

PROJECT : SANDIGANBAYAN BUILDING
LOCATION : Commonwealth Avenue corner Batasan Road, Quezon
OWNER : SANDIGANBAYAN
IMPLEMENTING : PUBLIC ESTATES AUTHORITY
ARCHITECT : FELIPE M. MENDOZA AND PARTNERS
DATE : September 2, 1997

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PART 1

BIDDING AND CONTRACT REQUIREMENTS (DIVISION 00)

Division 00-201

Summary of Materials and Finishes

DIVISION 01 - GENERAL REQUIREMENTS

- 01 010 - SUMMARY OF WORK: All works of the project shall be properly monitored and reported to the Architect and the Owner. Work sequence shall be recorded.
- 01 030 - SPECIAL PROJECT PROCEDURES
- a. Alteration Procedures shall be properly documented. The Owner and Architect shall be informed. Changes shall occur only with the consent of the Owner. Changes not recorded will not be entertained if done.
- 01 040 - COORDINATION
- a. Project Coordination Meetings shall be conducted in site with the respective representatives. Consult representatives at least one week before scheduled coordination. The Agenda and Minutes shall be taken up and recorded with the attached attendance sheet.
- b. Pre-construction Conferences shall be well represented and attended.
- 01 050 - FIELD ENGINEERING: Grades, lines and levels shall be discussed and approved. Discrepancies shall be forwarded to the Architect for proper implementation of levels.
- 01 060 - REGULATORY REQUIREMENTS: Building Codes, Mechanical Codes, Electrical Codes and all governing Codes shall be complied with.
- 01 300 - SUBMITTALS: Construction schedules, Progress reports, Shop Drawings, Construction Photographs and the like shall be transmitted to the Owner and Architect. Refer to General Conditions (UAP Document 301) for proper submittals.
- 01 400 - QUALITY CONTROL: Results of testing laboratory services shall be transmitted to the Architect for proper evaluation and recorded.
- 01 500 - CONSTRUCTION FACILITIES AND TEMPORARY UTILITIES

Temporary Utilities Temporary electricity, lighting, telephone services, water, sanitary facilities, first aid facilities and fire protection shall be supplied on site.

Security Protection of work and activity shall be guarded. Provide temporary G.I. fence or similar enclosure shall be used for site protection.

Project Identification and Signs Provide proper project identification and signs for the construction site. Submit layout for approval by the Owner and the Architect.

Field Offices and Sheds Ample space shall be provided to conduct coordination meetings on site.

Testing, Adjusting and Balancing of Systems All tests shall be taken and reported. Proper adjustments shall be taken with the consent of the Consultants, Architect and Owner.

Contract Closeout The project site shall be clean and cleared before acceptance. A punchlist shall be prepared by the Architect with the Owner and Contractor representatives. Project record documents shall be properly bound and submitted.

DIVISION 02 - SITE WORK

02 050 - DEMOLITION

- a. The Contractor must provide adequate safety precautions, signages or installations to prevent damage to persons or property or utility lines passing through the site work.
- b.

02 100 - SITE PREPARATION

- a. Remove and relocate structures, remove above grade and below grade improvements, remove growth and vegetation and all other debris or garbage at the site. Include stripping of sod.

02 200 - EARTHWORK

- a. Borrow materials - selected, approved materials meeting the definition of pitrun sand and gravel.
- b. Backfill materials - free of stones larger than 50 mm roots and organic materials.
- c. Soil Treatment/Termite Control and Rodent Control:
Use the following distributed by "MAPECON Phils. Inc.":
 - 1) Use Termite Proofing Work (TPW) with a ratio of 1 gallon : 1 drum for soil treatment of new construction.
 - 2) Use F3D with a ratio of 1 gallon : 1 drum for termites.
 - 3) Use Household Insecticide (HI) for cockroaches.
 - 4) Use Encapsulated Zinc Phosphate (EZP) for rodents.
 - 5) Use F3 Powder for maintenance for contamination of termites.
 - 6) Use HIRTU (HI Ready-to-Use) with a ratio of 1 bottle (60 cc) : 1 liter of diesel for mosquitos and cockroaches by the use of the fogging machine.Commence soil poisoning work only when ground and gravel bed have been prepared prior to pouring of concrete and when area is substantially dry.

02 400 - SITE DRAINAGE

- a. Drainage structures, pipes and fittings shall be as indicated in Sanitary plans.
- b. Catch basins shall be as indicated in plans, covers as manufactured by ACRO Metals or APPROVED EQUIVALENT.

02 440 - SITE IMPROVEMENTS

- a. Masonry fence as designed. Refer to Div. 03: Concrete for more specifications.
- b. Fence grillwork and gate as manufactured by ACRO Metals, Metma Trading and Industrial Corporation, HD Steel construction or APPROVED EQUIVALENT. Submit shop drawings for approval before fabrication and installation.
- c. Soil treatment, termite control, rodent control must be performed by the Contractor or Specialty Trade Supplier. Refer to 02 200: Earthwork.

02 480 - LANDSCAPING - Provide adequate garden soil of at least 300 mm in depth ready for planting. Soil must be free from debris accumulated during construction. Adequate hose bibbs must be provided. Refer to Sanitary plans and verify if not indicated in plans.

02 500 - PAVING AND SURFACING

- a. 17.22 Mpa (2,500 psi) concrete for all walkways, ramps, sidewalks, concrete curbs and gutters with 2,500 psi.
- b. 21.00 Mpa (3,000 psi) concrete for all roadways and parking.
- c. Provide carborundum strips for stairs to prevent slipping. Submit sample for architect's

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approval before installation.

- d. Use plain cement with floor hardener for ramp for the disabled. Provide carborundum strips to prevent slipping. Submit shop drawings for approval.
- e. Car park shall be with floor hardener. Refer to Div. 03:300 Concrete Cast-In Place.
- f. All concrete curbs shall be with minimum radius as indicated in plans. All curbs shall be 100 mm high from finish elevation of road.
- g. Use epoxy based reflective paints for all pavement markings: parking slots, directional arrows, curbs, numbers and or names, all identifying markers.

02 600 - PIPED UTILITY MATERIALS AND METHODS

- a. Manholes and cleanouts shall be as specified in the Sanitary plans. Refer to Division 15: Sanitary/Plumbing and Air-Conditioning.
- b. All pipes and fittings shall be as indicated in Sanitary/Mechanical plans. Refer to Division 15: Sanitary/Plumbing and Air-Conditioning.
- c. Refer to plans for concrete pipes size and type used. Verify depth of pipes from ground line to ease flow of drain.

02 700 - PIPED UTILITIES

- a. Refer to plans and Div. 13.410: Sanitary/Plumbing and Air-Conditioning for proper specifications for gas tank storage and piping.
- b. Refer to plans and Div. 15.400: Sanitary/Plumbing and Air-Conditioning for proper specifications for water systems. Refer to Architectural plans for location of water tank/cistern.
- c. Refer to plans and Div. 15.400: Sanitary/Plumbing and Air-Conditioning for proper specifications for Storm and Sanitary Sewerage Systems.
- d. Septic Tanks - Use 150 mm CHB walls with reinforcements as indicated in Structural plans with concrete base. Refer to structural plans for reinforced concrete walls.
- e. Fuel and Gas Tanks - Gas tank shall be stored outside the building (see plans for exact location) that is immediately exposed through air but shall be protected and secured at all times. Refer to Mechanical plans for pipe used and size.
- f. Water Tank - Refer to Sanitary plans for exact location. Submit brochure of tank for approval of engineer.
- g. Cistern - Refer to Structural plans for design and size. Provide waterproofing as indicated in Division 7: Thermal and Moisture Protection.

Submit shop drawing of all tanks and its support for approval of the Engineer prior to fabrication and installation.

02 800 - POWER AND COMMUNICATION UTILITIES

Refer to Structural plans for detail of service entrance. Always coordinate with in house electrician before execution of work. Refer to electrical plans for Power, Lighting and Telephone circuits. *Verify location of switches and outlets with Project Manager or owner's representative before installation.*

DIVISION 03 - CONCRETE

NOTE: Refer to Structural plans and General Construction Notes (see S-1) to confirm all values. Bevel all exposed concrete edges and corners 20mm wide.

03 100 - CONCRETE FORMWORK

- a. Use 50 x 75 mm and 50 x 100 mm form lumber respectively.
- b. Use 12.5 mm thick form plywood for all concrete work exposed to view.

03 200 - CONCRETE REINFORCEMENT

- a. All structural works shall be executed in accordance with the National Structural Code for Buildings (NSCB) Volume II, 1992. The document ACI-317-83 for reinforced concrete supplements the NSCB.
 - b. Material Strength
 - Concrete f_c' = 4,000 psi for all structural members & structural RC walls
3,000 psi for slab on fill and architectural RC walls
 - Steel Rebars f_y' = 40,000 psi for 12 mm diameter bars and smaller
= 60,000 psi for 16 mm diameter bars and bigger
- Design Live Load = Refer to structural plans and computation.

