## VOLUME ONE


| DOCUMENT | TITLE |
|---|---|
| 000101 | TITLE PAGE |
| 000107 | SIGNATURE PAGES |
| 000110 | TABLE OF CONTENTS |


## SPECIFICATIONS


| SECTION | TITLE |
|---|---|
| **DIVISION 1 - GENERAL REQUIREMENTS (provided by SDSU)** | |
| 01010 | SUMMARY OF WORK |
| 01151 | CONSTRUCTION WASTE MANAGEMENT |
| 01310 | COORDINATION |
| 01312 | PROJECT MEETINGS |
| 01320 | ELECTRONIC PM SYSTEM-PROLOG |
| 01322 | CONSTRUCTION PROGRESS REPORTS |
| 01330 | SUBMITTALS PROCEDURES |
| 01340 | REQUESTS FOR INTERPRETATION (RFI) |
| 01350 | SPECIAL PROCEDURES |
| 01351 | HAZARDOUS MATERIALS PROCEDURES |
| 01355 | SAFETY AND HEALTH PROCEDURES |
| 01410 | REGULATORY REQUIREMENTS |
| 01420 | REFERENCE STANDARDS AND ABBREVIATIONS |
| 01450 | QUALITY CONTROL |
| 01455 | MOCK-UPS |
| 01458 | TESTING LAB SERVICES |
| 01500 | TEMPORARY FACILITIES AND CONTROLS |
| 01510 | TEMPORARY UTILITIES |
| 01525 | CONSTRUCTION STAGING AREAS |
| 01540 | CONSTRUCTION AIDS |
| 01541 | SECURITY |
| 01550 | VEHICULAR ACCESS AND PARKING |
| 01560 | TEMPORARY BARRIERS AND ENCLOSURES |
| 01568 | TREE AND PLANT PROTECTION |
| 01570 | TEMPORARY CONTROLS |
| 01580 | PROJECT IDENTIFICATION SIGNAGE |
| 01610 | BASIC PRODUCT REQUIREMENTS |
| 01630 | PRODUCT SUBSTITUTION PROCEDURES |
| 01640 | OWNER-FURNISHED PRODUCTS |
| 01650 | PRODUCT DELIVERY REQUIREMENTS |
| 01660 | PRODUCT STORAGE AND HANDLING REQUIREMENTS |
| 01720 | PREPARATION REQUIREMENTS |
| 01730 | EXECUTION REQUIREMENTS |
| 01732 | CUTTING AND PATCHING REQUIREMENTS |
| 01740 | CLEANING REQUIREMENTS |
| 01750 | STARTING AND ADJUSTING REQUIREMENTS |
| 01770 | CONTRACT CLOSEOUT PROCEDURES |
| 01781 | SURVEY AND LAYOUT DATA |

01783 OPERATION AND MAINTENANCE DATA
01785 PRODUCT WARRANTIES AND BONDS
01789 PROJECT RECORD DOCUMENTS
01820 DEMONSTRATION AND TRAINING

**DIVISION 01 - GENERAL REQUIREMENTS**
017419 CONSTRUCTION WASTE MANAGEMENT
018113 SUSTAINABLE DESIGN REQUIREMENTS
018119 INDOOR AIR QUALITY REQUIREMENTS
019113 COMMISSIONING *(provided by SDSU consultant)*

**DIVISION 02 - EXISTING CONDITIONS**
024116 BUILDING DEMOLITION

**DIVISION 03 - CONCRETE**
031000 CONCRETE FORMWORK
032000 CONCRETE REINFORCEMENT
033000 CAST-IN-PLACE CONCRETE
033500 POLISHED CONCRETE
033555 SEALED CONCRETE
034900 GLASS-FIBER REINFORCED CONCRETE

