

TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY (TESDA)

# **BID DOCUMENTS**

## **Construction of the Innovation Center for TESDA RTC-NCR**

**TESDA-CO-2021-27**

**Sixth Edition  
July 2020**

# Preface

These Philippine Bidding Documents (PBDs) for the procurement of Infrastructure Projects (hereinafter referred to also as the “Works”) through Competitive Bidding have been prepared by the Government of the Philippines for use by all branches, agencies, departments, bureaus, offices, or instrumentalities of the government, including government-owned and/or -controlled corporations, government financial institutions, state universities and colleges, local government units, and autonomous regional government. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

The PBDs are intended as a model for admeasurements (unit prices or unit rates in a bill of quantities) types of contract, which are the most common in Works contracting.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract; (ii) the eligibility requirements of Bidders; (iii) the expected contract duration; and (iv) the obligations, duties, and/or functions of the winning Bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Works to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Infrastructure Projects. However, they should be adapted as necessary to the circumstances of the particular Project.
- b. Specific details, such as the “*name of the Procuring Entity*” and “*address for bid submission*,” should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, BDS, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, and Bill of Quantities are not part of

the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.

- d. The cover should be modified as required to identify the Bidding Documents as to the names of the Project, Contract, and Procuring Entity, in addition to date of issue.
- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

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# ***Glossary of Terms, Abbreviations, and Acronyms***

**ABC** – Approved Budget for the Contract.

**ARCC** – Allowable Range of Contract Cost.

**BAC** – Bids and Awards Committee.

**Bid** – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

**Bidder** – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

**Bidding Documents** – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

**BIR** – Bureau of Internal Revenue.

**BSP** – Bangko Sentral ng Pilipinas.

**CDA** – Cooperative Development Authority.

**Consulting Services** – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

**Contract** – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

**Contractor** – is a natural or juridical entity whose proposal was accepted by the Procuring Entity and to whom the Contract to execute the Work was awarded. Contractor as used in these Bidding Documents may likewise refer to a supplier, distributor, manufacturer, or consultant.

**CPI** – Consumer Price Index.

**DOLE** – Department of Labor and Employment.

**DTI** – Department of Trade and Industry.

**Foreign-funded Procurement or Foreign-Assisted Project** – Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

**GFI** – Government Financial Institution.

**GOCC** – Government-owned and/or –controlled corporation.

**Goods** – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

**GOP** – Government of the Philippines.

**Infrastructure Projects** – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

**LGUs** – Local Government Units.

**NFCC** – Net Financial Contracting Capacity.

**NGA** – National Government Agency.

**PCAB** – Philippine Contractors Accreditation Board.

**PhilGEPS** - Philippine Government Electronic Procurement System.

**Procurement Project** – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

**PSA** – Philippine Statistics Authority.  
**SEC** – Securities and Exchange Commission.  
**SLCC** – Single Largest Completed Contract.  
**UN** – United Nations.



## ***Section I. Invitation to Bid***



## INVITATION TO BID FOR CONSTRUCTION OF THE INNOVATION CENTER FOR TESDA RTC-NCR

1. The Technical Education and Skills Development Authority (TESDA), through the General Appropriations Act (GAA) FY 2021 intends to apply the sum of **Thirty-Nine Million Six Hundred Eighty-Two Thousand Seven Hundred Twenty-Eight Pesos and 56/100 (P39,682,728.56)** being the Approved Budget for the Contract (ABC) to payments under the contract for **Construction of the Innovation Center for TESDA RTC-NCR**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The TESDA now invites bids for the above Procurement Project. Completion of the Works is required within **one hundred eighty (180) calendar days** from receipt of the winning bidder of the Notice to Proceed. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary *"pass/fail"* criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
4. Interested bidders may obtain further information from TESDA and inspect the Bidding Documents at the address given below during office hours from 8:00 a.m. to 5:00 p.m. starting **2 December 2021**.
5. A complete set of Bidding Documents may be acquired by interested bidders beginning **2 December 2021** from the given address and website(s) below and upon payment of **Twenty-Five Thousand Pesos (P25,000.00)** for the Bidding Documents. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person.
6. The **TESDA** will hold a Pre-Bid Conference on **10 December 2021 at 10:00 a.m.** through video conferencing or webcasting via **Zoom** which shall be open to prospective bidders.

In line with the precautionary health measures being adopted by the agency, interested bidders may join the Pre-Bid Conference via video-conference (Zoom). In order to secure the zoom link password, prospective bidders are advised to send an email request to the BAC Secretariat at [bacsecretariat@tesda.gov.ph](mailto:bacsecretariat@tesda.gov.ph) **NOT LATER THAN 4:00 P.M., 9 DECEMBER 2021**, together with the following details:

- a. Name of Project
- b. Bid Reference
- c. Activity

- d. Company Name
- e. Address
- f. Name of Representative [maximum of two (2)]
- g. Contact Nos.
- h. E-mail Address
- i. Scanned or Proof of Identity of the representative (pls. attach)

By submitting the abovementioned information, it would be understood that the prospective bidders are conforming to the Data Privacy Act and TESDA Privacy Rules and Regulations. TESDA will not share the personally identifiable information to any third party for marketing purposes. However, TESDA may share information with governmental agencies in cases permitted or required by law. Likewise, the personally identifiable information shall be kept secured. Only authorized staff of the abovementioned e-mail have access to this information.

For the Pre-Bid Conference, bidders are encouraged to send their authorized technical representatives or personnel who are familiar with the bidding requirements and who will prepare the documents for the bidder to minimize errors in the preparation of bids. The bidders' representative shall carefully consider all the discussions during the Pre-bid Conference and be guided by them in the preparation of bids. Only the pre-registered representative/s or personnel shall be allowed to attend during Zoom Video Conference.

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before **22 December 2021 at 10:00 a.m.** Online submission is not yet available. Late bids shall not be accepted.
8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 16.
9. Bid opening shall be on **22 December 2021 at 10:30 a.m.** at the Gabriela Silang Room, TESDA Women's Center, Gate 1, TESDA Complex, Building 2, East Service Road, South Luzon Expressway (SLEX), Fort Bonifacio, Taguig City. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

For those bidders that will be attending the meeting at TESDA, please be advised that all prospective bidders attending the meeting shall submit a copy of their COVID 19 vaccination card showing that their representatives are fully vaccinated and negative COVID-19 antigen result no longer than twenty-four (24) hours prior to the foregoing meeting.

**Due to community quarantine measures, only one (1) representative is allowed to attend personally in the bid opening and will be required to follow the TESDA protocol for Visitors specifically on compliance with social distancing, wearing of face masks and face shields, body temperature screening, filling up of self-screening form which must be filled-up prior to the arrival at TESDA. Visitors who show signs of COVID-19 related symptoms such as cough, flu, fever, high body temperature**

**and sneezing are advised not to proceed to TESDA since they will not be allowed to enter the TESDA compound.**

If the bidders opt not to attend the meeting physically, they can join via Zoom application and they are advised to send an email request to the BAC Secretariat at [bacsecretariat@tesda.gov.ph](mailto:bacsecretariat@tesda.gov.ph) **NOT LATER 4:00 p.m., 21 December 2021**, together with the following details, in order to secure the Zoom link password:

- a. Name of Project
- b. Bid Reference
- c. Company Name
- d. Address
- e. Name of Representative [maximum of one (1)]
- f. Contact Nos.
- g. E-mail Address
- h. Scanned or Proof of Identity of the representative (pls. attach)

By submitting the abovementioned information, it would be understood that the prospective bidders are conforming to the Data Privacy Act and TESDA Privacy Rules and Regulations. TESDA will not share the personally identifiable information to any third party for marketing purposes. However, TESDA may share information with governmental agencies in cases permitted or required by law. Likewise, the personally identifiable information shall be kept secured. Only authorized staff of the abovementioned e-mail have access to this information.

For the Opening of Bids, bidders are required to send their authorized technical representatives or personnel who are familiar with the bidding requirements and who prepared the documents for the bidder. The bidders' representative shall respond to the queries during the meeting if ever there will be relative the document/s of the bidder. Only the **pre-registered representative/s or personnel of those bidders that purchased the Bidding Documents** shall be allowed to attend during Zoom Video Conference.

10. The **TESDA** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
11. For further information, please refer to:

**ATTY. GINBER M. LUNA**  
Head, BAC Secretariat  
3rd Floor, Procurement Division  
TESDA Administration Building  
East Service Road, South Luzon Expressway (SLEX)  
Fort Bonifacio, Taguig City 1630  
Telefax: (02) 8893-8296  
E-mail: [bacsecretariat@tesda.gov.ph](mailto:bacsecretariat@tesda.gov.ph)

12. You may visit <https://www.tesda.gov.ph/About/TESDA/149> for downloading of Bidding Documents.

*Date of Issue: 1 December 2021*

  
**DDG LINA C. SARMIENTO**  
BAC Chairperson

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## ***Section II. Instructions to Bidders***

## 1. **Scope of Bid**

The Procuring Entity, **TESDA** wishes to receive Bids for the **Construction of the Innovation Center for TESDA RTC-NCR** with identification number **TESDA-CO-2021-27**.

The Procurement Project (referred to herein as "Project") is for the construction of Works, as described in Section VI (Specifications).

## 2. **Funding Information**

2.1. The GOP through the source of funding as indicated below for the **Construction of the Innovation Center for TESDA RTC-NCR** in the amount of **Thirty-Nine Million Six Hundred Eighty-Two Thousand Seven Hundred Twenty-Eight Pesos and 56/100 (P39,682,728.56)**.

2.2. The source of funding is the General Appropriations Act FY 2021.

## 3. **Bidding Requirements**

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manual and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or invitation to bid by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

## 4. **Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices**

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex "I" of the

2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

## **5. Eligible Bidders**

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA's CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.

A contract is considered to be "similar" to the contract to be bid if it has the major categories of work stated in the **BDS**.

- 5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

## **6. Origin of Associated Goods**

There is no restriction on the origin of Goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN.

## **7. Subcontracts**

- 7.1. The Procuring Entity has prescribed that: Subcontracting is not allowed.
- 7.2. Subcontracting of any portion of the Project does not relieve the Contractor of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Contractor's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

## **8. Pre-Bid Conference**

The Procuring Entity will hold a pre-bid conference for this Project on **10 December 2021 at 10:00 a.m.** through videoconferencing/webcasting as indicated in paragraph 6 of the **IB**.