03 300 - CAST-IN-PLACE CONCRETE

- a. 4,000 psi for conventional concrete of all substructures and superstructures.
- b. 3,000 psi for partition walls, curtain walls, slab on fill and curbs and gutters.
- c. Concrete Retarder - Use "Conplast RP264" by "Fosroc Philippines" or approved Equivalent.
- d. Concrete Bonding Agent - Use Davco L-Bond SBR as distributed by Chem-Kalz or approved Equivalent, for bonding old and new concrete.
- e. Concrete Floor Hardener - Use Davco Duramite Dry as distributed by Chem-Kalz or approved equivalent. Verify Architect for approved color scheme.
- f. Concrete Sealant - Use Davco Lapflex PS as distributed by Chem-Kalz or approved equivalent cement-based compound for sealing leaks/seepages through concrete or masonry walls and floors.
- g. Concrete Waterstops - Use "Supercast PVC" Waterstop by "Fosroc Philippines" or approved equivalent for concrete slab expansion joints. Submit sample section for approval.
- h. Aggregates - Gravel - well graded, clean, hard particles of gravel or crushed rocks 38 mm (1-1/2") maximum for slab and 20 mm (3/4") maximum for columns and beams.
- i. Sand - clean, washed sand.
- j. Cement - Portland cement by "Republic", "Hi-Cement", "Filipinas", "Island", "Rizal", or approved equivalent.

03 350 - SPECIAL CONCRETE FINISHES


Use 10mm decorative cement/lattice board on concrete ledge and designated rooms by Jardine Davies. Refer to architectural details.

03 600 - GROUT

- a. Use "ABC Tile Grout" as ceramic joint filler as manufactured by Allgemeine-Bau-Chemie Phil., Inc. or colored "DAVCO Tile Grout SAC 20" as Distributed by Chem-Kalz. Submit sample color of grout with approved tile by owner and architect.

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DIVISION 04 - MASONRY

NOTE: Refer to Structural Plans and General Construction Notes to confirm all values. Plaster all exposed masonry. Bevel all exposed edges and corners 20mm wide.

04 100 - MORTAR

- a. Refer to table on the Quantity of Cement and Sand for CHB Mortar per Square Meter as follows:

Size of CHB	Cement in Bags (40 kg.)	Sand in Cubic Meters
100 mm	0.525	0.04375
150 mm	1:013	0.08438

- b. Sand, Cement - same as specifications of Section 03 300.

04 150 - MASONRY ACCESSORIES

- a. Use # 16 G.I. tie wires.
b. Use 10 mm diameter deformed steel structural grade reinforcement bar at 800mm linear interval for vertical reinforcements and at every three (3) layers of CHB for horizontal reinforcements.

04 200 - UNIT MASONRY

- a. Concrete hollow blocks machine-made, 5.2 MPa (750 psi) for load bearing, 2.6 MPa (350 psi) for non-load bearing. Use 150 mm thick CHB for exterior walls and 100 mm thick CHB for interior walls. Plastered and painted finish unless otherwise specified in plans.
b. Sand, Cement - same as specifications of Section 03 300.
c. Apply cement plaster on all masonry and R.C. walls including surfaces hidden by dropped ceilings.

04 400 - STONE

- a. Granite - use 19mm thick high grade "Blue Pearl GT" granite slabs as distributed by or "Pritt Marketing" or "CITE Trading". Submit cut polished sample for approval before installation.
b. All Granite stones delivered on site shall be wet polished on all exposed surface and edges, unless specified to be flame or thermal finish.
c. All Granite stones for walls shall be anchored to concrete surface using angle bars, cramps and dowels. All made of type 304 stainless steel or suitable non-ferrous metal. *Relying on adhesives alone for anchoring will not be allowed.*
d. Fill cavity between concrete surface and back of granite with mortar up to 1500mm high from finish floor line to prevent breakage of panel.
e. Maximum cut size of slabs will have a width of 1200mm and a height of 2400mm. Minimum size shall be 1200mm square.
f. Maximum unsupported length of slab shall be 300mm horizontally and 600mm vertically.
g. Use stainless steel anchor bolts to fasten cramps to surface of poured structural concrete. Provide stainless steel framing for surfaces made of masonry units that will be clad with granite. Fill cavity as recommended.
h. Submit shop drawings of cladding system use and submit sample section of angle bars, cramps, anchor bolts and other anchoring devices used for Engineers approval before installation.
i. All joints shall be sealed with a special silicon granite sealant with the same color of the stone.. After installation, all stone shall be polished and cleaned removing all dirt, excess mortar, stain and other defacements on all surfaces and edges. *Wire brushes and acid solutions are strictly prohibited for cleaning as to prevent scratching and discoloration of stones.*

DIVISION 05 - METALS

NOTE: Refer to Structural Plans and General Construction Notes to confirm all values. All exposed metals or steel shall be painted as indicated in Division 9.900 except for steel cast inside concrete and stainless steel finishes.

05 010 - METAL MATERIALS AND METHODS

- a. Use 16 mm square bar supports spaced at every 400mm interval by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT. Refer to Stair Details: Architectural and Structural.
- b. Use 50 mm diameter Stainless Steel Pipe Handrail by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or approved equivalent. Submit sample section for architect's approval before fabrication and installation. Refer to Architectural plans for details.
- c. Use 16 mm diameter plain bar spaced at every 300 mm for ladder rung by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT. Provide steel handle for grip. Submit shop drawings for architect's approval before fabrication and installation.
- d. Submit samples of steel hangers and pipe supports for Engineer's approval before fabrication and installation.
- e. Use 12 mm diameter dowels by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT, fully welded to support handrail. Refer to stair details: Architectural and structural.
- f. Use 16 mm square bar supports at ever 150 MM and 900mm respectively by by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT. Refer to stair details: Architectural and structural.
- g. Use 10 mm diameter vertical steel bars by by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT. Refer to stair details: Architectural and structural.
- h. Use 6 x 25 mm flat bar plate by by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT. Refer to stair details: Architectural and structural.
- i. Use 16 x 45 mm Brass nosing welded to 6 mm diameter bars by Acetylene by by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT. Refer to Stair details: Architectural and structural. Submit sample for architect's approval.
- j. Use 37 mm diameter stainless steel railing for Fire Escape stairs by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT. Refer to stair details: Architectural and structural.
- k. Use 4.5 mm checkered plates fully welded on 4.5 x 38 x 38 angle bars with 6 mm bent plates for stringers by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT. Refer to stair details: Architectural and structural. Submit shop drawings before fabrication and installation.
- l. Use 40 mm diameter stainless steel pipe handrail by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT. Submit sample section for architects approval before fabrication and installation. Refer to architectural stair details.
- m. Use 16-mm diameter plain bar spaced at every 300 mm for ladder rung by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT. Provide stainless steel handle grip. Submit shop drawing for architects approval before fabrication and installation.
- n. Use 4 mm thick 75 x 75 angle bars for perimeter fence with 19 mm solid square bars for support by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT. Submit shop drawing for architect's approval before fabrication and installation.
- o. Submit sample of steel hangers and pipe supports for engineer's approval before fabrication and installation.
- p. Use spiral steel stair as manufactured by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT. Refer to stair details.
- ✓ q. Use Wrought Iron Grills for balcony, railing, gate, sliding door and as specified in plans as fabricated and installed by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT. Submit shop drawing for architect's approval before fabrication and

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installation.

05 100 - STRUCTURAL METAL FRAMING

- a. All structural steel shapes shall be ASTM A 36 structural steel unless otherwise indicated. Refer to structural plans.
- b. Steel trusses and steel purlins - by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or its approved equivalent. Submit shop drawings for approval before execution. Confirm and Verify length span of trusses before fabrication and installation
- c. Granite Framing - Use 3mm thick stainless steel angular framing for granite cladding firmly anchored to concrete. Submit sample section for approval or engineer.
- d. Interior Wall framing - Use 0.8mm thick, 32 x 76mm G.I. metals for low partition and 32mm x 92mm G.I. metals for enclosing partition (or as specified in the drawings) for studs and track as manufactured by "JEA Steel Industries". Provide vertical studs spaced at 400mm on center, *and horizontal* studs spaced at 800mm high on center. Submit sample section for approval and provide shop drawing before installation.

05 500 - METAL FABRICATIONS - Refer to Div 05 010: Metal Materials and Methods.

- a. Metal grates for trenches and catch basins by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT. Refer to Sanitary plans for location of trenches and catch basins. Submit shop drawings for approval before fabrication and installation.
- b. Metal Railings for stair and balconies by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT. Refer to stair details for sizes of bars and supports. Submit shop drawing and sample section for approval before fabrication and installation.

05 900 - METAL FINISHES

- a. Provide two (2) coats of Red Oxide Metal Primer by "Davies" on all air exposed steel members before and after installation as directed under Division 9.900.

DIVISION 06 - WOOD AND PLASTICS

06 100 - ROUGH CARPENTRY

- a. Lumber - Pressure Treated saba lumber for all concealed rough carpentry works as distributed by "Sta. Clara" or APPROVED EQUIVALENT. Refer to architectural plans and details.
- b. Plywood - 6 and 12 mm thick "Picop" tanguile plywood as distributed by "Sta. Clara" or APPROVED EQUIVALENT. Refer to architectural plans.

