

## VOLUME 2

### DIVISION 02 – EXISTING CONDITIONS

Section	Title	Pages Thru
02 05 00	Common Work Results for Existing Conditions	02 05 00-5
02 32 00	Geo-Technical Investigation	02 32 00-32
	Attached: Geo-Technical Investigation	
02 41 13	Demolition	02 41 13-5

### DIVISION 03 - CONCRETE

Section	Title	Pages Thru
03 01 00	Maintenance of Cast-In-Place Concrete	03 01 00-14
03 10 00	Concrete Forming and Accessories	03 10 00-8
03 20 00	Concrete Reinforcing	03 20 00-5
03 30 00	Cast-In-Place Concrete	03 30 00-26
03 40 00	Precast Structural Concrete	03 40 00-17

### DIVISION 04 - MASONRY

Section	Title	Pages Thru
04 20 00	Unit Masonry	04 20 00-16

### DIVISION 05 - METALS

Section	Title	Pages Thru
05 50 00	Metal Fabrications	05 50 00-11
05 53 00	Bar Gratings	05 53 00-4

### DIVISION 06 – WOOD, PLASTICS AND COMPOSITES

Section	Title	Pages Thru
06 10 00	Rough Carpentry	06 10 00-13
06 16 00	Sheathing	06 16 00-7
06 17 00	Shop-Fabricated Wood Trusses	06 17 00-8
06 20 00	Finish Carpentry	06 20 00-2

### DIVISION 07 - THERMAL AND MOISTURE PROTECTION

Section	Title	Pages Thru
07 20 00	Thermal Protection	07 20 00-2
07 31 13	Asphalt Shingles	07 31 13-21
07 62 00	Flashing and Sheet Metal	07 62 00-3
07 90 00	Joint Sealants	07 90 00-3

### DIVISION 08 - OPENINGS

Section	Title	Pages Thru
08 11 00	Metal Doors and Frames	08 11 00-3
08 70 00	Door Hardware	08 70 00-6
08 80 00	Glazing	08 80 00-3

### DIVISION 09 - FINISHES

Section	Title	Pages Thru
09 54 33	Laminated Glassboard Panels	09 54 33-3
09 98 00	High-Performance Coatings	09 98 00-10

### DIVISION 10 - SPECIALTIES

Section	Title	Pages Thru
10 44 13	Fire Extinguishers and Accessories	10 44 13-2

## DIVISION 26 - ELECTRICAL

Section	Title	Pages Thru
26 05 00	Common Work Results for Electrical	26 05 00-7
26 05 02	Electrical Demolition for Remodeling	26 05 02-3
26 05 04	Cleaning, Inspection and Testing of Electrical Equipment	26 05 04-3
26 05 13	Medium-Voltage Cables	26 05 13-6
26 05 14	Variable Frequency Drives	26 05 14-5
26 05 19	Low-Voltage Electrical Power Conductors and Cables	26 05 19-5
26 05 23	Control-Voltage Electrical Power Cables	26 05 23-3
26 05 26	Grounding and Bonding for Electrical Systems	26 05 26-5
26 05 29	Hangers and Supports for Electrical Systems	26 05 29-3
26 05 33	Raceway and Boxes for Electrical Systems	26 05 33-8
26 05 43	Underground Ducts and Raceways for Electrical Systems	26 05 43-4
26 05 53	Identification for Electrical Systems	26 05 53-2
26 05 73	Short Circuit/Coordination Study and Arc Flash Risk Assessment	26 05 73-5
26 12 19	Medium-Voltage Transformers, Liquid-Filled, Pad-Mounted (Outdoor)	26 12 19-5
26 22 00	Low-Voltage Transformers	26 22 00-2
26 24 16	Panelboards	26 24 16-3
26 27 02	Equipment Wiring Systems	26 27 02-3
26 27 13	Electricity Metering	26 27 13-2
26 27 26	Wiring Devices	26 27 26-3
26 27 28	Disconnect Switches	26 27 28-2
26 28 13	Fuses	26 28 13-1
26 29 00	Low-Voltage Controllers	26 29 00-4
26 43 13	Surge Protective Devices for Low-Voltage Electrical Power Circuits	26 43 13-3
26 51 13	Interior Lighting Fixtures, Lamps, and Ballasts	26 51 13-6
26 90 00	Process Instrumentation Control	26 90 00-19
26 90 10	Control Panel Construction	26 90 10-7
26 90 11	Control Panel Components	26 90 11-20
26 90 20	Instrumentation Devices	26 90 20-6
26 90 30	Programmable Logic Controls	26 90 30-23
26 90 41	Human-Machine Interface Equipment	26 90 41-4
26 90 51	SCADA Visualization Software	26 90 51-20
26 90 52	SCADA System Management Software	26 90 52-9
26 90 60	Ethernet Networking Equipment	26 90 60-6

