

1 **TABLE OF CONTENTS TECHNICAL SPECIFICATIONS (1/2023)**
 2 **VOLUME 4 of 5**

3
 4 Division Project No. **21H3IREBID**

Pages Thru
 1
 TC-5

5
 6 **TITLE PAGE**
 7 **TABLE OF CONTENTS**

8
 9 **VOLUME 2**

10
 11 **DIVISION 02 – EXISTING CONDITIONS**

12	Section	Title	
13	02 05 00	Common Work Results for Existing Conditions	4
14	02 32 00	Environmental Investigation	44
15	02 41 19	Selective Demolition	3

16 **DIVISION 03 - CONCRETE**

17	Section	Title	
18	03 30 00	Cast-In-Place Concrete	19

19
 20 **DIVISION 04 - MASONRY**

21	Section	Title	
22	04 20 00	Unit Masonry	14

23
 24 **DIVISION 05 - METALS**

25	Section	Title	
26	05 12 00	Structural Steel Framing	5
27	05 31 00	Steel Decking	3
28	05 40 00	Cold Formed Metal Framing	6
29	05 50 00	Metal Fabrications	5

30
 31 **DIVISION 06 – WOOD, PLASTICS AND COMPOSITES**

32	Section	Title	
33	06 10 53	Miscellaneous Rough Carpentry	5
34	06 16 00	Sheathing	4
35	06 20 13	Exterior Finish Carpentry	6
36	06 20 23	Interior Finish Carpentry	8
37	06 41 16	Plastic Laminate Clad Architectural Cabinets	7

38
 39 **DIVISION 07 - THERMAL AND MOISTURE PROTECTION**

40	Section	Title	
41	07 11 13	Bituminous Dampproofing	3
42	07 21 19	Foamed In Place Insulation	4
43	07 25 00	Weather Barriers	2
44	07 53 23	Ethylene-Propylene-Diene-Monomer Roofing	18
45	07 63 00	Sheet Metal Roofing Specialties	8
46	07 84 00	Fire Stopping	9
47	07 92 10	Joint Sealants	6

48
 49 **DIVISION 08 - OPENINGS**

50	Section	Title	
51	08 11 13	Hollow Metal Doors and Frames	9
52	08 14 16	Flush Wood Doors	6
53	08 51 13	Aluminum Windows	6
54	08 71 00	Door Hardware	14
55	08 80 00	Glazing	9
56	08 87 00	Window Film	6
57	08 88 53	Security Glazing	5

1			
2	DIVISION 09 - FINISHES		
3	Section	Title	
4	09 22 16	Non-Structural Metal Framing	6
5	09 29 00	Gypsum Board	8
6	09 30 00	Ceramic Tile	7
7	09 51 13	Acoustical panel Ceilings	7
8	09 65 10	Resilient Tile Flooring and Accessories	6
9	09 67 10	Fluid Applied Resinous Flooring	6
10	09 68 13	Carpet Tile	4
11	09 91 23	Interior Painting	7
12	09 96 00	High Performance Coatings	5
13	09 96 10	Textured Acrylic Finishes	7
14	09 99 50	Media Blasting	4
15	VOLUME 3		
16			
17	DIVISION 10 - SPECIALTIES		
18	Section	Title	
19	10 11 43	Visual Display Wall Panels	3
20	10 14 19	Dimensional Letter Signage	5
21	10 14 23.16	Room Identification Panel Signage	5
22	10 26 23	Decorative Protection Panels	5
23	10 26 50	Impact Resistant Wall Protection	4
24	10 28 00	Toilet and Bath Accessories	5
25	10 44 13	Fire Extinguisher Cabinets	4
26	10 51 13	Metal Evidence Locker	7
27			
28	DIVISION 12 - FURNISHINGS		
29	Section	Title	
30	12 24 13	Roller Shades	5
31	12 36 23.13	Plastic-Laminate-Clad Countertops	7
32			
33	DIVISION 22 - PLUMBING		
34	Section	Title	
35	22 05 00	Common Work Results for Plumbing	8
36	22 05 13	Common Motor Requirements for Plumbing Equipment	2
37	22 05 14	Plumbing Specialties	3
38	22 05 15	Piping Specialties	2
39	22 05 23	General Duty Valves for Plumbing Piping	3
40	22 05 29	Hangers and Supports for Plumbing Piping and Equipment	4
41	22 07 00	Plumbing Insulation	6
42	22 08 00	Commissioning of Plumbing	26
43	22 11 00	Facility Water Distribution	7
44	22 13 00	Facility Sanitary Sewerage	4
45	22 42 00	Plumbing Fixtures	3
46			
47	DIVISION 23 - HEATING, VENTILATING AND AIR CONDITIONING		
48	Section	Title	
49	23 05 00	Common Work Results for HVAC	6
50	23 05 13	Common Motor Requirements for HVAC Equipment	4
51	23 05 14	Variable Frequency Drives	6
52	23 05 15	Piping Specialties	5
53	23 05 23	General Duty Valves for HVAC	5
54	23 05 29	Hangers and Supports for HVAC Piping and Equipment	6
55	23 05 48	Vibration and Seismic Controls for HVAC Piping and Equipment	3
56	23 05 93	Testing, Adjusting and Balancing for HVAC	5
57	23 07 00	HVAC Insulation	10