06 200 - FINISH CARPENTRY

- a. Lumber - Pressure treated apitong lumber for all hidden framing of closets, cabinets, counters, etc. as distributed by "Sta. Clara" or APPROVED EQUIVALENT. Refer to architectural plans.
- b. Plywood - 6 and 12 mm thick "Picop" tanguile or lawan plywood as distributed by "Sta. Clara" or APPROVED EQUIVALENT. Refer to architectural plans.
- c. Plywood - 6 and 12 mm thick "Marine" plywood as distributed by "Sta. Clara" or APPROVED EQUIVALENT. Refer to architectural plans.

06 300 - WOOD TREATMENT: Refer to Div. 06-200: Finish Carpentry, and Division 9.900: Painting.

- a. All plywood shall be "Picop" Brand of "Marine" Tanguile or Lawan as distributed by "Sta. Clara" or APPROVED EQUIVALENT. Refer to architectural plans.
- b. All lumber shall be pressure treated tanguile, apitong, lawan or saba as distributed by "Sta. Clara" or APPROVED EQUIVALENT. Refer to architectural plans.

06 400 - ARCHITECTURAL WOODWORK: Refer to Div. 06-200: Finish Carpentry and 06-300: Wood Treatment.

- a. Lumber - kiln-dried apitong as distributed by "A & C", "Sta. Clara" or APPROVED EQUIVALENT for all hidden framing or closets. Refer to architectural plans.
- b. Wood mouldings and cornices by "Delta Wood Products Corp." or approved equivalent in Ducco paint finish. Submit painted sample sections for architect's approval prior to purchase and installation. Refer to architectural plans.
- c. Wood railings will be from pressure treated apitong fabricated by "PC San Juan Wood Works", "AE Cruz Woodworks" or approved equivalent. Refer to architectural plans. Submit sample section for approval before fabrication and installation.
- d. Use "ABC Joint Compound" for filler by Allgemeine-Bau-Chemie Phil., Inc.

06 600 - PLASTIC FABRICATIONS

Use 4.5 mm thick diamond prismatic diffuser or 20 mm thick square eggcrate diffuser as distributed or manufactured by Lighting Fixture Manufacturer or MODERN PLASTIC or approved equivalent.

Also Refer to Division 16: Electrical for any plastics used in Diffusers and light troughs.

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

07 100 - WATERPROOFING MATERIALS

- a. Roof Decks - use "Nitroproof 600" as installed and manufactured by "FOSROC Philippines". Apply elastomeric membrane 1.3mm thick with two (2) inch reinforced concrete topping sloping towards drain; or use "Davco SOVACRYL" Cementitious waterproofing in 5 coats along surface and 300 mm high along perimeter sides of walls, with fiberglass wire mesh and appropriate concrete topping, as installed and distributed by "Chem-Kalz". *Waterproofing work shall be guaranteed to last five (5) years.*
- b. Media Agua, Gutters - use "Nitroproof RS" as manufactured by "FOSROC Philippines". Apply acrylic membrane 40 mills over surface and 300mm high along perimeter sides, or use "Davco SOVACRYL" Cementitious waterproofing in 2 coats along surface and 300 mm high along perimeter sides of walls, as installed and distributed by "Chem-Kalz".
- c. Toilets - use "Brushbond" as installed and manufactured by "FOSROC Philippines"; or use "Davco HEYDI K11 Flex" as installed and distributed by "Chem-Kalz". Apply cementitious coating 1 mm thick along surface and 300mm high along perimeter sides before tilework. *Waterproofing work shall be guaranteed to last five (5) years.*
- d. Cistern - use "Brushbond" as installed and manufactured by "FOSROC Philippines"; or use "Davco HEYDI K11 Flex" as installed and distributed by "Chem-Kalz". Apply cementitious coating 1 mm thick along interior surface and perimeter sides before tilework. *Waterproofing work shall be guaranteed to last five (5) years.*

07 150 - DAMPROOFING

Vapor/Moisture Barrier - Use "Barry Film", two layers of 0.152 mm (6 mils) thick per layer for all slabs on fill (Ground Floor slab).

07 200 - INSULATION

Use Polyisocyanurate (P.I.R.) foam insulation 50mm thick by DONG SHIN as pre-insulation together with roof by DN Steel.

07 400 - PREFORMED ROOFING AND SIDING

- a. Use ULTRA PANEL P.I.R. Pre-insulated panel .60mm thick pre-painted color sheet long-span Aluminum Zinc Alloy roof with 50mm P.I.R. foam insulation by "DN Steel Roofing", hard temper .0.60mm thick 80 ksi yield strength. Verify color with Architect before actual purchase.
- b. Use 0.60mm thick (base metal) plain pre-painted G.I. Sheets for Flashing and Counter Flashing by specified roof manufacturer.
- c. Supply necessary fasteners and accessories to complete the work.

Steel - wafer teks #10 x 16 mm
Wood - flat head nail #10 x 3/4"

07 900 - JOINT SEALANTS

- a. Silicone Sealant - use any brand made in the U.S.A. for use in sealing joints between aluminum window frames and concrete walls, lavatories, countertops / splash boards, toilet sliding door partitions, etc. Submit brochure for approval.

DIVISION 08 - DOORS AND WINDOWS

08 100 - METAL DOORS AND FRAMES

- a. Steel doors (Full Flush or Full Louver or as indicated in schedule of doors) - Three (3) hour fire rated steel door either single or double leaf; by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT. Submit shop drawings for approval before fabrication and installation.
- b. Aluminum Doors and Frames - fabricated by "Ajax Aluminum Industries" or APPROVED EQUIVALENT in powder coat finish with color shaded glass. See schedule of doors. Submit shop drawings for approval before fabrication and installation. Verify color with architect and owner.

08 200 - WOOD AND PLASTIC DOORS

- a. Flush Hollow Core Doors - with 6 mm thick marine plywood on both sides or as indicated in schedule of doors fabricated by "P.C.S.J. Wood-Metal Works and Construction" or APPROVED EQUIVALENT.
- b. Louver Doors - full louver or half louver wood door with louver blades from 19 mm x 50 mm KD tanguile, 19 mm x 50 mm KD tanguile edging and 50 mm x 100 mm KD tanguile frame fabricated by "P.C.S.J. Wood-Metal Works and Construction" or APPROVED EQUIVALENT. See schedule of doors and windows.
- c. Panel Doors - fabricated by "P.C.S.J. Wood-Metal Works and Construction" or APPROVED EQUIVALENT. Submit shop drawings for approval before fabrication and installation. See schedule of doors and windows.
- d. Toilet Bar Doors - use PVC toilet bar doors as manufactured by "NELTEX". Refer to Schedule of Doors. Submit shop drawing for approval before fabrication and installation.

08 400 - ENTRANCES AND STOREFRONTS

- a. Aluminum Entrance Doors (double swing or sliding as indicated in the schedule of doors) - powder coated finish as manufactured "Ajax Aluminum Industries" with color shaded glass. Verify color with architect and owner.

08 500 - METAL WINDOWS

- a. Steel Casement and Awning Windows - as fabricated by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT. Painted same color as aluminum windows with color shaded glass. Submit shop drawings for approval before fabrication and implementation. Verify color with architect and owner.
- b. Fixed Steel Louvers - fabricated by ACRO Metals, H.D. Steel, B.F. Metals, LEC Steel or APPROVED EQUIVALENT. Submit shop drawings for approval before fabrication and implementation. Painted as indicated in Division 9.900. Verify color with architect and owner.
- c. Fixed Glass Windows on Aluminum Frame - powder coat finish; as manufactured by "Ajax Aluminum Industries" or APPROVED EQUIVALENT. Use color shaded glass. Submit shop drawings for approval before fabrication and implementation. Verify approved color scheme with architect and owner.
- d. Fixed and Sliding Windows on Aluminum Frame - powder coat finish; as manufactured by "Ajax Aluminum Industries" or APPROVED EQUIVALENT with color shaded glass. Submit shop drawings for approval before fabrication and implementation. Verify color scheme with architect and owner.

08 700 - HARDWARE

Refer to Schedule of doors and Windows. Submit samples and/or brochures for architect's
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approval before fabrication and installation.

