AND FRAMES	\$21,101.22	\$21,101.22	\$3,500.00	\$3,500.00
100.5	1.000	LS	ELECTRICAL WORK	\$736,797.97	\$736,797.97	\$850,000.00	\$850,000.00
100.6	1.000	LS	PLUMBING WORK	\$65,215.21	\$65,215.21	\$58,108.00	\$58,108.00
100.61	1.000	LS	HVAC WORK	\$4,929,784.33	\$4,929,784.33	\$4,423,000.00	\$4,423,000.00
100.7	1.000	LS	ROOFING AND FLASHING WORK	\$2,023,981.31	\$2,023,981.31	\$1,914,000.00	\$1,914,000.00
100.75	1.000	LS	PAINTING	\$353,137.03	\$353,137.03	\$383,910.00	\$383,910.00
100.78	1.000	LS	MISCELLANEOUS AND ORNAMENTAL IRON WORK	\$194,723.33	\$194,723.33	\$292,100.00	\$292,100.00
112.	1.000	LS	SELECTIVE DEMOLITION 024119	\$14,831.91	\$14,831.91	\$35,000.00	\$35,000.00
112.201	1.000	LS	DEMOLITION OF ELECTRICAL SYSTEMS AND EQUIPMENT	\$374,435.60	\$374,435.60	\$420,000.00	\$420,000.00
722.1	1.000	LS	SCHEDULE OF OPERATIONS (TYPE A) - FIXED PRICE \$117,500.00	\$117,500.00	\$117,500.00	\$117,500.00	\$117,500.00
728.320	51.000	EA	NEMA 4X #316 STAINLESS STEEL DISCONNECT	\$6,118.63	\$312,050.13	\$1,900.00	\$96,900.00
728.321	7.000	EA	NEMA 1 DISCONNECT FOR TRANSFORMERS	\$2,320.21	\$16,241.47	\$2,000.00	\$14,000.00
728.322	11.000	EA	TRIP UNITS	\$6,797.52	\$74,772.72	\$5,400.00	\$59,400.00
748.	1.000	LS	MOBILIZATION	\$761,663.56	\$761,663.56	\$525,000.00	\$525,000.00
806.075	2,260.000	FT	3/4 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$58.17	\$131,464.20	\$19.00	\$42,940.00
806.1	13,920.000	FT	1 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$68.45	\$952,824.00	\$20.00	\$278,400.00
806.110	180.000	FT	1-1/4 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$77.87	\$14,016.60	\$22.00	\$3,960.00
806.15	2,088.000	FT	1-1/2 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$82.46	\$172,176.48	\$23.00	\$48,024.00
806.2	5,853.000	FT	2 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$95.10	\$556,620.30	\$24.00	\$140,472.00
806.250	100.000	FT	2-1/2 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$144.42	\$14,442.00	\$68.00	\$6,800.00

