

1	TABLE OF CONTENTS TECHNICAL SPECIFICATIONS	(1/2023)	
2	VOLUME 4 of 4		
3			
4	Division Project No. 20A3LREBID2		
5			Pages Thru
6	TITLE PAGE		1
7	TABLE OF CONTENTS		TC-5
8			
9	DIVISION 02 – EXISTING CONDITIONS		
10	Section Title		
11	02 41 13 Selective Removal		02 41 13-3
12			
13	DIVISION 03 - CONCRETE		
14	Section Title		Pages Thru
15	03 30 00 Cast-In-Place Concrete		03 30 00-11
16	03 41 00 Precast Structural Concrete		03 41 00-8
17			
18	DIVISION 04 - MASONRY		
19	Section Title		Pages Thru
20	04 08 00 Commissioning of Masonry		04 08 00-10
21	04 20 00 Unit Masonry		04 20 00-13
22	04 72 00 Architectural Cast Stone		04 72 00-6
23			
24	DIVISION 05 - METALS		
25	Section Title		Pages Thru
26	05 12 00 Structural Steel Framing		05 12 00-5
27	05 50 00 Metal Fabrications		05 50 00-3
28	05 52 17 Rooftop Fall Protection		05 52 17-3
29			
30	DIVISION 06 – WOOD, PLASTICS AND COMPOSITES		
31	Section Title		Pages Thru
32	06 10 00 Rough Carpentry		06 10 00-4
33	06 10 53.01 Miscellaneous Rough Carpentry – Roofing		06 10 53.01-2
34	06 61 00 Solid Surface Stools		06 61 00-2
35			
36	DIVISION 07 - THERMAL AND MOISTURE PROTECTION		
37	Section Title		Pages Thru
38	07 08 00 Commissioning of Thermal and Moisture Protection		07 08 00-13
39	07 20 00 Building Insulation		07 20 00-4
40	07 27 26 Fluid Applied Air / Vapor Barriers		07 27 26-4
41	07 53 23 Ethylene-Propylene-Diene-Monomer Roofing		07 53 23-14
42	07 60 00 Sheet Metal Flashings		07 60 00-6
43	07 63 00 Sheet Metal Roofing Specialties		07 63 00-6
44	07 84 00 Fire Stopping		07 84 00-8
45	07 92 00 Sealants		07 92 00-4
46			
47	DIVISION 08 - OPENINGS		
48	Section Title		Pages Thru
49	08 08 00 Commissioning of Exterior Building Envelope		08 08 00-4
50	08 11 00 Metal Doors and Frames		08 11 00-4
51	08 14 16 Flush Wood Doors		08 14 16-4
52	08 31 00 Access Doors and Hatches		08 31 00-3
53	08 41 00 Aluminum Storefront		08 41 00-7
54	08 44 13 Glazed Aluminum Curtain Walls		08 44 13-9
55	08 71 00 Door Hardware		08 71 00-8
56	08 81 00 Insulated Glass Units		08 81 00-9
57			

