



BAGONG PILIPINAS



SCHEMATIC PERSPECTIVE



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2,673.85 SQ.M (APPROX)
2 FLOORS
1 MEZZANINE

RTIC - General Santos National School of Arts and Trades (Region XII)
Tiongson St., Lagao, General Santos City

Focus Area: Warehouse Logistics Management with the Use of Big Data Analytics

Approx. Total Floor Area = 2,673.85 sq.m

- Ground Floor = ±1,200.00 sq.m
- Mezzanine Level = ±273.00 sq.m
- Second Floor = ±1200.00 sq.m

Project Duration = 545 calendar days (18 months)



PROGRAM OF WORKS

1. Professional Fees
2. General Requirements
3. Site Work
4. Concrete
5. Masonry
6. Metals
7. Wood & Plastic
8. Thermal & Moisture Protection
9. Doors & Windows
10. Finishes
11. Specialties
12. Equipment
13. Furnishing
14. Special Construction
15. Conveying Equipment
16. Mechanical/ Plumbing
17. Electrical & Auxiliary
18. Other items needed to complete the project

PROGRAM OF WORKS

1. Professional Fee

1. Detailed Architectural and Engineering Design/
Professional Fee
2. As Built of Existing Structures/ Building for
Rehabilitation/ Renovation

SURVEY AND TESTING

1. Geodetic Survey
2. Geotechnical Investigation/ Soil Test
3. Location and Orientation of Facilities
4. Hydrology (if applicable)
5. Hydraulic (if applicable)
6. Seismic
7. Existing Environmental Conditions
8. Others



PROGRAM OF WORKS

2. General Requirements

1. Permits and Fees
2. Overhead
3. Temporary Facilities and Controls
4. Equipment
5. Insurance
6. Bonds
7. Field Engineerings
8. Structural Test and Special Field Test
9. Management and Coordination
10. Construction Progress Documents
11. Temporary Construction Facilities and Controls
12. Utilities
13. Room Integrity Testing
14. Construction Waste Management
15. Product Requirements
16. Warranties and Bonds
17. Closeout Procedures
18. Operation and Maintenance Data
19. Functional Performance Testing (FPT) Coordination
20. Demonstration and Training
21. Environmental Management Plan
22. Shop Drawings for Approval, As-Built Plans for Occupancy Permit, Project Manual

HEALTH AND SAFETY

1. Environmental, Health and Safety Management
2. Others

PROGRAM OF WORKS

3. Site Work

1. Site Preparation
2. Selective Demolition & Clearing
3. Earthworks & Retaining Structures
4. Site Drainage + Dewatering
5. Concrete Curbs, Gutters and Paved Walks
6. Road and Parking (Pavement)
7. Site Electrical and Transformers
8. Site Water Supply & Service Entrance
9. Integrated Pest Management
10. Hardscaping
11. Soft Landscaping
12. Demobilization & Clearing
13. Building Layout
14. Top Soil Stripping and Re-Use
15. Excavation
16. Fill/ Backfill Compacted
17. Termite Treatment
18. Others