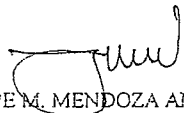
- a. Lockset - by "Schlage" distributed by Norton and Harrison. . Submit samples for Architect's approval before fabrication and installation. Refer to Schedule of Doors for actual Model type and Code.
- b. Door Closer by "LCN" distributed by Norton and Harrison, or "Ryobi Series 7000" distributed by Tamsons Enterprises. Submit samples for architect's approval before fabrication and installation. Refer to Schedule of Doors for actual Model type and Code.
- c. Extension Flush Bolt - Use "Ryobi" Hardware for aluminum, steel doors and wooden doors distributed by Tamsons Enterprises. Submit sample and/or shop drawings for approval before fabrication and installation.
- d. Top and Bottom Striker - Use "Ryobi" Hardware for aluminum, steel doors and wooden doors distributed by Tamsons Enterprises. Submit sample and/or shop drawings for approval before fabrication and installation.
- e. Top latch - Use "Ryobi" Hardware for aluminum, steel doors and wooden doors distributed by Tamsons Enterprises. Submit sample and/or shop drawings for approval before fabrication and installation.
- f. Door Stopper and Holder - Use "Ryobi" Hardware for aluminum, steel doors and wooden doors distributed by Tamsons Enterprises. Submit sample and/or shop drawings for approval before fabrication and installation.
- g. Panic Device - by "Von Duprin" Series 99 distributed by Maxinter or by Norton and Harrison. . Submit samples for architect's approval before fabrication and installation.
- h. Hinges - by "Hager" for wood doors or "BF Metals" for steel doors. Submit samples for architect's approval before fabrication and installation.
- i. Deadbolt - by "Schlage". Submit samples for architect's approval before fabrication and installation.
- j. Foot and head bolts - by "Hager". Submit samples for architect's approval before fabrication and installation.
- k. Door Stopper - Submit samples and/or brochures for architect's approval before fabrication and installation.
- l. Door Silencer - Submit samples and/or brochures for architect's approval before fabrication and installation.
- m. Door Handle - by "Schlage". Submit samples for architect's approval before fabrication and installation.
- n. Weather stripping and seals - by "NELTEX". Submit samples for architect's approval before fabrication and installation.
- o. Thresholds - Use "BF" Ex-F extruded aluminum threshold (fluted). Submit for architect's approval before fabrication and installation.

08 800 - GLAZING

- a. Glass Door - use 6 mm thick color shaded glass for awning windows as indicated in the schedule of doors and windows. Submit shop drawings/sample for approval before fabrication and installation. Verify color scheme with architect and owner.
- b. Glass Window - use 6 mm thick color shaded glass for doors and windows as indicated in schedule of doors and windows and miscellaneous details by Ajax Aluminum Fabricators. Submit sample for approval before fabrication and installation. *For windows marked 1,2,58 or window panels exceeding 2100mm for either width or length, use 8mm thick clear glass with LLUMAR professional grade metallized deluxe window film XD30GNSRPS or approved equivalent. Verify color scheme with architect and owner.*
- c. Mirror Glass - use 6 mm thick beveled facial mirror glass on 6 mm plywood backing with felt paper with aluminum frame by Ajax Aluminum Fabricators. Submit sample for approval before fabrication and installation.

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DIVISION 09 - FINISHES

09 100 - METAL SUPPORT SYSTEMS

- a. Ceiling Suspension System - Use 19 x 50 mm metal furring and 12mm x 38mm metal carrying channel, all by JEA Steel Industries" or APPROVED EQUIVALENT. Submit sample for Architects approval.
- b. Acoustical Suspension System - Oven baked, pre-painted G.I. "L" and "T" runners - use the exposed grid system by "EXELCON Pacific" or or APPROVED EQUIVALENT. Submit sample for Architects approval.

09 230 - AGGREGATE COATINGS

- a. Pea Gravel Washout - clean, graded pebbles as per sample approved by the Architect.
- b. Provide Carborandum strips for concrete stairs. Submit sample for architect's approval before installation.

09 300 - TILE

- a. Ceramic Tile - by Lepanto Tiles Manufacturing, Inc. Submit samples for approval of color and type before installation.

Vitrified Floor Tiles	-	450 x 450 mm for main lobbies/court rooms
		200 x 200 mm for toilets and showers
		300 x 300 mm as indicated in plans
Non Skid Vitrified Floor Tiles	-	300 x 300 mm as indicated in plans
Glazed Wall Tiles	-	200 x 200 mm for toilet and showers
Vitrified Tiles	-	200 x 200 mm for Counter tops
Baseboard Tiles	-	200 x 200 mm inside toilets and showers

Use Premium Color Tile for Lobbies, Courtrooms, Judges toilets, Directors Toilets, Chairman's Toilet and as specified in plans.

- b. Tile Adhesive/Grout - use "ABC Tile Adhesive/Grout" as manufactured by "Allgemeine-Bau-Chemie Phil., Inc."
- c. Use Tile trim for toilet tile by HOMELUX or approved equivalent. Submit sample for approval.
- d. Use 450 x 450 mm GRANITO Homogeneous Tiles for lobby, elevator entrances, court rooms and as specified in plan by Lepanto Tiles Manufacturing, Inc. Submit sample for architects approval prior to installation.

09 500 - ACOUSTICAL TREATMENT

- a. Acoustical Ceiling - use 12mm thick moisture resistant gypsum boards as distributed by "JEA Steel Industries" or APPROVED EQUIVALENT. Submit sample for approval.
- b. Acoustical Panels - use 600 x 1200 x 16 mm "Baroque" Perforated acoustical boards of "Celotex" brand -USA by "EXELCON Pacific". Submit sample for approval before installation.
- c. Refer to 09 100: Metal Support Systems for Metal Ceiling Systems. Submit sample section of "T" and "L" runners for approval before fabrication and installation.

09 650 - RESILIENT FLOORING

- a. Vinyl Floor Tiles - use 300 x 300 x 2.5 mm thick Matico.Toli Vinyl tile distributed by G.S. Go Bros., APO Vinyl or Kent Vinyl. Submit sample for color approval prior to installation.
- b. Use Matico Brand Latex type vinyl adhesive as distributed by GS Go Bros.

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Prepared by: Amilfendex

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- c. Clean and level all surfaces before installation.

09 690 - CARPETTING

- a. Use 450 x 450 mm CARPET TILES by COLLINS & AIKMAN floor covering as distributed by C & A CARPETS, INC. or approved equivalent. Submit sample for architects approval before installation.

09 900 - PAINTING

Submit sample of paint finishes on 300 x 300 mm wood panels for architect's approval prior to actual application.

- a. Exterior Painting - Use Davies Liquid-Tile Coating by Davies Paints. Apply 1 coat of Davies 5-700 Liquid-Tile Primer White. Verify with owner or architect for approved color scheme.
- b. Interior Painting - (for concrete or masonry, woodwork and as specified in plans) Use "Davies" as manufactured by Charter Chemical and Coating Corporation, applying all suggested preparation, application and drying techniques suggested by the manufacturer. Verify with owner or architect for approved color scheme.
- c. Steel and Wrought Iron - provide two (2) coats of red oxide primer by "Davies" on all air-exposed steel, except for stainless steel finishes, before application of final coating.
- d. Finished Carpentry - Use interior paint as indicated, in ducco finish or as indicated to be varnished or stained. Verify approved color with architect and owner.
- e. Wood Mouldings - Use interior paint as indicated, in ducco finish or as indicated to be varnished or stained. Verify approved color with architect and owner.
- f. Use Epoxy paint for interior walls, floors and ceiling by 3M epoxy paint, pioneer epoxy or Vergom for following rooms:

1. Workshop / carpentry room
2. All storage rooms
3. Pump rooms
4. All Electrical rooms
5. Softdrink storage room
6. Cistern
7. Gen-set house
8. All markings at parking area, provide zebra paint 1200 mm high on all perimeter walls and columns.

NOTE: Paint all exposed plastering including plantboxes. Use "ABC Joint Compound" for filler by Allgemeine-Bau-Chemie Phil., Inc.

09 950 - WALL COVERING

- a. CORK WALL COVERING - use cork materials as indicated thickness in plans from Campos Rueda Cork Inc. or approved equivalent. Submit samples for Architects approval
- b. VINYL WALL COVERING - use MAYFAIR vinyl wall covering as distributed by Frabel Interiorworld Phils. Inc. or approved equivalent. Submit sample of wall paper before installation for Architects approval
- c. Use METYLAN Paste for adhesives.

DIVISION 10 - SPECIALTIES

10 100 - CHALKBOARDS AND TACKBOARDS

- a. WHITE BOARD - wood -framed, glued to 6mm. Thick plywood backing with aluminum frame and marker/eraser holder. Submit sample for Architects approval before fabrication and installation.

10 150 - COMPARTMENTS AND CUBICLES

- a. TOILET PARTITIONS -All toilet partitions shall be CHB wall with 200 x 200 mm glazed wall tiles and 200 x 200 mm bottom and top border. All partitions shall not be fully closed from floor to ceiling but shall be 1800mm from finish floor line unless indicated in plans, supported at both ends with 200mm high opening below. As indicated in Details of toilets. Refer to detail drawings and Div. 9:300 Tiles.
- b. SHOWER COMPARTMENTS - Use 900mm x 900mm corner type single door swing or wall mounted sliding or as indicated in plans, shower enclosures with oven baked white aluminum frame and translucent acrylic glass as manufactured and distributed by BATHROOM PLUS or approved equivalent.

10 200 - LOUVERS AND VENTS

- a. Metal louvers for doors and windows by ACRO Metals or APPROVED EQUIVALENT. Painted refer to Division 9.900. Submit shop drawings and sample section for architect's approval before fabrication and installation

10 240 - GRILLES AND SCREENS

- a. Provide Wrought Iron Grilles as indicated in the Detail plans. Grill work by ACRO Metals or APPROVED EQUIVALENT. Painted refer to Division 9.900. Verify actual window / door opening before fabrication and installation.