1			
2	VOLUME 4		
3			
4	23 08 00	Commissioning of HVAC	140
5	23 09 14	Pneumatic and Electric Instrumentation and Controls Devices for HVAC	16
6	23 09 15	Direct Digital Control Input/Output Point Summary Tables	5
7	23 09 24	Direct Digital Control System for HVAC (Informational Purposes Only)	14
8	23 09 93	Sequence of Operation for HVAC Controls	11
9	23 11 00	Facility Fuel Piping	7
10	23 21 13	Hydronic Piping	11
11	23 21 23	HVAC Pumps	3
12	23 23 00	Refrigerant Piping	3
13	23 25 00	HVAC Water Treatment	4
14	23 31 00	HVAC Ducts and Casings	8
15	23 33 00	Air Duct Accessories	5
16	23 34 00	HVAC Fans	3
17	23 36 00	Air Terminal Units	5
18	23 37 13	Diffusers, Registers and Grilles	3
19	23 51 00	Breechings, Chimmneys and Stacks	3
20	23 52 00	Heating Boilers	4
21	23 74 33	Packaged Roof Top Air Conditioning Units	5
22	23 81 26	Split-System Ductless Air Conditioners	6
23	23 82 00	Heating and Cooling Terminal Units	3
24			
25	VOLUME 5		
26			
27	DIVISION 26 - ELECTRICAL		
28	Section	Title	
29	26 05 00	Common Work Results for Electrical	8
30	26 05 02	Electrical Demolition for Remodeling	3
31	26 05 04	Cleaning, Inspection and Testing of Electrical Equipment	3
32	26 05 19	Low-Voltage Electrical Power Conductors and Cables	6
33	26 05 23	Control-Voltage Electrical Power Cables	3
34	26 05 26	Grounding and Bonding for Electrical Systems	6
35	26 05 29	Hangers and Supports for Electrical Systems	4
36	26 05 33	Raceway and Boxes for Electrical Systems	10
37	26 05 53	Identification for Electrical Systems	3
38	26 05 73	Short Circuit/Coordination and Arc Flash Hazard Study	5
39	26 08 00	Commissioning of Electrical	57
40	26 09 28	Lighting Control Panels	7
41	26 22 00	Low-Voltage Transformers	2
42	26 24 16	Panelboards	5
43	26 27 02	Equipment Wiring Systems	3
44	26 27 13	Electricity Metering	2
45	26 27 26	Wiring Devices	7
46	26 27 28	Disconnect Switches	2
47	26 28 13	Fuses	1
48	26 28 16	Enclosed Switches and Circuit Breakers	3
49	26 29 00	Low Voltage Controllers	4
50	26 32 13.16	Engine – Driven Generator Sets – Natural Gas	7
51	26 36 00	Transfer Switches	5
52	26 36 01	Manual Transfer Switches	3
53	26 43 13	Surge Protective Devices for Low-Voltage Electrical Power	3
54	26 51 13	Interior Lighting Fixtures, Lamps, And Ballasts	6
55			
56	DIVISION 27 - COMMUNICATIONS		
57	Section	Title	