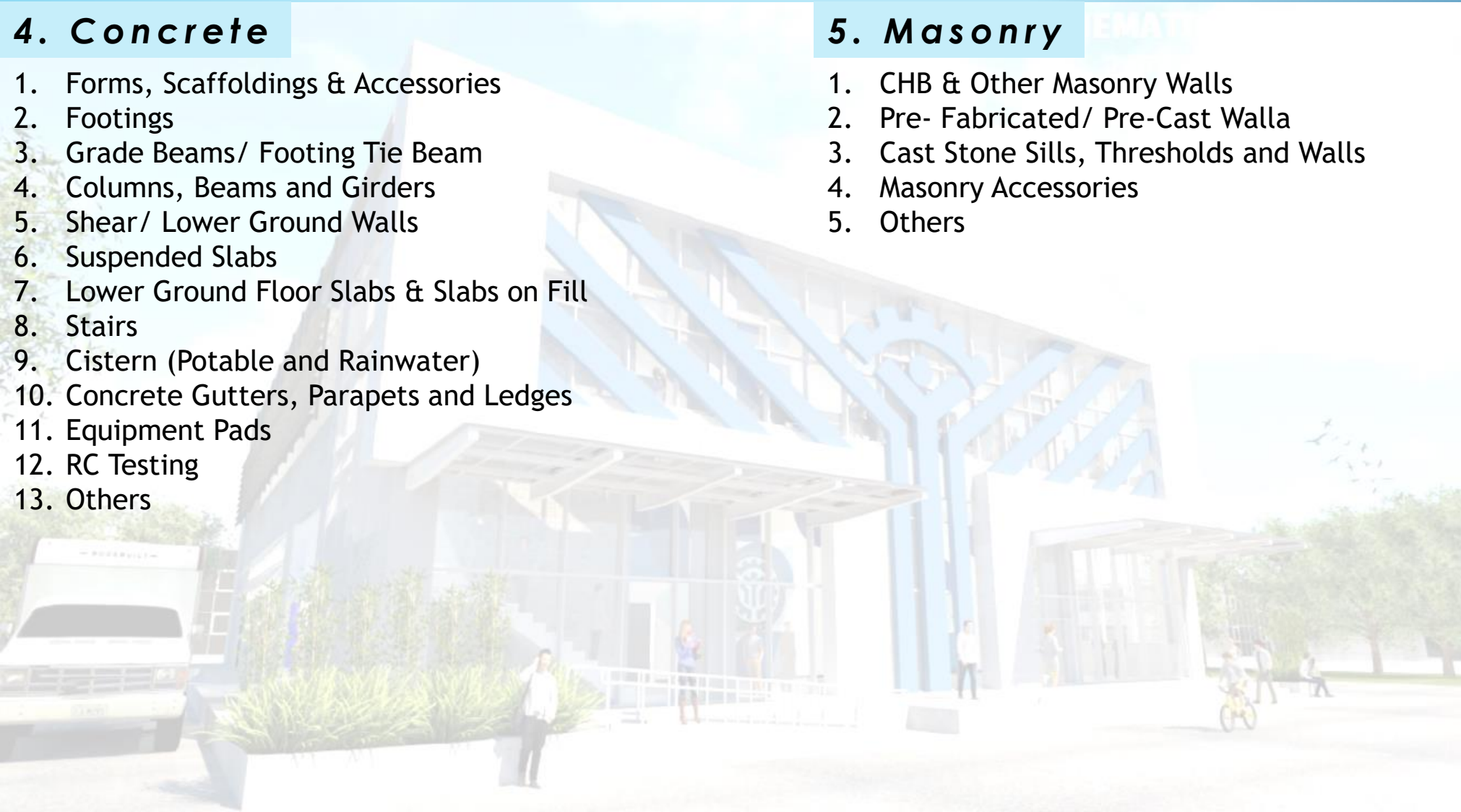
PROGRAM OF WORKS

4. Concrete

1. Forms, Scaffoldings & Accessories
2. Footings
3. Grade Beams/ Footing Tie Beam
4. Columns, Beams and Girders
5. Shear/ Lower Ground Walls
6. Suspended Slabs
7. Lower Ground Floor Slabs & Slabs on Fill
8. Stairs
9. Cistern (Potable and Rainwater)
10. Concrete Gutters, Parapets and Ledges
11. Equipment Pads
12. RC Testing
13. Others

5. Masonry

1. CHB & Other Masonry Walls
2. Pre- Fabricated/ Pre-Cast Walla
3. Cast Stone Sills, Thresholds and Walls
4. Masonry Accessories
5. Others