10 290 - PEST CONTROL - Refer to Div. 2:200 - Earthwork.

10 350 - FLAGPOLES

- a. FLAGPOLE -use 200mm diameter G.I. pipe schedule 40 painted as per Division 9.900.
- b. Provide G.I. Pulley for flagpole. Submit sample for approval.
- c. Flagpole pedestal shall conform with submitted structural detail plan.

10 400 - IDENTIFYING DEVICES

- a. Gauge 16 Solid Brass Signage (polished) with neon light back lighting - submit shop drawings of signage for approval before installation. Submit sample brass section before fabrication.
- b. Provide signs for every room as manufactured by "Modagraphics", "Multi-link" or "Deogrades Ads" or approved equivalent. Submit shop drawing for approval before fabrication and installation.

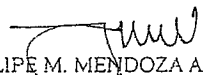
10 450 - PEDESTRIAN CONTROL, DEVICES

- a. Refer to Division 2:500 - Paving and Surfacing for signs for parking building.

10 520 - FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES

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- a. Use ABC Type Fire Extinguishers or as indicated in Sanitary/Mechanical plans.. Additional fire extinguisher shall be Owner supplied. Verify location in plans.
- b. Refer to Sanitary and Mechanical Plans - Fire protection System for detail of Fire cabinets and Fire Extinguishing system adopted for the building. Use indicated type and make of sprinkler heads and refer to Division 16:Electrical for fire alarm device use. Verify Architectural-Ceiling and Electrical plans for location.

10 800 - PARTITIONS

- a. FOLDING PARTITIONS - use VARIWALL sliding wall partition manufactured by: VARIFOLD ARCHITECTURAL PRODUCTS. Refer to Door Schedule and submit shop drawings before fabrication & installation
- b. ACCORDION FOLDING PARTITIONS - use VARIFOLD accordion partition with 8 inch panels as manufactured by: VARIFOLD ARCHITECTURAL PRODUCTS. Refer to Door Schedule and submit shop drawings before fabrication and installation.1

10 670 - STORAGE SHELVING

- a. Submit shop drawings for storage shelving. Refer to sections for sizes and interval of shelves. Submit detail shop drawing for all shelves in all storage rooms for approval before fabrication and installation. Painted gloss or flat with approved color by architect and owner.

10 800 - TOILET AND BATH ACCESSORIES

Colors of all fixtures shall be coordinated with the approved tiles submitted for approval. Also Refer to Division 14.450 for toilet fixtures and trims.

PUBLIC TOILETS


- a. Mirror - Provide 6mm thick X 800 mm tall X length equal to counter length. Facial mirror in aluminum frame with 6mm plywood backing and felt paper sandwiched in between, as manufactured by ALVIN Glass or approved equivalent.
- b. Recessed Paper Towel Dispenser and Receptacle - use "BOBRICK" Model B-43944 or approved equivalent, satin finish stainless steel, dispenses 600 c-fold of 800 multifold paper towels. Built in waste receptacle capacity should be 16 gal.
- c. Recessed Soap Dispenser - Use "BOBRICK" Model B-4063 or approved equivalent, corrosion resistant valve dispenser for liquid soap, lotion or detergent. Front of dispenser drawn, 20 gauge. (1.00mm), one piece construction with covered plastic soap vessel attached to back. 50 Fl. oz. Capacity, refillable. Concealed locking device. Vandal resistant. Unbreakable refill window.
- d. Toilet Paper Holder - Use "BOBRICK" Model B-667 or approved equivalent, Recessed Single roll toilet tissue dispenser. Type 304 stainless steel, bright polished finish.
- e. Hand Dryer - Use SIEMENS Hand dryer TH82501 with electronic sensor in silver casing. Submit sample for architect's approval.

CHAIRMAN and DIRECTOR'S TOILETS

- a. Mirror - Provide 6mm thick X 800 mm tall X 600mm wide fixed facial mirror, beveled edges, concealed mounting screws with 6mm plywood backing and felt paper sandwiched in between, as manufactured by ALVIN Glass or approved equivalent.
- b. Tissue and Soap Holder - Use AMERICAN STANDARD colored "Sabrina" recessed tissue and soap holder by Sanitary Wares manufacturing or approved equivalent.
- c. Shower Enclosures - provide corner type - single swing door or wall mounted sliding or as indicated in plan, powder coated white aluminum frame, cast on top of zocalo, with translucent acrylic as manufactured by BATHROOM PLUS or approved equivalent.

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Prepared by Amilinda 

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PLUS or approved equivalent.

- f. Hand Dryer – Use SIEMENS Hand dryer TH82501 with electronic sensor in silver casing.
Submit sample for architect's approval.

OTHER TOILETS

- a. Mirror - Provide 6mm thick X 800 mm tall X 600mm wide fixed facial mirror in aluminum frame with 6mm plywood backing and felt paper sandwiched in between, as manufactured by ALVIN Glass or approved equivalent.
- b. Tissue and Soap Holder – Use AMERICAN STANDARD colored “Sabrina” recessed tissue and soap holder by Sanitary Wares manufacturing or approved equivalent.
- c. Shower Enclosures – provide corner type – single swing door or wall mounted sliding or as indicated in plan, powder coated white aluminum frame ,
set on top of zocalo, with translucent acrylic as manufactured by BATHROOM PLUS or approved equivalent.
- d. Grab Bar – provide single piece 40mm stainless steel grab bar, mounting concealed with stainless steel flange cover, as indicated in plans. Refer to BP 344 for height and clearance requirements.

SLOPSINK

- a. Provide metal rack above slop sink. Submit shop drawings for architect's approval before fabrication and installation.
- b. Use 25mm stainless steel bar hanger.

DIVISION 11 - EQUIPMENT

11 050 - LIBRARY STACK SYSTEM

- a. OWNER SUPPLIED Metal book shelves.

11 060 - THEATER AND STAGE EQUIPMENT

- a. Lighting Control - use lighting control system as provided by ELECTRO SYSTEMS INDUSTRIES or its approved equivalent. Provide diagram of all Electrical and Equipment layout and connection for approval of Electrical Engineer prior to installation.

11 200 - WATER SUPPLY AND TREATMENT EQUIPMENT - Refer to Sanitary plans. Pumps shall be from "BELL & GOSSET", "FLINT", "WALING", OR "DAVEY", submit brochure for Engineers approval prior to purchase and installation

- a. Water Pumps
- b. Transfer pumps
- c. Others

11 300 - FLUID WASTE DISPOSAL AND TREATMENT EQUIPMENT - Refer to Sanitary plans.

11 400 - FOOD SERVICE EQUIPMENT

- a. Custom Fabricated Kitchen Equipment - use kitchen equipment as fabricated by GOMEKO or APPROVED EQUIVALENT. Submit shop drawings for approval before fabrication and installation.

11 450 - RESIDENTIAL EQUIPMENTS

- a. Refrigerators shall be owner provided.
- b. Microwave Ovens shall be owner provided.

11 800 - TELECOMMUNICATION EQUIPMENT

Refer to Electrical Plans and Technical Specifications for system used. Equipment shall be owner specified.

DIVISION 12- FURNISHINGS

12 100 - ARTWORK

- a. All paintings, photos, wall decor and hanging shall be owner supplied.
- b. Murals shall be commissioned by the owner to any person upon proper coordination with the Architect on theme and subject of painting.

12 300 - MANUFACTURED CABINETS AND CASEWORK

- a. Use Kiln Dry Tanguile for all cabinet doorframes and louvers. Verify actual measurements before fabrication and installation. Submit shop drawing for architect's approval.
- b. Use ¾ inch or 20mm thick plywood for shelves (minimum height for every shelf interval will be 400mm- start from top of baseboard upwards). Submit shop drawing for architect's approval. Painted as per Division 9.900.
- c. Use Overlap HE 700 heavy duty concealed hinges by HETTICH or approved equal for cabinet doors.

12 500 - WINDOW TREATMENT

- a. Provide mini-blinds for all perimeter windows by Products Unlimited or approved equivalent. Submit samples for approval prior to purchase and installation.

12 600 - FURNITURE AND ACCESSORIES

- a. All furniture for offices, cafeteria, library, conference rooms, dinettes and multi-purpose hall including all of its accessories, like waste receptacles, desk lamps, etc., shall be owner supplied and specified through recommendation of the Architect.

12 670 - RUGS AND MATS

- a. All mats, Rugs and other floor matting shall be owner supplied.

12 800 - INTERIOR PLANTS AND PLANTING

- a. Type of plants, interior and exterior flora, shall be upon the discretion and supply of the owner.

DIVISION 13 - SPECIAL CONSTRUCTION

13 410 - LIQUID AND GAS STORAGE TANKS

- a. LPG tank storage room shall be open to outside air at all times. Verify Mechanical plans on piping details and hook up for supply.

13 510 - RESTORATION OF UNDERGROUND PIPELINES

- a. In an event that while excavating the area, underground piping was found and could be damaged in the process, confer immediately with the owner or architect or representative of the owner. Relocate such pipe if needed upon verification and coordination with the owner, or as according to plan.

