

**PROVINCE OF NOVA SCOTIA  
DEPARTMENT OF TRANSPORTATION AND INFRASTRUCTURE RENEWAL**

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DTIR Document DC350

**PART 2  
EDUCATIONAL FACILITIES  
DESIGN REQUIREMENTS**

**2010 EDITION**

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DC350, Part 2 is not intended to be a complete architectural, mechanical or electrical specification for a school project. Such a complete specification must be written for each project by the Project Consultant.

This section, in conjunction with DC350, Part 1 and the remainder of Part 2 and its associated appendices, does specify, in outline form, the minimum acceptable standards for school components.

**PART 2 - EDUCATIONAL FACILITIES DESIGN REQUIREMENTS**

**Preface - Educational Facility Design Requirements**

**Section 1- Educational Facilities General Design Requirements**

- 1 Codes and Bylaws
- 2 CADD / Drawing Standards
- 3 School Design
- 4 Architectural Guidelines
- 5 Main Building Zones
- 6 Sound Isolation
- 7 Building Security
- 8 Barrier Free Access/Universal Design
- 9 Site Design
- 10 Building Design / Structural Criteria
- 11 Building Envelope Assemblies
- 12 Mechanical Guidelines

**Section 2 - Educational Facilities Detailed Design Requirements**

- 1 Introduction
- 2 General Building Requirements

**DIVISION 00 BIDDING AND CONTRACTING REQUIREMENTS**

- 00 20 00 Instructions to Bidders
- 00 31 21 Survey Information
- 00 31 24 Environmental Assessment Information
- 00 31 32 Geotechnical Data
- 00 40 00 Procurement Forms and Appendices
- 00 52 00 Agreement Forms
- 00 60 00 Project Forms
- 00 72 00 General Conditions
- 00 73 00 Supplementary Conditions
- 00 90 00 Revisions, Clarifications and Modifications
- 00 94 00 Record Modifications

**DIVISION 01 GENERAL REQUIREMENTS**

- 01 00 00 General Instructions

**DIVISION 02 EXISTING CONDITIONS**

- 02 00 00 Existing Conditions - General

<b>DIVISION 03</b>	<b>CONCRETE</b>
03 00 00	Concrete - General
03 10 00	Concrete Forming and Accessories
03 20 00	Concrete Reinforcing
03 30 00	Cast -in -Place Concrete
03 41 00	Precast Structural Concrete
03 45 00	Precast Architectural Concrete
<b>DIVISION 04</b>	<b>MASONRY</b>
04 00 00	Masonry - General
04 05 00	Common Work Results for Masonry
04 21 00	Clay Unit Masonry
04 22 00	Concrete Unit Masonry
<b>DIVISION 05</b>	<b>METALS</b>
05 00 00	Metals - General
05 10 00	Structural Metal Framing
05 21 00	Steel Joist Framing
05 30 00	Steel Deck
05 50 00	Metal Fabrications
05 51 00	Metal Stairs and Ladders
<b>DIVISION 06</b>	<b>WOOD, PLASTICS AND COMPOSITES</b>
06 10 00	Rough Carpentry
06 20 00	Finish Carpentry
06 41 00	Architectural Wood Casework
<b>DIVISION 07</b>	<b>THERMAL &amp; MOISTURE PROTECTION</b>
07 00 00	Thermal and Moisture Protection - General
07 10 00	Damp-proofing and Waterproofing
07 18 00	Elastomeric Roof Coating
07 20 00	Thermal Protection
07 24 00	Exterior Insulation and Finish System (EIFS)
07 25 00	Weather Barriers / Vapour Retarders / Air Barriers
07 30 00	Steep Slope Roofing (Shingles, Roof Tiles, and Roof Coverings)
07 40 00	Roofing and Siding Panels
07 51 00	Built-up Bituminous Roofing
07 52 00	Modified Bituminous Membrane Roofing