**DIVISION 04 - MASONRY**
042000 CONCRETE UNIT MASONRY
047200 CAST STONE MASONRY

**DIVISION 05 - METALS**
051200 STRUCTURAL STEEL
051213 AESS FRAMING
053100 STEEL DECKING
054000 COLD-FORMED METAL FRAMING
055000 METAL FABRICATIONS
055113 METAL PAN STAIRS
055213 PIPE AND TUBE RAILINGS
057300 DECORATIVE METAL RAILINGS

**DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES**
061053 MISCELLANEOUS ROUGH CARPENTRY
061600 SHEATHING
064000 ARCHITECTURAL WOODWORK

**DIVISION 07 - THERMAL AND MOISTURE PROTECTION**
071326 SELF-ADHERING SHEET WATERPROOFING
071413 HOT FLUID-APPLIED RUBBERIZED ASPHALT WATERPROOFING
071616 CRYSTALLINE WATERPROOFING
071800 TRAFFIC COATINGS

072100 BUILDING INSULATION
072600 UNDER SLAB VAPOR BARRIER
072700 AIR BARRIERS
073213 CLAY ROOF TILES
074645 FIBER REINFORCED HYBRID TRIM
075419 POLYVINYL-CHLORIDE (PVC) ROOFING
076200 SHEET METAL FLASHING AND TRIM
078100 APPLIED FIREPROOFING
078413 PENETRATION FIRESTOPPING
078443 JOINT FIRESTOPPING
079200 JOINT SEALANTS
079500 EXPANSION CONTROL

**DIVISION 08 - OPENINGS**
081113 HOLLOW METAL DOORS AND FRAMES
083113 ACCESS DOORS AND FRAMES
083115 FLOOR DOORS
083313 COILING COUNTER DOORS
083323 OVERHEAD COILING DOORS
083473 SOUND CONTROL DOOR ASSEMBLIES
083483 ELEVATOR DOOR SMOKE CONTAINMENT SYSTEM
084113 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
084123 FIRE-RATED GLASS AND FRAMING SYSTEMS
084127 INTERIOR ALL-GLASS ENTRANCES AND STOREFRONTS
085113 ALUMINUM WINDOWS
087100 DOOR HARDWARE
087113 AUTOMATIC DOOR OPERATORS
088000 GLAZING
088300 MIRRORS
089119 FIXED LOUVERS

**DIVISION 09 - FINISHES**
092116.23 GYPSUM BOARD SHAFT WALL ASSEMBLIES
092216 NON-STRUCTURAL METAL FRAMING
092400 PORTLAND CEMENT PLASTERING
092900 GYPSUM BOARD
093000 TILING
095113 ACOUSTICAL PANEL CEILINGS
095153 DIRECT-ATTACHED ACOUSTICAL CEILING
095423 LINEAR METAL CEILINGS
096513 RESILIENT BASE AND ACCESSORIES
096516 RESILIENT SHEET FLOORING
096519 RESILIENT TILE FLOORING
096536 STATIC-CONTROL RESILIENT FLOORING
096723 RESINOUS FLOORING
096813 TILE CARPETING
097200 WALL COVERINGS
097700 SPECIAL WALL SURFACES
099113 EXTERIOR PAINTING
099123 INTERIOR PAINTING
099600 EXTERIOR HIGH-PERFORMANCE COATINGS
099603 INTERIOR HIGH-PERFORMANCE COATINGS

**DIVISION 10 - SPECIALTIES**

101100 VISUAL DISPLAY UNITS
101400 SIGNAGE
102113 TOILET COMPARTMENTS
102800 TOILET ACCESSORIES
104313 DEFIBRILLATOR CABINETS
104413 FIRE EXTINGUISHER CABINETS
104416 FIRE EXTINGUISHERS

## VOLUME TWO

**DOCUMENT** **TITLE**
000101 TITLE PAGE
000107 SIGNATURE PAGES
000110 TABLE OF CONTENTS

**DIVISION 11 - EQUIPMENT**

115213 PROJECTION SCREENS
115310 LABORATORY CASEWORK AND OTHER FURNISHINGS
115313 FUME HOODS AND OTHER EXHAUSTED DEVICES
115343 LABORATORY SERVICE FITTINGS
115350 LABORATORY EQUIPMENT
115353 BIOLOGICAL SAFETY CABINETS

