

1 **TABLE OF CONTENTS TECHNICAL SPECIFICATIONS (10/2022)**
 2 **VOLUME 2 of 3**

3
 4 Division Project No. **21H1C**

Pages Thru
 1
 TC-6

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

8
 9 **VOLUME 2**

10
 11 **DIVISION 02 – EXISTING CONDITIONS**

Section	Title	
12		
13	02 05 00	Common Work Results for Existing Conditions 02 05 00-5
14	02 32 00	Geo Technical Investigation 02 32 00-1
15		Subsurface Exploration and Foundation Evaluation 32
16	02 41 13	Demolition 02 41 13-5

17
 18 **DIVISION 03 - CONCRETE**

Section	Title	
19		
20	03 08 00	Commissioning of Concrete 03 08 00-10
21	03 30 00	Cast-In-Place Concrete 03 30 00-23
22	03 41 13	Precast Concrete Hollow Core Planks 03 41 13-4

23
 24 **DIVISION 04 - MASONRY**

Section	Title	
25		
26	04 08 00	Commissioning of Masonry 04 08 00-7
27	04 20 00	Unit Masonry 04 20 00-14

28
 29 **DIVISION 05 - METALS**

Section	Title	
30		
31	05 12 00	Structural Steel Framing 05 12 00-3
32	05 50 00	Metal Fabrications 05 50 00-3
33	05 51 33	Metal Ladders 05 51 33-4
34	05 51 33.13	Safety Gate 05 51 33.13-4
35	05 52 13	Pipe and Tube Railings 05 52 13-9

36
 37 **DIVISION 06 – WOOD, PLASTICS AND COMPOSITES**

Section	Title	
38		
39	06 10 00	Rough Carpentry 06 10 00-4
40	06 10 53.01	Miscellaneous Rough Carpentry – Roofing 06 10 53.01-2
41	06 17 53	Shop-Fabricated Wood Trusses 06 17 53-3
42	06 20 00	Finish Carpentry 06 20 00-5

43
 44 **DIVISION 07 - THERMAL AND MOISTURE PROTECTION**

Section	Title	
45		
46	07 08 00	Commissioning of Thermal and Moisture Protection 07 08 00-9
47	07 21 12	Insulation 07 21 12-5
48	07 21 19	Foamed-in-Place Masonry Wall Insulation 07 21 19-2
49	07 25 00	Weather Barriers 07 25 00-6
50	07 26 16	Below-Grade Vapor Retarder 07 26 16-2
51	07 31 13	Asphalt Shingles 07 31 13-15
52	07 42 93	Soffit and Fascia Panels 07 42 93-2
53	07 46 26	Prefinished Composite Siding 07 46 26-3
54	07 63 00	Sheet Metal Roofing Specialties 07 63 00-8
55		State of Wisconsin -Roofing System 5-yr Guarantee 2
56	07 84 00	Fire Stopping 07 84 00-9
57	07 92 00	Joint Sealants 07 92 00-6