07 53 00	Elastomeric Membrane Roofing - Ethylene Propylene Diene Monomer Roofing (EPDM)
07 54 00	Thermoplastic Membrane Roofing
07 72 00	Roof Accessories
07 80 00	Fire and Smoke Protection
07 84 00	Fire Stopping
07 90 00	Joint Sealants
<b>DIVISION 08</b>	<b>OPENINGS</b>
08 00 00	Openings - General
08 11 00	Metal Doors and Frames
08 11 16	Aluminum Doors and Frames
08 14 00	Wood Doors
08 50 00	Windows
08 60 00	Roof Windows and Skylights
08 71 00	Door Hardware
08 74 00	Electro-Mechanical Hardware
08 80 00	Glazing
<b>DIVISION 09</b>	<b>FINISHES</b>
09 00 00	Finishes - General
09 21 16	Gypsum Board Assemblies
09 22 16	Non-Structural Metal Framing
09 30 00	Tiling
09 51 00	Acoustical Ceilings
09 53 00	Acoustical Ceiling Suspension Assemblies
09 64 00	Wood Flooring
09 65 13	Resilient Base and Accessories
09 65 19	Resilient Tile Flooring
09 67 00	Fluid-Applied Flooring
09 68 00	Carpeting
09 72 16	Vinyl-Coated Fabric Wall Covering
09 80 00	Acoustical Treatment
09 90 00	Painting and Coating
<b>DIVISION 10</b>	<b>SPECIALTIES</b>
10 11 00	Visual Display Surfaces
10 11 23	Tack Boards and Bulletin Boards
10 14 00	Signage

10 21 13	Plastic Laminate Toilet Compartments
10 22 23	Operable Partitions
10 28 00	Toilet, Bath, and Laundry Accessories
10 44 00	Fire Protection Specialties
10 51 00	Lockers
10 57 00	Wardrobe and Closet Specialties
10 73 00	Protective Covers
10 75 00	Flagpoles

**DIVISION 11      EQUIPMENT**

11 00 00	Equipment - General
11 31 00	Residential Equipment
11 40 00	Food Service Equipment
11 52 00	Audio-Visual Equipment
11 53 00	Laboratory Equipment
11 57 00	Vocational Shop Equipment
11 61 00	Theater and Stage Equipment
11 66 23	Gymnasium Equipment
11 68 00	Play Field Equipment and Structures

**DIVISION 12      FURNISHINGS**

12 21 00	Window Blinds
12 30 00	Manufactured Casework
12 48 00	Rugs and Mats
12 56 51	Library Furniture
12 93 00	Site Furnishings

**DIVISION 14      CONVEYING SYSTEMS**

14 20 00	Elevators
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**FACILITY SERVICES SUBGROUPS - (FSS-G)**

1	Facility Services Subgroup - General
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**DIVISION 21      FIRE SUPPRESSION**

21 00 00	Fire Suppression - General
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**DIVISION 22      PLUMBING**

22 00 00	Plumbing - General
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<b>DIVISION 23</b>	<b>HVAC</b>
23 00 00	HVAC - General
23 10 00	Facility Fuel Systems
<b>DIVISION 25</b>	<b>INTEGRATED AUTOMATION</b>
<b>DIVISION 26</b>	<b>ELECTRICAL</b>
26 00 00	Electrical General Requirements
26 05 00	Common Work Results
26 05 33	Raceways and Boxes for Electrical Systems
26 08 00	Electrical Commissioning
26 09 24	Instrumentation and Control for Electrical Systems
26 09 61	Theatrical Lighting Controls
26 24 00	Switchboards and Panel boards
26 27 00	Low Voltage Distribution Equipment
26 28 00	Low Voltage Circuit Protective Devices
26 43 00	Transient Voltage Surge Suppression (TVSS)
26 50 00	Lighting Equipment
26 52 00	Emergency Lighting
26 53 00	Exit Signs
<b>DIVISION 27</b>	<b>COMMUNICATIONS</b>
27 10 00	Structured Cabling System
27 40 00	Television and Multimedia System
27 51 16	Public Address and Mass Notification Systems
27 51 16.01	Cafeteria/Gymnasium Public Address System
<b>DIVISION 28</b>	<b>ELECTRONIC SAFETY AND SECURITY</b>
28 00 00	Security Systems
28 31 00	Fire Detection and Alarm
<b>DIVISION 31</b>	<b>EARTHWORK</b>
31 10 00	Site Clearing - Tree, Shrub and Natural Areas Preservation
31 14 00	Earth Stripping and Stockpiling - Preservation of Topsoil
31 20 00	Earth Moving
31 22 00	Grading
<b>DIVISION 32</b>	<b>EXTERIOR IMPROVEMENTS</b>
32 00 00	Site Design and Construction - General

32 10 00	Bases, Ballasts, and Paving
32 18 00	Athletic and Recreational Surfacing
32 32 00	Retaining Walls
32 90 00	Planting
32 91 00	Planting Preparation
32 92 00	Turf and Grasses
32 93 00	Recommended Plants for Landscaping