Bid Tabulations

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Item #	Quantity	Units	Description	Unit Price	Office Estimate	DAGLE ELECTRICAL CONSTR CORP	
					Amount	Unit Price	Amount
806.3	688.670	FT	3 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$163.26	\$112,432.26	\$70.00	\$48,206.90
806.35	584.500	FT	3-1/2 INCH ELECTRIC CONDUIT TYPE RM - GALVANIZED STEEL	\$185.85	\$108,629.33	\$72.00	\$42,084.00
806.500	125.000	FT	5 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$302.42	\$37,802.50	\$130.00	\$16,250.00
811.61	25.000	EA	JUNCTION BOX 12 X 12 X 6 INCHES	\$1,279.23	\$31,980.75	\$650.00	\$16,250.00
811.87	21.000	EA	JUNCTION BOX 24 X 24 X 10 INCHES	\$1,644.80	\$34,540.80	\$1,050.00	\$22,050.00
811.90	25.000	EA	JUNCTION BOX 30 X 24 X 12 INCHES	\$6,380.75	\$159,518.75	\$1,300.00	\$32,500.00
813.28	5,950.000	FT	WIRE TYPE 7 NO. 16 GENERAL PURPOSE	\$31.08	\$184,926.00	\$1.00	\$5,950.00
813.29	21,530.000	FT	WIRE TYPE 7 NO. 12 GENERAL PURPOSE	\$6.33	\$136,284.90	\$1.20	\$25,836.00
813.30	35,370.000	FT	WIRE TYPE 7 NO. 10 GENERAL PURPOSE	\$7.78	\$275,178.60	\$1.25	\$44,212.50
813.31	8,580.000	FT	WIRE TYPE 7 NO. 8 GENERAL PURPOSE	\$15.73	\$134,963.40	\$1.75	\$15,015.00
813.32	2,736.000	FT	WIRE TYPE 7 NO. 6 GENERAL PURPOSE	\$20.35	\$55,677.60	\$2.40	\$6,566.40
813.33	4,007.500	FT	WIRE TYPE 7 NO. 4 GENERAL PURPOSE	\$27.84	\$111,568.80	\$3.35	\$13,425.13
813.34	4,665.000	FT	WIRE TYPE 7 NO. 2 GENERAL PURPOSE	\$35.73	\$166,680.45	\$5.00	\$23,325.00
813.35	5,002.000	FT	WIRE TYPE 7 NO. 1 GENERAL PURPOSE	\$39.45	\$197,328.90	\$16.00	\$80,032.00
813.36	215.000	FT	WIRE TYPE 7 NO. 1/0 GENERAL PURPOSE	\$45.79	\$9,844.85	\$9.00	\$1,935.00
813.37	928.000	FT	WIRE TYPE 7 NO. 2/0 GENERAL PURPOSE	\$49.20	\$45,657.60	\$44.00	\$40,832.00
813.38	2,798.000	FT	WIRE TYPE 7 NO. 3/0 GENERAL PURPOSE	\$52.80	\$147,734.40	\$46.00	\$128,708.00
813.39	1,530.000	FT	WIRE TYPE 7 NO. 4/0 GENERAL PURPOSE	\$57.87	\$88,541.10	\$49.00	\$74,970.00
813.56	2,000.000	FT	WIRE TYPE CAT 6	\$3.59	\$7,180.00	\$2.00	\$4,000.00
813.57	2,000.000	FT	WIRE TYPE 3C#16	\$8.64	\$17,280.00	\$4.00	\$8,000.00
813.92	3,916.000	FT	WIRE TYPE 500KCMIL	\$70.29	\$275,255.64	\$75.00	\$293,700.00
813.93	340.000	FT	WIRE TYPE 600KCMIL	\$116.64	\$39,657.60	\$88.00	\$29,920.00
813.99	1.000	LS	LIGHTNING PROTECTION	\$150,687.76	\$150,687.76	\$84,000.00	\$84,000.00
882.001	14.000	EA	LOW VOLTAGE TRANSFORMERS	\$28,842.81	\$403,799.34	\$9,000.00	\$126,000.00
885.002	7.000	EA	PANELBOARDS	\$10,961.06	\$76,727.42	\$5,000.00	\$35,000.00
904.41	1,040.000	SF	CAST IN PLACE CONCRETE 033000	\$62.95	\$65,468.00	\$125.00	\$130,000.00

Bid Tabulations

Project # : 612636
Location : BOSTON
District : 6
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Bids Open Date : 28 Oct 2025
Contract # : 131826

Item #	Quantity	Units	Description	Unit Price	Office Estimate	DAGLE ELECTRICAL CONSTR CORP	
					Amount	Unit Price	Amount
960.101	14.000	EA	JUNCTION BOX 24 X 36 X 8 INCHES	\$9,378.52	\$131,299.28	\$2,000.00	\$28,000.00
998.004	1.000	LS	UPS AND BATTERY EQUIPMENT SYSTEM	\$10,983,820.80	\$10,983,820.80	\$6,435,849.24	\$6,435,849.24
998.450	1.000	LS	GROUNDING	\$209,219.25	\$209,219.25	\$210,000.00	\$210,000.00
Total :					\$26,265,601.10	Total :	\$17,777,771.17

Bid Tabulations

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Location : BOSTON
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Description : BOSTON- UPS SYSTEM REPLACEMENTS IN CENTRAL ARTERY TUNNELS