1	DIVISION 08 - OPENINGS		
2	Section	Title	
3	08 08 00	Commissioning of Exterior Building Envelope	08 08 00-5
4	08 11 13	Hollow Metal Doors and Frames	08 11 13-3
5	08 14 16	Flush Wood Doors	08 14 16-3
6	08 31 13	Access Doors and Frames	08 31 13-2
7	08 36 15	Overhead Sectional Doors	08 36 15-4
8	08 41 13	Aluminum-Framed Storefront	08 41 13-2
9	08 52 15	Aluminum-Clad Wood Windows	08 52 15-5
10	08 71 00	Door Hardware	08 71 00-8
11	08 80 00	Glazing	08 80 00-5
12	08 91 00	Louvers	08 91 00-3
13			
14	DIVISION 09 - FINISHES		
15	Section	Title	
16	09 29 00	Gypsum Board	09 29 00-5
17	09 51 13	Acoustical Panel Ceilings	09 51 13-3
18	09 65 00	Resilient Flooring	09 65 00-4
19	09 67 23	Resinous Flooring	09 67 23-6
20	09 68 00	Carpeting	09 68 00-4
21	09 72 16	Advanced Wall Protection	09 72 16-4
22	09 90 00	Painting and Coating	09 90 00-9
23	09 91 23	Interior Painting	09 91 23-4
24			
25	DIVISION 10 - SPECIALTIES		
26	Section	Title	
27	10 11 00	Visual Display Boards	10 11 00-3
28	10 14 00	Signage	10 14 00-3
29	10 14 53	Traffic Signage	10 14 53-1
30	10 22 13	Wire Mesh Partitions	10 22 13-2
31	10 22 26	Operable Panel Partitions	10 22 26-3
32	10 26 16	Corner Guards	10 26 16-2
33	10 28 00	Toilet, Bath, and Laundry Accessories	10 28 00-4
34	10 44 00	Fire Protection Specialties	10 44 00-2
35	10 75 00	Flagpole	10 75 00-3
36			
37	DIVISION 12 - FURNISHINGS		
38	Section	Title	
39	12 20 00	Manual Solar Shades	12 20 00-3
40	12 32 16	Plastic Laminate Casework	12 32 16-4
41	12 36 61.16	Solid Surface Countertops	12 36 61.16-4
42			
43	DIVISION 22 - PLUMBING		
44	Section	Title	
45	22 05 00	Common Work Results for Plumbing	22 05 00-9
46	22 05 14	Plumbing Specialties	22 05 14-6
47	22 05 15	Piping Specialties	22 05 15-3
48	22 05 23	General Duty Valves for Plumbing Piping	22 05 23-4
49	22 05 29	Hangers and Supports for Plumbing Piping and Equipment	22 05 29-5
50	22 07 00	Plumbing Insulation	22 07 00-7
51	22 08 00	Commissioning of Plumbing	22 08 00-59
52	22 10 13	Facility Fuel Piping	22 10 13-6
53	22 11 00	Facility Water Distribution	22 11 00-8
54	22 13 00	Facility Sanitary Sewerage	22 13 00-6
55	22 15 13	General Service Compressed-Air Piping	22 15 13-5
56	22 30 00	Plumbing Equipment	22 30 00-4
57	22 42 00	Commercial Plumbing Fixtures	22 42 00-5
58			

1 **VOLUME 3**

2
3 **DIVISION 23 - HEATING, VENTILATING AND AIR CONDITIONING**

4 Section	Title	
5 23 05 00	Common Work Results for HVAC	23 05 00-6
6 23 05 13	Common Motor Requirements for HVAC Equipment	23 05 13-2
7 23 05 29	Hangers and Supports for HVAC Piping and Equipment	23 05 29-4
8 23 05 48	Vibration and Seismic Controls for HVAC Piping and Equipment	23 05 48-3
9 23 05 93	Testing, Adjusting, and Balancing for HVAC	23 05 93-5
10 23 07 00	HVAC Insulation	23 07 00-7
11 23 08 00	Commissioning of HVAC	23 08 00-71
12 23 09 14	Pneumatic and Electric Controls	23 09 14-8
13 23 09 93	Sequence of Operation for HVAC Controls	23 09 93-4
14 23 23 00	Refrigerant Piping	23 23 00-3
15 23 31 00	HVAC Ducts and Casings	23 31 00-8
16 23 33 00	Air Duct Accessories	23 33 00-6
17 23 34 00	HVAC Fans	23 34 00-3
18 23 37 13	Diffusers, Registers & Grilles	23 37 13-3
19 23 41 00	Particulate Air Filtration	23 41 00-2
20 23 54 00	Gas Fired Furnaces	23 54 00-3
21 23 55 00	Fuel-Fired Heaters	23 55 00-3
22 23 62 13	Packaged Air-Cooled Refrigerant Compressor and Condensing Units	23 62 13-4
23 23 72 00	Air-to-Air Energy Recovery Equipment	23 72 00-3
24 23 82 00	Heating and Cooling Terminal Units	23 82 00-3