13 600 - UTILITY CONTROL SYSTEMS

- a. Generator shall be owner supplied and shall be housed according to plan. Refer to Plans and Electrical Details.
- b. Gas and Air control devices and their location shall be according to the Mechanical plans provided and Division 15 of this specification.
- c. Circuit Breakers and other Power control devices and its location shall be according to Electrical Plans provided and Division 16 of this specification.
- d. Water Control devices and their location shall be according to Sanitary/Plumbing plans provided and under Division 15.400 of this specification.

13 970 - FIRE SUPPRESSION AND SUPERVISORY SYSTEM

- a. Fire Suppression system and control shall be according to Mechanical and Electrical layouts in plans and details supplied.

DIVISION 14 - CONVEYING SYSTEMS

14 100 - DUMBWAITERS

- a. Electrically operated dumbwaiter shall be from MITSUBISHI as supplied by International Elevator and Equipment, Inc. or approved equivalent, capacity shall be 50 kgs. and located according to plans.

14 200 - ELEVATORS

Passenger Elevator shall be GPS II Series from MITSUBISHI as supplied by International Elevator and Equipment, Inc., and located according to plans.

MAIN LOBBY

Two (2) car elevator, Fifteen (15) person capacity per elevator, operating from ground to sixth floor. Interior car finish shall be hairline stainless steel with ceiling model C-E20S (lighting fixture included) in Vinyl Floor covering. Use Car Operating Panel and Position Indicator model CBM-C10. Use Hall Position Indicator and Call Button model PIM-C20 for all floors. Door Finish shall be Hairline stainless steel inside and outside for all floors.

JUDGE'S ELEVATOR

Single car elevator, Six (6) person capacity, operating from basement to sixth floor. Interior car finish shall be in according to plans and details. Use Car Operating Panel and Position Indicator model CBM-C10. Use Hall Position Indicator and Call Button model PIM-C10 for all floors. Door Finish shall be Hairline stainless steel outside for all floors and powder coated steel sheet inside with approved color by architect.

SERVICE ELEVATOR

Single car elevator, Six (6) person capacity, operating from basement to sixth floor. Interior car finish shall be plastic laminate steel sheet with approved color by architect or owner with ceiling model C-N10S (lighting fixture included) and vinyl floor covering. Use Car Operating Panel and Position Indicator model CBM-C10. Use Hall Position Indicator and Call Button model PIM-C10 for all floors. Door Finish shall be Painted steel sheet inside and outside for all floors with approved color by architect or owner.

Common accessories: Automatic car fan shut-off, automatic car light shut-off, emergency car light with charger, car gong, interphone, overload protective device with alarm, bell and signal light.

14 500 - MATERIAL HANDLING SYSTEM

- a. Chutes – refer to division 11.170:Waste Handling System.

DIVISION 15 - MECHANICAL

15 050 - BASIC MATERIALS AND METHODS

As indicated size and schedule in Mechanical plans. Submit shop drawings and sample sections for Engineers approval before installation. Refer to Mechanical Technical specification for more details.

15 250 - INSULATION

As indicated type in Mechanical plans. Submit shop drawings and sample sections for Engineers approval before installation. Refer to Mechanical Technical specification for more details.

15 400 - PLUMBING SYSTEMS

As indicated in plans. Any discrepancy between plans and specifications, coordinate with architect. Submit sample section for engineer's approval before installation. Refer to Sanitary / Plumbing Technical specification for more details.

Cold Water Systems

- a. G.I. Pipes - US made Schedule 40 for exposed pipes unless indicated in plans. Painted with primer and final coating.
- b. PVC pipes - "NELTEX" brand for embedded pipes.
- c. Check valves and Union valves - U.S. made. Submit sample for engineer's approval.

Soil And Waste Piping Systems

- a. Pipes - "Silva" or "Dong Tek" for cast iron soil and waste pipe and fittings. "NELTEX" brand for pvc waste pipe and fittings.

Roof Drainage Systems

- a. Pipes - "NELTEX" pvc pipes and fittings for downspouts.
- b. Roof Drains - Dome type "Metma" brand. Submit sample for architects approval.
- c. Vent Pipes - as indicated in plans and Technical specification.

Plumbing Equipment

Refer to plans and Plumbing Technical specification for more details. Submit brochures before installation for engineers approval.

Floor And Shower Drains

- a. Floor drains - "Metma" cast brass, nickel-plated surface plate, screw on lid with slotted hole perforations and consisting of adjustable strainer and secondary drain pan. Submit sample for approval.

Clean-outs And Clean-out Access Covers

- a. Clean-out Plugs - Cast brass ferrule with countersunk top screw cover, flush at floor finish or wall.

15 450 - PLUMBING FIXTURES AND TRIMS

Verify color between architect and owner before installation. Also Refer to Div. 10:800 - Toilet and Bath Accessories

PUBLIC TOILETS

- a. Toilets - use AMERICAN STANDARD colored "Carmela" flush valve type toilet by

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Sanitary Wares Manufacturing or approved equivalent with Flush Valve by Sloan Valve Company (USA).

- b. Lavatory – use one piece lavatory and counter by POLYTEX or approved equivalent with ROCA “Sprint” self closing press action with time flow as distributed by BATHROOM PLUS or approved equivalent.
- c. Urinals – Use AMERICAN STANDARD colored “Washbrook” Urinal by Sanitary Ware Manufacturing or approved equivalent, with Flush valve by Sloan Valve Company (USA).

DIRECTOR'S TOILET

- a. Toilet – Use AMERICAN STANDARD “Sophia” one piece tank type water closet by Sanitary Wares manufacturing or approved equivalent.
- b. Lavatory – Use AMERICAN STANDARD “Sophia” pedestal type lavatory complete with Fittings in brass finish, all by Sanitary Wares Manufacturing or approved equivalent. Submit sample for architect's approval.
- c. Showers – Use Polished brass shower set with pulsating showerhead, three piece diverter with clear knob handle and tub filler, by DELTA faucets or approved equivalent.

CHAIRMAN'S TOILET

- a. Toilet – Use AMERICAN STANDARD “Sophia” one piece tank type water closet by Sanitary Wares manufacturing or approved equivalent.
- b. Lavatory – Use AMERICAN STANDARD “Sophia” pedestal type lavatory complete with Fittings in brass finish, all by Sanitary Wares Manufacturing or approved equivalent. Submit sample for architect's approval.
- c. Showers – Use Polished brass shower set with pulsating showerhead, three piece diverter with clear knob handle and tub filler, by DELTA faucets or approved equivalent.

OTHER TOILET

- a. Toilet – Use AMERICAN STANDARD colored “Ventura” tank type toilet complete with fittings, by Sanitary Wares Manufacturing or approved equivalent.
- b. Lavatory – Use AMERICAN STANDARD colored “Diana” wall-hung lavatory complete with Standard Fittings, all by Sanitary Wares Manufacturing or approved equivalent.
- c. Shower – Use ordinary chrome finish shower set with showerhead, three piece diverter and tub filler. Submit sample for architect's approval.

HANDICAP TOILET

- a. Toilet – Use AMERICAN STANDARD colored “Carmela” flush valve toilet by Sanitary Wares Manufacturing or approved equivalent with Flush Valve by Sloan Valve Company (USA).
- b. Lavatory – Use AMERICAN STANDARD colored “Carmela” Wall hung lavatory by Sanitary Wares Manufacturing or approved equivalent. Refer to BP 344 for height required of lavatory fixture.

PANTRY SINK

Use Single bowl stainless steel sink with drain board, ROCA Model J-70 995mm x 490mm as distributed by BATHROOM PLUS or approved equivalent, with ROCA “Brava” Gooseneck mixer tap. Submit sample before installation for architect's approval.

DRINKING FOUNTAIN

Use HAWS HF8 Electric Water cooler flush against wall, heavy gauge stainless steel cabinet with foot pedal control as distributed by RR Alivio General Merchandising or approved equivalent.

15 500 - FIRE PROTECTION

- a. Fire Hose Cabinets and Accessories - as indicated in plans and Mechanical / Sanitary Technical specifications.
- b. Portable Fire Extinguishers - use ABC type fire extinguishers. Submit brochure before installation for architects approval. Refer to plans for exact location.
- c. Fire Suppression System - refer to Mechanical plans and details for suppression system use.
- d. Fire Alarm System - refer to Division 16:Electrical

15 650 - REFRIGERATION

- a. Condensers and cooling units - use KOPPEL AIR-CONDITIONERS AND COOLING UNITS as manufactured and distributed by: ABB KOPPEL, PHILIPPINES or its approved equivalent. Refer to Mechanical Plans for layout type & make.

15 800 - AIR DISTRIBUTION

- a. Duct work shall be according to Mechanical plans and details.
- b. Duct work insulation shall be according to Mechanical plans and details.
- c. AHU shall be according to Mechanical plans and details.
- d. Exhaust Fans - shall be according to Mechanical plans and details. Submit sample for Engineer's approval.
- e. Dampers - shall be according to Mechanical plans and details. Submit sample for Engineer's approval.
- f. Ceiling Diffusers - use PVC Square louver by NELTEX or approved equivalent. Submit sample for architect's approval.
- g. Wall Diffusers - use PVC louver by NELTEX or approved equivalent. Submit sample for architect's approval.
- h. Filters - shall be according to Mechanical plans and details. Submit sample for Engineers approval.