## 9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

## 10. Documents Comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.
- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.
- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

*Five*

*or*

## 11. Documents Comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.3. For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

## 12. Alternative Bids

Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic technical design as indicated in the drawings and specifications. Unless there is a value engineering clause in the **BDS**, alternative Bids shall not be accepted.

## 13. Bid Prices

All bid prices for the given scope of work in the Project as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as determined by the NEDA and approved by the GPPB pursuant to the revised Guidelines for Contract Price Escalation guidelines.

## 14. Bid and Payment Currencies

- 14.1. Bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.
- 14.2. Payment of the contract price shall be made in Philippine Pesos.

## 15. Bid Security

- 15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 15.2. The Bid and bid security shall be valid until **21 April 2022**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

## 16. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission to the given website or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

## 17. Deadline for Submission of Bids

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

## 18. Opening and Preliminary Examination of Bids

18.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

18.2. The preliminary examination of Bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

## 19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.

19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 16 shall be submitted for each contract (lot) separately.

19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

## 20. Post Qualification

Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS), and other appropriate licenses and permits required by law and stated in the **BDS**.

## 21. Signing of the Contract

The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.


## ***Section III. Bid Data Sheet***

# Bid Data Sheet


ITB Clause																							
5.2	For this purpose, contracts similar to the Project refer to contracts which shall be contract involving <b><u>general building construction</u></b> .																						
7.1	The Procuring Entity has prescribed that subcontracting is not allowed.																						
10.3	Valid and current Philippine Contractors Accreditation Board (PCAB) License with Classification/Category in General Building with Minimum License Category of AA and Minimum Size Range "Medium A", to bid for the Construction of TESDA RTC NCR (hereinafter referred to as the "WORKS"). The PCAB license must indicate "PCAB registered contractor for Government Projects."																						
10.4	<p>The key personnel must meet the required minimum years of experience set below:</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 60%;">Key Personnel</th> <th style="width: 40%;">Years of Experience Required</th> </tr> </thead> <tbody> <tr><td>Project Manager</td><td>5</td></tr> <tr><td>Civil Engineer</td><td>5</td></tr> <tr><td>Architect</td><td>5</td></tr> <tr><td>Foreman</td><td>3</td></tr> <tr><td>Carpenter/s</td><td>3</td></tr> <tr><td>Mason/s</td><td>3</td></tr> <tr><td>Painter/s</td><td>3</td></tr> <tr><td>Tinsmith/s</td><td>3</td></tr> <tr><td>Welder/s</td><td>3</td></tr> <tr><td>Laborer/s</td><td>3</td></tr> </tbody> </table>	Key Personnel	Years of Experience Required	Project Manager	5	Civil Engineer	5	Architect	5	Foreman	3	Carpenter/s	3	Mason/s	3	Painter/s	3	Tinsmith/s	3	Welder/s	3	Laborer/s	3
Key Personnel	Years of Experience Required																						
Project Manager	5																						
Civil Engineer	5																						
Architect	5																						
Foreman	3																						
Carpenter/s	3																						
Mason/s	3																						
Painter/s	3																						
Tinsmith/s	3																						
Welder/s	3																						
Laborer/s	3																						
10.5	<p>The minimum major equipment requirements are the following:</p> <ol style="list-style-type: none"> <li>1. Grinders</li> <li>2. Cutters</li> <li>3. Electrical Tools</li> <li>4. Cleaning Equipment</li> <li>5. Lifting Equipment</li> <li>6. Gondola</li> <li>7. Hauling Tools and Equipment</li> <li>8. Truck Mounted Crane, Scissors Lift, Terrain</li> <li>9. Backhoe w/ Breaker</li> <li>10. One Bagger Mixer</li> <li>11. Dump Truck</li> <li>12. Jack Hammer</li> <li>13. Water Pump, 100 mm Suction</li> <li>14. Chainsaw</li> </ol>																						

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ITB Clause	
	<p><i>Note: The bidder may choose the following options to identify the status of the equipment:</i></p> <ol style="list-style-type: none"> <li><i>1. Proof of ownership to be included in the Technical Proposal; or</i></li> <li><i>2. Lease Agreement between lessor and lessee and Proof of Ownership of the Lessor to be included in the Technical Proposal; or</i></li> <li><i>3. Purchase Agreement between the bidder and the owner. Certification of availability of equipment from the vendor for the duration of the project</i></li> </ol> <p>Equipment pledge to this project shall not be pledge to another construction project, if the same will affect the completion time.</p> <p>However, such equipment will be acceptable provided that it will not coincide with another construction project schedule.</p>
12	Not applicable.
15.1	<p>The bid security shall be in the form of a <b>Bid Securing Declaration</b> or any of the following forms and amounts:</p> <ol style="list-style-type: none"> <li>a. The amount of not less than two percent (2%) of the ABC of each lot, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</li> <li>b. The amount of not less than five percent (5%) of the ABC of each lot if bid security is in Surety Bond.</li> </ol>
19.2	<p>Partial bid is not allowed. The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.</p>
20	<ul style="list-style-type: none"> <li>• Proof of ongoing/outstanding contracts as identified in the Statement of Ongoing Contracts Awarded but Not Yet Started Contracts, which shall include a copy of any verifiable document(s) such as but not limited to the following: (a) Notice of Award; (b) Contract/s or Purchase Order/s; (c) Notice to Proceed; and (d) Certificate of accomplishments signed by the Owner or Owner's Project Engineer or in case the project was just awarded or still in the mobilization stage, a certification in lieu of the certificate of accomplishment signed by the Owner or Owner's Project Engineer should be submitted.</li> <li>• Proof of completion of the single largest contract as identified in the Statement of Single Largest Completed Contract, which shall include a copy of any verifiable document(s) such as but not limited to the</li> </ul>

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ITB Clause	
	<p>following: (a) Contract/s or Purchase Order/s; (b) corresponding Sales Invoice/s; (c) Official Receipt/Cash Receipt/Collection Receipt; (d) Owner's Certificate of Performance Evaluation; (e) Contractor's Performance Evaluation System (CPES) rating sheet with at least satisfactory rating.</p> <ul style="list-style-type: none"> <li>* • Latest Annual Income Tax Returns (BIR Form 1701 or 1702) as filed through the Electronic Filing and Payment System (eFPS).</li> <li>* • Either of the following: <ul style="list-style-type: none"> <li>○ Value Added Tax Returns (Forms 2550M and 2550Q) covering the previous six (6) months as filed thru eFPS; or</li> <li>○ Percentage Tax Returns (Form 2551M) covering the previous six (6) months as filed thru eFPS</li> </ul> </li> </ul> <p>* Pursuant to BIR Revenue Regulations No. 03-2005 dated 16 February 2005.</p> <ul style="list-style-type: none"> <li>• Valid and updated PhilGEPS Certificate of Registration (Platinum Membership) including the updated list of eligibility documents as stated in Annex "A" of said Certificate of Registration.</li> <li>• Submission of evidences as proof of compliance with the bidder's actual offer, if applicable.</li> </ul> <p><i>N.B. Documents submitted during post-qualification as part of post-qualification documents must be certified by the authorized representative to be true copy/ies of the original.</i></p> <ul style="list-style-type: none"> <li>• The veracity of the subscribed Omnibus Sworn Statement submitted in accordance with Sec. 25.3 of the 2016 IRR of RA 9184 may be subject to verification. If found to be non-compliant, this shall serve as ground for post-disqualification as specified in GPPB Circular No. 01-2008 dated 7 March 2008.</li> </ul>
21	<p>The following documents shall be submitted by the winning bidder within ten (10) calendar days from receipt of the Notice of Award (NOA):</p> <ol style="list-style-type: none"> <li>a) Construction Schedule and S-curve;</li> <li>b) Manpower Schedule;</li> <li>c) Construction Methods;</li> <li>d) Equipment utilization schedule;</li> <li>e) Construction Safety and Health Program approved by the Department of Labor and Employment, evidence of submission as received by DOLE is acceptable).</li> <li>f) Program Evaluation and Review Technique (PERT)/Critical Path Method (CPM).</li> </ol>

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**Section IV. General Conditions of Contract**

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## 1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

## 2. Sectional Completion of Works

If sectional completion is specified in the **Special Conditions of Contract (SCC)**, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date shall apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

## 3. Possession of Site

4.1. The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the **SCC**, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.

4.2. If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

## 4. The Contractor's Obligations

The Contractor shall employ the key personnel named in the Schedule of Key Personnel indicating their designation, in accordance with **ITB** Clause 10.3 and specified in the **BDS**, to carry out the supervision of the Works.

The Procuring Entity will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or better than those of the personnel listed in the Schedule.

## **5. Performance Security**

- 5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.
- 5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

## **6. Site Investigation Reports**

The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the **SCC** supplemented by any information obtained by the Contractor.

## **7. Warranty**

- 7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.
- 7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the **SCC**.

## **8. Liability of the Contractor**

Subject to additional provisions, if any, set forth in the **SCC**, the Contractor's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Contractor is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

## 9. Termination for Other Causes

Contract termination shall be initiated in case it is determined *prima facie* by the Procuring Entity that the Contractor has engaged, before, or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation, such as, but not limited to corrupt, fraudulent, collusive, coercive, and obstructive practices as stated in **ITB Clause 4**.

## 10. Dayworks

Subject to the guidelines on Variation Order in Annex "E" of the 2016 revised IRR of RA No. 9184, and if applicable as indicated in the **SCC**, the Dayworks rates in the Contractor's Bid shall be used for small additional amounts of work only when the Procuring Entity's Representative has given written instructions in advance for additional work to be paid for in that way.

## 11. Program of Work

11.1. The Contractor shall submit to the Procuring Entity's Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the **SCC**.

11.2. The Contractor shall submit to the Procuring Entity's Representative for approval an updated Program of Work at intervals no longer than the period stated in the **SCC**. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity's Representative may withhold the amount stated in the **SCC** from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

## 12. Instructions, Inspections and Audits

The Contractor shall permit the GOP or the Procuring Entity to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors of the GOP or the Procuring Entity, as may be required.

