

1	<b>TABLE OF CONTENTS TECHNICAL SPECIFICATIONS</b>	<b>(7/2023)</b>	
2			
3	Division Project No. <b>21E2S</b>		
4			
5	<b>DIVISION 1 – GPC BIDDING AND CONTRACT REQUIREMENTS</b>		<b>Pages Thru</b>
6	TITLE PAGE		1
7	TABLE OF CONTENTS		TC-5
8			
9	<b>GPC BIDDING REQUIREMENTS</b>		
10	GPC Invitation to Bid		A-2
11	GPC Instructions to Bidders		B-13
12	Bid Form – General Prime Contractor (GPC)		C-3
13	Sealed Bid Envelope Label		1
14	General Prime Contractor (GPC) Bid Bond Form (DOA-4190)		1
15	Designation of Confidential and Proprietary Information Form (DOA-3027)		1
16			
17	Form A - Affidavit of Compliance – MBE/DVB Provisions (DOA-4266)		2
18	Request for Submittal Approval (DOA-4523)		1
19	Request for Subcontractors Approval (DOA-4225)		1
20			
21	<b>CONTRACT FORMS</b>		
22	Performance Bond 100% Form (DOA-4188)		2
23	Payment Bond 100% Form (DOA-4187)		2
24	Contract Form (DOA-4504)		2
25			
26	<b>CONDITIONS OF THE CONTRACT</b>		
27	Index to the General Conditions		1
28	General Conditions of the General Prime Contractor Contract (DOA-4193P)		34
29	Supplementary General Conditions		SGC-1
30	Submittal Log		SL-5
31			
32	<b>DIVISION 01</b>		
33	General Requirements		GR-22
34	01 33 00 Electronic Submittal Procedures		01 33 00 - 6
35	01 74 19 Construction Waste Management		01 74 19 - 4
36	01 91 01 Commissioning Process		01 91 01 - 4
37			
38			
39	<b>VOLUME 02</b>		
40			
41	<b>DIVISION 02 – EXISTING CONDITIONS</b>		
42	Section Title		
43	02 05 00 Common Work Results for Existing Conditions		02 05 00 - 4
44	02 41 13 Demolition		02 41 13 - 4
45			
46	<b>DIVISION 05 – METALS</b>		
47	Section Title		
48	05 50 00 Metal Fabrications		05 50 00 - 10
49			
50	<b>DIVISION 06 – WOOD, PLASTICS AND COMPOSITES</b>		
51	06 10 00 Rough Carpentry		06 10 00 - 4
52			
53	<b>DIVISION 07 – THERMAL AND MOISTURE PROTECTION</b>		
54	Section Title		
55	07 84 00 Fire Stopping		07 84 00 - 9
56	07 92 00 Joint Sealants		07 92 00 - 6
57			
58			

1	<b>DIVISION 08 – OPENINGS</b>		
2	Section	Title	
3	08 12 13	Hollow Metal Doors and Frames	08 12 13 – 10
4	08 71 00	Door Hardware	08 71 00 – 8
5			
6	<b>DIVISION 09 – FINISHES</b>		
7	Section	Title	
8	09 21 16	Gypsum Board Assemblies	09 21 16 - 11
9	09 65 00	Resilient Flooring	09 65 00 - 6
10	09 91 23	Interior Painting	09 91 23 – 11
11			
12	<b>DIVISION 14 – CONVEYING SYSTEMS</b>		
13	Section	Title	
14	14 08 00	Commissioning of Conveying Systems	14 08 00 - 14
15	14 08 10	Commissioning of Conveying Systems	14 08 10 - 10
16	14 21 21	Traction Elevators – Bradley Memorial	14 21 21 - 19
17	14 21 22	Traction Elevators – Engineering Research	14 21 22 - 20