1	DIVISION 09 - FINISHES		
2	Section	Title	Pages Thru
3	09 26 00	Gypsum Board Assemblies	09 26 00-6
4	09 30 00	Tile	09 30 00-7
5	09 51 23	Acoustical Tile Ceilings	09 51 23-2
6	09 65 00	Resilient Floor, Base, and Accessories	09 65 00-4
7	09 68 00	Carpet	09 68 00-5
8	09 91 00	Painting and Coating	09 91 00-4
9			
10	DIVISION 10 – SPECIALTIES		
11	Section	Title	Pages Thru
12	10 28 00	Interior Accessories	10 28 00-4
13			
14	DIVISION 12 - FURNISHINGS		
15	Section	Title	Pages Thru
16	12 35 30	Plastic Laminate Casework	12 35 30-2
17			
18	DIVISION 14 - CONVEYING SYSTEMS		
19	Section	Title	Pages Thru
20	14 08 00	Commission of Conveying System	14 08 00-3
21	14 21 20	LULA Elevator	14 21 20-17
22			
23	DIVISION 22 - PLUMBING		
24	Section	Title	Pages Thru
25	22 05 00	Common Work Results for Plumbing	22 05 00-10
26	22 05 13	Common Motor Requirements for Plumbing	22 05 13-2
27	22 05 14	Plumbing Specialties	22 05 14-5
28	22 05 15	Piping Specialties	22 05 15-3
29	22 05 23	General Duty Valves for Plumbing Piping	22 05 23-4
30	22 05 29	Hangers and Supports for Plumbing Piping and Equipment	22 05 29-5
31	22 07 00	Plumbing Insulation	22 07 00-7
32	22 08 00	Commissioning of Plumbing	22 08 00-41
33	22 11 00	Facility Water Distribution	22 11 00-8
34	22 13 00	Facility Sanitary Sewerage	22 13 00-7
35	22 14 00	Facility Storm Drainage	22 14 00-8
36	22 30 00	Plumbing Equipment	22 30 00-3
37	22 42 00	Commercial Plumbing Fixtures	22 42 00-4
38			
39	TABLE OF CONTENTS VOLUME 3		
40			
41	DIVISION 23 - HEATING, VENTILATING AND AIR CONDITIONING		
42	Section	Title	Pages Thru
43	23 01 30.51	HVAC Air Duct Cleaning	23 01 30.51-3
44	23 05 00	Common Work Results for HVAC	23 05 00-7
45	23 05 13	Common Motor Requirements for HVAC Equipment	23 05 13-3
46	23 05 14	Variable Frequency Drives	23 05 14-6
47	23 05 15	Piping Specialties	23 05 15-5
48	23 05 23	General Duty Valves for HVAC	23 05 23-5
49	23 05 29	Hangers and Supports for HVAC Piping and Equipment	23 05 29-5
50	23 05 48	Vibration and Seismic Controls for HVAC Piping and Equipment	23 05 48-4
51	23 05 93	Testing, Adjusting and Balancing for HVAC	23 05 93-5
52	23 07 00	HVAC Insulation	23 07 00-10
53	23 08 00	Commissioning of HVAC	23 08 00-150
54	23 09 14	Pneumatic and Electric Controls	23 09 14-18
55	23 09 15	Direct Digital Control Input/Output Point Summary Tables	23 09 15-7
56	23 09 24	Direct Digital Control System for HVAC	23 09 24-14
57	23 09 93	Sequence of Operation for HVAC Controls	23 09 93-11

1	23 11 00	Facility Fuel Piping	23 11 00-7
2	23 21 13	Hydronic Piping	23 21 13-11
3	23 21 23	Hydronic Pumps	23 21 23-3
4	23 23 00	Refrigerant Piping	23 23 00-3
5	23 25 00	HVAC Water Treatment	23 25 00-4
6	23 31 00	HVAC Ducts and Casings	23 31 00-7
7	23 33 00	Air Duct Accessories	23 33 00-5
8	23 34 00	HVAC Fans	23 34 00-3
9	23 36 00	Air Terminal Units	23 36 00-4
10	23 37 13	Diffusers, Registers and Grilles	23 37 13-2
11	23 41 00	Particulate Air Filtration	23 41 00-3
12	23 51 00	Breechings, Chimneys and Stacks	23 51 00-3
13	23 52 00	Heating Boilers	23 52 00-4
14	23 62 13	Packaged Air-Cooled Refrigerant Compressor and Condensing Units	23 62 13-4
15	23 73 12	Air Handling Unit Coils	23 73 12-3
16	23 73 13	Modular Indoor Central-Station Air-Handling Units	23 73 13-6
17	23 81 26	Split-System Ductless Air-Conditioners	23 81 26-6
18	23 82 00	Heating and Cooling Terminal Units	23 82 00-3
19	23 83 16	Radiant-Heating Hydronic Piping	23 83 16-4