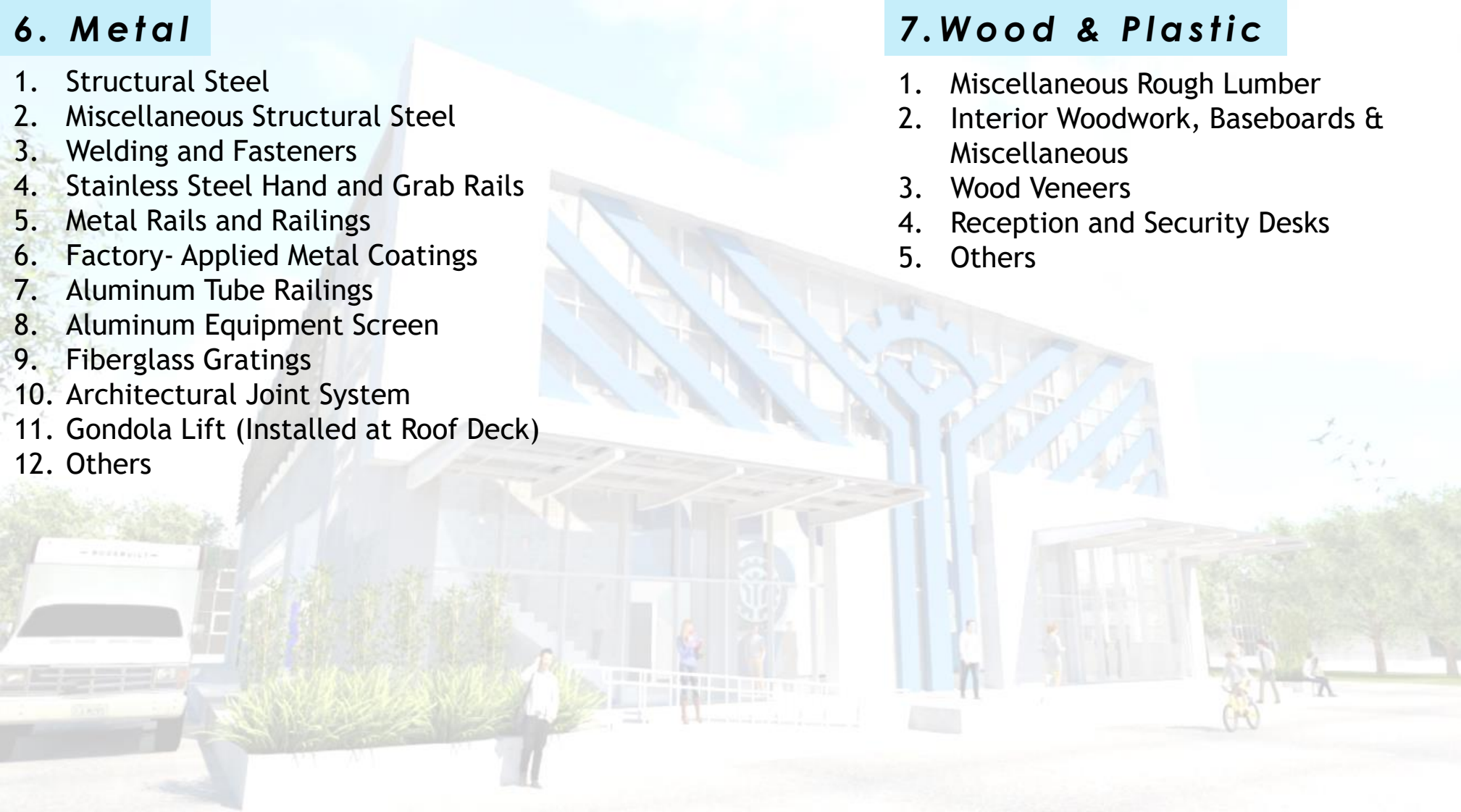
PROGRAM OF WORKS

6. Metal

1. Structural Steel
2. Miscellaneous Structural Steel
3. Welding and Fasteners
4. Stainless Steel Hand and Grab Rails
5. Metal Rails and Railings
6. Factory- Applied Metal Coatings
7. Aluminum Tube Railings
8. Aluminum Equipment Screen
9. Fiberglass Gratings
10. Architectural Joint System
11. Gondola Lift (Installed at Roof Deck)
12. Others

7. Wood & Plastic

1. Miscellaneous Rough Lumber
2. Interior Woodwork, Baseboards & Miscellaneous
3. Wood Veneers
4. Reception and Security Desks
5. Others



PROGRAM OF WORKS

8. *Thermal & Moisture Protection*

1. Slab, Deck and Gutter Waterproofing
2. Wall Waterproofing
3. Cistern Epoxy Waterproofing
4. Roofing Insulation, Double Sided
5. Roofing Materials and Accessories
6. Translucent Roofing- Glass
7. Sheet Metal Flashing and Trim
8. Sheet Metal Roofing
9. Exterior Metal Wall System
10. Sprayed- Fire Resistive Materials
11. Through- Penetration Firestop Systems
12. Fire- Resistive Joint Systems
13. Joint Sealants
14. Expansion Joint Covers