25
26 **DIVISION 26 - ELECTRICAL**

27 Section	Title	
28 26 05 00	Common Work Results for Electrical	26 05 00-7
29 26 05 02	Electrical Demolition for Remodeling	26 05 02-3
30 26 05 04	Cleaning, Inspection, and Testing of Electrical Equipment	26 05 04-2
31 26 05 19	Low Voltage Electrical Power Conductors and Cable	26 05 19-5
32 26 05 26	Grounding and Bonding for Electrical Systems	26 05 26-6
33 26 05 29	Hangers and Supports for Electrical Systems	26 05 29-4
34 26 05 33	Raceway and Boxes for Electrical Systems	26 05 33-10
35 26 05 53	Identification for Electrical Systems	26 05 53-3
36 26 08 00	Commissioning of Electrical	26 08 00-42
37 26 24 16	Panelboards	26 24 16-3
38 26 27 02	Equipment Wiring Systems	26 27 02-4
39 26 27 26	Wiring Devices	26 27 26-5
40 26 27 28	Disconnect Switches	26 27 28-2
41 26 43 13	Surge Protective Devices for Low-Voltage Electrical Power Circuits	26 43 13-3
42 26 51 13	Interior Lighting Fixtures, Lamps, and Ballasts	26 51 13-7
43 26 56 29	Site Lighting	26 56 29-5

44
45 **DIVISION 27 - COMMUNICATIONS**

46 Section	Title	
47 27 05 33.41	Raceway and Boxes for Audio-Visual Systems	27 05 33.41-5
48 27 05 53	Identification for Communication Systems	27 05 53-4
49 27 08 00	Commissioning of Communications	27 08 00-17
50 27 08 00.41	AV Systems Commissioning	27 08 00.41-11
51 27 10 00	Structured Cabling	27 10 00-20
52 27 11 00	Communications Room Equipment Fittings	27 11 00-6
53 27 41 00	Audio-Video Systems	27 41 00-15

54
55 **DIVISION 28 – ELECTRONIC SAFETY & SECURITY**

56 28 08 00	Commissioning of Electronic Safety and Security	28 08 00-2
57 28 10 00	Access Control System	28 10 00-10

58
59

1	DIVISION 31 - EARTHWORK		
2	Section	Title	
3	31 10 00	Site Clearing	31 10 00-2
4	31 20 00	Earthmoving	31 20 00-5
5	31 22 16.15	Roadway Subgrade Preparation	31 22 16.15-4
6	31 23 16.13	Trenching	31 23 16.13-9
7	31 23 16.16	Structural Excavation for Minor Structures	31 23 16.16-5
8	31 25 00	Erosion Control	31 25 00-5
9			
10	DIVISION 32 – EXTERIOR IMPROVEMENTS		
11	Section	Title	
12	32 11 23.33	Dense Graded Base	32 11 23.33-3
13	32 12 16.13	Plant Mix Asphalt Paving	32 12 16.13-2
14	32 16 13	Concrete Curb and Gutter	32 16 13-5
15	32 16 23	Concrete Sidewalks and Aprons	32 16 23-8
16	32 17 23	Pavement Markings	32 17 23-1
17	32 91 13	Soil Preparation	32 91 13-4
18	32 92 00	Plants	32 92 00-8
19	32 92 19	Seeding	32 92 19-6
20			
21	DIVISION 33 - UTILITIES		
22	Section	Title	
23	33 08 00	Commissioning of Utilities	33 08 00-30
24	33 11 00	Water Utility Distribution Piping	33 11 00-12
25	33 30 00	Sanitary Sewerage Utilities	33 30 00-6
26	33 40 00	Storm Drainage Utilities	33 40 00-11
27			
28	DRAWINGS – Bound Separately		
29	Title		Sheets Thru
30			
31	General		
32	Title Sheet		GI001
33	Drawing Conventions		GI002
34	Code Plan		GI003
35	Staging Plan		GI004
36			
37	Civil		
38	Existing Site Conditions		C100
39	Removal Plan		C101
40	Site Plan		C102
41	Grading Plan		C103
42	Erosion Control Plan		C104
43	Utility Plan		C105
44	Landscape Plan		C106
45	Storm Sewer Plan Profile		C107
46	Site Details		C108
47	Site Details		C109
48	Site Details		C110
49			
50			

