

**NORTHEAST OREGON HATCHERY PROJECT
SPECIFICATIONS**

TABLE OF CONTENTS

DIVISION 1 - GENERAL

01006	Project Location and Site Access
01010	Project Conditions
01014	Work Sequence and Completion Schedules
01050	Field Engineering
01060	Survey Requirements
01200	Project Meetings
01210	Resource Protection
01310	Construction Schedule
01340	Submittals
01370	Schedule of Values
01400	Quality Control
01410	Testing and Adjustments
01500	Temporary Facilities and Controls
01600	Materials and Equipment
01605	Warranties
01700	Project Closeout
01720	Project Record Documents
01730	Operating and Maintenance Data

DIVISION 2 - SITEWORK

02020	Soil Investigation Data
02050	Demolition
02100	Site Preparation
02140	Dewatering
02170	Cofferdams and Protective Works
02200	Earthwork
02220	Structural Excavation, Backfill and Compaction
02221	Trenching, Backfill and Compaction
02232	Aggregate Base Course and Surfacing
02270	Slope Protection and Erosion Control
02434	Pipe Culverts
02451	Traffic Guardrail
02500	Asphalt Concrete Paving
02520	Roadway Signing
02660	Potable Water Distribution System
02665	Potable Water Hydropneumatic Tanks
02710	Subsurface Drainage Materials
02730	Sanitary Sewage System
02821	Seeding
02830	Fencing and Gates

DIVISION 3 - CONCRETE

- 03002 Concrete
- 03100 Concrete Formwork
- 03200 Concrete Reinforcement
- 03251 Concrete Joints
- 03300 Cast-In-Place Concrete
- 03370 Concrete Curing
- 03400 Precast Concrete Structures
- 03431 Concrete

DIVISION 4 - MASONRY

- 04200 Unit Masonry

DIVISION 5 - METALS

- 05100 Structural Metal Framing
- 05300 Metal Decking
- 05920 Fish Screens
- 05990 Miscellaneous Metals

DIVISION 6 - WOODS AND PLASTICS

- 06100 Rough Carpentry
- 06200 Finish Carpentry
- 06240 Plastic Laminate

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

- 07100 Damproofing
- 07145 Concrete Sealer
- 07200 Insulation
- 07610 Preformed Metal Roofing
- 07620 Flashing, Trim and Downspouts
- 07710 Snow Guards
- 07920 Caulking and Sealants

DIVISION 8 - DOORS AND WINDOWS

- 08120 Hollow Metal Doors and Frames
- 08200 Wood Doors
- 08330 Coiling Doors
- 08410 Aluminum Entrances and Storefronts
- 08710 Finish Hardware
- 08810 Glass and Glazing

DIVISION 9 - FINISHES

- 09250 Gypsum Wallboard
- 09310 Ceramic Tiles
- 09510 Suspended Acoustical Ceiling System
- 09665 Resilient Flooring
- 09680 Carpeting
- 09900 Painting

DIVISION 10 - SPECIALTIES

- 10200 Louvers
- 10400 Interior Signs
- 10501 Wardrobe Lockers
- 10520 Fire Extinguishers and Cabinets
- 10800 Toilet Accessories
- 10801 Compost Toilet

DIVISION 11 - EQUIPMENT

- 11155 Fiberglass Rearing Tanks
- 11230 Packed Columns
- 11452 Kitchen Equipment
- 11881 Incubators
- 11884 Fish Crowder

DIVISION 12 - FURNISHINGS

- 12390 Pre-Manufactured Cabinets
- 12501 Blinds

DIVISION 13 - SPECIAL CONSTRUCTION

- 13065 Prefabricated Walk-in Freezer
- 13120 Pre-Engineered Stairs
- 13121 Pre-Engineered Chemical Storage Building
- 13200 Residences
- 13441 Hatchery Alarm, Monitoring and Control Functions
- 13500 Programmable Logic Controller (PLC) Hatchery I/O Monitoring System

DIVISION 14 - CONVEYING SYSTEMS

- 14600 Hoists

DIVISION 15 - MECHANICAL

- 15010 General Requirements for Mechanical Work
- 15043 Balancing and Testing of HVAC Systems
- 15050 Basic Mechanical Material and Methods
- 15060 Pipes and Fittings
- 15100 Valves
- 15101 Water Control Gates
- 15120 Piping Specialties
- 15140 Pumps
- 15170 Motors
- 15175 Fuel Storage and Distribution
- 15176 Ultraviolet Disinfection
- 15250 Pipe and Duct Insulation
- 15270 Flowmeters
- 15400 Plumbing
- 15450 Plumbing Fixtures
- 15480 Compressed Air System
- 15481 Oxygen Systems
- 15525 Hydrocyclone System
- 15600 HVAC Equipment
- 15750 Heat Transfer Equipment
- 15870 Building Air Handling and Ventilation
- 15970 Instrumentation and Control for HVAC Systems

DIVISION 16 - ELECTRICAL

- 16000 Electrical Specifications
- 16010 Electrical: Basic Requirements
- 16050 Basic Electrical Materials and Methods
- 16125 Heat Tracing Cable
- 16195 Electrical Identification Systems
- 16265 Variable Frequency Drives - Low Voltage
- 16400 Service and Distribution
- 16450 Secondary Grounding
- 16460 Transformers
- 16471 Panelboards
- 16472 Switchboards
- 16480 Motor Starters
- 16490 Overcurrent and Short Circuit Protective Devices
- 16500 Interior and Exterior Lighting
- 16612 Generator Systems
- 16721 Fire Alarm System
- 16740 Telephone Systems
- 16910 Process Instrumentation and Alarm
- 16960 Testing Electrical Systems
- 16980 Electrical Systems Demonstrations