

# TRI – SERVICE COST ENGINEERING CONFERENCE MASTERFORMAT 2004 OVERVIEW

**RSMeans**

**Reed Construction Data**

**June 5, 2003**

**A Division of Reed Business Information**

# Why Do We Need Another MasterFormat Revision?

1. Growth in computer and telecommunication systems.
2. Rapid advances in types and uses of construction materials.
3. Better specifications format for the following:
  - a. Heavy Civil Engineering Projects
  - b. Industrial Construction

# MasterFormat 2004 Guiding Principles

1. Impose as little change as possible into the divisions that have composed the architectural building subjects.
2. Drop MasterFormat's product classification function.
3. Make MasterFormat more acceptable to building engineering disciplines.
4. Expand MasterFormat to cover other building construction adequately.
5. Revise MasterFormat to follow classification principles.
6. Provide space for expansion within each division.
7. Maintain organizational consistency among divisions.
8. Expand MasterFormat to have the capacity to comprehend the full life cycle, including use by owners and facility managers.

# Proposed MasterFormat Expansion Draft 1

- 0 – Procurement and Contracting Requirements**
- 1 – General Requirements**
- 2 – Existing Conditions** *(Div 2 Separated into Ground Construction & Site Improvements)*
- 3 – Concrete**
- 4 – Masonry**
- 5 – Metals**
- 6 – Wood and Plastics**
- 7 – Thermal and Moisture Protection**
- 8 – Doors and Windows**
- 9 – Finishes**

# Proposed MasterFormat Expansion Draft 1 *cont.*

- 10 – Specialties** *(Reorganized to Hierarchical Arrangement)*
- 11 – Equipment** *(Reorganized to Hierarchical Arrangement & non – building equipment removed)*
- 12 – Furnishings**
- 13 – Special Construction** *(Reorganized to Hierarchical Arrangement & non – building equipment removed)*
- 14 – Conveying Equipment** *(Transportation Systems removed)*
- 21 – Life Safety and Facility Protection** *(New Division with existing material from Divs 7, 13, & 15)*
- 22 – Plumbing** *(Div 15 divided into Plumbing & HVAC)*
- 23 – HVAC** *(Div 15 divided into Plumbing & HVAC)*
- 24 – Electrical** *(Div 16 divided into Electrical & Communications)*

# Proposed MasterFormat Expansion Draft 1 *cont.*

- 25 – Communications** *(Div 16 divided into Electrical & Communication with existing material from Div 13)*
- 31 – Exterior Construction** *(Separated from Div 2)*
- 32 – Exterior Improvements** *(Separated from Div 2)*
- 33 – Transportation** *(New Division with existing material from Divs 11 & 14)*
- 34 – Waterway and Marine Construction** *(New Division with existing material from Div 5)*
- 41 – Fluid Treatment** *(New Division with existing material from Divs 11 & 13)*
- 42 – Power Generation** *(New Division with existing and new material from Divs 13 & 16)*
- 43 – Processes** *(New Division for new material)*

# Proposed MasterFormat Expansion Draft 2, Scheme B

00 – Introductory Information

## **Procurement and Contract Requirements**

01 – Procurement Requirements

02 – Contract Requirements

## **Common Requirements**

11 – General Requirements

12 – Performance Requirements

13 – Existing Conditions

## **Common Construction**

21 – Earthwork and Foundations

22 – Concrete

23 – Masonry

24 – Metals

25 – Rough Wood and Plastics

26 – Passive Protection

27 – Coatings

28 – Facilities and Construction Elements

## **Infrastructure and Exterior Construction**

31 – Exterior Construction

32 – Transportation

33 – Waterway and Marine Construction

34 - Landscaping

# Proposed MasterFormat Expansion Draft 2, Scheme B *cont.*

## **Building Construction**

- 41 – Thermal and Moisture Protection
- 42 – Building Enclosure
- 43 – Openings
- 44 – Finish Wood and Plastics
- 45 – Finishes

