

1 **TABLE OF CONTENTS TECHNICAL SPECIFICATIONS (10/2022)**

2 **VOLUME 2 of 4**

3
4 Division Project No. **20B2I**

Pages Thru

5
6 **TITLE PAGE**

1

7 **TABLE OF CONTENTS**

TC-6

8
9 **VOLUME 2 – DIVISIONS 02-13**

10
11 **DIVISION 02 – EXISTING CONDITIONS**

Section	Title	
12 02 05 00	Common Work Results for Existing Conditions	02 05 00-4
13 02 41 13	Demolition	02 41 13-5

14
15
16 **DIVISION 03 - CONCRETE**

Section	Title	
17 03 30 00	Cast-In-Place Concrete	03 30 00-13
18 03 35 43	Polished Concrete Finishing	03 35 43-4

19
20
21 **DIVISION 04 - MASONRY**

Section	Title	
22 04 08 00	Commissioning of Masonry	04 08 00-7
23 04 20 00	Unit Masonry	04 20 00-14

24
25
26 **DIVISION 05 - METALS**

Section	Title	
27 05 50 00	Metal Fabrications	05 50 00-4

28
29
30 **DIVISION 06 – WOOD, PLASTICS AND COMPOSITES**

Section	Title	
31 06 10 00	Rough Carpentry	06 10 00-4
32 06 10 53.01	Miscellaneous Rough Carpentry – Roofing	06 10 53.01-2
33 06 41 00	Architectrual Woodwork	06 41 00-8

34
35
36 **DIVISION 07 - THERMAL AND MOISTURE PROTECTION**

Section	Title	
37 07 08 00	Commissioning of Thermal and Moisture Protection	07 08 00-14
38 07 10 16	Waterproofing for Utilities	07 10 16-5
39 07 53 23	Ethylene-Propylene-Diene-Monomer Roofing	07 53 23-17
40 07 63 00	Sheet Metal Roofing Specialties	07 63 00-6
41 07 84 00	Fire Stopping	07 84 00-9

42
43
44 **DIVISION 08 - OPENINGS**

Section	Title	
45 08 08 00	Commissioning of Exterior Building Envelope	08 08 00-6
46 08 11 13	Hollow Metal Doors and Frames	08 11 13-6
47 08 33 13	Coiling Counter Doors	08 33 13-3
48 08 33 23	Overhead Coiling Doors	08 33 23-5
49 08 36 13	Sectional Doors	08 36 13-4
50 08 44 13	Glazed Aluminum Curtain Walls	08 44 13-7
51 08 71 00	Door Hardware	08 71 00-18
52 08 80 00	Glazing	08 80 00-5

53
54
55 **DIVISION 09 - FINISHES**

Section	Title	
56 09 05 61	Common Work Results for Flooring Preparation	09 05 61-4

1	09 06 01	Interior Finish Schedule	09 06 01-3
2	09 21 16	Gypsum Board Assemblies	09 21 16-9
3	09 30 00	Tilig	09 30 00-7
4	09 51 00	Suspended Acoustical Ceilings	09 51 00-5
5	09 65 00	Resilient Flooring	09 65 00-3
6	09 67 00	Fluid-Applied Flooring	09 67 00-4
7	09 68 13	Tile Carpeting	09 68 13-3
8	09 90 00	Paints and Coatings	09 90 00-7
9	09 91 16	Painting for Utilities	09 91 16-4
10			
11	DIVISION 10 - SPECIALTIES		
12	Section	Title	
13	10 21 13.19	Plastic Toilet Compartments	10 21 13.19-3
14	10 22 13	Wire Mesh Partition Fences and Gates	10 22 13-2
15	10 28 00	Toilet and Bath Accessories	10 28 00-4
16	10 51 43	Wire Mesh Lockers	10 51 43-2
17			
18	DIVISION 12 - FURNISHINGS		
19	Section	Title	
20	12 48 13	Entrance Floor Mats	12 48 13-2
21			
22	DIVISION 13 – SPECIAL CONSTRUCTION		
23	Section	Title	
24	13 44 00	Modular Mezzanines	13 44 00-3
25			
26	<u>VOLUME 3 – DIVISIONS 21, 22, AND 23</u>		
27			
28	DIVISION 21 – FIRE SUPPRESSION		
29	Section	Title	
30	21 05 00	Common Work Results for Fire Protection	21 05 00-7
31	21 05 29	Hangers and Supports for Fire Protection Piping and Equipment	21 05 29-4
32	21 08 00	Commissioning of Fire Protection	21 08 00-8
33	21 10 00	Water-Based Fire Protection Systems	21 10 00-9
34			
35	DIVISION 22 - PLUMBING		
36	Section	Title	
37	22 05 00	Common Work Results for Plumbing	22 05 00-8
38	22 05 13	Common Motor Requirements for Plumbing	22 05 13-2
39	22 05 14	Plumbing Specialties	22 05 14-3
40	22 05 15	Piping Specialties	22 05 15-3
41	22 05 23	General Duty Valves for Plumbing Piping	22 05 23-5
42	22 05 29	Hangers and Supports for Plumbing Piping and Equipment	22 05 29-4
43	22 07 00	Plumbing Insulation	22 07 00-5
44	22 08 00	Commissioning of Plumbing	22 08 00-38
45	22 11 00	Facility Water Distribution	22 11 00-8
46	22 13 00	Facility Sanitary Sewerage	22 13 00-5
47	22 15 13	General Service Compressed Air Piping	22 15 13-4
48	22 30 00	Plumbing Equipment	22 30 00-3
49	22 42 00	Commercial Plumbing Fixtures	22 42 00-4
50			
51	DIVISION 23 - HEATING, VENTILATING AND AIR CONDITIONING		
52	Section	Title	
53	23 05 00	Common Work Results for HVAC	23 05 00-7
54	23 05 13	Common Motor Requirements for HVAC Equipment	23 05 13-3
55	23 05 14	Variable Frequency Drives	23 05 14-6
56	23 05 15	Piping Specialties	23 05 15-6
57	23 05 23	General Duty Valves for HVAC	23 05 23-7