1	27 05 53	Identification for Communication Systems	5
2	27 08 00	Commissioning of Communications	20
3	27 10 00	Structured Cabling	27
4	27 11 00	Communications Equipment Room Fittings	6
5	27 16 19	Communications Patch Cords, Station Cords, & Cross	4
6			
7	DRAWINGS - Bound Separately		
8	Title		Sheets Thru
9			
10	TITLE SHEET		T000
11			
12	Architectural		A-
13	GENERAL INFORMATION SHEET		A001
14	PARTITION TYPES		A002
15	LIFE SAFETY PLANS		A010
16	DEMOLITION PLAN – LEVEL 01		A101
17	NEW WORK PLAN – LEVEL 01		A201
18	NEW WORK PLAN – ROOF LEVEL		A202
19	REFLECTED CEILING PLAN – LEVEL 01		A301
20	EXTERIOR ELEVATIONS & SECTIONS		A400
21	EXTERIOR DETAILS		A401
22	INTERIOR ELEVATIONS		A700
23	INTERIOR DETAILS		A710
24	DOOR AND ROOM FINISH SCHEDULE		A800
25			
26	Structural		S-
27	STRUCTURAL NOTES & SCHEDULES		S000
28	FOUNDATION PLAN		S100
29	ROOF FRAMING		S101
30	DETAILS		S200
31			
32	Plumbing		P-
33	PLUMBING COVER SHEET		P000
34	PLUMBING PLAN – LEVEL 01 DEMOLITION		P101
35	PLUMBING PLAN – LEVEL 01 AND FOUNDATION		P201
36	PLUMBING ISOMETRICS		P300
37	PLUMBING DETAILS		P400
38			
39	Heating, Ventilating and Air Conditioning		M-
40	MECHANICAL SYMBOLS AND SHEET INDEX		M000
41	MECHANICAL DEMOLITION PLAN – LEVEL 01		M101
42	MECHANICAL DEMOLITION PLAN – LEVEL 02 AND GARAGE ROOF		M102
43	MECHANICAL DEMOLITION PLAN – ROOF		M103
44	MECHANICAL PLAN – LEVEL 01		M201
45	MECHANICAL PLAN – LEVEL 02 AND GARAGE ROOF		M202
46	MECHANICAL PLAN – ROOF		M203
47	MECHANICAL SYSTEM DIAGRAM AND SCHEMATICS		M400
48	MECHANICAL DETAILS		M500
49	MECHANICAL DETAILS		M501
50	MECHANICAL SCHEDULES		M600
51	MECHANICAL SCHEDULES		M601
52			
53	Electrical		E-
54	SYMBOLS, ABBREVIATIONS & SHEET INDEX		E000
55	ELECTRICAL DEMOLITION PLAN – LEVEL 01		E101
56	ELECTRICAL DEMOLITION PLAN – LEVEL 02 & GARAGE ROOF		E102
57	ELECTRICAL DEMOLITION PLAN – ROOF		E103

1	LIGHTING PLAN – LEVEL 01	E201
2	LIGHTING PLAN – LEVEL 02	E202
3	POWER AND TECHNOLOGY PLAN – LEVEL 01	E211
4	POWER AND TECHNOLOGY PLAN – LEVEL 02 & GARAGE ROOF	E212
5	POWER AND COMMUNICATIONS PLAN – ROOF	E213
6	ENLARGED POWER, COMMUNICATION AND SECURITY PLAN	E301
7	ONE LINE SYMBOLS AND SCHEDULES	E400
8	ONE LINE DIAGRAM – DEMOLITION	E401
9	ONE LINE DIAGRAM – NEW WORK	E402
10	ELECTRICAL DETAILS	E500
11	ELECTRICAL DETAILS	E501
12	ELECTRICAL DETAILS	E502
13	ELECTRICAL DETAILS	E503
14	ELECTRICAL SCHEDULES	E600
15	ELECTRICAL SCHEDULES	E601
16	LEVEL 01 EMERGENCY LIGHTING PHOTOMETRIC CALCULATION	E810-EP
17	SITE LIGHTING PHOTOMETRIC PLAN	E910
18		
19		
20		
21		
22	***	