20

21 **TABLE OF CONTENTS VOLUME 4**

22

23 **DIVISION 26 - ELECTRICAL**

24	Section	Title	Pages Thru
25	26 05 00	Common Work Results for Electrical	26 05 00-7
26	26 05 02	Electrical Demolition for Remodeling	26 05 02-3
27	26 05 04	Cleaning, Inspection and Testing of Electrical Equipment	26 05 04-3
28	26 05 19	Low-Voltage Electrical Power Conductors and Cables	26 05 19-6
29	26 05 23	Control-Voltage Electrical Power Cables	26 05 23-3
30	26 05 26	Grounding and Bonding for Electrical Systems	26 05 26-5
31	26 05 29	Hangers and Supports for Electrical Systems	26 05 29-4
32	26 05 33	Raceway and Boxes for Electrical Systems	26 05 33-11
33	26 05 53	Identification for Electrical Systems	26 05 53-3
34	26 05 73	Short Circuit/Coordination and Arc Flash Risk Assessment	26 05 73-5
35	26 24 16	Panelboards	26 24 16-3
36	26 27 26	Wiring Devices	26 27 26-6
37	26 27 28	Disconnect Switches	26 27 28-2
38	26 28 13	Fuses	26 28 13-1
39	26 51 13	Interior Lighting Fixtures, Lamps and Ballasts	26 51 13-7

40

41 **DIVISION 27 - COMMUNICATIONS**

42	Section	Title	Pages Thru
43	27 05 53	Identification for Communication Systems	27 05 53-6
44	27 08 00	Commissioning of Communications	27 08 00-18
45	27 10 00	Structured Cabling	27 10 00-26
46	27 11 00	Communications Room Equipment Fittings	27 11 00-4
47	27 11 13	Communications Protection	27 11 13-3

48

49 **DIVISION 28 – ELECTRONIC SAFETY AND SECURITY**

50	Section	Title	Pages Thru
51	28 08 00	Commissioning of Electronic Safety and Security	28 08 00-16
52	28 10 00	Access Control	28 10 00-10
53	28 23 00	Video Surveillance System	28 23 00-7
54	28 31 00	Fire Detection and Alarm	28 31 00-31

55

56

57

1	DIVISION 30 – COMMON WORK RESULTS FOR ALL EXTERIOR WORK		
2	Section	Title	
3	30 05 00	Common Work Results for Exterior Work	30 05 00-5
4			
5	DIVISION 31 - EARTHWORK		
6	Section	Title	Pages Thru
7	31 20 00	Earthmoving	31 20 00-6
8	31 22 16.15	Roadway Subgrade Preparation	31 22 16.15-4
9	31 25 00	Erosion Control	31 25 00-5
10			
11	DIVISION 32 – EXTERIOR IMPROVEMENTS		
12	Section	Title	Pages Thru
13	32 11 23.33	Dense Graded Base	32 11 23.33-3
14	32 12 16.13	Plant Mix Asphalt Paving	32 12 16.13-2
15	32 92 00	Mineral Mulch	32 92 00-2
16	32 92 19	Seeding	32 92 19-3
17			
18	DIVISION 33 - UTILITIES		
19	Section	Title	Pages Thru
20	33 40 00	Storm Drainage Utilities	33 40 00-11
21			
22	DRAWINGS - Bound Separately		
23	Title		Sheets Thru
24	TITLE SHEET AND INDEX		T100
25	CODE INFORMATION, ABBREVIATIONS AND SYMBOLS		G101
26	SITE ACCESS, STAGING, DUST CONTROL, AND NOTES		G102
27			
28	SITE DETAILS		C100
29	EXISTING CONDITIONS		C200
30	DEMOLITION PLAN		C250
31	EROSION CONTROL PLAN		C300
32	GRADING AND UTILITY PLAN		C400
33	ARCHITECTURAL SITE PLAN AND DETAILS		AC100
34			
35	ARCHITECTURAL LOWER LEVEL PLAN - DEMOLITION		AD100
36	ARCHITECTURAL FIRST FLOOR PLAN - DEMOLITION		AD101
37	ARCHITECTURAL LOWER LEVEL FLOOR PLAN		A200
38	ARCHITECTURAL FIRST FLOOR PLAN		A201
39	ROOF PLAN AND DETAILS		A203
40	ARCHITECTURAL LOWER LEVEL REFLECTED CEILING PLAN		A220
41	ARCHITECTURAL FIRST FLOOR REFLECTED CEILING PLAN		A221
42	BUILDING ELEVATIONS		A300
43	BUILDING SECTION		A301
44	BUILDING SECTION		A302
45	BUILDING SECTION		A303
46	BUILDING SECTION		A304
47	BUILDING SECTION		A305
48	BUILDING SECTION		A306
49	BUILDING SECTION		A307
50	WALL SECTIONS		A310
51	WALL SECTIONS		A311
52	WALL SECTIONS		A312
53	WALL SECTIONS		A313
54	WALL SECTIONS		A314
55	PLAN AND WALL SECTIONS - LOWER LEVEL CANOPY		A315
56	PLAN DETAILS		A501
57	SECTION DETAILS		A502

