

TABLE OF CONTENTS
CC30C – Sidestream Phosphorus Removal
Central Valley Water Reclamation Facility
BC Project No. 154368

**Reference
Number Title**

INTRODUCTORY INFORMATION

00 00 00 Page 1 Title Page
00 00 00 Page 3 Seals Page
00 00 00 Page 5 Table of Contents

VOLUME 1: BIDDING AND CONTRACTING REQUIREMENTS

00 00 00	BIDDING AND CONTRACTING REQUIREMENTS
00 11 10	Advertisement for Bids
00 20 00	Instructions to Bidders
00 41 00	Bid Form
00 42 00	Schedule of Manufacturers and Suppliers
00 43 00	Bid Bond (Penal Sum)
00 51 00	Notice of Award
00 52 00	Agreement Between Owner and Contractor for Construction Contract
00 55 00	Notice to Proceed
00 61 00	Performance Bond
00 61 50	Payment Bond
00 62 50	Certificate of Substantial Completion
00 70 00	Standard General Conditions of the Construction Contract
00 80 00	Supplementary Conditions
00 85 00	SRF Boilerplate
00 85 00 A	Davis Bacon Building
00 85 00 B	Davis Bacon Heavy
00 94 00	Work Change Directive
00 94 10	Change Order
00 94 20	Field Order
Addendum 1	
Addendum 2	
Addendum 3	
Addendum 4	

VOLUME 2: TECHNICAL SPECIFICATIONS DIVISION 01 – DIVISION 23

01 00 00	GENERAL REQUIREMENTS
01 11 00	Summary of Work
01 11 80	Environmental Conditions
01 12 16	Work Sequence
01 14 16	Maintenance of Plant Operations (MOPO)

01 14 19	Use of Site
01 32 16	Construction Progress Schedule
01 32 23	Survey and Layout Data
01 32 33	Photographic Documentation
01 33 00	Submittal Procedures
01 35 43	Environmental Procedures
01 42 19	Reference Standards
01 45 00	Contractor Quality Control
01 45 20	Equipment and System Performance and Operational Testing
01 45 23	Testing and Inspection Services
01 51 00	Temporary Utilities
01 57 28	Dewatering
	Contractor Installation of Owner Pre-Purchased and Owner Furnished
01 64 00	Equipment
01 66 00	Product Storage and Handling Requirements
	Design Requirements for Non-Structural Components and Non-Building
01 73 24	Structures
01 74 23	Restoration of Improvements and Closeout
01 78 23	Operation and Maintenance Data
01 78 39	Project Record Documents
01 79 00	Demonstration and Training
01 91 00	Commissioning
01 99 90	Reference Forms

02 00 00 EXISTING CONDITIONS

02 41 00	Demolition and Salvage
----------	------------------------

03 00 00 CONCRETE

03 11 00	Concrete Forming
03 20 00	Concrete Reinforcing
03 30 00	Cast-in-Place Concrete
03 60 00	Grouting

04 00 00 MASONRY

04 20 00	Unit Masonry
04 20 10	Atlas Brick Masonry

05 00 00 METALS

05 05 14	Hot-Dip Galvanizing
05 05 20	Anchor Bolts
05 10 00	Structural Metal Framing
05 31 23	Steel Roof Decking
05 50 00	Metal Fabrications
05 52 10	Aluminum Railings
05 53 10	Metal Gratings and Stair Treads

06 00 00 WOOD, PLASTICS AND COMPOSITES

06 74 13	Fiberglass Reinforced Gratings
07 00 00	THERMAL AND MOISTURE PROTECTION
07 10 00	Damproofing and Waterproofing
07 21 00	Building Insulation
07 27 26	Fluid Applies Membrane Air Barriers
07 54 19	PVC Membrane Roofing
07 62 00	Sheet Metal Flashing and Trim
07 81 00	Sprayed Fire-Resistive Materials
07 84 10	Through-Penetration Firestop Systems
07 91 26	Joint Fillers
07 92 00	Joint Sealants - Architectural
07 92 00	Joint Sealants - Structural
08 00 00	OPENINGS
08 31 20	Floor Access Doors
08 33 20	Insulated Rolling Service Door
08 41 10	Aluminum-Framed Entrances and Storefronts
08 42 00	FRP Flush Doors
08 71 10	Door Hardware (Scheduled by Naming Products)
08 80 00	Glazing
09 00 00	FINISHES
09 90 00	Painting and Coating
10 00 00	SPECIALTIES
10 42 50	Signs
10 44 00	Fire-Protection Specialties
22 00 00	PLUMBING
22 13 19	Sanitary Waste Piping Specialties
22 14 23	Storm Drainage Piping Specialties
22 40 00	Plumbing Fixtures
23 00 00	HEATING, VENTILATING AND AIR CONDITIONING (HVAC)
23 05 00	Common Work Results for HVAC
23 05 93	Testing, Adjusting and Balancing for HVAC
23 07 00	HVAC Insulation
23 09 00	Instrumentation and Control for HVAC
23 09 93	Sequence of Operations
23 21 13	Hydronic Piping
23 21 23	Hydronic Pumps
23 31 13	Metal Ducts
23 33 00	Air Duct Accessories
23 34 16	Centrifugal HVAC Fans
23 37 13	Diffusers, Registers and Grilles

23 41 00	Particulate Air Filtration
23 82 19	Fan-Coil Units
23 82 39	Unit Heaters

