

1 **TABLE OF CONTENTS TECHNICAL SPECIFICATIONS (10/2022)**
 2 **VOLUME 2 of 4**

3
 4 Division Project No. **21H10**

Pages Thru

5
 6 **TITLE PAGE**

1

7 **TABLE OF CONTENTS**

TC-6

8
 9 VOLUME 2

10
 11 **DIVISION 02 – EXISTING CONDITIONS**

12	Section	Title	
13	02 05 00	Common Work Results for Existing Conditions	02 05 00-4
14	02 41 13	Demolition	02 41 13-4

15
 16 **DIVISION 03 - CONCRETE**

17	Section	Title	
18	03 30 00	Cast-In-Place Concrete	03 30 00-15

19
 20 **DIVISION 04 - MASONRY**

21	Section	Title	
22	04 20 00	Unit Masonry	04 20 00-8

23
 24 **DIVISION 05 - METALS**

25	Section	Title	
26	05 50 00	Metal Fabrications	05 50 00-7

27
 28 **DIVISION 06 – WOOD, PLASTICS AND COMPOSITES**

29	Section	Title	
30	06 10 00	Rough Carpentry	06 10 00-4
31	06 20 23	Interior Finish Carpentry	06 20 23-4
32	06 41 16	Plastic Laminate-Clad Architectural Cabinets	06 41 16-6

33
 34 **DIVISION 07 - THERMAL AND MOISTURE PROTECTION**

35	Section	Title	
36	07 84 00	Fire Stopping	07 84 00-8
37	07 92 00	Joint Sealants	07 92 00-6

38
 39 **DIVISION 08 - OPENINGS**

40	Section	Title	
41	08 11 13	Hollow Metal Doors and Frames	08 11 13-6
42	08 14 16	Flush Wood Doors	08 14 16-5
43	08 31 13	Access Doors and Frames	08 31 13-4
44	08 56 69	Bullet Resistant Accessories	08 56 69-4
45	08 71 00	Door Hardware	08 71 00-15
46	08 80 00	Glazing	08 80 00-6

47
 48 **DIVISION 09 - FINISHES**

49	Section	Title	
50	09 22 16	Non-Structural Metal Framing	09 22 16-6
51	09 29 00	Gypsum Board	09 29 00-6
52	09 30 00	Tiling	09 30 00-6
53	09 51 13	Acoustic Panel Ceilings	09 51 13-5
54	09 65 13	Resilient Base and Accessories	09 65 13-4
55	09 65 19	Resilient Tile Flooring	09 65 19-4
56	09 68 13	Tile Carpeting	09 68 13-4
57	09 91 23	Painting	09 91 23-7

