

XIX. CMUD METHODS AND MATERIALS COMMITTEE

The methods and materials committee was established to review CMUD standard specifications for materials and construction methods. The committee is responsible for review of changes/additions to the specifications as requested by manufacturers, suppliers, contractors, CMUD personnel or other interested parties.

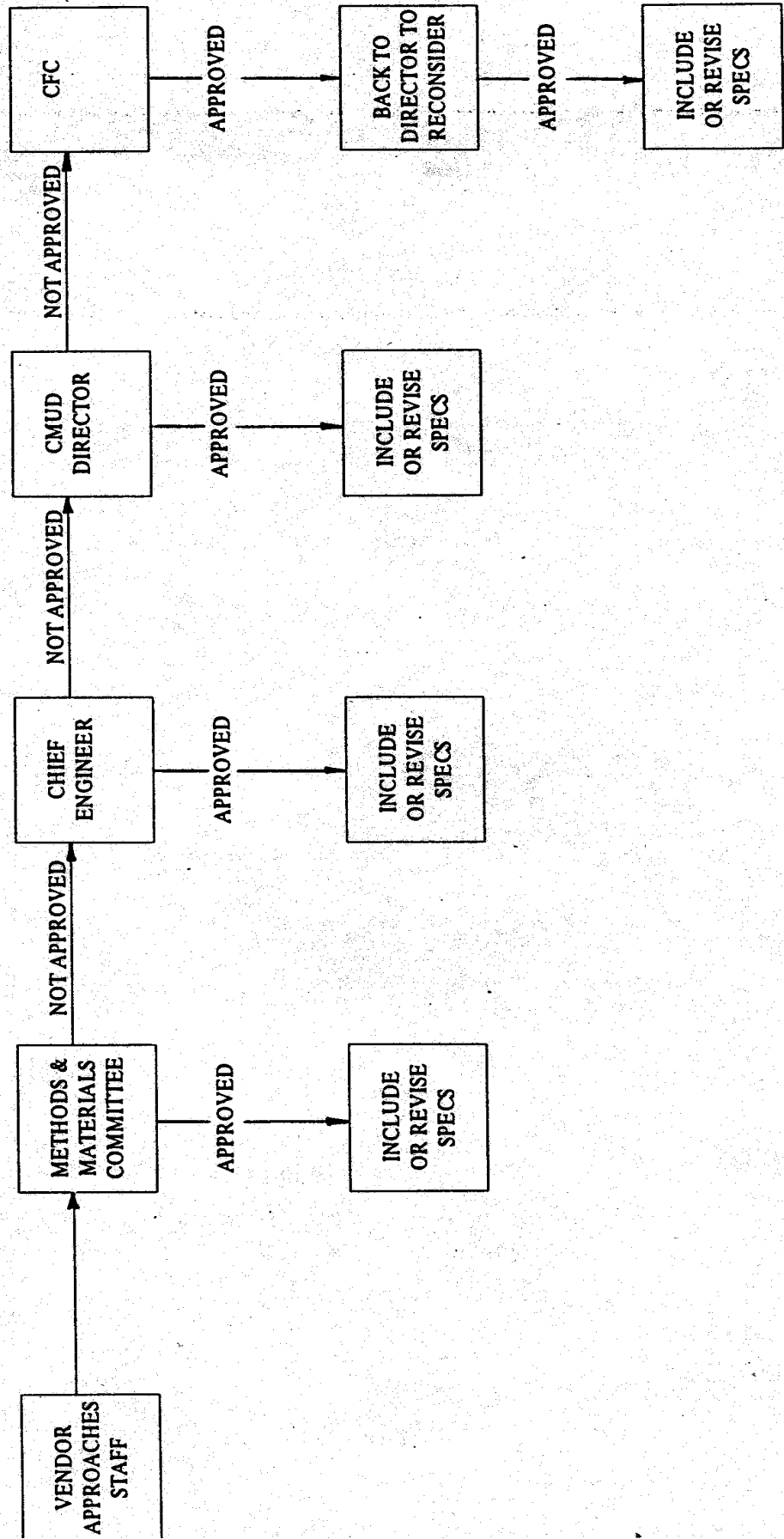
The committee is composed of two representatives from water/sewer contractors and the following CMUD personnel:

