

Specifications

DESCRIPTIONS/SPECIFICATIONS		<u>STATEMENT OF COMPLIANCE</u> (State "Comply or not Comply" for each item description and specifications and attach your company shop/drawing and or brochures / and or Literatures)
PR NO. 18-02-07-0035 – 1 LOT CONSTRUCTION OF OFFICE SPACE AT 2ND FLOOR ADMIN BLDG. EXTENSION		
1. REINFORCING STEEL BARS	1.1 All reinforcing bars shall be intermediate grade deformed bars, Fy=276 MPa.	
	1.2 All reinforcement shall be placed according to the approved drawings. The Contractor shall provide sufficient bar supports, ties, anchors and other accessories to hold all bars securely in place.	
	1.3 Bar supports and other accessories necessary to hold reinforcing bars in the proper position shall be provided while concrete is being poured.	
2. MASONRY WORKS	2.1 All masonry units shall be 100 mm x 200 mm x 400 mm; 4 cells concrete hollow blocks.	
	2.2 Masonry units shall have been cured for not less than 14 days if steam-cured, or 28 days if air cured-cured when placed in the structure.	
	2.3 Masonry unit shall be sound, dry, clean and free from cracks when placed in the structure.	
	2.4 Cement to be used for mortar and grout shall be Type 1, 2, 3 or Type 4 Portland Cement conforming to ASTM C-150.	
	2.5 Mortar shall be freshly prepared and uniformly mixed in the proportion of 1 part Portland Cement to 2 ½ parts minimum to 3 parts maximum damp loose sand. Any mortar which is unused after 1 ½ hours from the initial mixing time shall not be used.	
	2.6 Water to be used shall be fresh, clean and free from deleterious quantities of acids, alkali and organic materials.	
	2.7 All vertical and horizontal reinforcement shall be 10 mm ø deformed spaced at 600 mm on center. Reinforcement shall be clean and free from loose, rust, scales and any coatings that will reduced the bonds.	
	2.8 All surfaces to receive cement plaster shall be cleaned of all projections, dust, loose particles and bond breakers. Before any application is started, all surfaces that are to be plastered shall be wetted thoroughly with water to produce a uniformly moist condition.	
	2.9 Cement plaster shall not be applied directly to surfaces that had been painted or previously plastered. Cement plaster finish shall be true to details and plumbed.	
3. METAL WORKS	3.1 Steel spiral stair shall conform to the standard specifications as shown in the plan.	

	3.2 Welding works in shop and on field shall be done only by certified and experienced welder.	
	3.3 Surfaces to be welded shall be free from loose oxide, rust, grease, paint and other foreign materials that will impair the soundness of the weld.	
4. HARDWARE	4.1 The contractor shall provide all rough hardware required for the completion of the work, including nails, spikes, bolts, lag screw, etc., and shall provide and fit in the place all finishing hardware hereinafter specified-put on in the most improved manner with screws to match the finish.	
	4.2 The contractor shall provide and fit in place all hardware not herein specifically mentioned but necessary to leave the work complete.	
	4.3 All finishing hardware consisting of Aluminum Cladding, locksets, latches, bolts and other devices, door closers, door knobs, handles, hinges and other similar hardware shall be first class quality and available locally.	
5. WATERPROOFING	5.1 Concrete mixtures for gutters and basement to be integrally waterproofed shall be blended with waterproofing compound.	
	5.2 Concrete surface to be applied with membrane waterproofing shall have been integrally waterproofed, thoroughly set, dry, clean, and free from foreign matters.	
	5.3 Integral waterproofing compound shall be cementitious powder pre-mixed admixture or water base coat conforming with the standard Specifications set by the Bureau of Product Standards, Department of Trade Industry.	
	5.4 Membrane waterproofing shall be Osmo-seal powder, Liquid Elastomeric or Epoxy Solventless waterproofing compound formulated for extra flexibility and resiliency to give lasting waterproof effect.	
	5.5 Mixture shall be applied on the interior and exterior part of the surface by notched trowel, roller or paint brush and shall remain tight under condition of expansion, contraction and vibration of loads.	
	5.6 Two applications are recommended and each coat is allowed a minimum of 24 hours curing time between each coat or as recommended in the product manufacturer's instruction manual.	
6. PLUMBING	6.1 This item shall consist of furnishing all materials, tools, equipment and fixtures required as shown on the plans for the satisfactory of the entire plumbing system including installation in accordance with the latest edition of the National Plumbing Code, and this Specifications.	
	6.2 All fittings and trimmings for fixtures shall be chromium plated and polished brass.	
	6.3 Pipes and fittings for downspouts and sanitary shall be polyvinyl Chloride Pipes and Fittings of high quality brands	
7. ELECTRICAL	7.1 All electrical work shown in this plan shall be done in accordance with the provision of the latest edition of Philippine Electrical Code part I, part II and with the rules and regulations of the power utility company and of the city and its ordinances.	