**DIVISION 12 - FURNISHINGS**

122413 ROLLER WINDOW SHADES
123613 CONCRETE COUNTERTOPS
123661 SOLID SURFACE COUNTERTOPS
125219 UPHOLSTERED SEATING
129310 BOLLARDS

**DIVISION 13 –** NOT USED

**DIVISION 14 - CONVEYING EQUIPMENT**

142400 VERTICAL TRANSPORTATION

**DIVISION 15 – 20** NOT USED

| SECTION | TITLE |
|---|---|
| **DIVISION 21 – FIRE SUPPRESSION** | |
| 211000 | FIRE PROTECTION |
| **DIVISION 22 - PLUMBING** | |
| 220203 | PLUMBING DESIGN-BUILD REQUIREMENTS FOR LEED V3 2009 PROJECTS |
| 220500 | BASIC PLUMBING MATERIALS AND METHODS |
| 210548 | VIBRATION ISOLATION FOR PLUMBING EQUIPMENT |
| 210549 | SEISMIC RESTRAINT FOR PLUMBING PIPING AND EQUIPMENT |
| 220593 | PLUMBING TESTING, ADJUSTING AND BALANCING |
| 220700 | PLUMBING INSULATION |
| 221000 | PLUMBING PIPING, VALVES AND SPECIALTIES |
| 221123 | PUMPS AND SPECIALTIES |
| 221125 | DOMESTIC HOT WATER RECIRCULATION |
| 221519 | AIR COMPRESSOR |
| 222114 | PROCESS VALVES |
| 222117 | PROCESS PIPING |
| 223400 | DOMESTIC HOT WATER HEATING EQUIPMENT |
| 224000 | PLUMBING FIXTURES |
| 224500 | EMERGENCY PLUMBING FIXTURES |
| 226313 | VACUUM SYSTEMS |
| **DIVISION 23 - HEATING VENTILATING AND AIR CONDITIONING** | |
| 230203 | HVAC DESIGN-BUILD REQUIREMENTS FOR LEED V3 2009 PROJECTS |
| 230500 | BASIS HVAC MATERIALS AND METHODS |
| 230548 | VIBRATION ISOLATION |
| 230549 | SEISMIC RESTRAINT |
| 230593 | TESTING, ADJUSTING, AND BALANCING |
| 230700 | HVAC INSULATION |
| 230805 | MECHANICAL SYSTEMS COMMISSIONING |
| 230900 | BUILDING AUTOMATION SYSTEM CONTROLS |
| 230901 | LABORATORY AIRFLOW CONTROL SYSTEM |
| 230902 | VARIABLE FREQUENCY DRIVES |
| 230993 | SEQUENCES OF OPERATION FOR HVAC CONTROLS |
| 231123 | FACILITY NATERUAL-GAS PIPING |
| 232113 | HVAC PIPING, VALVES AND SPECIALTIES |
| 232114 | UNDERGROUND PIPING |
| 232123 | PUMPS AND HYDRONIC SPECIALTIES |
| 232300 | REFRIGERANT PIPING SYSTEMS |
| 232500 | HVAC WATER TREATMENT |
| 233113 | AIR DISTRIBUTION |
| 233413 | FANS AND VENTS |
| 234100 | AIR FILTRATION |
| 235100 | BREECHINGS, CHIMNEYS, AND STACKS |
| 235113 | DRAFT CONTROL DEVICES |
| 237312 | CUSTOM FACTORY AHU |
| 238219 | SMALL CABINET FAN COIL UNITS |
| 238239 | HEAT TRANSFER |