1	09 93 00	Staining and Transparent Finishing	09 93 00-5
2			
3	DIVISION 10 - SPECIALTIES		
4	Section	Title	
5	10 22 13	Wire Mesh Partitions	10 22 13-4
6	10 26 41	Bullet Resistant Fiberglass Panels	10 26 41-2
7	10 28 00	Toilet, Bath and Laundry Accessories	10 28 00-4
8			
9	DIVISION 11 - EQUIPMENT		
10	Section	Title	
11	11 31 00	Residential Appliances	11 31 00-2
12			
13	DIVISION 12 - FURNISHINGS		
14	Section	Title	
15	12 36 62	Solid Surface Fabrications	12 36 62-6
16			
17	VOLUME 3		
18			
19	DIVISION 22 - PLUMBING		
20	Section	Title	
21	22 05 00	Common Work Results for Plumbing	22 05 00-8
22	22 05 14	Plumbing Specialties	22 05 14-4
23	22 05 15	Piping Specialties	22 05 15-3
24	22 05 23	General Duty Valves for Plumbing Piping	22 05 23-4
25	22 05 29	Hangers and Supports for Plumbing Piping and Equipment	22 05 29-4
26	22 07 00	Plumbing Insulation	22 07 00-6
27	22 08 00	Commissioning of Plumbing	22 08 00-45
28	22 11 00	Facility Water Distribution	22 11 00-7
29	22 13 00	Facility Sanitary Sewerage	22 13 00-5
30	22 14 00	Facility Storm Drainage	22 14 00-5
31	22 30 00	Plumbing Equipment	22 30 00-3
32	22 42 00	Commercial Plumbing Fixtures	22 42 00-4
33			
34	DIVISION 23 - HEATING, VENTILATING AND AIR CONDITIONING		
35	Section	Title	
36	23 05 00	Common Work Results for HVAC	23 05 00-7
37	23 05 13	Common Motor Requirements for HVAC Equipment	23 05 13-3
38	23 05 15	Piping Specialties	23 05 15-6
39	23 05 23	General Duty Valves for HVAC	23 05 23-9
40	23 05 29	Hangers and Supports for HVAC Piping and Equipment	23 05 29-5
41	23 05 48	Vibration and Seismic Controls for HVAC Piping and Equipment	23 05 48-5
42	23 05 93	Testing, Adjusting and Balancing for HVAC	23 05 93-5
43	23 07 00	HVAC Insulation	23 07 00-11
44	23 08 00	Commissioning of HVAC	23 08 00-106
45	23 09 14	Pneumatic and Electric Controls	23 09 14-17
46	23 09 15	Direct Digital Control Input/Output Point Summary Tables	23 09 15-5
47	23 09 24	Direct Digital Control System for HVAC (Information Purposes Only)	23 09 24-14
48	23 09 93	Sequence of Operation for HVAC Controls	23 09 93-13
49	23 21 13	Hydronic Piping	23 21 13-11
50	23 22 13	Steam and Condensate Heating Piping	23 22 13-7
51	23 31 00	HVAC Ducts and Casings	23 31 00-8
52	23 33 00	Air Duct Accessories	23 33 00-5
53	23 34 00	HVAC Fans	23 34 00-3
54	23 37 13	Diffusers, Registers and Grilles	23 37 13-3
55	23 41 00	Particulate Air Filtration	23 41 00-3
56	23 62 13	Packaged Air-Cooled Refrigerant Compressor and Condensing Units	23 62 13-4
57	23 73 12	Air Handling Unit Coils	23 73 12-3