1	23 05 29	Hangers and Supports for HVAC Piping and Equipment	23 05 29-6
2	23 05 48	Vibration and Seismic Controls for HVAC Piping and Equipment	23 05 48-5
3	23 05 93	Testing, Adjusting and Balancing for HVAC	23 05 93-6
4	23 07 00	HVAC Insulation	23 07 00-11
5	23 08 00	Commissioning of HVAC	23 08 00-108
6	23 09 14	Pneumatic and Electric Controls	23 09 14-20
7	23 09 15	Direct Digital Control Input/Output Point Summary Tables	23 09 15-9
8	23 09 23	Direct Digital Control System for HVAC	23 09 23-14
9	23 09 93	Sequence of Operation for HVAC Controls	23 09 93-27
10	23 21 13	Hydronic Piping	23 21 13-10
11	23 21 23	Hydronic Pumps	23 21 23-3
12	23 22 13	Steam and Condensate Heating Piping	23 22 13-8
13	23 23 00	Refrigerant Piping	23 23 00-3
14	23 31 00	HVAC Ducts and Casings	23 31 00-9
15	23 33 00	Air Duct Accessories	23 33 00-7
16	23 34 00	HVAC Fans	23 34 00-4
17	23 35 14	Dist Collection Systems	23 35 14-8
18	23 36 00	Air Terminal Units	23 36 00-4
19	23 37 13	Diffusers, Registers and Grilles	23 37 13-3
20	23 41 00	Particulate Air Filtration	23 41 00-3
21	23 62 13	Packaged Air-Cooled Refrigerant Compressor and Condensing Units	23 62 13-4
22	23 73 12	Air Handling Unit Coils	23 73 12-3
23	23 73 13	Modular Indoor Central-Station Air-Handling Units	23 73 13-6
24	23 82 00	Heating and Cooling Terminal Units	23 82 00-3

VOLUME 4 - DIVISIONS 26, 27, 28, 30, 31, 32, 33, AND 34

DIVISION 26 - ELECTRICAL

29	Section	Title	
30	26 05 00	Common Work Results for Electrical	26 05 00-7
31	26 05 02	Electrical Demolition for Remodeling	26 05 02-3
32	26 05 04	Cleaning, Inspection and Testing of Electrical Equipment	26 05 04-2
33	26 05 19	Low-Voltage Electrical Power Conductors and Cables	26 05 19-4
34	26 05 23	Control-Voltage Electrical Power Cables	26 05 23-3
35	26 05 26	Grounding and Bonding for Electrical Systems	26 05 26-3
36	26 05 29	Hangers and Supports for Electrical Systems	26 05 29-3
37	26 05 33	Raceway and Boxes for Electrical Systems	26 05 33-9
38	26 05 53	Identification for Electrical Systems	26 05 53-3
39	26 08 00	Commissioning of Electrical	26 08 00-28
40	26 25 00	Busway	26 05 00-2
41	26 27 02	Equipment Wiring Systems	26 27 02-3
42	26 27 26	Wiring Devices	26 27 26-6
43	26 51 13	Interior Lighting Fixtures, Lamps, And Ballasts	26 51 13-6

DIVISION 27 - COMMUNICATIONS

46	Section	Title	
47	27 05 53	Identification for Communication Systems	27 05 53-4
48	27 08 00	Commissioning of Communications	27 08 00-14
49	27 10 00	Structured Cabling	27 10 00-16
50	27 16 19	Communications Patch Cords, Station Cords and Cross-Connect Wire	27 16 19-2