## 13. Advance Payment

The Procuring Entity shall, upon a written request of the Contractor which shall be submitted as a Contract document, make an advance payment to the Contractor in an amount not exceeding fifteen percent (15%) of the total contract price, to be made in lump sum, or at the most two installments according to a schedule specified in the **SCC**, subject to the requirements in Annex "E" of the 2016 revised IRR of RA No. 9184.

## **14. Progress Payments**

The Contractor may submit a request for payment for Work accomplished. Such requests for payment shall be verified and certified by the Procuring Entity's Representative/Project Engineer. Except as otherwise stipulated in the **SCC**, materials and equipment delivered on the site but not completely put in place shall not be included for payment.

## **15. Operating and Maintenance Manuals**


15.1. If required, the Contractor will provide "as built" Drawings and/or operating and maintenance manuals as specified in the **SCC**.

15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative may withhold the amount stated in the **SCC** from payments due to the Contractor.

## ***Section V. Special Conditions of Contract***


# Special Conditions of Contract

GCC Clause	
2	The intended completion date is within one hundred eighty (180) calendar days from receipt of the Notice to Proceed.
4.1	No further instructions.
6	No further instructions.
7.2	<ol style="list-style-type: none"> <li>1. The Contractor shall issue a Certificate of Warranty to TESDA;</li> <li>2. The warranty shall commence upon receipt of the Certificate of Acceptance and effective for <b>two (2) years</b>;</li> <li>3. Provision for construction materials with warranties above <b>two (2) years</b> must be itemized and completed with its specifications upon a written document separately;</li> <li>4. The contractor shall undertake repair works at his own expense, of any damage in the infrastructure on account of the use of materials of inferior quality, within ninety (90) days from the time the HOPE has issued an order to undertake repair. In case of failure or refusal to comply with this mandate, the Procuring Entity shall undertake such repair works and shall be entitled to full reimbursement of expenses incurred therein upon demand. The defect liability period shall be covered by the Performance Security of the Contractor; and</li> <li>5. TESDA shall be notified in case of any changes in the office address and contact details of the Contractor.</li> </ol>
10	Day and night shifts are applicable at the rate shown in the Contractor's original Bid.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within <b>ten (10) calendar days</b> of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is <b>ten percent (10%) of the amount of the next billing process.</b>
13	<p>The amount of the advance payment is <b>fifteen percent (15%) of the total contract price which shall be given not later than fifteen (15) days from receipt of the Contractor's request subject to the requirements.</b></p> <p>The amount of the advance payment is fifteen percent (15%) of the Contract Price to be recoup every progress billing which shall be given to the contractor not later than fifteen (15) calendar days from receipt by the Procuring Entity of the following documents:</p> <ol style="list-style-type: none"> <li>a) Letter request for release of 15% advance payment</li> <li>b) Irrevocable standby letter of credit of equivalent value from a commercial bank, a bank guarantee or a surety bond callable on demand, issued by a surety or insurance company duly licensed by the Insurance Commission and confirmed by the Procuring Entity.</li> </ol>

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GCC Clause	
15.1	The submission of "As Built" Drawings/Plan, which are signed and sealed by License Engineers/Professionals, shall be submitted in hard copies and e-copies (in cad format) within ten (10) calendar days after project completion.
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is one percent (1%) of the final contract price.

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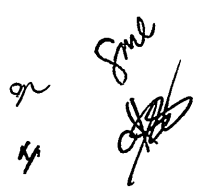
## ***Section VI. Specifications***

Bidders must state here either “**Comply**” or **any equivalent term** in the column “Bidder’s Statement of Compliance” against each of the individual parameters of each “Specification.”


Specifications	Bidder’s Statement of Compliance
<p><b><u>EXPECTED OUTPUT</u></b></p> <p>One (1) 3-storey Innovation Center with roof deck constructed in accordance with the approved detailed architectural, engineering designs, program of works and other technical plans. It will provide the platforms for innovative and authentic learning for learners to achieve higher level competencies, practice 21st century skills and develop entrepreneurial competencies.</p>	
<p><b><u>PROJECT DESCRIPTION</u></b></p> <p>The project includes facilities for technology research and innovation, makers space and prototyping and business start-up activities.</p> <p>The 3-storey building is occupied with the following functions:</p> <ul style="list-style-type: none"> <li>• Ground Level - Maker’s Space, Prototyping Area, Display Area, Business Incubation and Start-up area, Business Meeting Rooms, AHU Room, FCC Room/Security Room, TELCO Room, EE Room PWD Toilet, Male/ Female Toilet</li> <li>• 2<sup>nd</sup> Level - Computer Room, Research Laboratory, Learning Resource Area, AHU Room, EE Room, Multi-function Room, Control/AVR Room, Storage, PWD Toilet, Male/Female Toilet</li> <li>• 3<sup>rd</sup> Level - Regional Support Offices, General Meeting Room, Command Center, AHU Room, Malasakit Desk, EE Room, PWD Toilet, Male/ Female Toilet, Lecture Room</li> <li>• Roof Deck - Office Filing/Supplies Area, Water Tank Location, Machine Room, Multi-Purpose Area, Solar Panel Farm</li> </ul>	

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Specifications	Bidder's Statement of Compliance
<p>The 3-storey building is located beside Building 14 (RTC-NCR, Main Building) with a total lot area of approximately 2000 square meters. The proposed building is measured 20 meters in width and 25 meters in length. Each floor measures approximately 500 square meters.</p> <p>The scope of the project to be accomplished includes the following:</p> <ul style="list-style-type: none"> <li>• General Requirements - mobilization, demolition of existing structure, site clearing, demobilization, permits <ul style="list-style-type: none"> <li><input type="checkbox"/> Earthworks - structure excavation and embankment</li> <li><input type="checkbox"/> Concrete Works - foundation, beams, columns, slabs, stairs, shear wall</li> <li><input type="checkbox"/> Steel Works - concrete reinforcement</li> <li><input type="checkbox"/> Form Works - Forms</li> <li><input type="checkbox"/> Masonry Works - CHB Walls, Plastering</li> <li><input type="checkbox"/> Roofing Works - steel trusses, roof sheeting</li> <li><input type="checkbox"/> Doors and Windows - jambs and glasses</li> </ul> </li> <li>• Aluminum Composite Panel and Façade - aluminum metal claddings, tempered glass walls <ul style="list-style-type: none"> <li><input type="checkbox"/> Finishing Works - Ceiling</li> <li><input type="checkbox"/> Electrical Wires - lighting and small power system, auxiliary system, electrical wires, conduits and fittings, distribution system, miscellaneous systems.</li> <li><input type="checkbox"/> Plumbing Works - sanitary sewer, waste and vent, water distribution system, storm water drainage system, plumbing fixtures, miscellaneous</li> <li><input type="checkbox"/> Equipment Costs - operational and rental</li> </ul> </li> </ul>	

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Specifications	Bidder's Statement of Compliance
<p><b><u>SCOPE OF WORK</u></b></p> <p>The Contractor is required to perform the following scope of work:</p> <p><b>I. GENERAL REQUIREMENTS</b></p> <p><b>I.1. Mobilization and Demobilization</b></p> <p><b>I.1.a.</b> The <b>CONTRACTOR</b> upon receipt of the Notice-to-Proceed (NTP) shall immediately mobilize and transport his equipment, materials and labor forces to the site and demobilize or remove the same at the completion of project and clear the site acceptable to the <b>TESDA PROJECT MANAGEMENT TEAM</b>. All of which shall be coordinated with the TESDA Security Personnel for proper documentation.</p> <p><b>I.1.b.</b> Mobilization and Demobilization are incidental to other items of work and will be measured based on the progress of work.</p> <p><b>I.2. Occupational Safety and Health Program</b></p> <p><b>I.2.a.</b> The <b>CONTRACTOR</b> shall take ample precautions against fire by keeping away flammable materials, and ensure that such materials are properly handled and stored. Fire extinguisher shall be installed in the storage of flammable materials.</p> <p><b>I.2.b.</b> The <b>CONTRACTOR</b> shall follow existing safety laws and regulations in the workplace and shall generate/submit relevant reports/documents thereof. The DOLE approved safety and health program shall be available at any time and to anyone in the workplace.</p> <p><b>I.2.c.</b> The <b>CONTRACTOR</b> shall conform with the guidelines and requirements for the "NEW NORMAL" being implemented by the DOST as per Inter Agency Task Force Guidelines on the Implementation of community quarantine</p>	

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Specifications	Bidder's Statement of Compliance
<p>in the Philippines and DPWH-DO no. 95 series of 2020.</p> <p><b>I.3. Permits and Clearances</b></p> <p><b>1.3.a.</b> The <b>CONTRACTOR</b> shall pay the tax, wherever the law of the place where the project is located requires a sales, consumer, use, or other similar tax related or pertinent only to the construction of the project.</p> <p><b>I.4. Project Billboard</b></p> <p><b>1.4.a.</b> Scope of works shall include supply of materials and erection of Project Billboard (Please refer to the plans provided).</p> <p><b>I.5. Removal of Structure and Obstructions</b></p> <p><b>1.5.a.</b> Scope of works shall include the demolition of the Existing Building No. 12. And the tree trunks and branches that might be considered obstruction in the construction site.</p> <p><b>II. EARTHWORK</b></p> <p><b>II.1. Structural Excavation</b></p> <p><b>II.1.a.</b> Scope of work shall consist necessary excavation for the foundation of building structure and Grade tie beams.</p> <p><b>II.2. Embankment</b></p> <p><b>II.2.a.</b> Scope of work shall consist the construction of embankment in accordance with this specification and in conformity with lines, grades and dimension shown on the Plans or established by the Engineer.</p> <p><b>II.2.b.</b> Scope of work shall consist filling of excavated footing after the concretion of building foundation.</p>	