## DIVISION 30 – COMMON WORK RESULTS FOR ALL EXTERIOR WORK

Section	Title	Pages Thru
30 05 00	Common Work Results for All Exterior Work	30 05 00-4

## DIVISION 31 - EARTHWORK

Section	Title	Pages Thru
31 10 00	Site Clearing	31 10 00-2
31 13 16	Selective Tree and Shrub Protection and Trimming	31 13 16-6
31 20 00	Earthmoving	31 20 00-5
31 22 16.15	Roadway Subgrade Preparation	31 22 16.15-4
31 23 16.13	Trenching	31 23 16.13-7
31 23 16.16	Structural Excavation for Minor Structures	31 23 16.16-4
31 23 19	Dewatering	31 23 19-3
31 25 00	Erosion Control	31 25 00-4

## DIVISION 32 – EXTERIOR IMPROVEMENTS

Section	Title	Pages Thru
32 11 23.33	Dense Graded Base	32 11 23.33-3
32 12 16.13	Plant Mix Asphalt Paving	32 12 16.13-2
32 16 23	Sidewalks	32 16 23-5
32 91 13	Soil Preparation	32 91 13-2
32 92 19	Seeding	32 92 19-3

## DIVISION 33 - UTILITIES

Section	Title	Pages Thru
33 05 23.13	Utility Horizontal Directional Drilling	33 05 23.13-6
33 11 00	Water Utility Distribution Piping	33 11 00-13
33 30 00	Sanitary Utility Sewerage Piping	33 30 00-7

## DIVISION 40 – PROCESS EQUIPMENT

40 05 00	Common Work Results for Process Equipment	40 05 00-4
40 05 15	Process Pipe	40 05 15-9
40 05 20	Process Piping Accessories	40 05 20-8
40 05 25	Process Valves	40 05 25-4
40 11 15	Backwash Pump	40 11 15-5
40 11 21	Chemical Feed Equipment	40 11 21-5
40 11 76	Horizontal Pressure Filter	40 11 76-8
40 22 05	Common Work Results for Plumbing	40 22 05-6
40 22 05.14	Plumbing Specialties	40 22 05.14-3
40 22 05.23	General Duty Valves for Plumbing Piping	40 22 05.23-3
40 22 05.29	Hangers and Supports for Plumbing Piping and Equipment	40 22 05.29-4
40 22 07	Plumbing Insulation	40 22 07-5
40 22 11	Facility Water Distribution	40 22 11-7
40 22 13	Facility Sanitary Sewerage	40 22 13-4
40 22 30	Plumbing Equipment	40 22 30-3
40 22 42	Commercial Plumbing Fixtures	40 22 42-2
40 23 05	Common Work Results for HVAC	40 23 05-4
40 23 05.13	Common Motor Requirements for HVAC Equipment	40 23 05.13-2
40 23 05.29	Hangers and Supports for HVAC Piping and Equipment	40 23 05.29-2
40 23 05.93	Testing, Adjusting, and Balancing for HVAC	40 23 05.93-4
40 23 07	HVAC Insulation	40 23 07-5
40 23 09	HVAC Electric Control Systems	40 23 09-7
40 23 31	HVAC Ducts and Casings	40 23 31-5
40 23 33	Air Duct Accessories	40 23 33-5
40 23 34	HVAC Fans	40 23 34-3
40 23 81	Split-System Ductless Air Conditioners	40 23 81-6
40 23 82	Heating and Cooling Terminal Units	40 23 82-3