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				FISCHBACH & MOORE ELECTRIC GROUP LLC		J F WHITE CONTRACTING CO	
Item #	Quantity	Units	Description	Unit Price	Amount	Unit Price	Amount
078.413	84.000	EA	PENETRATION FIRESTOPPING	\$454.52	\$38,179.68	\$1,450.00	\$121,800.00
079.200	1.000	LS	JOINT SEALANTS	\$15,271.00	\$15,271.00	\$4,600.00	\$4,600.00
081.100	1.000	LS	DOOR HARDWARE	\$3,499.00	\$3,499.00	\$15,400.00	\$15,400.00
081.113	1.000	LS	HOLLOW METAL DOORS AND FRAMES	\$91,633.00	\$91,633.00	\$74,000.00	\$74,000.00
100.5	1.000	LS	ELECTRICAL WORK	\$1,000.00	\$1,000.00	\$662,000.00	\$662,000.00
100.6	1.000	LS	PLUMBING WORK	\$58,108.00	\$58,108.00	\$58,108.00	\$58,108.00
100.61	1.000	LS	HVAC WORK	\$4,423,000.00	\$4,423,000.00	\$4,423,000.00	\$4,423,000.00
100.7	1.000	LS	ROOFING AND FLASHING WORK	\$1,914,000.00	\$1,914,000.00	\$1,914,000.00	\$1,914,000.00
100.75	1.000	LS	PAINTING	\$383,910.00	\$383,910.00	\$383,910.00	\$383,910.00
100.78	1.000	LS	MISCELLANEOUS AND ORNAMENTAL IRON WORK	\$309,198.00	\$309,198.00	\$358,000.00	\$358,000.00
112.	1.000	LS	SELECTIVE DEMOLITION 024119	\$107,573.00	\$107,573.00	\$27,500.00	\$27,500.00
112.201	1.000	LS	DEMOLITION OF ELECTRICAL SYSTEMS AND EQUIPMENT	\$1,759,033.00	\$1,759,033.00	\$1,496,000.00	\$1,496,000.00
722.1	1.000	LS	SCHEDULE OF OPERATIONS (TYPE A) - FIXED PRICE \$117,500.00	\$117,500.00	\$117,500.00	\$117,500.00	\$117,500.00
728.320	51.000	EA	NEMA 4X #316 STAINLESS STEEL DISCONNECT	\$2,834.00	\$144,534.00	\$3,575.00	\$182,325.00
728.321	7.000	EA	NEMA 1 DISCONNECT FOR TRANSFORMERS	\$2,493.57	\$17,454.99	\$1,465.00	\$10,255.00
728.322	11.000	EA	TRIP UNITS	\$9,107.27	\$100,179.97	\$6,550.00	\$72,050.00
748.	1.000	LS	MOBILIZATION	\$660,000.00	\$660,000.00	\$695,000.00	\$695,000.00
806.075	2,260.000	FT	3/4 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$48.90	\$110,514.00	\$67.00	\$151,420.00
806.1	13,920.000	FT	1 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$57.36	\$798,451.20	\$63.00	\$876,960.00
806.110	180.000	FT	1-1/4 INCH ELECTRICAL CONDUIT TYPE RM- GALVANIZED STEEL	\$141.37	\$25,446.60	\$112.00	\$20,160.00
806.15	2,088.000	FT	1-1/2 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$46.14	\$96,340.32	\$90.00	\$187,920.00
806.2	5,853.000	FT	2 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$87.72	\$513,425.16	\$78.00	\$456,534.00
806.250	100.000	FT	2-1/2 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$186.94	\$18,694.00	\$136.00	\$13,600.00

Bid Tabulations

Project # : 612636
Location : BOSTON
District : 6
Description : BOSTON- UPS SYSTEM REPLACEMENTS IN CENTRAL ARTERY TUNNELS