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Specifications	Bidder's Statement of Compliance
<p><b>III. CONCRETING WORK</b></p> <p><b>III.1. Structural Concrete</b></p> <p><b>III.1.a.</b> Scope of work shall consist of furnishing all labor, materials, equipment and other incidentals placing and finishing concrete in all structure in accordance with this specification and conforming to the lines, grades and dimensions shown on the Plans.</p> <p><b>III.2.b.</b> Concrete shall consist of mixture of Portland Cement, fine aggregate, coarse aggregate, admixture when specified, and water mixed in the proportions specified or approved by the <b>TESDA PROJECT MANAGEMENT TEAM.</b></p> <p><b>IV. STEEL WORK</b></p> <p><b>IV.1. Steel work</b></p> <p><b>IV.1.a.</b> Scope of work shall consist of furnishing all labor, materials, equipment and other incidentals, bending, fabricating and placing of steel reinforcement of the type, size, shape, and grade required in accordance with this specification and conformity with the requirements shown on Plans or as directed by the <b>TESDA PROJECT MANAGEMENT TEAM.</b></p> <p><b>V. MASONRY WORK</b></p> <p><b>V.1 Masonry work</b></p> <p><b>V.1.a.</b> Scope of work shall supply all specified concrete blocks, and mortars complete with all necessary reinforcing steel, ties, lintels, grout, accessories and all expertise, supervision, labor, layout, equipment, tools, and miscellaneous items required for a complete masonry job in accordance with Plans and specification.</p>	

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Specifications	Bidder's Statement of Compliance
<p><b>V.1.b.</b> All areas with plastering works must have smooth finish such as the interior &amp; exterior walls and flooring and must conform as per directed by the <b>TESDA PROJECT MANAGEMENT TEAM.</b></p> <p><b>V.1.c.</b> All work shall be performed in accordance with contract documents, specifications and drawings.</p> <p><b>VI. FORM WORK</b></p> <p><b>VI.1 FORMWORK</b></p> <p><b>V1.1.a.</b> Scope of work shall consist of designing, constructing and removing forms and falsework to temporarily support concrete, girders and other structural elements until the structure is completed to the point it can support itself.</p> <p><b>VI.1.b.</b> The materials used for smooth form finish shall be plywood, tempered concrete-form-grade hardboard, metal, plastic, paper or other acceptable materials capable of producing the desired finish for form facing materials. Form-facing materials shall produce a smooth, uniform texture on the concrete. Form-facing materials with raised grain, torn surfaces, worn edges, patches, dents, or other defects that will impair the texture of concrete surfaces shall not be permitted. No form-facing material shall be specified for rough form finish.</p> <p><b>VI.1.c.</b> The materials to be used in the falsework construction shall be of the quantity and quality necessary to withstand the stresses imposed; it may be timber or steel or a combination of both. The workmanship shall be of such quality that the falsework will support the loads imposed on it without excessive settlement or take-up beyond as shown on the falsework drawings.</p>	

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Specifications	Bidder's Statement of Compliance
<p><b>VI.2 SCAFFOLDING WORK</b></p> <p><b>VI.2.a.</b> Scope of work shall consist of erecting, altering or dismantling a temporary structure erected to support a platform and from which a person or object could fall more than 4 meters from the platform or the structure. Scaffolding work must be undertaken by a person holding the appropriate class of high-risk work license.</p> <p><b>VI.2.b.</b> The <b>CONTRACTOR</b> shall supply his own transport of adequate size to move own labor, materials, tools and equipment in order to provide an effective and efficient service as mentioned.</p> <p><b>VII. ROOFING WORKS</b></p> <p><b>VII.1.a.</b> Scope of work shall consist of furnishing all labor, materials, equipment and other incidentals, fabricating, welding and erection of Roof frame truss, Purlins, Long span roofing sheet, sagrod and cables (if needed) installation of bolt, gutter, flashing and roofing accessory in accordance with this specification.</p> <p>Note: (SEE APPROVED PLANS)</p> <p><b>VIII. DOORS AND WINDOWS</b></p> <p><b>VIII.1.a.</b> Scope of works shall include supply of materials and installation of doors and windows. All materials shall be checked and to be approved by the <b>TESDA PROJECT MANAGEMENT TEAM</b> or its representative for approval along with the manufacturer's description and technical specification documents. Submission shall be ahead of time to avoid delays. Non approval of materials by the procuring entity shall mean no delivery and no installation to be made. (See doors and windows schedule).</p>	

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Specifications	Bidder's Statement of Compliance
<p><b>IX. ALUMINUM COMPOSITE PANEL AND FAÇADE</b></p> <p><b>IX.1.</b> Scope of work shall consist of furnishing all labor, materials, equipment and other incidentals, fabricating and placing of Aluminum composite panel and facade required in accordance with this specification and conformity with the requirements shown on Plans or as directed by the <b>TESDA PROJECT MANAGEMENT TEAM.</b></p> <p><b>X. ELECTRICAL WORKS</b></p> <p><b>X.1.</b> Scope of work shall construct the electrical and power supply system of the building in accordance with the Philippine Electrical Code, Philippine Mechanical Code, Fire Code of the Philippines, International Life Safety Code (NFPA 101), National Electrical Code (NFPA 70), National Building Code of the Philippines and other relevant codes, laws and ordinances.</p> <p><b>X.2.</b> The Contractor shall supply and install complete lighting system, conduits, fittings, wires and wiring devices as well as grounding system and lightning arrester. The Contractor shall likewise furnish and install complete power system including all feeders, branch, circuits, wires and wiring devices. The Contractor shall supply and furnish all materials brand new and of superior quality. All wires must be sized to accommodate peak loads and future installation of additional electric-powered equipment and machineries.</p> <p><b>X.3.</b> The Contractor shall likewise supply and install local area network (LAN) wiring and structured cabling and other accessories suited for fiber optic connection for automatic link between main and satellite offices. All tables and cubicles shall have ready-provision for voice and data system. The Contractor shall coordinate with the <b>Innovation Center-NCR</b> personnel and its voice and data service providers for the configuration of the communications system. The Contractor shall supply and furnish all materials brand new and of superior quality. All wirings and accessories must be property sized suited for the operation of <b>Innovation Center-NCR.</b></p>	

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Specifications	Bidder's Statement of Compliance
<p><b>X.4.</b> The Contractor shall supply and install all wiring &amp; wiring devices and other accessories necessary for its function and operation. The Contractor shall supply and furnish all materials brand new and of superior quality.</p> <p>In general, electrical works shall consist of the following:</p> <ol style="list-style-type: none"> <li>1. Electrical layout plan showing system of wiring, source, distribution, riser diagrams, panel boxes, and switches, and all other pertinent material as required by approving agencies.</li> <li>2. Power provision shall be provided by the Contractor; however, the demand load, power supply and distribution line shall be coordinated by the Contractor with the local utility provider, assisted by the <b>TESDA</b>. Application for new power meter and load deposit fee for the power transformer shall be facilitated and borne by the Owner but the required documentary requirements such as load computation, electrical plans and diagrams shall be provided by the Contractor. Power house/mechanical room with transformer pad shall be strategically located and designed as part of the site development.</li> </ol> <p>Electrical wirings and accessories shall be:</p> <ol style="list-style-type: none"> <li>i. Service Entrance – All wirings shall be THHN, IMC conduit, UL listed or approved equal.</li> <li>ii. Interior Wiring – All wirings shall be THHN, 3.5mm<sup>2</sup> minimum size in PVC, sch. 40 conduit.</li> <li>iii. Devices – All switches and receptacle shall be flush mounted type, 15 ampere, grounding type for convenience outlet.</li> <li>iv. Circuit Breaker – Bolt-on type</li> <li>v. Panel Board – Ga. 16 GI sheet powder coated finish.</li> </ol> <ol style="list-style-type: none"> <li>3. Fire Detection and Alarm System <ol style="list-style-type: none"> <li>i. Every room and office shall be provided with smoke detector with minimum radius of 4.5-meters coverage or as specified in the National Fire Alarm and Signaling Code (NFPA 72).</li> <li>ii. Every exit door and stairs shall be provided with Manual Pull Station and Bell/Siren.</li> </ol> </li> </ol>	

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[Signature]


Specifications	Bidder's Statement of Compliance
<p>iii. Fire Alarm Control Panel (FACP) for the building shall be located at the Fire Command Center.</p> <p>iv. The Contractor shall supply and install fire detection and alarm that can accommodate the minimum requirements in the operation of the system. All alarm assembly and alarm supervision system shall be UL listed and FM approved.</p> <p>v. All furnishings required in the scope of work shall be to the satisfaction and approval by the Owner.</p> <p>4. Telephone</p> <p>i. Service Entrance Provision – Shall be provided by the local utility provider.</p> <p>ii. Location of Service Entrance – Shall coordinate up to the Main Distribution Frame (MDF) of the building.</p> <p>iii. Provide 2 - 110mm diameter PVC conduit spare for future expansion.</p> <p>iv. Main Distribution Frame (MDF) – Size shall be size up to 30% spare provision for future expansion, use Ga. 16 GI sheet in powder coated finish.</p> <p>v. Telephone Terminal Cabinet (TTC) – Shall be provided for every floor level.</p> <p>vi. New telephone units shall be provided as required.</p> <p>vii. Telephone system design shall suit the <b>Innovation Center-NCR</b> operations with easy and quick communication links between main and satellite offices.</p> <p><b>XI. PLUMBING WORKS</b></p> <p><b>XI.1.</b> Scope of work shall consist of furnishing all labor, materials, equipment and other incidentals to be used in the installation of sewer line, water line, septic tank details and other fixtures to be installed inside the building.</p> <p><b>XI.2.</b> Scope of work supply and install complete plumbing and sanitary systems including fixtures, fittings, appurtenances and piping system, among others. The use of low-flow fixtures is hereby recommended. Complete installation shall mean not only the major equipment and apparatus conveyed in these specifications, but all the incidental sundry components necessary for the complete execution of the works and for the proper</p>	