**DIVISION 24 – 25** NOT USED

**DIVISION 26 – ELECTRICAL**

260100 ELECTRICAL DESIGN-BUILD INSTRUCTIONS
260203 ELECTRICAL DESIGN-BUILD REQUIREMENTS FOR LEED
260400 ACCEPTANCE TESTING
260500 BASIC ELECTRICAL MATERIALS AND METHODS
260513 MEDIUM-VOLTAGE CABLES
260519 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES
260523 CONTROL-VOLTAGE ELECTRICAL POWER CABLES
260526 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
260529 SUPPORTS AND HANGERS FOR ELECTRICAL SYSTEMS
260533 RACEWAYS FOR ELECTRICAL SYSTEMS
260534 BOXES FOR ELECTRICAL SYSTEMS
260543 UNDERGROUND BOXES FOR ELECTRICAL SYSTEMS
260544 SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING
260548 VIBRATION FOR ELECTRICAL SYSTEMS
260548.16 SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS
260553 IDENTIFICATION FOR ELECTRICAL SYSTEMS
260572 OVERCURRENT PROTECTIVE DEVICE SHORT-CIRCUIT STUDY
260573 OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY
260574 OVERCURRENT PROTECTIVE DEVICE ARC-FLASH STUDY
260800 ELECTRICAL SYSTEMS COMMISSIONING
260943 NETWORK LIGHTING CONTROLS
261116 SECONDARY UNIT SUBSTATIONS
261329 MEDIUM-VOLTAGE, PAD-MOUNTED SWITCHGEAR
262200 LOW-VOLTAGE TRANSFORMERS
262413 SWITCHBOARDS
262416 PANELBOARDS
262713 ELECTRICITY METERING
262726 WIRING DEVICES
262813 FUSES
262816 ENCLOSED SWITCHES AND CIRCUIT BREAKERS
262913 ENCLOSED CONTROLLERS
263213 ENGINE GENERATORS
263600 TRANSFER SWITCHES
265100 INTERIOR LIGHTING
265219 EMERGENCY AND EXIT LIGHTING
265600 EXTERIOR LIGHTING

**DIVISION 27 – COMMUNICATIONS**

270000 GENERAL COMMUNICATIONS REQUIREMENTS
270526 GROUNDING AND BONDING FOR COMMUNICATIONS SYSTEMS
270528 PATHWAYS FOR COMMUNICTAIONS SYSTEMS
270800 COMMISSIONING OF COMMUNICATIONS SYSTEMS
271100 COMMUNICATIONS EQUIPMENT ROOM FITTINGS

271300 COMMUNICATIONS BACKBONE CABLING
271500 COMMUNICATIONS HORIZONTAL CABLING
275118 RESCUE ASSISTANCE SIGNAL SYSTEM
275126 ASSISTIVE LISTENING SYSTEM

**DIVISION 28 - ELECTRONIC SAFETY AND SECURITY**
280513 CONDUCTORS AND CABLES FOR ELECTRONIC SAFETY AND SECURITY
280528 PATHWAYS FOR ELECTRONIC SAFETY AND SECURITY
280544 SLEEVES AND SLEEVE SEALS FOR ELECTRONIC SAFETY AND SECURITY PATHWAYS AND CABLING
283111 DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM

**DIVISION 29 – 30** NOT USED

**DIVISION 31 - EARTHWORK**
310000 EARTHWORK
311000 SITE CLEARING AND DEMOLITION
312000 EARTH MOVING
312333 TRENCHING
316213 CAST-IN-PLACE CONCRETE PILES

**DIVISION 32 - EXTERIOR IMPROVEMENTS**
321216 ASPHALT PAVING
321313 CONCRETE PAVING
321316 DECORATIVE CONCRETE
328400 LANDSCAPE IRRIGATION
329115 LANDSCAPE SOIL PREPERATION
329200 TURF AND GRASSES
329300 PLANTS
329310 CU SOIL
329350 DECOMPOSED GRANITE

**DIVISION 33 - UTILITIES**
331100 WATER UTILITY DISTRIBUTION SYSTEM
333100 SANITARY UTILITY SEWERAGE SYSTEM
334100 STORM UTILITY DRAINAGE PIPING

**DIVISIONS 34 – 49** NOT USED

END OF TABLE OF CONTENTS