Bids Open Date : 28 Oct 2025
Contract # : 131826

Item #	Quantity	Units	Description	FISCHBACH & MOORE ELECTRIC GROUP LLC		J F WHITE CONTRACTING CO	
				Unit Price	Amount	Unit Price	Amount
806.3	688.670	FT	3 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$215.07	\$148,112.26	\$172.00	\$118,451.24
806.35	584.500	FT	3-1/2 INCH ELECTRIC CONDUIT TYPE RM - GALVANIZED STEEL	\$188.41	\$110,125.65	\$173.00	\$101,118.50
806.500	125.000	FT	5 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$575.09	\$71,886.25	\$195.00	\$24,375.00
811.61	25.000	EA	JUNCTION BOX 12 X 12 X 6 INCHES	\$962.64	\$24,066.00	\$870.00	\$21,750.00
811.87	21.000	EA	JUNCTION BOX 24 X 24 X 10 INCHES	\$1,631.62	\$34,264.02	\$1,050.00	\$22,050.00
811.90	25.000	EA	JUNCTION BOX 30 X 24 X 12 INCHES	\$2,143.00	\$53,575.00	\$1,900.00	\$47,500.00
813.28	5,950.000	FT	WIRE TYPE 7 NO. 16 GENERAL PURPOSE	\$34.75	\$206,762.50	\$15.70	\$93,415.00
813.29	21,530.000	FT	WIRE TYPE 7 NO. 12 GENERAL PURPOSE	\$2.64	\$56,839.20	\$3.80	\$81,814.00
813.30	35,370.000	FT	WIRE TYPE 7 NO. 10 GENERAL PURPOSE	\$2.54	\$89,839.80	\$2.70	\$95,499.00
813.31	8,580.000	FT	WIRE TYPE 7 NO. 8 GENERAL PURPOSE	\$5.12	\$43,929.60	\$3.45	\$29,601.00
813.32	2,736.000	FT	WIRE TYPE 7 NO. 6 GENERAL PURPOSE	\$8.45	\$23,119.20	\$23.75	\$64,980.00
813.33	4,007.500	FT	WIRE TYPE 7 NO. 4 GENERAL PURPOSE	\$7.82	\$31,338.65	\$11.00	\$44,082.50
813.34	4,665.000	FT	WIRE TYPE 7 NO. 2 GENERAL PURPOSE	\$13.17	\$61,438.05	\$17.00	\$79,305.00
813.35	5,002.000	FT	WIRE TYPE 7 NO. 1 GENERAL PURPOSE	\$14.44	\$72,228.88	\$24.00	\$120,048.00
813.36	215.000	FT	WIRE TYPE 7 NO. 1/0 GENERAL PURPOSE	\$34.31	\$7,376.65	\$75.00	\$16,125.00
813.37	928.000	FT	WIRE TYPE 7 NO. 2/0 GENERAL PURPOSE	\$23.91	\$22,188.48	\$39.50	\$36,656.00
813.38	2,798.000	FT	WIRE TYPE 7 NO. 3/0 GENERAL PURPOSE	\$25.46	\$71,237.08	\$25.00	\$69,950.00
813.39	1,530.000	FT	WIRE TYPE 7 NO. 4/0 GENERAL PURPOSE	\$24.90	\$38,097.00	\$70.00	\$107,100.00
813.56	2,000.000	FT	WIRE TYPE CAT 6	\$7.13	\$14,260.00	\$7.70	\$15,400.00
813.57	2,000.000	FT	WIRE TYPE 3C#16	\$13.94	\$27,880.00	\$16.50	\$33,000.00
813.92	3,916.000	FT	WIRE TYPE 500KCMIL	\$57.59	\$225,522.44	\$45.00	\$176,220.00
813.93	340.000	FT	WIRE TYPE 600KCMIL	\$50.42	\$17,142.80	\$38.50	\$13,090.00
813.99	1.000	LS	LIGHTNING PROTECTION	\$152,022.00	\$152,022.00	\$175,000.00	\$175,000.00
882.001	14.000	EA	LOW VOLTAGE TRANSFORMERS	\$11,139.50	\$155,953.00	\$9,300.00	\$130,200.00
885.002	7.000	EA	PANELBOARDS	\$18,871.00	\$132,097.00	\$4,650.00	\$32,550.00
904.41	1,040.000	SF	CAST IN PLACE CONCRETE 033000	\$42.83	\$44,543.20	\$142.00	\$147,680.00

Bid Tabulations

Project # : 612636
Location : BOSTON
District : 6
Description : BOSTON- UPS SYSTEM REPLACEMENTS IN CENTRAL ARTERY TUNNELS

Bids Open Date : 28 Oct 2025
Contract # : 131826

				FISCHBACH & MOORE ELECTRIC GROUP LLC		J F WHITE CONTRACTING CO	
Item #	Quantity	Units	Description	Unit Price	Amount	Unit Price	Amount
960.101	14.000	EA	JUNCTION BOX 24 X 36 X 8 INCHES	\$2,822.36	\$39,513.04	\$2,650.00	\$37,100.00
998.004	1.000	LS	UPS AND BATTERY EQUIPMENT SYSTEM	\$9,823,711.00	\$9,823,711.00	\$9,829,000.00	\$9,829,000.00
998.450	1.000	LS	GROUNDING	\$20,600.00	\$20,600.00	\$31,700.00	\$31,700.00
				Total :	\$23,526,613.67	Total :	\$24,116,802.24

UPS System Replacements in Central Artery Tunnels FILED SUB BID: 100.6 PLUMBING WORK