VOLUME 3: TECHNICAL SPECIFICATIONS DIVISION 26 – DIVISION 33

26 00 00	ELECTRICAL
26 05 00	Common Work Results for Electrical Work
26 05 19	Low-Voltage Conductors and Cables
26 05 26	Grounding and Bonding for Electrical Systems
26 05 33	Raceways, Boxes and Supports
26 05 36	Cable Trays
26 05 74	ARC Flash Analysis, Short Circuit Study, and Protective Device Coordination Report
26 06 20.23	Electrical Cable Schedule
26 06 20.24	Electrical Cable Tray and Raceway Schedule
26 08 00	Commissioning of Electrical Systems
26 09 13	Electrical Power Monitoring
26 09 16	Miscellaneous Electrical Devices
26 09 26	Lighting Controls
26 22 00	Low-Voltage Transformers
26 24 16	Panelboards
26 24 19	Motor-Control Centers
26 24 20	Motor-Control Centers for HVAC
26 27 26	Wiring Devices
26 29 13	Individual Motor Starters
26 29 23	Variable Frequency Motor Controllers
26 33 53	Static Uninterruptible Power Supply
26 36 23	Automatic Transfer Switches
26 41 13	Lightning Protection for Structures
26 50 00	Luminaires
27 00 00	COMMUNICATIONS
27 11 00	Communications Equipment Room Fittings
28 00 00	ELECTRONIC SAFETY AND SECURITY
28 10 00	Access Control
28 23 00	Video Management System
28 31 12	Public Address System
28 42 00	Gas Detection and Alarm
31 00 00	EARTHWORK
31 05 13	Lightweight Aggregate Borrow
31 10 00	Site Clearing
31 23 00	Excavation and Fill
31 41 00	Sheeting, Shoring and Bracing
31 41 01	Vibration Control

32 00 00	EXTERIOR IMPROVEMENTS
32 12 16	Asphalt Paving
32 12 20	Surface Restoration
33 00 00	UTILITIES
33 05 01	Protection of Existing Utilities
33 05 36	High Density Polyethylene Pipe
33 05 45	Reinforced Concrete Pipe

VOLUME 4: TECHNICAL SPECIFICATIONS DIVISION 40 – DIVISION 43

40 00 00	PROCESS INTEGRATION
40 05 01	Piping Systems
40 05 02	Piping Systems Schedules
40 05 02.01	Process Air
40 05 02.05	Service Air
40 05 02.23	Potable Water
40 05 02.29	Plant Utility Water, Medium Pressure
40 05 02.30	Hydronic Water
40 05 02.53	Thickening and Dewatering
40 05 02.63	Chemical Solution
40 05 02.83	Foul Air
40 05 02.87	Groundwater Drainage
40 05 02.89	Building Mechanical Drainage
40 05 06.23	Expansion Joints and Flexible Metal Hose
40 05 06.33	Piping Appurtenances
40 05 07	Hangers and Supports for Process Piping
40 05 07.13	Seismic Restraints for Piping
40 05 07.16	Expansion Control for Piping
40 05 11	Aluminum Process Pipe
40 05 17	Copper Process Pipe and Tubing
40 05 23	Stainless Steel Process Pipe and Tubing
40 05 24	Steel Pipe
40 05 31.13	Solvent Welded PVC and CPVC Pressure Pipe
40 05 31.17	PVC Gravity Sewer and Drain Waste and Vent Pipe
40 05 31.43	Polypropylene RCT Process Pipe
40 05 33	High Density and Medium Density Polyethylene Pipe - Solid Wall
40 05 39.23	Reinforced Concrete Pipe and Precast Concrete Manholes
40 05 40	Piping Connections
40 05 45	Piping System Identification
40 05 57.23	Powered Actuators
40 05 60	Valves
40 05 62.11	Eccentric Plug, Standard Port, Glass Lined
40 05 63.02	Bronze-Brass, Full Port
40 05 63.03	Ball Valve, Stainless Steel Threaded

40 05 63.05	PVC Ball Valves
40 05 64.03	Butterfly Valve, High-Performance Soft-Seated
40 05 64.06	Butterfly Valve, AWWA C504, Class 250B
40 05 65.01	Bronze Swing Check
40 05 65.04	PVC Ball Check
40 05 65.17	Swing Check Valve, Class 250
40 05 65.18	Check Valve, Bronze, Swing, Class 250
40 05 66.01	Globe Valve, Bronze
40 05 74.23	Pinch Valve, Closed Body
40 06 20.13	Power Actuated Valve and Gate Schedule for Process Services
40 18 01	Foul Air Ductwork and Accessories
40 41 13.13	Process Piping Electric Heat Tracer Tape
40 41 13.14	Electric Heat Trace Drain De-Icing
40 42 00	Insulation of Exposed Piping and Equipment
40 61 13	Process Control System General Provisions
40 61 21	Process Control System Testing
40 61 93	Process Control System IO List
40 61 93.30	Process Control System Area 30 IO List
40 61 96.30	Area 30 PLC Process Control Descriptions
40 63 43	Programmable Logic Controllers
40 67 00	Control System Equipment Panels and Racks
40 67 00.30	Area 30 Control System Equipment Panels and Racks
40 68 00	Process Control Software
40 70 93	Process Control System Instrument List
40 70 93.30	Process Control System Area 30 Instrument List
40 71 00	Flow Measurement
40 72 00	Level Measurement
40 73 00	Pressure, Strain and Force Measurement
40 74 00	Temperature Measurement
40 75 00	Process Liquid Analytical Measurement
40 79 00	Miscellaneous Instruments, Calibration Equipment, Instrument Valves and Fittings
43 00 00	PROCESS GAS AND LIQUID HANDLING, PURIFICATION AND STORAGE EQUIPMENT
43 05 11	General Requirements for Equipment
43 05 13	Rigid Equipment Mounts
43 41 43.13	High Density Crosslinked Polyethylene Tanks

VOLUME 5: SUPPLEMENTAL INFORMATION