	7.2 The type of work shall be done in RSC and PVC pipe Schedule 40, as indicated in the plan.		
	7.3 Conduit and equipment locations shown are indicated as accurately as possible. However, the contractor shall verify the exact locations by coordinating with other to insure proper installation.		
	7.4 Pull and/ or junction boxes shall be provided by the contractor whenever necessary to facilitate wire pulling although these boxes and holes were not shown in the plans nor mentioned in the specification.		
	7.5 All underground conduit runs shall be buried at a minimum of 60mm below ground level.		
	7.6 All materials to be used must be brand new free from defects and must pass with the bureau of standards.		
	7.7 Use Phelps Dodge or Columbia wires and cables for all wiring line THNN as specified on plan or any equivalent.		
	7.8 Use Panasonic or National for switches and convenience outlet as indicated and specified on plan or any approved equivalent.		
	7.9 All electrical installation herein must be done by skilled electrician and must be directly supervised by a duly licensed electrical engineer.		
8. STEEL DECKING	8.1 Steel Decking: // ASTM A653, Structural Quality // or // ASTM A1008, Grade C or D //.		
	8.2 Galvanizing: ASTM A653, // G90 // G60 //.		
	8.3 Welding Electrode: E60XX minimum.		
	8.4 Sheet Metal Accessories: ASTM A653, galvanized, unless noted otherwise. Provide accessories of every kind required to complete the installation of metal decking in the system shown. Finish sheet metal items to match deck including, but not limited to, the following items:		
	8.4 (a)	Metal Cover Plates: For end-abutting deck units, to close gaps at changes in deck direction, columns, walls and openings. Same quality as deck units but not less than 1.3 mm (18 gauge) sheet steel.	
	8.4 (b)	Continuous Sheet Metal Edging: At openings, concrete slab edges and roof deck edges. Same quality as deck units but not less than 1.3 mm (18 gauge) steel. Side and end closures supporting concrete and their attachment to supporting steel shall be designed by the manufacturer to safely support the wet weight of concrete and construction loads. The deflection of cantilever closures shall be limited to 3 mm (1/8 inch) maximum.	
	8.4 (c)	Ridge and Valley Plates: Provide 1.3 mm (18 gauge), minimum 100 mm (4 inch) wide ridge and valley plates where roof slope exceeds 40 mm per meter (1/2 inch per foot).	

	8.4 (d)	Cant Strips: Provide bent metal 45 degree leg cant strips where indicated on the Drawings. Fabricate cant strips from 1 mm (20 gauge) metal with a minimum 125 mm (5 inch) face width	
	8.4 (e)	Seat Angles for Deck: Provide where a beam does not frame into a column.	
	8.4 (f)	Sump Pans for Roof Drains: Fabricated from single piece of minimum 1.9 mm (14 gauge) galvanized sheet steel with level bottoms and sloping sides to direct water flow to drain, unless otherwise shown. Provide sump pans of adequate size to receive roof drains and with bearing flanges not less than 75 mm (3 inches) wide. Recess pans not less than 38 mm (1 1/2 inches) below roof deck surface, unless otherwise shown or required by.	
9. PAINTING WORKS	9.1	This section includes only interior walls, exterior walls and ceiling ground and 2 nd floor.	
	9.2	Use Boysen paints or Davies paints to all painting requirements.	
	9.3	All painting works shall be in proper preparation of surfaces in accordance of the approved specification given by the paint company.	
10. CEILING	10.1	Use metal furring and hanger for the ceiling framing.	
	10.2	Use 4' x 8' x 1/4" thick Marine Plywood for Ceiling.	
11. PARAFET/HEAD WALL CLADDING	11.1	Use aluminum cladding on metal frame for this work item.	
	11.2	Installation of aluminum cladding shall be installed as per plan.	

Note: Water and electricity will be provided by COWD (sub-meter).