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

53	Section	Title	
54	28 31 00	Fire Detection and Alarm	28 31 00-18

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 00-4
4			
5	DIVISION 31 - EARTHWORK		
6	Section	Title	
7	31 10 00	Site Clearing	31 10 00-2
8	31 13 00	Selective Tree and Shrub Removal and Transplanting	31 13 00-2
9	31 13 16	Selective Tree and Shrub Protection and Trimming	31 13 16-7
10	31 20 00	Earthmoving	31 20 00-5
11	31 23 16.13	Trenching	31 23 16.13-8
12	31 25 00	Erosion Control	31 25 00-4
13			
14	DIVISION 32 – EXTERIOR IMPROVEMENTS		
15	Section	Title	
16	32 11 23.33	Dense Graded Base	32 11 23.33-3
17	32 13 13	Exterior Concrete Pavement	32 13 13-8
18	32 31 13	Chain Link Fencing and Gates	32 31 13-5
19	32 91 13	Soil Preparation	32 91 13-3
20			
21	DIVISION 33 - UTILITIES		
22	Section	Title	
23	33 11 00	Water Utility Distribution Piping	33 11 00-9
24			
25	DIVISION 34 - TRAFFIC		
26	Section	Title	
27	34 71 00	Motorized Traffic Bike and Pedestrian Control	34 71 10-1
28			
29			
30			
31			

1	DRAWINGS - Bound Separately	
2	Title	Sheets Thru
3	Title Sheet	T001
4		
5	<u>Architectural</u>	
6	First Level – Code Plan, Code Summary, and Symbol Legend	A101
7	Phasing	A110
8	Symbols, Legends, General Notes, Keynotes and Abbreviations	A150
9	First Level – Demolition Plan	A411
10	First Level – Floor Plan	A421
11	Second Level – Demolition Plan	A422
12	First Level – Finish Plan	A431
13	First Level – Reflected Ceiling Plan	A441
14	Roof Plan	A500
15	Opening Schedule, and Opening Schedule Rated Glazing Designations	A520
16	Partition Types and Mounting Heights	A600
17	1/4 Inch Plans, Interior Elevations, Sections, and Exterior Elevations	A601
18	Interior Elevations and Details	A602
19		
20	<u>Civil</u>	
21	General Notes	C000
22	Civil Symbols and Abbreviations	C001
23	Utility And Erosion Control Plan	C200
24	Details	C300
25		
26	<u>Structural</u>	
27	General Notes	S000
28	Symbols and Abbreviations	S001
29	Foundation Plan	S200
30	Mezzanine Framing Plan	S201
31	Second Floor Framing Plan	S202
32	Framing Details	S400
33		
34	<u>Fire Suppression</u>	
35	Fire Protection Coversheet	F000
36	First Floor - Fire Protection	F101
37	Second Floor - Fire Protection	F102
38	Fire Protection Details	F400
39		
40	<u>Plumbing</u>	
41	Plumbing Coversheet	P000
42	Plumbing Water Calculations	P001
43	Under Floor Demolition - Plumbing	P100
44	First Floor Demolition - Plumbing	P101
45	Second Floor Demolition - Plumbing	P102
46	Underfloor - Plumbing	P200
47	First Floor - Plumbing	P201
48	Second Floor - Plumbing	P202
49	Plumbing Details	P300
50	Plumbing Details	P301
51	Plumbing Risers	P400
52	Plumbing Risers	P401
53	Plumbing Risers	P402
54	Plumbing Risers	P403
55	Plumbing Risers	P404
56	Plumbing Risers	P405
57	Plumbing Material Lists	P600

1		
2	<u>Heating, Ventilating and Air Conditioning</u>	
3	Mechanical Coversheet	M000
4	First Floor Demolition – Campus Equipment	M001
5	First Floor – Campus Equipment	M002
6	First Floor Demolition - Piping	M110
7	Second Floor Demolition - Piping	M111
8	First Floor Demolition - Ventilation	M120
9	Second Floor Demolition - Ventilation	M121
10	Roof Demolition - Ventilation	M122
11	First Floor - Piping	M210
12	Second Floor - Piping	M211
13	First Floor - Ventilation	M220
14	Second Floor - Ventilation	M221
15	Roof - Ventilation	M222
16	Mechanical Enlarged Plans	M300
17	Mechanical Enlarged Plans	M301
18	Mechanical Sections	M310
19	Mechanical Details	M400
20	Mechanical Details	M401
21	Mechanical Details	M402
22	Mechanical Details	M403
23	Mechanical Schedules	M600
24	Mechanical Schedules	M601
25		
26	<u>Electrical</u>	
27	Electrical Coversheet	E000
28	First Floor Demolition - Lighting	EL101
29	First Floor Lighting	EL201
30	First Floor Demolition - Power	EP101
31	Second Floor Demolition - Power	EP102
32	First Floor - Power	EP201
33	Second Floor - Power	EP202
34	Roof - Power	EP203
35	First Floor Demolition – Systems	ES101
36	First Floor - Systems	ES201
37	Second Floor - Systems	ES202
38	Electrical Schedules	E600
39		
40	<u>Communications and Security</u>	
41	Communication and Security Cover Sheet	Q000
42	First Floor Demolition – Communications and Security	Q101
43	Second Floor Demolition – Communications and Security	Q102
44	First Floor – Communications and Security	Q201
45	Second Floor – Communications and Security	Q202
46	Communications and Security Enlargements	Q300
47	Schedules – Communications and Security	Q400
48		
49		
50		
51	***	