15 900 - CONTROLS AND INSTRUMENTATIONS

- a. Control Panels - shall be according to Mechanical plans and details. Verify plan for exact location.
- b. Instrumentation - Thermostats, Humidistats and Aquastats shall be according to Mechanical plans and details.

DIVISION 16 - ELECTRICAL

16 050 - BASIC MATERIALS AND METHODS

As indicated size, type and make in Electrical plans. Refer to Electrical Technical Specifications. Submit sample of item or section for engineers and architects approval.

- a. Wire - copper, soft drawn and annealed, 98% conductivity.
- b. Rigid Conduit - standard weight, mild steel hot galvanized or sherardized by "Matsushita" or "Sushimoto" for service entrance.
- c. Outlet boxes and fittings - by "National Electric Products Corp." or Approved equivalent
- d. Switches - "Mekoisha" or "National".
- e. Receptacle - "Mekoisha" or "National".
- f. Outlet Plate - "Mekoisha" or "National" Stainless steel (width not to exceed 70mm)
- g. Panel and Cabinets - "Westinghouse" type AB or "G.E."
- h. Circuit Breakers - "Westinghouse" type A.B. or "G.E."

16 200 - POWER GENERATION

- a. Generator - optional or as according to Electrical plans, use 650kw Caterpillar / Komatsu / Cummings. Refer to Site Development plan for location of Genset house.
- b. Cooling Equipment such as air-conditioning shall be according to Mechanical plans and Specifications.

16 300 - POWER TRANSMISSION

- a. Power Center for the building shall be located as indicated in plan. Provide lock for door for safety. Refer to Electrical plans.
- b. Circuit breakers shall be according to Electrical plan for type and capacity. Refer to Electrical Technical specifications for more details.
- c. Pad mounted transformer shall be provided as indicated in Electrical plans. Verify type and make.

16 400 - SERVICE AND DISTRIBUTION

- a. Electrical and Telephone service shall be underground unless indicated in plans.
- b. Grounding shall be provided for as indicated in plans.
- c. Lightning Arrestor shall be according to Electrical plans. Verify location of arrestor.

16 500 - LIGHTING

- a. Recessed Lighting - Use "FCD 240," "FCD140", "FCD 220", and "FCD 120" all with mirrored reflector and eggcrate diffuser by: FULBRIGHT LIGHTING or approved equivalent.
-use continuous "FCL 120", with mirrored reflector and prismatic diffuser for light troughs as manufactured by: "Fullbright Lighting". Submit sample for approval of Architect before installation.
- b. Interior Surface Mounted - Use "VENUS - SQ" for Ceiling mounted circular lamp with square wrap around prismatic diffuser as manufactured by: "Fullbright Lighting" or approved equivalent. Submit sample for approval of Architect before installation.
- c. Suspended Lighting (Floor Lobby) - use GARRIGA RATTAN series with special width of 890mm minimum (for architects approval before installation) by AZCOR Lighting or approved equivalent. Submit picture sample for architects approval.
- d. Exterior Surface Mounted - Use "FIM 140" with acrylic or polycarbonate diffuser complete with ballast and lamp by "Fullbright Lighting"; use "FCP 120" for single 20 watt lamp in white powder coated housing and wrap around diffuser complete with ballast - by "Fullbright

SANDIGAN BAYAN BUILDING

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Prepared by: Amilendez

09/01/97

Lighting"; Submit sample for architects approval before fabrication and installation.

- e. Pinlights – Use PHILIPS SL Downlight series with anodized and sandblasted aluminum reflector and white die-cast aluminum rim complete with corresponding 25 watt SL lamp, all by PHILIPS Lighting or approved equivalent. Submit sample for architects approval before installation.
- f. Incandescent Fixture - Porcelain surface mounted with 25 watt PHILIPS SL lamp.
- g. Flood Lights – use M/SNF 300 series floodlight with housing and lamp by PHILIPS Lighting or approved equivalent. Submit sample before installation for approval.

16 600 - SPECIAL SYSTEMS

- a. Emergency Light and Power System shall be provided for according to Electrical plans and Technical Specifications.
- b. Generator System shall be optional or as indicated in Electrical plans supplying power to areas and equipment as indicated according to Electrical plans.

16 700 - COMMUNICATIONS

- a. Alarm and Detection System - US made alarm for doors with dedicated alarm device. See Schedule of Doors. Submit brochure for approval before installation.
- b. Fire Alarm and Detection System- US made Fire Alarm and Detection System as reflected in Electrical plans. Submit brochure for approval before installation.
- c. Telephone System shall be according to plans. Telephone Units shall be owner provided.

16 850 - HEATING AND COOLING

- a. Condensers and cooling units – use KOPPEL AIR-CONDITIONERS AND COOLING UNITS as manufactured and distributed by: ABB KOPPEL, PHILIPPINES or its approved equivalent. Refer to Mechanical Plans for layout type & make.

PART 2

TECHNICAL SPECIFICATIONS

Division 01	General Requirements
Division 02	Sitework
Division 03	Concrete
Division 04	Masonry
Division 05	Metals
Division 06	Wood and Plastics
Division 07	Thermal and Moisture Protection
Division 08	Doors and Windows
Division 09	Finishes
Division 10	Specialties
Division 14	Conveying Systems
Division 15A	Mechanical
Division 15B	Plumbing
Division 16	Electrical

TECHNICAL SPECIFICATIONS
DIVISION 01: GENERAL REQUIREMENTS

DIVISION 01 000: GENERAL REQUIREMENTS

PART 1: GENERAL

1.01 The General Conditions and other Contractual Documents apply to each of the Specifications.

1.02 The provisions contained in Division 01 apply to each Division of the Specifications.

1.03 Cleaning

- a. The Contractor shall keep the premises clean during the progress of the work as specified under Division 01 700 CONTRACT CLOSEOUT.

1.04 Manufacturer's Directions

- a. Manufactured articles, materials or equipment shall be applied, installed, connected, erected, used, cleared, and conditioned in accordance with the Manufacturer's printed directions unless otherwise indicated in the Contract Documents.

DIVISION 01 000: GENERAL REQUIREMENTS

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SECTION 01 010: SUMMARY OF THE WORK

PART 1: GENERAL

- 1.01 Furnish all labor, materials, equipment, plant, tools, transportation and other facilities to complete the general construction work including PLUMBING, ELECTRICAL AND MECHANICAL WORKS and connections of utilities to existing sources necessary for the successful completion of the project ready for use.
- 1.02 Construct catch basins, metal gratings, septic vaults parking areas, driveways, curbs, and gutters, sidewalks. Cleaning and Grading of areas as shown in the plans.
- 1.03 All materials to be used shall be new except as otherwise indicated in the specifications and shall be of specific quality and furnished in sufficient quantity to facilitate proper and speedy execution of the work.
- 1.04 The Contractor shall confine his apparatus, storage of materials and the operation of his workmen to limits indicated by law, ordinances, and permits, and shall leave all walks, driveways, roads, and entrances unencumbered.

SECTION 01 015: CONTRACTOR'S USE OF PREMISES

PART 1: GENERAL

- 1.01 The Contractor shall confine his apparatus, storage of materials and the operation of his workmen to limits indicated by law, ordinances, and permits, and shall leave all walks, driveways, roads, and entrances unencumbered.

SECTION 01 019: OWNER FURNISHED OPTION

PART 1: GENERAL

- 1.01 Should the Owner opt to furnish critical materials for the project corresponding adjustment in the contract cost shall be made.
- 1.02 Upon agreement between the Owner and the Contractor as to the materials, the Owner is to purchase, the Contractor shall furnish to the Owner all necessary information, including source of supply, to enable the Owner to properly purchase such materials.
- 1.03 The Owner shall be responsible for the ordering and delivery of owner-furnished materials, fixtures and equipment which should be completed with its integral parts upon arrival with a guarantee from the manufacturer or dealer of the performance of fixtures and equipment.
- 1.04 Once the materials, fixtures and equipment are delivered at the site, it will be the responsibility of the Contractor to provide the necessary insurance and storage facilities to protect them against damage, fire, loss and pilferage. Any damage or loss of the materials, fixtures or equipment once under the custody of the Contractor shall be at his own expense and the delay that may be caused by the replacement will not entitle the Contractor for extension of time.

PART 1: GENERAL

1.01 Project Coordination

- a. Supervises and coordinates the works of the various sub-contractors in order to achieve an efficient and satisfactory implementation of the scheduling, delivery and storage of materials, fixtures and equipment and proper installation of conduits, roughing-in utilities, fixtures and equipment in conformity with the drawings, specifications, contract documents and other manufacturers' catalogues and instructions.