Contract #: 131826
Project #: 612636 **Sub Bid Opening Date:** 9/16/2025
City: BOSTON **Office Estimate:** \$65,215.21
District: 6
Class Of Work: DCAMM - Electrical

Contractor(s)	Approval Date	Sub Bid Amount
CITYWRIGHT LLC	08/26/2025	\$58,108.00
GENERAL AIR CONDITIONING	09/02/2025	No Bid
PATRICK J KENNEDY& SONS INC	08/29/2025	\$98,300.00

Total # of Sub Bidders: 3

Eligible Bidders Posting Opened Contracts

UPS System Replacements in Central Artery Tunnels FILED SUB BID: 100.61 HVAC WORK

Contract #: 131826
Project #: 612636 **Sub Bid Opening Date:** 9/16/2025
City: BOSTON **Office Estimate:** \$4,929,784.33
District: 6
Class Of Work: DCAMM - Electrical

Contractor(s)	Approval Date	Sub Bid Amount
DAVISON CO INC	09/04/2025	\$4,600,000.00
GENERAL AIR CONDITIONING	09/02/2025	No Bid
J F WHITE CONTRACTING CO	09/04/2025	\$4,710,000.00
PATRICK J KENNEDY& SONS INC	08/29/2025	\$4,423,000.00
PERFORMANCE PLUMING HEATING INC	09/08/2025	No Bid

Total # of Sub Bidders: 5

Eligible Bidders Posting Opened Contracts

UPS System Replacements in Central Artery Tunnels FILED SUB BID: 100.7 ROOFING AND FLASHING WORK

Contract #: 131826
Project #: 612636 **Sub Bid Opening Date:** 9/16/2025
City: BOSTON **Office Estimate:** \$2,023,981.31
District: 6
Class Of Work: DCAMM - Electrical

Contractor(s)	Approval Date	Sub Bid Amount
GREENWOOD INDUSTRIES, LLC	08/28/2025	\$1,914,000.00

Total # of Sub Bidders: 1

Eligible Bidders Posting Opened Contracts

UPS System Replacements in Central Artery Tunnels FILED SUB BID: 100.75 PAINTING

Contract #: 131826
Project #: 612636 **Sub Bid Opening Date:** 9/16/2025
City: BOSTON **Office Estimate:** \$353,137.03
District: 6
Class Of Work: DCAMM - Electrical

Contractor(s)	Approval Date	Sub Bid Amount
KELTIC PAINTING LLC	09/09/2025	\$383,910.00
SCHOLAR PAINTING LLC	08/22/2025	No Bid
Total # of Sub Bidders: 2		

Eligible Bidders Posting Opened Contracts

UPS System Replacements in Central Artery Tunnels FILED SUB BID: 100.78 MISCELLANEOUS AND ORNAMENTAL IRON WORK

Contract #: 131826

Project #: 612636

Sub Bid Opening Date: 9/16/2025

City: BOSTON

Office Estimate: \$194,723.33

District: 6

Class Of Work: DCAMM - Electrical

Contractor(s)	Approval Date	Sub Bid Amount
L & L CONTRACTING INC	09/09/2025	\$292,100.00
Total # of Sub Bidders: 1		

Eligible Bidders Posting Opened Contracts

UPS System Replacements in Central Artery Tunnels

Contract #:	131826		
Project #:	612636	Bid Opening Date:	10/28/2025
City:	BOSTON	Office Estimate:	\$26,265,601.10
District:	6	No. of Addendums:	17
Class Of Work:	DCAMM - Electrical	DBE % (goal):	
MWBE % (goal):	16.00 %	SDVOB % (goal):	

Contractor(s)	JV	Approval Date	Official / Waiver	Bid Amount
DAGLE ELECTRICAL CONSTR CORP	No	09/02/2025	Official	\$17,777,771.17
FISCHBACH & MOORE ELECTRIC GROUP LLC	No	09/08/2025	Official	\$23,526,613.66
J F WHITE CONTRACTING CO	No	08/20/2025	Official	\$24,116,802.24

Total # of Bidders: 3

② Addendum No, 2, August 27, 2025

DOCUMENT B00420

PROPOSAL

BOSTONFor: **UPS System Replacements in Central Artery Tunnels**

COMMONWEALTH OF MASSACHUSETTS

LOCATION

The work referred to herein is in the City of BOSTON in Suffolk County, in the Commonwealth of Massachusetts, and is shown by the locus map (Document 00331) in the Proposal Pamphlet, the work locations extend as follows:

VENT BUILDING # - ESS2	480 Albany Street
VENT BUILDING # - ESS3	497 W. Austin Street, Charlestown,
VENT BUILDING # - VB #1	55 Dorchester Avenue
VENT BUILDING # - VB #3	500 Atlantic Avenue
VENT BUILDING # - VB #4	136 Blackstone Street, Haymarket
VENT BUILDING # - VB #5	300 Haul Road, South Boston
VENT BUILDING # - VB #8	40 Legends Way / AKA 40 Accolon Way

The contract prices shall include the furnishing of all materials (except as otherwise herein specified), the performing of all the labor requisite or proper, the providing of all necessary machinery, tools, apparatus and other means of construction, the doing of all the abovementioned work in the manner set forth, described and shown in the specifications and on the drawings for the work, and in the form of contract, and the completion thereof within **972 CALENDAR DAYS** upon receipt of a Notice to Proceed.

②

The Work of this project is described by the following Items and quantities.

Contract Bid Estimate By Breakouts Combined

Project # : 612636
Contractor : DAGLE ELECTRICAL CONSTR CORP
District : 6
Location : BOSTON
Description : UPS System Replacements in Central Artery Tunnels

Contract # : 131826
Project Manager HEMA P BHATT

Item #	Quantity	Unit	Item Description	Unit Price	Total
* 078.413	84.000	EA	PENETRATION FIRESTOPPING	\$300.00	\$25,200.00
* 079.200	1.000	LS	JOINT SEALANTS	\$140.00	\$140.00
* 081.100	1.000	LS	DOOR HARDWARE	\$16,800.00	\$16,800.00
* 081.113	1.000	LS	HOLLOW METAL DOORS AND FRAMES	\$3,500.00	\$3,500.00
* 100.5	1.000	LS	ELECTRICAL WORK	\$850,000.00	\$850,000.00
* 100.6	1.000	LS	PLUMBING WORK	\$58,108.00	\$58,108.00
* 100.61	1.000	LS	HVAC WORK	\$4,423,000.00	\$4,423,000.00
* 100.7	1.000	LS	ROOFING AND FLASHING WORK	\$1,914,000.00	\$1,914,000.00
* 100.75	1.000	LS	PAINTING	\$383,910.00	\$383,910.00
* 100.78	1.000	LS	MISCELLANEOUS AND ORNAMENTAL IRON WORK	\$292,100.00	\$292,100.00
* 112.	1.000	LS	SELECTIVE DEMOLITION 024119	\$35,000.00	\$35,000.00
* 112.201	1.000	LS	DEMOLITION OF ELECTRICAL SYSTEMS AND EQUIPMENT	\$420,000.00	\$420,000.00
* 722.1	1.000	LS	SCHEDULE OF OPERATIONS (TYPE A) - FIXED PRICE \$117,500.00	\$117,500.00	\$117,500.00
* 728.320	51.000	EA	NEMA 4X #316 STAINLESS STEEL DISCONNECT	\$1,900.00	\$96,900.00
* 728.321	7.000	EA	NEMA 1 DISCONNECT FOR TRANSFORMERS	\$2,000.00	\$14,000.00
* 728.322	11.000	EA	TRIP UNITS	\$5,400.00	\$59,400.00
748.	1.000	LS	MOBILIZATION	\$525,000.00	\$525,000.00
806.075	2,260.000	FT	3/4 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$19.00	\$42,940.00
806.1	13,920.000	FT	1 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$20.00	\$278,400.00
* 806.110	180.000	FT	1-1/4 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$22.00	\$3,960.00
806.15	2,088.000	FT	1-1/2 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$23.00	\$48,024.00
806.2	5,853.000	FT	2 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$24.00	\$140,472.00
* 806.250	100.000	FT	2-1/2 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$68.00	\$6,800.00
806.3	688.670	FT	3 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$70.00	\$48,206.90
* 806.35	584.500	FT	3-1/2 INCH ELECTRIC CONDUIT TYPE RM - GALVANIZED STEEL	\$72.00	\$42,084.00
* 806.500	125.000	FT	5 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	\$130.00	\$16,250.00
811.61	25.000	EA	JUNCTION BOX 12 X 12 X 6 INCHES	\$650.00	\$16,250.00
811.87	21.000	EA	JUNCTION BOX 24 X 24 X 10 INCHES	\$1,050.00	\$22,050.00
811.90	25.000	EA	JUNCTION BOX 30 X 24 X 12 INCHES	\$1,300.00	\$32,500.00
* 813.28	5,950.000	FT	WIRE TYPE 7 NO. 16 GENERAL PURPOSE	\$1.00	\$5,950.00
* 813.29	21,530.000	FT	WIRE TYPE 7 NO. 12 GENERAL PURPOSE	\$1.20	\$25,836.00
813.30	35,370.000	FT	WIRE TYPE 7 NO. 10 GENERAL PURPOSE	\$1.25	\$44,212.50
813.31	8,580.000	FT	WIRE TYPE 7 NO. 8 GENERAL PURPOSE	\$1.75	\$15,015.00