## **Equipment and Furnishings**

- 51 – Specialties
- 52 – Equipment
- 53 – Furnishings
- 54 – Facility Conveying Equipment
- 55 – Facility Material Handling

## **Mechanical**

- 60 – Common Mechanical Materials and Methods
- 61 – Plumbing
- 62 – Fire Protection
- 63 – Heating and Cooling Equipment
- 64 – Heating and Refrigeration Distribution
- 65 – Heating & Cooling Unitary & Terminal  
**Equipment**
- 66 – Mechanical Instrumentation and Control
- 67 – Mechanical Testing

# Proposed MasterFormat Expansion Draft 2, Scheme B *cont.*

## Electrical and Communications

- 70 – Common Electrical & Communications Materials & Methods
- 71 – Facility Electrical Power Generation
- 72 – Facility Electrical Power Distribution
- 73 – Lighting
- 74 – Communications
- 75 – Occupant Protection
- 76 – Integrated Automation and Control

## Processes

- 81 – Heating, Cooling, and Drying
- 82 – Gas and Liquid Handling and Storage
- 83 – Material Processing
- 84 – Heat Tracing and Insulation
- 85 – Pollution Control
- 86 – General Manufacturing
- 87 – Power Generation
- 88 – Process Control and Instrumentation

# Proposed MasterFormat Expansion Draft 3

## Division Groupings:

- **Procurement and Contract Requirements** (“00 series” of divisions containing sections numbered 000001 – 099999)
- **Common Requirements** (“10 series” of divisions containing sections numbered 100001 – 199999)
- **Site Construction** (“20 series” of divisions containing sections numbered 200001 – 299999)
- **Common Construction** (“30 series” of divisions containing sections numbered 300001 – 399999)
- **Facility Construction** (“40 series” of divisions containing sections numbered 400001 – 499999)
- **Equipment** (“50 series” of divisions containing sections numbered 500001 – 599999)
- **Facility Services Construction** (“60 series” of divisions containing sections numbered 600001 – 699999)
- **Infrastructure Construction** (“70 series” of divisions containing sections numbered 700001 – 799999)
- **Process Construction** (“80 series” of divisions containing sections numbered 800001 – 899999)

# Proposed MasterFormat Expansion Draft 4

Division 0 – Procurement and Contracting Requirements

Division 1 – General and Performance Requirements

Division 2 – Site Construction

Division 3 – Concrete

Division 4 – Masonry

Division 5 – Metals

Division 6 – Wood, Plastics, and Composites

Division 7 – Thermal and Moisture Protection

Division 8 – Openings

Division 9 – Finishes

Division 10 – Specialties

Division 11 – Equipment

Division 12 – Furnishings

Division 13 – Special Construction

Division 14 – Conveying Equipment

Division 15-19 – Reserved

## **Facility Services Grouping**

Division 20 – Reserved

Division 21 – Mechanical

Division 22 – Fire Suppression

Division 23-24 – Reserved

Division 25 – Electrical

Division 26 – Communications

Division 27 – Electronic Safety and Security

Division 28 – Integrated Automation

Division 29 – Reserved

# Proposed MasterFormat Expansion Draft 4 *cont.*

## **Infrastructure Grouping**

Division 30 – Infrastructure Common Materials and Methods

Division 31 – Utilities

Division 32 – Transportation

Division 33 – Waterway and Marine Construction

Division 34-39 – Reserved

## **Process Construction Grouping**

Division 40 – Common Process Materials and Methods

Division 41 – Material Processing and Handling Equipment

Division 42 – Heating, Cooling, and Drying Equipment

Division 43 – Gas and Liquid Handling / Purification and Storage Equipment

Division 44 – Pollution Control Equipment

Division 45 – Industry – Specific Manufacturing Equipment

Division 46 – Electrical Power Generation

Division 47-49 - Reserved

# Approximate Schedule

## 2003:

May 21

Publish Outline Draft 4

August

Publish Detailed Draft 4

November 7

Commentary Closes on Draft 4

December 19

Final Manuscript Completed

## 2004:

September – December

Expanded MasterFormat™ For Sale