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Specifications	Bidder's Statement of Compliance
<p>operation of the installation, whether or not these supply components are not mentioned in detail in these specifications.</p> <p><b>XI.3.</b> The Contractor shall supply and furnish all materials brand new and of superior quality. All fixtures must be sized according to use and its projected number of users.</p> <p><b>XI.4.</b> All furnishings required in the scope of work shall be to the satisfaction and approval by the <b>TESDA PROJECT MANAGEMENT TEAM.</b></p> <p><b>XI.5. Fire Protection and Suppression Systems</b></p> <p><b>XI.5.a.</b> The fire prevention requirements, fire hydrants and fire hoses shall be provided on locations as specified in the codes, standards and local building laws, as applicable.</p> <p><b>XI.5.b.</b> The fire hose cabinet shall be installed for the purpose of extinguishing of fire in its incipient stage. Standpipe system shall be meeting Class II requirement. Standpipe lines are only bounded to have its roughing ins up until the fire sprinklers are <b>planned.</b></p> <p><b>XI.5.c.</b> The portable and mobile type fire extinguishers of required number and type shall be installed.</p> <p><b>XII. INSPECTION PRIOR TO TURN OVER</b></p> <p><b>XII.1. Inspection</b></p> <p><b>XII.1.a.</b> Joint inspection shall be done by the CONTRACTOR, <b>TESDA PROJECT MANAGEMENT TEAM</b> and the <b>END USER.</b> Any punch list based on the inspection by the <b>TESDA PROJECT MANAGEMENT TEAM</b> and the <b>END USER</b> shall be given to the CONTRACTOR for rectification.</p>	

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Specifications	Bidder's Statement of Compliance
<p><b>XII.2. Rectification</b></p> <p><b>XII.2.a.</b> If there will be any rectification or back job by the CONTRACTOR, may it only be done within maximum of fifteen (15) days and is subject for approval of <b>TESDA PROJECT MANAGEMENT TEAM.</b></p> <p><b>XII.2.b.</b> If rectification works are completely done and approved, the <b>END USER</b> should issue the contractor a certificate of completion prior to their work done including the warranties of materials supplied.</p>	
<p><b><u>IMPLEMENTATION STRATEGIES</u></b></p> <p>A. Mobilization Phase</p> <ol style="list-style-type: none"> <li>1. Prepare temporary facilities such as field offices for the engineers and quarters for laborers, storage area for the construction material;</li> <li>2. Prepare Billboard (COA);</li> <li>3. Obtain and transport to jobsite equipment, materials, tools, personnel, constructional plant and all necessary items for the execution and completion of the work;</li> <li>4. Also include sufficient supply of spare parts for the construction plant. Breakdowns are to be repaired on site by the most expeditious, method possible at no cost to TESDA. In the event equipment are beyond repairs and need to be removed from the site, then a replacement equipment of a similar capacity shall be provided by the contractor at no additional mobilization costs to TESDA nor extension of completion of works;</li> <li>5. Construction equipment once moved into the project site, checked and accounted for by the TESDA shall not be permitted, prior to the completion of the contract, to be moved out or transferred by the Contractor to another project site without the written approval of the Owner; and</li> </ol>	


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Specifications	Bidder's Statement of Compliance
<p>6. Periodic check-up of the Contractor's equipment moved-in for the contract shall be conducted by the TESDA. The Contractor will pay to the TESDA the amount equivalent to the rental rates of any equipment not accounted for during check-up for the number of calendar days the equipment has been removed (without the written consent of the Owner) from the project site until the said equipment have been returned. Such cases are grounds for disapproval of claims for time extensions of the Contractor.</p> <p><b>B. Construction Phase</b></p> <p>The construction phase includes but not limited to the following conditions:</p> <ol style="list-style-type: none"> <li>1. Complete construction of the structural component of the building from the foundation up to roof deck. From the ground floor up to the 3rd floor: all the building's systems (electrical, mechanical, plumbing/sanitary and telecommunication, FDAS etc.) shall be complete and rendered fully functional as per Scope of Works (SOW) of the project;</li> <li>2. Implement all works indicated in the approved construction drawings and documents. All revisions and deviation from the approved plans, especially if it shall impact the overall cost of the project, shall be subject for approval;</li> <li>3. Provide soil filling, grading and other soil protection measures of the building and other elements of the site, in response to the results of soil testing and materials testing;</li> <li>4. Construct the building and other necessary structures, complete with utilities and finishes, as per SOW of the project, resulting in operable and usable structures;</li> <li>5. Construct sidewalks and curb cutouts, paving, driveways, parking slots, and, walkways within the project site as identified in the Program of Work (POW) but only limited to its SOW;</li> </ol>	


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Specifications	Bidder's Statement of Compliance
<p>6. Provide protection or relocation of existing trees affected by construction, if any;</p> <p>7. Preparation of shop-drawings for approval only, if necessary, in actual construction, also such shop drawings with form part of the requirements for progress payments if considered as additional work;</p> <p>8. Coordinate with the TESDA regarding scheduling of delivery and installation of all owner-furnished materials and equipment during construction;</p> <p>9. Conduct all necessary tests and issue reports of results;</p> <p>10. Rectification of punch-listing works to be inspected and issued by TESDA;</p> <p>11. As a rule, contract implementation guidelines for procurement of infrastructure projects shall comply with the revised IRR of RA 9184. The following provisions shall supplement the procedures:</p> <ul style="list-style-type: none"> <li>• No works shall commence unless the contractor has submitted the prescribed documentary requirements and the project has given written approval, Work execution shall be in accordance with reviewed and approved documents.</li> <li>• Obtain all necessary information as work to risks, contingencies and other circumstances which may affect the works and shall prepare and submit all necessary documents specified by the concerned Building Officials to meet all regulatory approvals as specified in the contract documents.</li> <li>• Submit a detailed program of works within (7) calendar days after the issuance of the Notice to Proceed for approval by the Procuring Entity that shall include, among others: <ul style="list-style-type: none"> <li>a. The order in which it tends to carry out the work including anticipated timing for each stage of construction; and</li> <li>b. Periods for review of specific outputs and any other submission and approvals.</li> </ul> </li> </ul>	

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Specifications	Bidder's Statement of Compliance
<p>12. Sequence of timing for inspection and tests;</p> <p>13. Construction methods to be adopted;</p> <p>14. List of equipment required on site for each stage of the work;</p> <p>15. Description of the quality control system to be utilized for the project.</p> <p>16. Any errors, omissions, inconsistencies, inadequacies or failure submitted by the contractor that does not comply with the requirements shall be rectified, resubmitted and review at the contractor's cost. If the contractor wishes to modify the design or document which has been previously submitted, reviewed and approved, the contractor shall notify the TESDA within reasonable period of time and shall identify and approved the cost of such changes.</p> <p>17. As a rule, changes in design and construction requirements shall be limited only to those that have not been anticipated in the contract documents prior to contract signing and approval. The following guidelines shall govern approval for change or variation orders:</p> <ul style="list-style-type: none"> <li>• Change orders resulting from design errors, omissions, or nonconformance with the performance specifications and parameters and the contract documents by the contractor shall be implemented by the contractor at no additional cost to the project; and</li> <li>• Provided that the contractor suffers delay and/or incur costs due to changes or errors in the project performance specifications and parameters, the contractor shall be entitled to either one of the following: <ul style="list-style-type: none"> <li>a. An extension of time for any such delays under Section 10 of Annex "E" of R-1RR (RA 9184); or</li> <li>b. Payment for such costs as specified in the contract documents, provided, that the</li> </ul> </li> </ul>	


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Specifications	Bidder's Statement of Compliance
<p>cumulative amount of the variation order does not exceed ten percent (10%) of the original project cost.</p> <ul style="list-style-type: none"> <li>• Under no circumstances shall a contractor proceed to commence work under any Change Order or Extra Work Order unless it has been approved by the Head of the Procuring Entity or his duly authorized representative.</li> </ul> <p>However, under any or the following conditions, the Procuring Entity's representative/Project Engineer may, subject to the availability of funds and within the limits of the delegated authority, allow the immediate start of work under any Change Order or Extra Work Order:</p> <ul style="list-style-type: none"> <li>a. In the event of an emergency where the prosecution of the work is urgent to avoid detriment to public service, or damage to life and/or property, and/or</li> <li>b. When time is of the essence.</li> </ul> <p>18. The project shall define the quality control procedures for the construction in accordance with the project guidelines and shall issue the proper certificates of acceptance for sections of the works or whole of the works as provided for in the contract documents;</p> <p>19. Provide all necessary equipment personnel, instruments, documents and others to carry out specified tests; and</p> <p>20. The contractor shall be held liable for the structural defects and/or failure of the completed project for permanent structures/buildings as specified in RA9184 and its implementing rules and regulations.</p> <p><b>C. Post-Construction Phase</b></p> <p>The Contractor shall perform the following post-construction requirements:</p> <ul style="list-style-type: none"> <li>1. Prepare and submit as-built plans;</li> </ul>	

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Specifications	Bidder's Statement of Compliance
<p>2. Turn-over of all manuals, certificates and warranties of installed items;</p> <p>3. Provide all other necessary documents that TESDA shall require;</p> <p>4. Test and commission all mechanical, electrical, electronics and plumbing/sanitary systems that have been installed to provide the TESDA a high level of assurance that all systems are installed in a prescribed manner;</p> <p>5. Address problems as observed, immediately by the Contractor and shall submit a schedule for the commissioning process which is integrated in the construction schedule; and</p> <p>6. Assist in the securing of the Building Occupancy Permit.</p> <p>D. De-Mobilization Phase</p> <p>1. Dismantle and remove from the project site all the materials and equipment and all temporary facilities</p> <p>2. Clean-up of the site after completion of the contract as approved by the Project Manager and transportation from the site of Contractor's personnel.</p>	
<p><b><u>MISCELLANEOUS PROVISIONS</u></b></p> <p>1. The Contractor shall conform with the Environment Management System (EMS) being practiced by several government agencies in accordance with ISO 14001-2015 by providing the following:</p> <p>1.1 A List of pre-identified Environmental Aspects and Impacts and the corresponding operational control or crisis response procedures in cases of emergency situations shall be submitted to the TESDA General Services Division – Administrative Service (GSD-AS) <b>three (3) days</b> upon receipt of the NTP;</p> <p>1.2 All supplies and materials to be brought inside TESDA premises shall be environment friendly (if</p>	