1.02 Cutting - Patching - Digging

- a. The Contractor shall coordinate all cutting, fitting or patching of the work required to make its several parts come together properly and fit to receive or to be received by other portions of his own work or that of the subcontractors or the installing material men as shown upon or reasonably implied by the Drawings or Specifications for the completed structure, and he shall make or have made proper and sufficient repair or closure after them as the Architect may direct.
- b. The Contractor or subcontractor shall not allow any work to be endangered by cutting, digging, drilling, etc., and shall not cut or alter the work of any Trade without the prior consent from the Architect.

SECTION 01 060: REGULATORY REQUIREMENT

PART 1: GENERAL

1.01 Permits, Fees, Licences, and Taxes

- a. The Contractor shall secure and pay all permits, fees, licenses, and taxes necessary for the execution of the work.
- b. The Contractor and others working under his jurisdiction shall perform work in compliance with the rules, regulations, and ordinances of any kind required by governmental authority or other agency having jurisdiction over this work.
- c. The Contractor shall secure all certificates of inspection and occupancy that may be required by the authorities having jurisdiction over the work. These certificates shall be delivered to the Architect upon completion of the work.

SECTION 01 200: PROJECT MEETINGS

PART 1: GENERAL

1.01 Pre-Construction Conferences

- a. A pre-construction meeting between the Architect or other representatives designated by the Owner and the Contractor shall be held at the site prior to the commencement of the work. This meeting shall be for the purpose of resolving current problems, further orienting the Contractor to the requirements of the Drawings and Specifications, informing the Contractor of the Architect's responsibility to the Owner for the supervision, and working out with the Contractor a general schedule of supervision.

1.02 Progress Meetings

- a. The Contractor shall meet weekly or as required with the Architect or the Owner's Representative to verify the progress of the work.

1.03 Job Site Administration Meeting

- a. The Contractor shall meet weekly with his sub-contractors on a scheduled basis to coordinate construction of the project with various Trades.
- b. The Architect or his Representative shall be invited to these meetings.

SECTION 01 300: SUBMITTALS

PART 1: GENERAL

1.01 Construction Schedules

- a. The Contractor shall contact the Architect or the Owner's Representative before covering up any work so that proper inspection may be made.

1.02 Network Analysis Schedules

- a. The Contractor shall prepare a PERT-CPM Construction Schedule to indicate the following:
 - 1. All activities necessary to complete the project.
 - 2. Monthly value of each activity.

1.03 Shop Drawings, Product Data, and Samples

- a. The Contractor shall review, stamp with his approval, and submit shop drawings and submittals for approval of the Architect for conformance of the design concept and information given in the Contract Documents. The work shall be in accordance with the Drawings and Specifications.
- b. Where specified or required, the Contractor shall submit samples to the Architect together with specification material, affidavits, and other documentation as may be required by the Architect. It is the Contractor's specific responsibility to ascertain that the samples submitted have been checked and approved by him. The cost of the samples together with the transportation, delivery, and any other costs shall be borne by the Contractor.
- c. The samples shall be submitted in duplicate. One of each sample shall be retained in the office of the Architect until the completion of the Project.
- d. Where samples are specifically required to be submitted for approval, no work involving the samples/ materials shall proceed until written approval has been obtained from the Architect.

SECTION 01 400: QUALITY CONTROL

PART 1: GENERAL

1.01 Testing Laboratory Services

- a. Testing provisions are as outlined in Article 10 of the General Conditions.



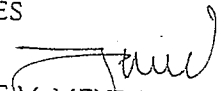
TECHNICAL SPECIFICATIONS
DIVISION 01: GENERAL REQUIREMENTS
SECTION 01 500: TEMPORARY CONSTRUCTION FACILITIES AND UTILITIES

PART I: GENERAL

- 1.01 Temporary structures and facilities as outlined in Article 15 of the General Conditions.

DIVISION 01 500: TEMPORARY CONSTRUCTION FACILITIES AND UTILITIES

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SECTION 01 700: CONTRACT CLOSEOUT

PART 1: GENERAL

1.01 Cleaning

- a. The Contractor shall keep the premises and the building free from accumulations of waste or rubbish caused by his employees, sub-contractors, and at the time of completion of the work, he shall remove all rubbish from under and about the building, all his tools, scaffolding, and surplus materials, and he shall have the building clean and habitable, having thoroughly swept the floors, cleaned the windows, and dusted flat surfaces such as cabinet tops and window sills.
- b. Prior to and during the process of painting, staining or varnishing, the area where such work is in progress shall be cleared of all debris, rubbish, or building materials which may cause dust. Floors shall be swept as required and all possible steps taken to keep the area dust free.
- c. In addition to the general cleaning noted above, the Contractor shall do the following special cleaning for all trades at the completion of the work:
 1. Remove putty stains from all glass. Wash and polish the glass inside and outside, exercising care not to scratch the glass.
 2. Remove marks, stains, fingerprints, and other soil and dust from the painted, decorated, or stained work.
 3. Clean and polish woodwork.
 4. Clean and polish hardware for all Trades. This shall include removal of stains, dust, dirt, paint, etc.
 5. Remove spots, soil and paint from the tile work, and wash the tile.
 6. Clean fixtures and equipment, and remove stains, paint dirt, and dust.
 7. Remove temporary floor protection, and clean and polish floors.
 8. Clean exterior and interior metal surfaces, including doors and windows required to have polished finishes, of oils, stains, dust and dirt, etc.
 9. Polish surfaces leaving them without fingerprints or other blemishes.

1.02 Project Record Documents

- a. It shall be the responsibility of the Contractor to require the Mechanical, Plumbing, and Electrical Contractors to keep accurate as-built drawings, descriptive letters if their work is constructed in any way at variance to that shown on the Contract Documents. Other Contractors shall supply as-built drawings and/or descriptive letters if required.
- b. These as-built drawings shall be delivered to the Architect prior to receiving his certification for the final payment.

1.03 Operations and Maintenance

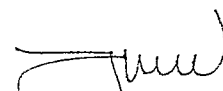
- a. Before the final payment, the Contractor shall obtain from his Mechanical, Plumbing, Electrical and Sound Sub-contractors the operating instructions and/or maintenance manuals as called for in the respective Specifications.

1.04 Warranties and Bonds

- a. In the case of any work performed by the Contractor where guarantees are required, the Contractor shall secure the guarantees and/or warranties properly addressed and in favor of the Owner. Copies of these documents shall be delivered to the Architect upon completion of the Contractor's work and prior to the final payment.
- b. Delivery of the guarantees and/or warranties shall not relieve the Contractor from any obligation assumed under any other provisions of this Contract.
- c. Nothing herein intends or implies that guarantees and/or warranties shall apply to work abused or neglected by the Owner.

DIVISION 01 700: CONTRACT CLOSEOUT

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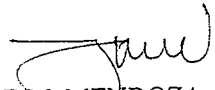
TECHNICAL SPECIFICATIONS
DIVISION 02: SITEWORK

DIVISION 02: SITEWORK

PART 1: GENERAL

- 1.01 Division 01 applies to this Division.
- 1.02 Provide labor, materials, and equipment necessary for completion of work unless noted otherwise.

DIVISION 02 000: SITEWORK


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Page 1 of 1

SECTION 02 050: DEMOLITION

PART 1: GENERAL

1.01 Scope

- a. General Division 02 applies to this Section.
- b. Includes:
 - 1. Furnish labor and materials required to complete demolition as shown in Contract Documents.

PART 2: EXECUTION

2.01 Permits

- a. Contact local Building Official to familiarize with laws and regulations governing the work.
- b. Notify corporations, companies, individuals, and local authorities owning conduits running to property. Arrange for removal of wires running to and from the property. Remove pipes and sewers in accordance with instructions of the above owners.

2.02 Protection

- a. Protect and maintain conduits, drains, sewers, pipes and wires that are to remain on property.
- b. Remove work demolished from property as directed.
- c. Erect and use dust chutes for removal of materials, rubbish and debris.
- d. Perform work in orderly and careful manner with due consideration for neighbors and the public.
- e. Demolish masonry in small sections using bracing and shoring where necessary to avoid collapse of structure.
- f. Promptly, remove materials, rubbish, and debris from building and premises.

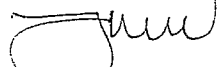
SECTION 02 010: SUB-SURFACE INVESTIGATION

PART 1: GENERAL

1.01 SCOPE

- a. Visit site and become acquainted with site conditions.
- b. Prior to bidding, bidder may make sub-surface investigations to satisfy himself with site and subsurface conditions.
- c. Make no deviations from Contract Documents without specific and written approval of the Owner.
- d. Owner has secured the services of a Soils Engineer to aid in design of a project. The following conditions apply:
 1. A soils investigation report has been prepared by: _____ referred to as Soils Engineer.
 2. This report may be inspected at the Architect's office.
 3. This report was obtained only for use by the Architect in design and is not part of the Contract Documents.
 4. Report and boring log is available for Contractor's information but is not a warranty of subsurface conditions.
- e. Should conditions be encountered which are not at variance with those indicated in soils investigation report, the Contractor shall immediately notify the Owner or the Soils Engineer.

DIVISION 02 010: SUB-SURFACE INVESTIGATION


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