PROGRAM OF WORKS

9. Doors & Windows

1. Metal Doors and Windows
2. Metal Doors and Windows Frames
3. Roller Shutters with Pedestrian Access. See Material Specs for Packing/ Cold Facilities
4. Stainless Steel Frames
5. Custom Steel Doors and Frames
6. Interior Aluminum Frames
7. Frameless Glass Doors Tempered with Frosting
8. Flush Wood Doors
9. Access Doors and Frames
10. Overhead Coiling Doors
11. Aluminum Framed Entrances
12. Aluminum Windows
13. Hardware
14. Door Hardware
15. Finish Hardware
16. Automatic Door Operators
17. Glazing
18. Glazed Aluminum Curtain Walls
19. Windows & Doors Testing
20. Clear Coating - Anti-Heat Gain, UV Protection
21. Others

PROGRAM OF WORKS

10. Finishes

1. Plaster/ Plaster Walls
2. Off the Form Smooth Rubbed Ceiling Finish
3. Fiber Cement Ceiling on Light Gauge Metal Frame
4. Acoustic Ceiling Panels
5. Gypsum Wall Boards and FCS on Light Gauge Metal
6. Aluminum Composite Panels complete with Framing
7. Epoxy Flooring
8. Homogenous Granite Floor Tiles
9. Homogenous Granite Wall Tiles
10. Vapor Transmission Testing for Concrete
11. Concrete Floor Treatment (Polished Concrete)
12. Concrete Densifier and Sealer
13. Carpet Floor Tiles- at least 6mm thk.
14. Exterior Painting
15. Interior Painting, Varnishing & Accessories
16. Others