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Specifications	Bidder's Statement of Compliance
<p>applicable) and bear the corresponding Material Safety Data Sheet (MSDS);</p> <p>1.3 All toxic and hazardous materials necessary for the completion of the project shall be properly labelled with MSDS and placed in a secondary containment, which shall be located at the safest place in the working area; and</p> <p>1.4 All toxic and hazardous wastes generated shall be properly turnover to the Materials Recovery Facility (MRF) of the TESDA Central Offices for the inventory and subsequent disposition enlisting the services of authorized treater/transporter.</p> <p>2. The Contractor shall ensure that all staff must wear their proper working apparels with IDs and provided with necessary safety gears;</p> <p>3. The Contractor shall strictly prohibit the use of polystyrene foam, such as Styrofoam, and plastic in the working area;</p> <p>4. The Contractor shall comply with all existing laws, decrees, ordinances, acts and regulations of the Philippines that may affect the contract in any way, including the express and implied warrantless and liabilities which may be found therein; and</p> <p>5. The Contractor shall comply with all existing laws and pertinent local legislation, executive and administrative orders, together with all implementing rules and regulations issued by the Department of Labor and Employment (DOLE) and other relevant governmental authorities.</p>	

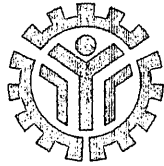
**I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.**

_____ <b>Name of Company/Bidder</b>	_____ <b>Signature over Printed Name of Authorized Representative</b>	_____ <b>Date</b>
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## ***Section VII. Drawings***




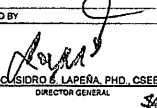
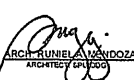
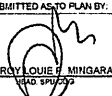
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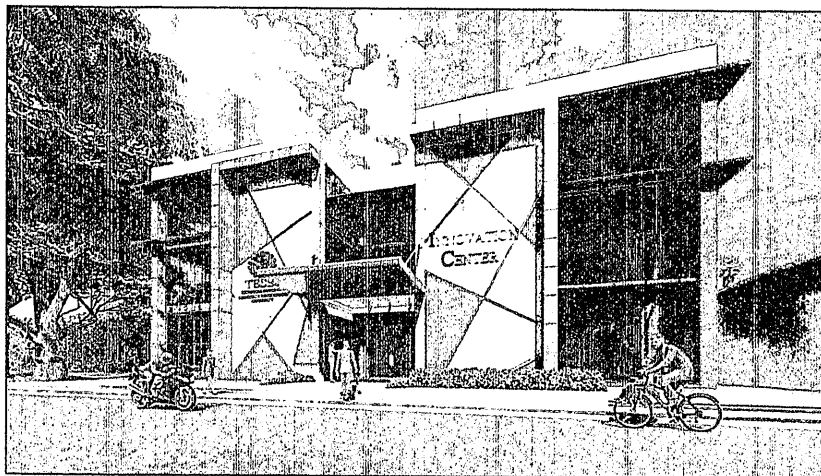


REPUBLIC OF THE PHILIPPINES  
**TECHNICAL EDUCATION  
 AND  
 SKILLS DEVELOPMENT  
 AUTHORITY**

**PLANS FOR THE  
 INNOVATION CENTER  
 NATIONAL CAPITAL REGION  
 TESDA - NCR**

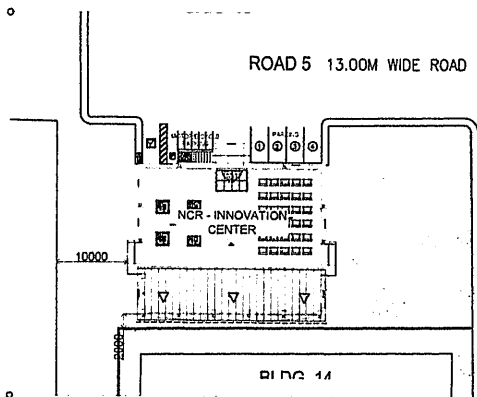
**LOCATION: TESDA COMPLEX, EAST SERVICE ROAD, SLEX, FORT BONIFACIO,  
 TAGUIG CITY**

 <p>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	<p>CONCURRED BY</p>  <p>DIR. DANIEL B. RUNGALLON EXECUTIVE DIRECTOR, TESDA</p>	<p>RECOMMENDING APPROVAL</p>  <p>DIR. NESTOR O. OROZCO CHIEF OF STAFF OFFICE OF THE DIRECTOR GENERAL</p>	<p>APPROVED BY</p>  <p>SEC. SIDRO S. LAPEÑA, PH.D., CSEE DIRECTOR GENERAL</p>	<p>PROJECT TITLE</p> <p>PROPOSED TESDA INNOVATION CENTER - NCR</p> <p><small>LOCATION: TESDA Complex, East Service Rd. SLEX, Fort Bonifacio, Taguig City</small></p>	<p><small>REVISED AND REFINANCED AND      UNDER CONTRACT OCCUPANCY AND THE      PRESENTATION OF THE      EQUIPMENT OF TECHNICAL EDUCATION      AND SKILLS DEVELOPMENT AUTHORITY      AND HAS BEEN REVIEWED AND      APPROVED BY THE BOARD OF      TECHNICAL EDUCATION AND SKILLS      DEVELOPMENT AUTHORITY</small></p>	<p>PREPARED BY</p>  <p>ARCH. RANIEL A. MENDOZA ARCHITECT, SP/REGD</p>	<p>CHECKED &amp; SUBMITTED AS TO PLAN BY:</p>  <p>ENGR. ROY LOUIE M. BINIGARACAL UPD SP/REGD</p>	<p>SHEET CONTENTS</p> <p>COVER PAGE</p>	<p>SHEET NO.</p> <p>CS-1</p>
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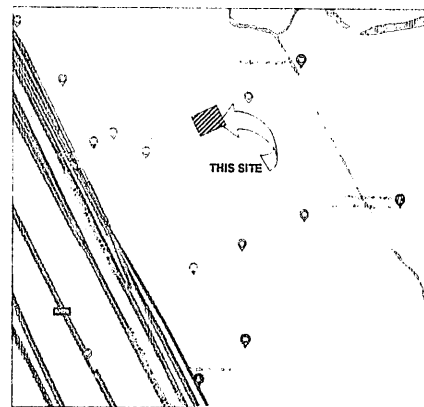
TESDA INNOVATION CENTER - NCR  
EXTERIOR PERSPECTIVE 01

SCALE: \_\_\_\_\_ NTS



TESDA INNOVATION CENTER - NCR  
SITE DEVELOPMENT PLAN

SCALE: \_\_\_\_\_ NTS



TESDA INNOVATION CENTER - NCR  
VICINITY/LOCATION MAP

SCALE: \_\_\_\_\_ NTS

RECOMMENDING APPROVAL

HEAD ARCHITECTURAL SECTION DATE

APPROVED BY

BUILDING OFFICIAL DATE

LAND USE & ZONING

BUILDING OFFICIAL DATE

LINE & GRADE

BUILDING OFFICIAL DATE

ARCHITECTURAL

BUILDING OFFICIAL DATE

STRUCTURAL

BUILDING OFFICIAL DATE

SANITARY

BUILDING OFFICIAL DATE

ELECTRICAL

BUILDING OFFICIAL DATE

MECHANICAL

BUILDING OFFICIAL DATE



TECHNICAL EDUCATION  
AND  
SKILLS DEVELOPMENT  
AUTHORITY

CONCURRED BY

DIR. CARABIB BUNGALLON  
EXECUTIVE DIRECTOR INTSDO

RECOMMENDING APPROVAL

DIR. JULIET B. OROZCO  
CHIEF OF STAFF  
OFFICE OF THE DIRECTOR GENERAL

APPROVED BY

SEC. ISIBRO S. LAGERA, PH.D., CSEE  
DIRECTOR GENERAL

PROJECT TITLE

PROPOSED TESDA  
INNOVATION CENTER - NCR

LOCATION: TESDA Complex, East Gateway Rd. (ELEX) First Suburbia, Taguig City

DESIGNED AND PREPARED BY  
ARCHITECTURAL SECTION  
AND CIVIL ENGINEERING SECTION  
OF THE BUREAU OF ARCHITECTURE  
AND CONSTRUCTION  
AND  
THE BUREAU OF TECHNICAL EDUCATION  
AND SKILLS DEVELOPMENT AUTHORITY  
AND  
THE BUREAU OF SANITARY ENGINEERING  
AND  
THE BUREAU OF ELECTRICAL ENGINEERING  
AND  
THE BUREAU OF MECHANICAL ENGINEERING  
AND  
THE BUREAU OF INDUSTRIAL ENGINEERING  
AND  
THE BUREAU OF CHEMICAL ENGINEERING  
AND  
THE BUREAU OF METALLURGICAL ENGINEERING  
AND  
THE BUREAU OF AERONAUTICAL ENGINEERING  
AND  
THE BUREAU OF MARINE ENGINEERING  
AND  
THE BUREAU OF TRANSPORTATION ENGINEERING  
AND  
THE BUREAU OF ENVIRONMENTAL ENGINEERING  
AND  
THE BUREAU OF AGRICULTURAL ENGINEERING  
AND  
THE BUREAU OF FISHERIES ENGINEERING  
AND  
THE BUREAU OF FORESTRY ENGINEERING  
AND  
THE BUREAU OF MINING ENGINEERING  
AND  
THE BUREAU OF PETROLEUM ENGINEERING  
AND  
THE BUREAU OF CHEMICAL ENGINEERING  
AND  
THE BUREAU OF METALLURGICAL ENGINEERING  
AND  
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AND  
THE BUREAU OF FISHERIES ENGINEERING  
AND  
THE BUREAU OF FORESTRY ENGINEERING  
AND  
THE BUREAU OF MINING ENGINEERING  
AND  
THE BUREAU OF PETROLEUM ENGINEERING

PREPARED BY

ARCH. DANIELA A. ANDRADA  
ARCHITECT (REGISTERED)