* Non-Standard Item

Contract Bid Estimate By Breakouts Combined

Project # : 612636
Contractor : DAGLE ELECTRICAL CONSTR CORP
District : 6
Location : BOSTON
Description : UPS System Replacements in Central Artery Tunnels

Contract # : 131826
Project Manager HEMA P BHATT

Item #	Quantity	Unit	Item Description	Unit Price	Total
813.32	2,736.000	FT	WIRE TYPE 7 NO. 6 GENERAL PURPOSE	\$2.40	\$6,566.40
813.33	4,007.500	FT	WIRE TYPE 7 NO. 4 GENERAL PURPOSE	\$3.35	\$13,425.13
813.34	4,665.000	FT	WIRE TYPE 7 NO. 2 GENERAL PURPOSE	\$5.00	\$23,325.00
813.35	5,002.000	FT	WIRE TYPE 7 NO. 1 GENERAL PURPOSE	\$16.00	\$80,032.00
813.36	215.000	FT	WIRE TYPE 7 NO. 1/0 GENERAL PURPOSE	\$9.00	\$1,935.00
813.37	928.000	FT	WIRE TYPE 7 NO. 2/0 GENERAL PURPOSE	\$44.00	\$40,832.00
813.38	2,798.000	FT	WIRE TYPE 7 NO. 3/0 GENERAL PURPOSE	\$46.00	\$128,708.00
813.39	1,530.000	FT	WIRE TYPE 7 NO. 4/0 GENERAL PURPOSE	\$49.00	\$74,970.00
* 813.56	2,000.000	FT	WIRE TYPE CAT 6	\$2.00	\$4,000.00
* 813.57	2,000.000	FT	WIRE TYPE 3C#16	\$4.00	\$8,000.00
* 813.92	3,916.000	FT	WIRE TYPE 500KCMIL	\$75.00	\$293,700.00
* 813.93	340.000	FT	WIRE TYPE 600KCMIL	\$88.00	\$29,920.00
* 813.99	1.000	LS	LIGHTNING PROTECTION	\$84,000.00	\$84,000.00
* 882.001	14.000	EA	LOW VOLTAGE TRANSFORMERS	\$9,000.00	\$126,000.00
* 885.002	7.000	EA	PANELBOARDS	\$5,000.00	\$35,000.00
* 904.41	1,040.000	SF	CAST IN PLACE CONCRETE 033000	\$125.00	\$130,000.00
* 960.101	14.000	EA	JUNCTION BOX 24 X 36 X 8 INCHES	\$2,000.00	\$28,000.00
* 998.004	1.000	LS	UPS AND BATTERY EQUIPMENT SYSTEM	\$6,435,849.24	\$6,435,849.24
* 998.450	1.000	LS	GROUNDING	\$210,000.00	\$210,000.00

Contract Bid Estimate Grand Total : \$17,777,771.17

* Non-Standard Item

ADDENDA ACKNOWLEDGMENT
COMMONWEALTH OF MASSACHUSETTS
MassDOT
10 PARK PLAZA, BOSTON, MA

Proposal No: 612636-131826

Municipality: BOSTON

Proposal Description: UPS System Replacements in Central Artery Tunnels
[BOSTON]

The bidder acknowledges that the bid as submitted includes the following
addenda:

Addenda Number Date Issued Addenda Number Date Issued

001	8/25/25		
002	8/27/25		
003	8/29/25		
004	9/5/25		
005	9/8/25		
006	9/10/25		
007	9/12/25		
008	9/15/25		
009	9/15/25		
010	9/18/25		
011	9/23/25		
012	9/24/25		
013	9/26/25		
014	9/30/25		
015	10/3/25		
016	10/14/25		
017	10/21/25		

I AGREE THAT FAILURE TO ACKNOWLEDGE INCLUSION OF ANY ADDENDA ISSUED FOR THIS PROJECT MAY RESULT IN THIS BID BEING DECLARED NON-RESPONSIVE AND NOT ELIGIBLE FOR AWARD CONSIDERATION.