1	Structural	
2	Foundation Plan - Overall	SB101
3	Foundation Plan - Unheated Vehicle Storage	SB102
4	Foundation Plan - Heated Vehicle Storage	SB103
5	Foundation Plan - Office	SB104
6	Framing Plan	SB105
7	Roof Framing Plan - Overall	SB106
8	Roof Framing Plan - Unheated Vehicle Storage	SB107
9	Roof Framing Plan - Heated Vehicle Storage	SB108
10	Roof Framing Plan - Office	SB109
11	Structural Details	SB501
12	Structural Details	SB502
13	Structural Details	SB503
14		
15	Architectural	
16	Assemblies	AE001
17	First Level Plan - Overall	AE101
18	First Level Plan - Unheated Vehicle Storage	AE102
19	First Level Plan - Heated Vehicle Storage	AE103
20	First Level Plan - Office	AE104
21	Reflected Ceiling Plan - Overall	AE105
22	Reflected Ceiling Plan - Office	AE106
23	Roof Plan	AE107
24	Exterior Perspective Views	AE201
25	Exterior Elevations	AE202
26	Interior Elevations	AE211
27	Building Sections	AE301
28	Wall Sections	AE311
29	Wall Sections	AE312
30	Enlarged Plans	AE401
31	Exterior Details	AE501
32	Exterior Details	AE502
33	Flashing Details	AE503
34	Roof Details	AE504
35	Interior Details	AE511
36	Door And Window Schedule, Hardware Groups, Door and Window Elevations	AE601
37	Door And Window Details	AE611
38	Door And Window Details	AE612
39		
40	Architectural Finishes	
41	Finish Schedules	AF101
42	Finish Plan - Floor	AF102
43	Finish Plan - Paint	AF103
44		
45	Equipment	
46	Furniture / Equipment Plan - Overall	EQ101
47	Furniture / Equipment Plan - Unheated Vehicle Storage	EQ102
48	Furniture / Equipment Plan - Heated Vehicle Storage	EQ103
49	Furniture / Equipment Plan - Office	EQ104
50		
51		

1	Plumbing	
2	Plumbing First Level Plan - Unheated Vehicle Storage - Below Floor	P101
3	Plumbing First Level Plan - Heated Vehicle Storage - Below Floor	P102
4	Plumbing First Level Plan - Office- Below Floor	P103
5	Plumbing First Level Plan - Unheated Vehicle Storage - Above Floor	P104
6	Plumbing First Level Plan - Heated Vehicle Storage - Above Floor	P105
7	Plumbing First Level Plan – Office - Above Floor	P106
8	Plumbing Waste	P201
9	Plumbing Waste and Vent Schematic - Office Area	P202
10	Plumbing Water Piping Schematic - Vehicle Storage	P203
11	Plumbing Water Piping Schematic - Office Area	P204
12	Plumbing Schedules	P301
13	Plumbing Details	P302
14		
15	Mechanical	
16	Mechanical General Info Sheet	M001
17	Mechanical Floor Plan and Section View- Office Area	M101
18	Mechanical Floor Plan- Heated Vehicle Storage	M102
19	Mechanical Floor Plan and Section Views- Upper Heated Vehicle Storage	M103
20	Mechanical Floor Plans- Unheated Vehicle Storage	M104
21	Mechanical Schedules	M301
22	Mechanical Details	M401
23		
24	Electrical	
25	Electrical Site Plan	E100
26	Electrical First Level Plan - Unheated Vehicle Storage	E101
27	Electrical First Level Plan - Heated Vehicle Storage	E102
28	Electrical First Level - Office	E103
29	Electrical Schedules and Details	E201
30		
31	Communications	
32	Communications Plan - Overall	Q101
33	Communications Plan - Office	Q102
34	Security Plan- Overall	Q103
35	Communications Details	Q501
36	Communications Details	Q502
37		
38		
39		
40	***	