18	14 21 23	Traction Elevators – Charter St. Heating and Cooling	14 21 23 - 19
19	14 21 24	Traction Elevators – Chemistry Building	14 21 24 - 19
20	14 24 20	Hydraulic Elevators – Bascom Hall	14 24 20 - 18
21	14 24 21	Hydraulic Elevators – Steenbock Memorial Library	14 24 21 - 19
22			
23	<b>DIVISION 21 – FIRE SUPPRESSION</b>		
24	Section	Title	
25	21 05 00	Common Work Results for Fire Suppression	21 05 00 - 4
26	21 05 29	Hangers and Supports for Fire Suppression Piping and Equipment	21 05 29 - 3
27	21 10 00	Water Based Fire Suppression Systems	21 10 00 - 4
28			
29	<b>DIVISION 22 – PLUMBING</b>		
30	Section	Title	
31	22 05 00	Common Work Results for Plumbing	22 05 00 - 4
32	22 05 14	Plumbing Specialties	23 05 14 - 2
33	22 05 29	Hangers and Supports for Plumbing Piping and Equipment	22 05 29 - 3
34	22 13 00	Facility Sanitary Sewerage	22 13 00 - 4
35			
36	<b>DIVISION 23 – HEATING, VENTILATING AND AIR CONDITIONING</b>		
37	Section	Title	
38	23 05 00	Common Work Results for HVAC	23 05 00 - 6
39	23 05 29	Hangers and Supports for HVAC Piping and Equipment	23 05 29 - 6
40	23 05 93	Testing, Adjusting, and Balancing for HVAC	23 05 93 - 4
41	23 07 00	HVAC Insulation	23 07 00 - 8
42	23 08 00	Commissioning of HVAC	23 08 00 - 42
43	23 09 14	Instrumentation and Control Devices for HVAC	23 09 14 - 6
44	23 09 15	Direct Digital Control Input Output Point Summary Tables	23 09 15 - 1
45	23 09 23	Direct Digital Control System for HVAC	23 09 23 - 14
46	23 09 93	Sequence of Operation for HVAC Controls	23 09 93 - 5
47	23 21 13	Hydronic Piping	23 21 13 - 7
48	23 25 00	HVAC Water Treatment.	23 25 00 - 5
49	23 81 26	Split-System Ductless Air-Conditioners	23 81 26 - 6
50	23 82 00	Heating and Cooling Terminal Units	23 82 00 - 2
51			
52	<b>DIVISION 26 – ELECTRICAL</b>		
53	Section	Title	
54	26 05 00	Common Work Results for Electrical	26 05 00 - 7
55	26 05 02	Electrical Demolition for Remodeling	26 05 02 - 3
56	26 05 04	Cleaning, Inspection and Testing of Electrical Equipment	26 05 04 - 2

1	26 05 19	Low Voltage Power Cable and Wire	26 05 19 - 4
2	26 05 23	Control-Voltage Electrical Power Cables	26 05 23 - 3
3	26 05 26	Grounding and Bonding for Electrical Systems	26 05 26 - 5
4	26 05 29	Hangers and Supports for Electrical Systems	26 05 29 - 4
5	26 05 33	Raceway and Boxes for Electrical Systems	26 05 33 - 7
6	26 05 53	Identification for Electrical Systems	26 05 53 - 4
7	26 05 73	Short Circuit Coordination Study and Arc Flash Hazard Study	26 05 73 - 5
8	26 22 00	Low-Voltage Transformers	26 22 00 - 2
9	26 24 13	Switchboards	26 24 13 - 6
10	26 24 16	Panelboards	26 24 16 - 6
11	26 27 02	Equipment Wiring Systems	26 27 02 - 4