1	23 73 13	Modular Indoor Central-Station Air-Handling Units	23 73 13-6
2	23 81 26	Split-System Ductless Air Conditioners	23 81 26-5
3	23 82 00	Heating and Cooling Terminal Units	23 82 00-3
4			
5	VOLUME 4		
6			
7	DIVISION 26 - ELECTRICAL		
8	Section	Title	
9	26 05 00	Common Work Results for Electrical	26 05 00-7
10	26 05 02	Electrical Demolition for Remodeling	26 05 02-3
11	26 05 04	Cleaning, Inspection and Testing of Electrical Equipment	26 05 04-4
12	26 05 13	Medium-Voltage Cables	26 05 13-6
13	26 05 19	Low-Voltage Electrical Power Conductors and Cables	26 05 19-6
14	26 05 23	Control-Voltage Electrical Power Cables	26 05 23-3
15	26 05 26	Grounding and Bonding for Electrical Systems	26 05 26-6
16	26 05 29	Hangers and Supports for Electrical Systems	26 05 29-3
17	26 05 33	Raceway and Boxes for Electrical Systems	26 05 33-11
18	26 05 43	Underground Ducts and Raceways for Electrical Systems	26 05 43-4
19	26 05 53	Identification for Electrical Systems	26 05 53-3
20	26 05 73	Short Circuit/Coordination Study and Arc Flash Risk Assessment	26 05 73-5
21	26 08 00	Commissioning of Electrical	26 08 00-66
22	26 12 19	Medium-Voltage Transformers, Liquid Filled, Pad-Mounted (Outdoor)	26 12 19-5
23	26 13 02	Medium-Voltage Pad Mounted Switchgear	26 13 02-6
24	26 18 23	Medium-Voltage Surge Arresters	26 18 23-2
25	26 24 16	Panelboards	26 24 16-5
26	26 27 02	Equipment Wiring Systems	26 27 02-4
27	26 27 13	Electricity Metering	26 27 13-3
28	26 27 26	Wiring Devices	26 27 26-7
29	26 27 28	Disconnect Switches	26 27 28-2
30	26 29 00	Low-Voltage Controllers	26 29 00-3
31	26 32 13.13	Engine-Driven Generator Sets – Diesel	26 32 13.13-7
32	26 36 00	Transfer Switches	26 36 00-5
33	26 43 13	Surge Protective Devices for Low-Voltage Electrical Power Circuits	26 43 13-3
34	26 51 13	Interior Lighting Fixtures, Lamps, and Ballasts	26 51 13-7
35			
36	DIVISION 27 - COMMUNICATIONS		
37	Section	Title	
38	27 05 53	Identification for Communication Systems	27 05 53-7
39	27 08 00	Commissioning of Communications	27 08 00-20
40	27 10 00	Structured Cabling	27 10 00-21
41	27 11 00	Communications Room Equipment Fittings	27 11 00-5
42	27 16 19	Communications Patch Cords, Station Cords and Cross-Connect Wire	27 16 19-3
43			
44	DIVISION 28 – ELECTRONIC SAFETY AND SECURITY		
45	Section	Title	
46	28 08 00	Commissioning of Electronic Safety and Security	28 08 00-16
47	28 31 00	Fire Detection and Alarm	28 31 00-33
48	DIVISION 30 – COMMON WORK RESULTS FOR ALL EXTERIOR WORK		
49	Section	Title	
50	30 05 00	Common Work Results for Exterior Work	30 05 00-4
51			
52	DIVISION 31 - EARTHWORK		
53	Section	Title	
54	31 23 16.13	Trenching	31 23 16.13-7
55	31 25 00	Erosion Control	31 25 00-5
56			
57			

1 **DIVISION 32 – EXTERIOR IMPROVEMENTS**

2	Section	Title	
3	32 11 23.33	Dense Graded Base	32 11 23.33-3
4	32 12 16.13	Plant Mix Asphalt Paving	32 12 16.13-2
5	32 31 13	Chain Link Fencing and Gates	32 31 13-7
6	32 91 13	Soil Preparation	32 91 13-3
7	32 92 23	Sodding	32 92 23-3