END OF DOCUMENT

**AFFIDAVIT OF NON-COLLUSION
COMMONWEALTH OF MASSACHUSETTS
MassDOT
10 PARK PLAZA, BOSTON, MA**

Proposal No: 612636-131826

Municipality: BOSTON

Proposal Description: UPS System Replacements in Central Artery Tunnels
[BOSTON]

The bidder acknowledges that the bid as submitted includes the following
addenda:

The undersigned certifies under penalties of perjury that this bid is in all
respects bona fide, fair and made without collusion or fraud with any other
person. As used in this paragraph the word "person" shall mean any natural
person, joint venture, partnership, corporation or other business or legal
entity. The undersigned further certifies that said Bidder has not, either
directly or indirectly, entered into any agreement or otherwise taken any
action in restraint of free competitive bidding in connection with this
proposal.

The undersigned, under the pains and penalties or perjury, states that he/she
is the sole owner, partner, president, treasurer, or other duly authorized
agent or official of

Dagle Electrical Construction Corp
(Name of Bidder as appearing in submitted proposal)

68 Industrial Way
(Address of Bidder)

Wilmington, MA 01887
(City, State) (Zip Code)

800-379-1459
(Telephone Number of Bidder)

The Digital ID holder acknowledges that he/she is the signatory and submitter
of this Affidavit of Non-Collusion.

☒ By clicking this box, the Digital ID holder submitting the bid digitally
signs this Affidavit of Non-Collusion.

FAILURE TO SIGN THIS AFFIDAVIT WILL RESULT IN THIS BID BEING DECLARED NON-
RESPONSIVE AND INELIGIBLE FOR AWARD CONSIDERATION.

END OF DOCUMENT

FILE ATTACHMENTS
COMMONWEALTH OF MASSACHUSETTS
MassDOT
10 PARK PLAZA, BOSTON, MA

Proposal No: 612636-131826

Municipality: BOSTON

Proposal Description: UPS System Replacements in Central Artery Tunnels
[BOSTON]

Upload technical documents below.

Note: There is a 5MB file size limit per attached file:

Attachment #1 Description:

Bid Bond
Bid Bond.pdf

Attachment #2 Description:

Form for General Bid B00521
Form for GC Bid B00521.pdf

Attachment #3 Description:

DCAMM Prime Certificate
DCAMM Prime Contractor Certification.pdf

Attachment #4 Description:

Update Statement
GC Update Statements.pdf

BID BOND

☐ Paid by certified check / submitted paper bond / bond is not required for this bid

**Electronic Bid Bond #: SMA0918101428 [Verify](#) [Clear](#)

**Surety Registry Agency: Surety2000

Surety Company: Great American Insurance Company

** = Required

KNOW ALL MEN BY THESE PRESENTS THAT Dagle Electrical Construction Corp. as principal, and Great American Insurance Company, as surety, who is duly licensed to act as surety in the Commonwealth of Massachusetts, are held and firmly bound unto the Commonwealth of Massachusetts through MassDOT as obligee, in the penal sum of 5% DOLLARS (not to be less than 5% of the bid price), lawful money of the United States of America, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

The condition of the above obligation is such that whereas the Principal has submitted to the Obligee /Owner a certain Bid, attached hereto and hereby made a part hereof, to enter into a contract in writing for the:
UPS System Replacements in Central Artery Tunnels [BOSTON]
Name of Contract

NOW, THEREFORE, THE CONDITION OF THE ABOVE OBLIGATION is such, that if the bid shall be rejected or if the principal shall be awarded the contract for which the bid is submitted and shall execute the contract and give bond for the faithful performance thereof within fourteen (14) days after the award of same to the principal, then this obligation shall be null and void; but if the principal fails to so execute such contract and give performance bond as required by MGL Chapter 30, §39M, the surety shall, upon demand, forthwith pay to the obligee the amount set forth in the first paragraph hereof. The Surety for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall in no way be impaired or affected by any extension of time within which the Obligee/ Owner may accept the Bid and said Surety waives notice of any such extension. Provided further, that the bid may be withdrawn as provided by Section 2.07 of the Standard Specifications for Highways and Bridges latest edition.