**DIVISION 33 UTILITIES**

33 00 00	Utilities - General / Site Services
33 42 00	Pipe Culverts
33 71 00	Electrical Utility Transmission and Distribution
33 80 00	Communications Utilities

**PART 2 - Section 3 - Room Data Sheets**

TYPICAL CLASSROOM  
PRIMARY CLASSROOM  
ARTS CLASSROOM (ELEMENTARY LEVEL)  
SMALL WORK GROUP AREA  
TEACHER STORAGE ROOM  
LEARNING SUPPORT  
RESOURCES ROOM  
ASSISTIVE CARE WASHROOM  
LEARNING RECOVERY ROOM  
LEARNING RECOVERY TRAINING CENTRE (STUDENT SERVICES)  
GENERAL LIBRARY  
LIBRARY, SEMINAR ROOM  
STORAGE ROOM  
CHEMISTRY LABORATORY  
LABORATORY STORAGE / PREPARATION ROOM  
PHYSICS / GENERAL SCIENCE / BIOLOGY LABORATORY  
INFORMATION TECHNOLOGY / COMMUNICATION TECHNOLOGY  
TECHNOLOGY EDUCATION  
TECHNOLOGY PRODUCTION AREA  
NUTRITION AREA (FAMILY STUDIES)  
CLOTHING & TEXTILE AREA (FAMILY STUDIES)  
VISUAL ARTS ROOM  
ART STORAGE ROOM  
DRAMA ROOM

MUSIC ROOM  
MUSIC STORAGE ROOM  
PRACTICE ROOMS (MUSIC)  
FILM & VIDEO 12 PRODUCTION CLASSROOM  
SOUND BOOTH  
GYMNASIUM (ASSEMBLY AREAS)  
MULTI-PURPOSE ROOMS (GYMNASIUM)  
CHANGE & SHOWER ROOMS  
GYM OFFICE  
GYM STORAGE  
STAGE  
CAFETERIA  
KITCHEN  
KITCHEN STORAGE  
OUTSIDE STORAGE  
RECEPTION/GENERAL OFFICE (ADMINISTRATION)  
PRINCIPAL'S OFFICE (ADMINISTRATION)  
VICE PRINCIPAL'S OFFICE (ADMINISTRATION)  
CONFERENCE ROOM (ADMINISTRATION)  
STORAGE/PHOTOCOPY (ADMINISTRATION)  
SICK ROOM (ADMINISTRATION)  
SICK ROOM-WASHROOM (ADMINISTRATION)  
STAFF ROOM (ADMINISTRATION)  
STAFF WORK ROOM -(ADMINISTRATION)  
STAFF KITCHEN - STAFF ROOM  
COAT CLOSET AREA - STAFF ROOMS  
STAFF WASHROOMS (Including Shower Area)  
GUIDANCE RECEPTION AREA (STUDENT SERVICES)  
GUIDANCE OFFICE (STUDENT SERVICES)  
RECORDS STORAGE ROOM (STUDENT SERVICES)  
ITINERANT SPECIALIST (STUDENT SERVICES)  
COMMUNITY LIAISON OFFICE (STUDENT SERVICES)  
TEEN HEALTH  
RECEPTION/WAITING AREA (TEEN HEALTH)  
STUDENT COUNCIL ROOM/YEAR BOOK ROOM  
LOBBY (CIRCULATION)  
CORRIDORS (CIRCULATION)  
STAIRS (CIRCULATION)  
STUDENT WASHROOMS (BUILDING SUPPORT SERVICES)



MAINTENANCE OFFICE (BUILDING SUPPORT SERVICES)  
BOILER ROOM (BUILDING SUPPORT SERVICES)  
SPRINKLER ROOMS (BUILDING SUPPORT SERVICES)  
MECHANICAL ROOMS (BUILDING SUPPORT SERVICES)  
ELECTRICAL ROOM (BUILDING SUPPORT SERVICES)  
COMMUNICATION / SERVER ROOM (BUILDING SUPPORT SERVICES)  
MAIN COMMUNICATIONS ROOM OFFICE (BUILDING SUPPORT SERVICES)  
COMMUNICATIONS CLOSET (BUILDING SUPPORT SERVICES)  
STORAGE ROOMS (BUILDING SUPPORT SERVICES)  
RECYCLING ROOM (BUILDING SUPPORT SERVICES)  
JANITOR'S CLOSET (BUILDING SUPPORT SERVICES)  
CUSTODIAL ROOM (Building Support Services)