8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57

1	DRAWINGS - Bound Separately	Sheets Thru
2	Title	
3		
4	GENERAL	
5	TITLE SHEET	T100
6		
7	ARCHITECTURAL	
8	CODE CONFORMANCE	A000
9	OVERALL SITE PLAN	A010
10	BASEMENT DEMO PLAN	A101
11	FIRST FLOOR DEMO PLAN	A102
12	SECOND FLOOR DEMO PLAN	A103
13	BASEMENT PLAN	A201
14	FIRST FLOOR PLAN	A202
15	SECOND FLOOR PLAN	A203
16	BASEMENT REFLECTED CEILING PLAN	A301
17	FIRST FLOOR REFLECTED CEILING PLAN	A302
18	SECOND FLOOR REFLECTED CEILING PLAN	A303
19	ENLARGED PLANS & ELEVATIONS	A400
20	DOOR SCHEDULE & PARTITION TYPES	A500
21	INTERIOR DETAILS	A501
22	INTERIOR DETAILS	A502
23	FINISH PLANS & SCHEDULE	A600
24		
25	PLUMBING	
26	PLUMBING COVERSHEET	P000
27	UNDERFLOOR DEMOLITION – PLUMBING	P100
28	BASEMENT DEMOLITION – PLUMBING	P101
29	FIRST FLOOR DEMOLITION – PLUMBING	P102
30	UNDERFLOOR – PLUMBING	P200
31	BASEMENT FLOOR – PLUMBING	P201
32	FIRST FLOOR – PLUMBING	P202
33	PLUMBING ENLARGED PLANS	P300
34	PLUMBING DETAILS	P400
35	PLUMBING ISOMETRIC	P500
36	PLUMBING ISOMETRIC	P501
37		
38	HEATING, VENTILATING AND AIR CONDITIONING	
39	MECHANICAL COVERSHEET	M000
40	BASEMENT DEMOLITION – PIPING	M101
41	FIRST FLOOR DEMOLITION – PIPING	M102
42	SECOND FLOOR DEMOLITION – PIPING	M103
43	BASEMENT DEMOLITION – VENTILATION	M111
44	FIRST FLOOR DEMOLITION – VENTILATION	M112
45	SECOND FLOOR DEMOLITION – VENTILATION	M113
46	BASEMENT – PIPING	M201
47	FIRST FLOOR – PIPING	M202
48	SECOND FLOOR – PIPING	M203
49	BASEMENT – VENTILATION	M211
50	FIRST FLOOR – VENTILATION	M212
51	SECOND FLOOR – VENTILATION	M213
52	MECHANICAL ENLARGED PLANS	M300
53	MECHANICAL DETAILS	M400
54	MECHANICAL SCHEDULES	M600
55		
56		
57		

1	ELECTRICAL	
2	ELECTRICAL COVERSHEET	E000
3	ELECTRICAL SITE PLAN	E010
4	BASEMENT DEMOLITION – LIGHTING	E101
5	FIRST FLOOR DEMOLITION – LIGHTING	E102
6	SECOND FLOOR DEMOLITION – LIGHTING	E103
7	BASEMENT DEMOLITION – POWER	E111
8	FIRST FLOOR DEMOLITION – POWER	E112
9	SECOND FLOOR DEMOLITION – POWER	E113
10	BASEMENT DEMOLITION – FIRE ALARM	E121
11	FIRST FLOOR DEMOLITION – FIRE ALARM	E122
12	SECOND FLOOR DEMOLITION – FIRE ALARM	E123
13	BASEMENT – LIGHTING	E201
14	FIRST FLOOR – LIGHTING	E202
15	SECOND FLOOR – LIGHTING	E203
16	BASEMENT – POWER	E211
17	FIRST FLOOR – POWER	E212
18	SECOND FLOOR – POWER	E213
19	BASEMENT – FIRE ALARM	E221
20	FIRST FLOOR – FIRE ALARM	E222
21	SECOND FLOOR – FIRE ALARM	E223
22	ELECTRICAL DIAGRAMS	E500
23	ELECTRICAL DIAGRAMS	E501
24	ELECTRICAL SCHEDULES	E600
25	ELECTRICAL SCHEDULES	E601
26		
27	TECHNOLOGY	
28	COMMUNICATIONS & SECURITY COVER SHEET	Q000
29	BASEMENT DEMOLITION – COMMUNICATIONS & SECURITY	Q121
30	FIRST FLOOR DEMOLITION – COMMUNICATIONS & SECURITY	Q122
31	SECOND FLOOR DEMOLITION – COMMUNICATIONS & SECURITY	Q123
32	BASEMENT – COMMUNICATIONS & SECURITY	Q221
33	FIRST FLOOR – COMMUNICATIONS & SECURITY	Q222
34	SECOND FLOOR – COMMUNICATIONS & SECURITY	Q223
35	COMMUNICATIONS & SECURITY ENLARGEMENTS	Q320
36	COMMUNICATIONS & SECURITY DETAILS	Q420
37	COMMUNICATIONS & SECURITY DETAILS	Q421
38	COMMUNICATIONS & SECURITY DETAILS	Q422
39	COMMUNICATIONS & SECURITY SCHEDULES	Q520
40		
41		
42		
43	***	