12	26 27 26	Wiring Devices	26 27 26 - 4
13	26 27 28	Disconnect Switches	26 27 28 - 2
14	26 27 29	Elevator Distribution Equipment	26 27 29 - 3
15	26 28 13	Fuses	26 28 13 - 1
16	26 28 16	Enclosed Switches and Circuit Breakers	26 28 16 - 2
17	26 43 13	Surge Protective Devices for Low-Voltage Electrical Power Circuits	26 43 13 - 3
18	26 51 13	Interior Lighting Fixtures, Lamps, And Ballasts	26 51 13 - 6
19			
20		<b>DIVISION 27 – COMMUNICATIONS</b>	
21	Section	Title	
22	27 05 53	Identification for Communications Systems	27 05 53 - 4
23	27 08 00	Commissioning Communications	27 08 00 - 16
24	27 10 00	Structured Cabling	27 10 00 - 19
25			
26		<b>DIVISION 28 – ELECTRONIC SAFETY AND SECURITY</b>	
27	Section	Title	
28	28 10 00	Access Control	28 10 00 - 9
29	28 31 00	Fire Detection and Alarm	28 31 00 - 20
30			
31		<b>DRAWINGS – Bound Separately – Organized by Building</b>	
32	Title		Sheet Number
33			
34	COVER SHEET		G-001
35	GENERAL NOTES, LEGENDS & ABBREVIATIONS		A-001
36	ELEVATOR DETAILS		A-002
37	FIRE PROTECTION GENERAL NOTES, SYMBOLS, & ABBREVIATIONS		F-001
38	MECHANICAL GENERAL NOTES, SYMBOLS, AND SCHEDULES		M-001
39	ELECTRICAL GENERAL NOTES, SYMBOLS		E-001
40	ELECTRICAL ONE-LINE DIAGRAMS		E-200
41	ELECTRICAL ONE-LINE DIAGRAMS 2		E-201
42	ELECTRICAL PANEL SCHEDULES		E-202
43	ELECTRICAL SCHEDULES AND IT DETAIL		E-203
44			
45	<b>A - BASCOM HALL</b>		
46	BASCOM 0050 - COVER SHEET		A-A100
47	BASCOM 0050 - RO 503211 - DEMOLITION PLANS		A-A110
48	BASCOM 0050 - RO 503211 - FLOOR PLANS		A-A120
49	BASCOM 0050 - RO 503211 - REFLECTED CEILING PLANS		A-A140
50	BASCOM 0050 - RO 503211 - SECTIONS AND DETAILS		A-A200
51	BASCOM 0050 - RO 503211 - LANDING DETAILS		A-A300
52	BASCOM 0050 - RO 503211 - MECHANICAL FLOOR PLANS		A-M120
53	BASCOM 0050 - RO 503211 - ELECTRICAL FLOOR PLANS		A-E120
54			
55	<b>C - BRADLEY MEMORIAL</b>		
56	BRADLEY 0452 - COVER SHEET		C-A100

1	BRADLEY 0452 - RO 501753 - DEMOLITION PLANS AND RCP	C-A110
2	BRADLEY 0452 - RO 501753 - FLOOR PLANS	C-A120
3	BRADLEY 0452 - RO 501753 - REFLECTED CEILING PLANS AND DETAILS	C-A140
4	BRADLEY 0452 - RO 501753 - SECTIONS	C-A200
5	BRADLEY 0452 - RO 501753 - LANDING DETAILS	C-A300
6	BRADLEY 0452 - RO 501753 - DOOR TYPES & SCHEDULE & WALL TYPES	C-A400
7	BRADLEY 0452 - RO 501753 - FIRE PROTECTION FLOOR PLANS	C-F120
8	BRADLEY 0452 - RO 501753 - MECHANICAL FLOOR PLANS	C-M120
9	BRADLEY 0452 - RO 501753 - ELECTRICAL FLOOR PLANS	C-E120
10		
11	<b>D - ENGINEERING RESEARCH</b>	
12	ENGINEERING RESEARCH 0762 - COVER SHEET	D-A100
13	ENGINEERING RESEARCH 0762 - RO 503865 & 503866 - DEMOLITION PLANS	D-A110
14	ENGINEERING RESEARCH 0762 - RO 503865 & 503866 - DEMOLITION PLANS	D-A111