- Capital Improvements Projects Manager
- Land Development Manager
- Technical Services Manager
- Special Projects Manager
- Water Distribution Superintendent
- Wastewater Collection Superintendent
- Customer Service Superintendent
- Contractor
- Contractor

Standard evaluation criteria will be used when considering requests. Committee decisions will be made by consensus. If the committee is unable to reach consensus, opposing views will be presented to the Chief Engineer for judgement.

This page intentionally left blank.

PROCESS FOR MATERIALS / SPECIFICATIONS CHANGES



This page intentionally left blank.

SEWER PIPE - EVALUATION CRITERIA

1. Flow characteristics (friction coefficient)
2. Life expectancy
3. History of past use
4. Resistance to scour (abrasion resistance)
5. Ease of handling and installation
6. Structural strength
7. Structural strength in combination with bedding system
8. Type of joint
9. Joint Tightness
10. Availability of fittings
11. Manhole connections
12. Availability of sizes
13. Material Cost
14. Installation Cost
15. Ease of Lateral Connections
16. Durability
17. Compatibility with approved materials
18. Outside and Inside diameter
19. ASTM Specification
20. Corrosion Resistance
21. Chemical Resistance
22. Weight
23. Wall Thickness
24. Manufacturing/Quality Control

STRUCTURES - EVALUATION CRITERIA

1. Life expectancy
2. History of past use
3. Resistance to scour (abrasion resistance)
4. Corrosion resistance
5. Chemical resistance
6. Ease of handling and installation
7. Structural strength
8. Type of seal
9. Water/Air tightness
10. Availability of sizes
11. Pipe connections
12. Material Cost
13. Installation Cost
14. Resistance to uplift
15. Durability
16. Compatibility with approved materials
17. ASTM Specification
18. Safety
19. Aesthetics
20. Working room within
21. Conformance to Standard Detail Dimensions
22. Means of entry
23. Manufacturing/Quality Control

CASTINGS - EVALUATION CRITERIA

1. Life expectancy
2. History of past use
3. Corrosion Resistance
4. Structural strength
5. Weight
6. Security
7. Safety
8. ASTM Specification
9. Water/Air tightness
10. Compatibility with approved materials
11. Ease of use
12. Durability
13. Conformance with Standard Dimensions
14. Cost
15. Manufacturing/Quality Control

WATER PIPE - EVALUATION CRITERIA

1. Life expectancy
2. History of use
3. Head loss
4. Abrasion resistance
5. Ease of handling/installation
6. Structural strength
7. Durability
8. Pressure classification
9. Water hammer allowance
10. Type joint
11. Type fittings
12. Availability of sizes
13. Material cost
14. Installation cost
15. Type of Tap
16. East of Tapping
17. Compatibility with approved materials
18. Inside/Outside Diameter
19. Corrosion resistance
20. Wall Thickness
21. ASTM Specifications
22. Manufacturing/Quality Control

WATER VALVES - EVALUATION CRITERIA

1. Life Expectancy
2. History of use
3. Head loss
4. Abrasion resistance
5. Strength
6. Pressure rating
7. Durability
8. Availability of sizes
9. Corrosion resistance
10. Operating Torque
11. ASTM Specification
12. Ease of Repair
13. Cost
14. Material of construction
15. Repair parts required
16. Manufacturing/Quality Control

FIRE HYDRANTS - EVALUATION CRITERIA

1. Life expectancy
2. History of use
3. Strength
4. Pressure rating
5. Durability
6. Corrosion resistance
7. ASTM Specification
8. Ease of Repair
9. Repair parts required
10. Cost
11. Material of construction
12. Conformance to standard dimensions
13. Flow Performance/Characteristics
14. Compatibility with other approved hydrants.
15. Manufacturing/Quality Control