1	SECTION DETAILS	A503
2	PARTITION TYPES AND DETAILS	A601
3	ROOM FINISH PLAN AND SCHEDULE, DOOR SCHEDULE	A602
4	CASEWORK ELEVATIONS	A603
5	CASEWORK SECTIONS	A604
6	ENLARGED PLANS	A605
7	DOOR SCHEDULE, CURTAINWALL ELEVATIONS, AND DETAILS	A606
8		
9	DEMOLITION PLANS	SD100
10	STRUCTURAL NOTES, LEGENDS AND SCHEDULES	S100
11	FOUNDATION PLAN	S200
12	FIRST FLOOR AND ROOF FRAMING PLANS	S201
13	STRUCTURAL DETAILS	S501
14	STRUCTURAL DETAILS	S502
15		
16	PLUMBING GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	P000
17	PLUMBING LOWER LEVEL DEMOLITION PLAN	PD100
18	PLUMBING UNDER FLOOR DEMOLITION PLAN	PD100U
19	PLUMBING FIRST FLOOR DEMOLITION PLAN	PD101
20	PLUMBING LOWER LEVEL NEW WORK PLAN	P200
21	PLUMBING UNDER FLOOR NEW WORK PLAN	P200U
22	PLUMBING FIRST FLOOR PLAN NEW WORK	P201
23	PLUMBING ISOMETRICS	P300
24	PLUMBING DETAILS	P400
25		
26	MECHANICAL SYMBOLS, ABBREVIATIONS, AND VENTILATION REQUIRMENTS	M000
27	MECHANICAL LOWER LEVEL DEMOLITION PLAN	MD100
28	MECHANICAL FIRST FLOOR DEMOLITION PLAN	MD101
29	MECHANICAL LOWER LEVEL NEW WORK PLAN	M200
30	MECHANICAL FIRST FLOOR NEW WORK PLAN	M201
31	MECHANICAL PIPING LOWER LEVEL NEW WORK PLAN	M210
32	MECHANICAL PIPING FIRST FLOOR NEW WORK PLAN	M211
33	MECHANICAL RADIANT FLOOR PLANS	M212
34	MECHANICAL DETAILS	M400
35	MECHANICAL DETAILS	M401
36	MECHANICAL DETAILS	M402
37	MECHANICAL SCHEDULES	M500
38		
39	COMMUNICATIONS AND ELECTRICAL GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	E000
40	ELECTRICAL LOWER-LEVEL DEMOLITION PLAN	ED100
41	ELECTRICAL FIRST FLOOR DEMOLITION PLAN	ED101
42	COMMUNICATIONS AND ELECTRONIC SECURITY LOWER-LEVEL DEMOLITION PLAN	ED110
43	COMMUNICATIONS AND ELECTRONIC SECURITY FIRST FLOOR DEMOLITION PLAN	ED111
44	ELECTRICAL POWER AND FIRE ALARM LOWER-LEVEL NEW WORK PLAN	E200
45	ELECTRICAL POWER AND FIRE ALARM FIRST FLOOR NEW WORK PLAN	E201
46	COMMUNICATIONS AND ELECTRONIC SECURITY LOWER-LEVEL NEW WORK PLAN	E210
47	COMMUNICATIONS AND ELECTRONIC SECURITY FIRST LEVEL NEW WORK PLAN	E211
48	ELECTRICAL LIGHTING LOWER-LEVEL NEW WORK PLAN	E220
49	ELECTRICAL LIGHTING FIRST FLOOR NEW WORK PLAN	E221
50	ELECTRICAL SCHEDULES AND DETAILS	E400
51	ELECTRICAL PANEL SCHEDULES	E401
52	ELECTRICAL DETAILS	E500
53	FIRE ALARM DETAILS	E501
54	COMMUNICATION DETAILS	E502
55	COMMUNICATION DETAILS	E503
56	ELECTRICAL ONE-LINE DIAGRAM	E600
57		