15	ENGINEERING RESEARCH 0762 - RO 503865 & 503866 - DEMOLITION PLANS & RCP	D-A112
16	ENGINEERING RESEARCH 0762 - RO 503865 & 503866 - FLOOR PLANS	D-A120
17	ENGINEERING RESEARCH 0762 - RO 503865 & 503866 - FLOOR PLANS	D-A121
18	ENGINEERING RESEARCH 0762 - RO 503865 & 503866 - FLOOR PLANS & RCP	D-A122
19	ENGINEERING RESEARCH 0762 - RO 503865 & 503865 - SECTIONS AND DETAILS	D-A200
20	ENGINEERING RESEARCH 0762 - RO 503865 & 503866 - LANDING DETAILS	D-A300
21	ENGINEERING RESEARCH 0762 - RO 503865 & 503866 - MECHANICAL FLOOR PLANS	D-M120
22	ENGINEERING RESEARCH 0762 - RO 503865 & 503866 - ELECTRICAL FLOOR PLANS	D-E120
23		
24	<b>E - STEENBOCK MEMORIAL LIBRARY</b>	
25	STEENBOCK 0079 - COVER SHEET	E-A100
26	STEENBOCK 0079 - RO 503760 & 503761 - DEMOLITION PLANS	E-A110
27	STEENBOCK 0079 - RO 503760 & 503761 - DEMOLITION PLANS	E-A111
28	STEENBOCK 0079 - RO 503760 & 503761 - FLOOR PLANS	E-A120
29	STEENBOCK 0079 - RO 503760 & 503761 - FLOOR PLANS	E-A121
30	STEENBOCK 0079 - RO 503760 & 503761 - SECTIONS AND DETAILS	E-A200
31	STEENBOCK 0079 - RO 503760 & 503761 - LANDING DETAILS	E-A300
32	STEENBOCK 0079 - RO 503760 & 503761 - MECHANICAL FLOOR PLANS	E-M120
33	STEENBOCK 0079 - RO 503760 & 503761 - ELECTRICAL FLOOR PLANS	E-E120
34	STEENBOCK 0079 - RO 503760 & 503761 - ELECTRICAL FLOOR PLANS	E-E121
35		
36	<b>G - CHARTER ST HEATING AND COOLING</b>	
37	CHARTER ST HEATING 0529 - COVER SHEET	G-A100
38	CHARTER ST HEATING 0529 - RO 502505 - DEMOLITION PLANS	G-A110
39	CHARTER ST HEATING 0529 - RO 502505 - FLOOR PLANS	G-A120
40	CHARTER ST HEATING 0529 - RO 502505 - FLOOR PLANS & RCP	G-A121
41	CHARTER ST HEATING 0529 - RO 502505 - SECTIONS & DETAILS	G-A200
42	CHARTER ST HEATING 0529 - RO 502505 - MECHANICAL FLOOR PLANS	G-M120
43	CHARTER ST HEATING 0529 - RO 502505 - ELECTRICAL FLOOR PLANS	G-E120
44	CHARTER ST HEATING 0529 - RO 502505 - ELECTRICAL FLOOR PLANS	G-E121
45		
46	<b>H - CHEMISTRY BUILDING</b>	
47	CHEMISTRY 047 - COVER SHEET	H-A100
48	CHEMISTRY 047 - RO 502506 - DEMOLITION PLANS	H-A110
49	CHEMISTRY 047 - RO 502506 - DEMOLITION PLANS	H-A111
50	CHEMISTRY 047 - RO 502506 - DEMOLITION REFLECTED CEILING PLANS	H-A115
51	CHEMISTRY 047 - RO 502506 - FLOOR PLANS	H-A120
52	CHEMISTRY 047 - RO 502506 - FLOOR PLANS	H-A121
53	CHEMISTRY 047 - RO 502506 - REFLECTED CEILING PLANS	H-A140
54	CHEMISTRY 047 - RO 502506 - SECTIONS AND DETAILS	H-A200
55	CHEMISTRY 047 - RO 502506 - LANDING DETAILS	H-A300
56	CHEMISTRY 047 - RO 502506 - MECHANICAL FLOOR PLANS	H-M120

1	CHEMISTRY 047 - RO 502506 - ELECTRICAL FLOOR PLANS	H-E120
2	CHEMISTRY 047 - RO 502506 - ELECTRICAL FLOOR PLANS	H-E121
3		
4	END OF SECTION	