## DRAWINGS - Bound Separately

Title	Sheets Thru
Cover Sheet	T001
Summary of Work	T100
Location Plan	T101
Erosion Control Plan - General and Water Main	T102
Erosion Control Plan - Site #2	T103
Civil Legend	C001
Improvements Plan Site #1	C100
Utility Piping Site #1	C101
Existing Conditions Site #2	C102
Improvements Plan Site #2	C103
Utility Plan Site #2	C104

Water Main Extension Overview	C105
Civil Site Plan Water Main Plan and Profile	C106-C109
Civil Details	C110
Architectural Code Summary & Basis of Structural Design	A001
Well #1 Removal	A110
Removal Plan Booster Station & Filter Building	A140
Floor Plan & Egress Plan Booster Station & Filter Building	A141
Foundation Plan Booster Station & Filter Building	A142
Roof Plan & Roof Framing Plan Booster Station & Filter Building	A143
Exterior Elevations Booster Station & Filter Building	A144
Building Sections Booster Station & Filter Building	A145
Building Sections Booster Station & Filter Building	A146
Architectural & Structural Details	A147
Architectural & Structural Details	A148
Architectural & Structural Schedules	A500
Architectural & Structural Typical Details	A501
Architectural & Structural Typical Details	A502
Architectural & Structural Typical Details	A503
Architectural & Structural Typical Details	A504
Process Equipment Legend	PE001
Process Equipment Plan Well #2	PE110
Process Equipment Plan Well #3	PE120
Process Equipment Plan Well #4	PE130
Process Equipment Removal Plan Booster Station and Filter Building	PE140
Process Equipment Plan Booster Station and Filter Building	PE141
Process Equipment Sections Booster Station and Filter Building	PE142
Process Equipment Sections Booster Station and Filter Building	PE143
Process Equipment Details	PE150
Process Equipment Underfloor Plumbing Plan Booster Station and Filter Building	PE240
Process Equipment Plumbing Plan Booster Station and Filter Building	PE241
Process Equipment Plumbing Schedules, Isometrics, and Details	PE250
Process Equipment HVAC Plan Well #2	PE310
Process Equipment HVAC Plan Well #4	PE330
Process Equipment HVAC Plans Booster Station and Filter Building	PE340
Process Equipment HVAC Schedules & Details	PE350
Electrical Symbols and Abbreviations	E001
Electrical Symbols and Abbreviations	E002
Electrical Site Plan Well #1, Well #2, and Tower	E100
Electrical Site Plan - Site #2	E101
Electrical Site Plan WWTP, Guard House 2, and Housing Unit 6	E102
Electrical Plan Well #2	E110
Electrical Plan Well #3	E120
Electrical Plan Well #4	E130
Electrical Plan Waste Water Treatment Facility Office	E140
Electrical Plan Booster Station and Filter Building	E150
Electrical Lighting Plan Booster Station and Filter Building	E151
Electrical Plan Reservoir	E152
Electrical One Line Well #2	E160
Electrical One Line Well #4	E161
Electrical One Line Booster Station and Filter Building	E162
Electrical Details	E163
Electrical Schedules	E164
Process Instrumentation and Equipment Wiring Schedule	E165
Electrical Details	E166
P&ID 1 Well #2	E170
P&ID 2 Well #3	E171

P&ID 3 Well #4	E172
P&ID 4 Reservoir and Booster Station	E173
P&ID 5 Filter	E174
P&ID 6 Filter	E175
SCADA Architecture	E176

\*\*\*