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ADB

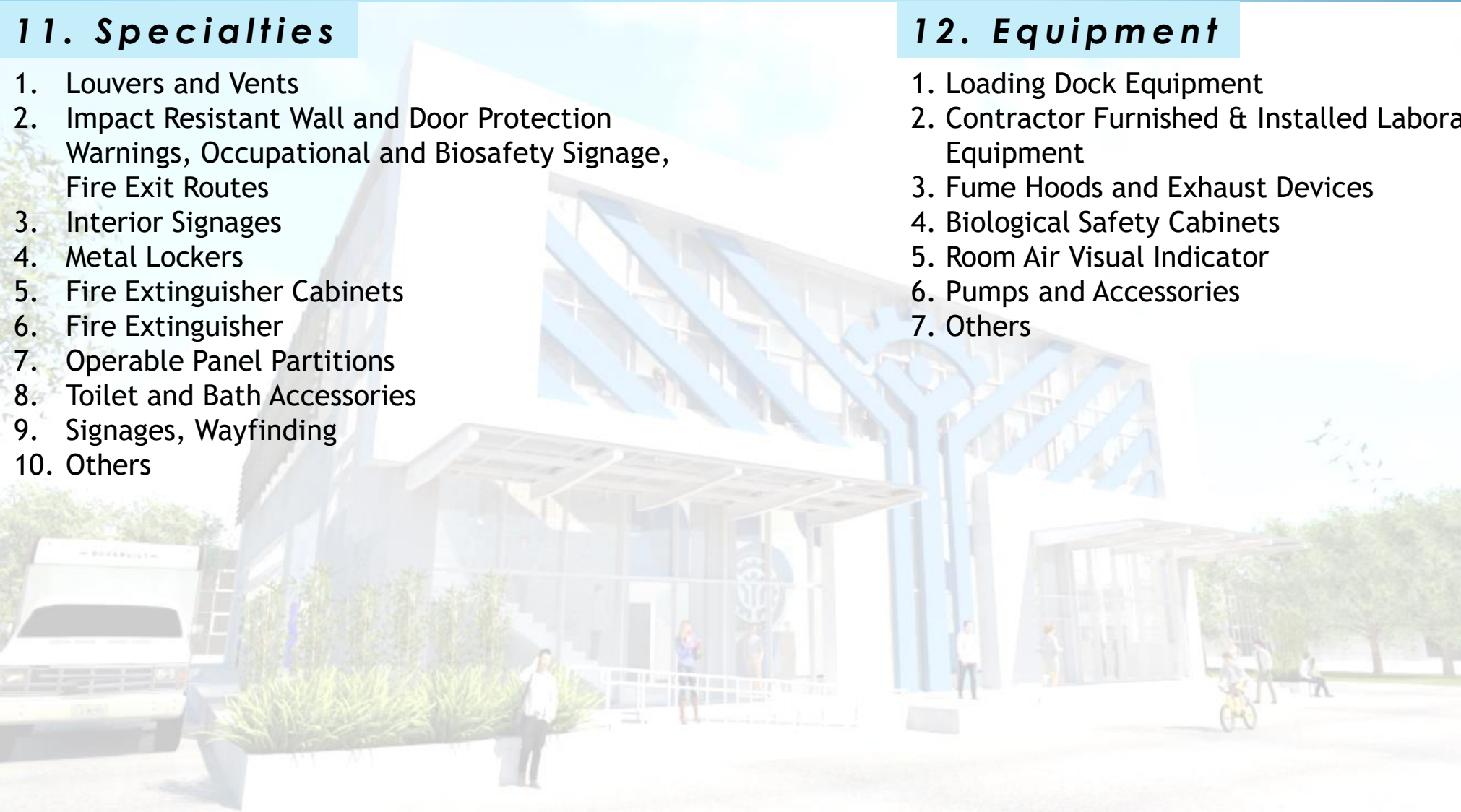
PROGRAM OF WORKS

11. Specialties

1. Louvers and Vents
2. Impact Resistant Wall and Door Protection
Warnings, Occupational and Biosafety Signage,
Fire Exit Routes
3. Interior Signages
4. Metal Lockers
5. Fire Extinguisher Cabinets
6. Fire Extinguisher
7. Operable Panel Partitions
8. Toilet and Bath Accessories
9. Signages, Wayfinding
10. Others

12. Equipment

1. Loading Dock Equipment
2. Contractor Furnished & Installed Laboratory
Equipment
3. Fume Hoods and Exhaust Devices
4. Biological Safety Cabinets
5. Room Air Visual Indicator
6. Pumps and Accessories
7. Others



PROGRAM OF WORKS

13. Furnishing

1. Window Treatment (Roller Blinds)
2. Restroom and Pantry Countertop (Quartz/ Solid Surface)
3. Furniture System/ Built-Ins Counters

14. Special Construction

1. Seismic Protection For Equipment

15. Conveying Equipment

1. Elevator/ Lift



PROGRAM OF WORKS

16. Mechanical/ Plumbing

SANITARY & STORM WATER SYSTEM

1. Plumbing Pipes and Fittings
2. Sanitary & Storm Drain Accessories
3. Plumbing Fixtures
4. Septic Tank/ STP
5. Plumbing Pipe Testing

DOMESTIC WATER SUPPLY

1. Pipes, Fittings & Individual Meters
2. Water Supply Accessories
3. Potable Water Supply Tanks
4. Rain Water Supply Tanks
5. Water Pipe Testing
6. Plumbing Fixtures and Trims
7. Drinking Fountain and Water Coolers
8. Others

FIRE PROTECTION SYSTEM

1. Complete Fire Standpipe System
2. Fire Water Supply Tanks
3. Fire Sprinklers
4. Fire Detection and Alarm System
5. Fire Pipe Testing
6. Others

VENTILATION SYSTEM

1. Ventilation System
2. Air conditioning System
3. Metal Ducts & Duct Accessories
4. Testing, Adjusting and Balancing

PROGRAM OF WORKS

17. Electrical & Auxiliary

1. Electrical Service Entrance
2. Overcurrent Protective Device Coordination
3. Grounding and Bonding
4. Lightning Protection
5. Electrical Testing
6. Hangers and Supports for Electrical Systems
7. Electrical Identification
8. Conductors and Cables
9. Raceways
10. Cable Trays
11. Lighting Control Devices
12. Generator (Emergency Power Supply) Silent Type, including housing/ enclosure complete with exhaust and padding.
13. Variable Frequency Controllers
14. Transient Voltage Suppression
15. Enclosed Switches and Circuit Breakers
16. Transfer Switches
17. Electrical Distribution System
18. Switchboards
19. Panel Boards
20. Enclosed Bus Assemblies
21. Low Voltage Transformers
22. Fuses
23. Interior LED Lighting Fixture & Accessories
24. Exterior LED Lighting Fixture & Accessories
25. Voice and Data Communications
26. Security Systems/ RFID
27. Fire Alarm
28. Public Address System
29. Telephone MTTC, Wiring & Devices
30. WIFI Wiring, Hub and Router
31. Data Rack/s
32. Lighting Protection System
33. Miscellaneous & Electrical Auxiliaries Testing
34. Energization
35. Others



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PROGRAM OF WORKS

18. Other items needed to complete the project

Qualification of Design and Build Contractor and Other Requirements where stipulated under Section 6: Employer's Requirements Item 10.