CHECKED & SUBMITTED AS TO PLAN BY

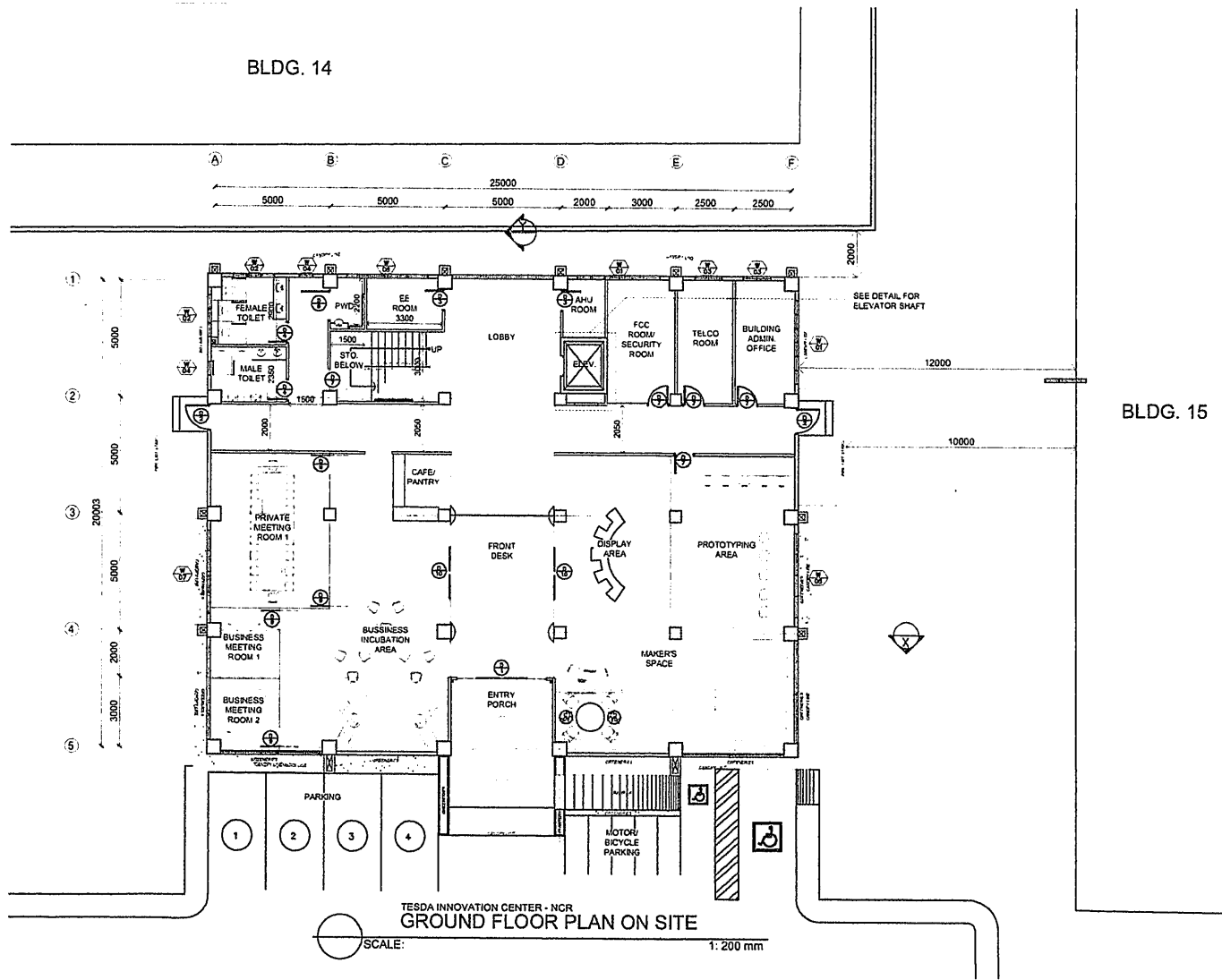
ENGR. ROY LOUIS P. MINGARACAL  
FIELD SUPERVISOR


SHEET CONTENTS

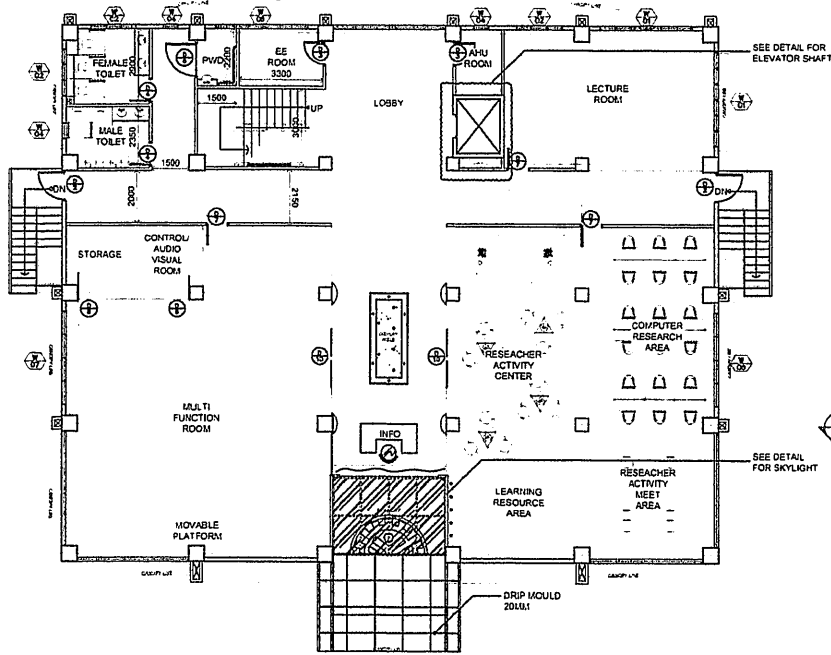
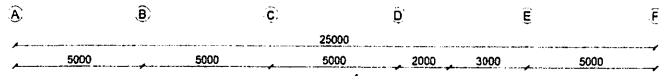
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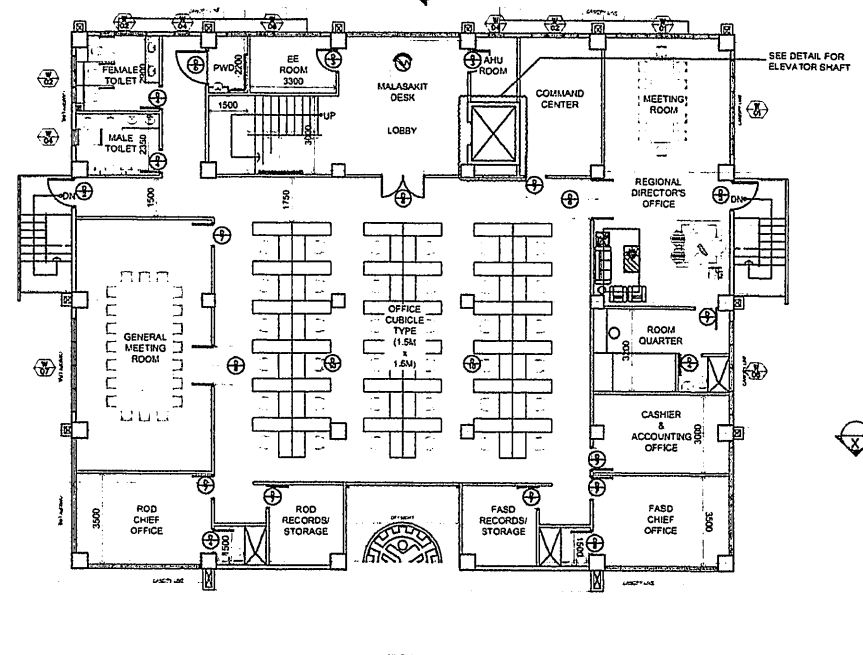
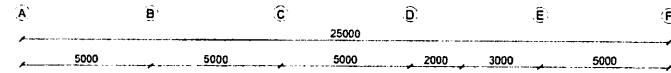


 <p>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	<p>CONCURRED BY:</p> <p><i>[Signature]</i>          DIR. DANIEL B. BURGALLON          EXECUTIVE DIRECTOR (TESDA)</p>	<p>RECOMMENDING APPROVAL:</p> <p><i>[Signature]</i>          DIR. JULETO O. OROZCO          CHIEF OF STAFF          OFFICE OF THE DIRECTOR GENERAL</p>	<p>APPROVED BY:</p> <p><i>[Signature]</i>          SEC. ISIDORO S. LAPENA, PH.D., CSEE          DIRECTOR GENERAL</p>	<p>PROJECT TITLE:</p> <p>PROPOSED TESDA INNOVATION CENTER - NCR</p> <p>LOCATION: TESDA Complex, East Service Rd., EED, First Block, 4th Floor, 2/F</p>	<p>PREPARED BY:</p> <p><i>[Signature]</i>          ARCH. RUIELA A. MENDOZA          ARCHITECT</p>	<p>CHECKED &amp; SUBMITTED AS TO PLAN BY:</p> <p><i>[Signature]</i>          ENGR. ROY LOUIS P. MINGARACAL          HEAD, E&amp;C-000</p>	<p>SHEET CONTENTS:</p> <p>AS SHOWN</p>	<p>SHEET NO.</p> <p>A-1</p>
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TESDA INNOVATION CENTER - NCR  
SECOND FLOOR PLAN

SCALE: 1: 200 mm



TESDA INNOVATION CENTER - NCR  
THIRD FLOOR PLAN

SCALE: 1: 200 mm



TECHNICAL EDUCATION  
AND  
SKILLS DEVELOPMENT  
AUTHORITY

CONCURRED BY:

*[Signature]*  
DR. DAVID B. BUNGALLON  
EXECUTIVE DIRECTOR, INFESD

RECOMMENDING APPROVAL:

*[Signature]*  
DIR. JILBERT M. DROZCO  
CHIEF OF BUREAU  
OFFICE OF THE DIRECTOR GENERAL

APPROVED BY:

*[Signature]*  
SEC. SIDRO S. LAPENA, PH.D., CSEE  
DIRECTOR GENERAL

PROJECT TITLE:

PROPOSED TESDA  
INNOVATION CENTER - NCR

OWNER AND PREPARED BY:  
TESDA INNOVATION CENTER - NCR  
OWNER AND PREPARED BY:  
TESDA INNOVATION CENTER - NCR  
OWNER AND PREPARED BY:  
TESDA INNOVATION CENTER - NCR

PREPARED BY:

*[Signature]*  
ARCH. RUIEL A. MENDOZA  
ARCHITECT

CHECKED & SUBMITTED AS TO PLAN BY:

*[Signature]*  
ENGR. ROY LOUIE P. MINGARACAL  
TECH. SUPERVISOR

SHEET CONTENTS:

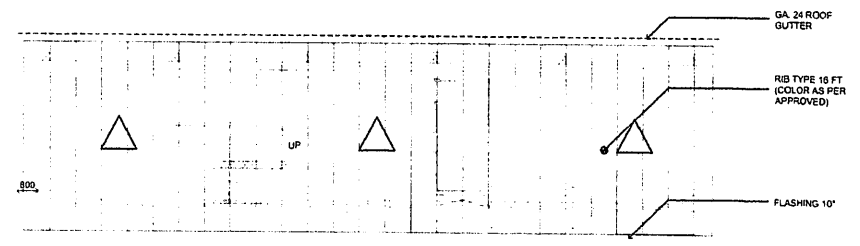
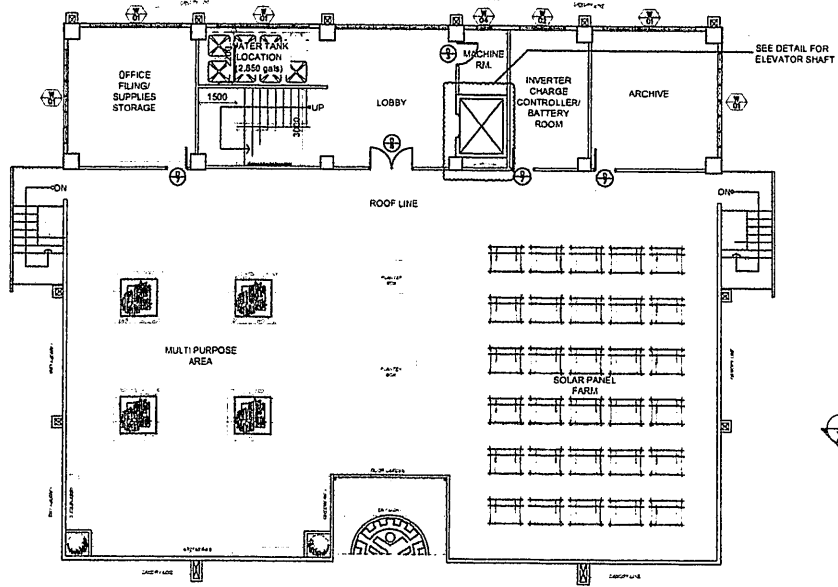
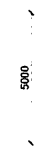
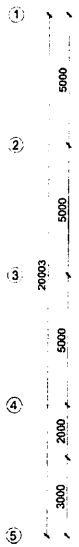
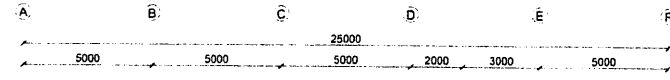
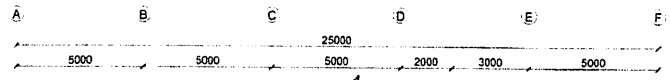
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SHEET NO.:

A-2

LOCATION: TESDA Center, Two Springs Rd., Quezon City

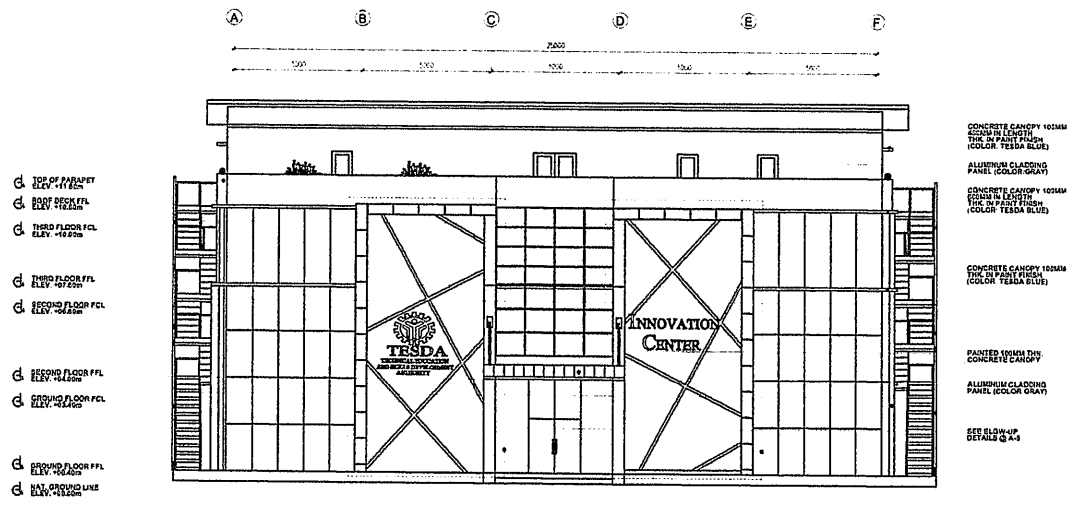




TESDA INNOVATION CENTER - NCR  
**ROOF DECK FLOOR PLAN**  
 SCALE: 1: 200 mm

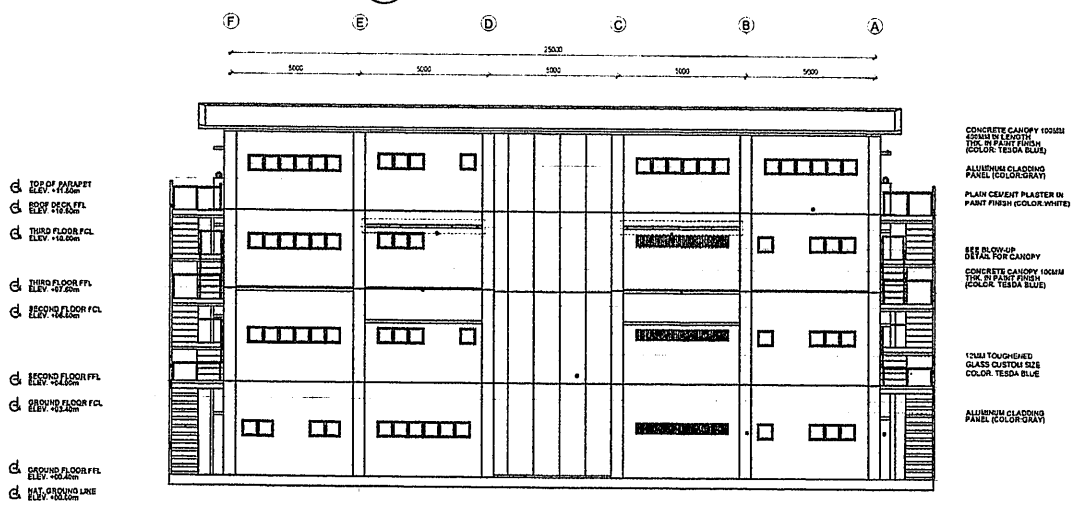
TESDA INNOVATION CENTER - NCR  
**ROOF PLAN**  
 SCALE: 1: 200 mm

TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	CONCURRED BY  DIR. DAVID B. BUIGALLON EXECUTIVE DIRECTOR (TESDA)	RECOMMENDING APPROVAL  DIR. JANET G. OROZCO CHIEF OF STAFF OFFICE OF THE DIRECTOR GENERAL	APPROVED BY  SEC. ISIDRO S. LAPENA, PH.D., CSEE DIRECTOR GENERAL	PROJECT TITLE PROPOSED TESDA INNOVATION CENTER - NCR	DRAWING AND SPECIFICATIONS AND OTHER RELATED DOCUMENTS ARE THE PROPERTY OF TESDA. ANY REPRODUCTION OR DISTRIBUTION OF THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF TESDA IS STRICTLY PROHIBITED.	PREPARED BY  ARCH. RANIEL L. MENDOZA ARCHITECT (TESDA)	CHECKED & SUBMITTED AS TO PLAN BY  ENGR. ROY LOUIE P. MINGARACAL (TESDA 574-200)	SHEET CONTENTS AS SHOWN	SHEET NO. <b>A-3</b>
	LOCAL/ENR: TESDA Complex, Golf Course Rd., EME - Freeport, Alabang City								




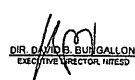

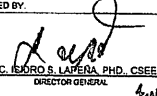

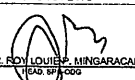
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- ALUMINUM CLADDING PANEL (COLOR: GRAY)
- CONCRETE CANOPY 100MM SQUARE EXISTING TYPE IN PAINT FINISH (COLOR: TESDA BLUE)
- CONCRETE CANOPY 100MM THK. IN PAINT FINISH (COLOR: TESDA BLUE)
- PAINTED 100MM THK CONCRETE CANOPY
- ALUMINUM CLADDING PANEL (COLOR: GRAY)
- SEE BLOW-UP DETAILS @ A-3

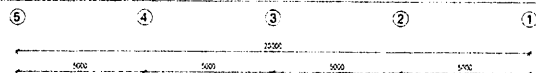
TESDA INNOVATION CENTER - NCR  
FRONT ELEVATION  
SCALE: 1:200 mm



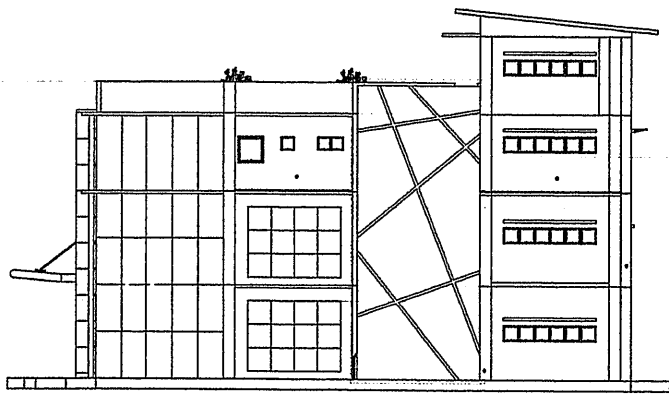
- CONCRETE CANOPY 100MM SQUARE EXISTING TYPE IN PAINT FINISH (COLOR: TESDA BLUE)
- ALUMINUM CLADDING PANEL (COLOR: GRAY)
- PLAIN CEMENT PLASTER IN PAINT FINISH (COLOR: WHITE)
- SEE BLOW-UP DETAIL FOR CANOPY
- CONCRETE CANOPY 100MM THK. IN PAINT FINISH (COLOR: TESDA BLUE)
- 12MM TOUGHENED GLASS CUSTOM SIZE (COLOR: TESDA BLUE)
- ALUMINUM CLADDING PANEL (COLOR: GRAY)

TESDA INNOVATION CENTER - NCR  
REAR ELEVATION  
SCALE: 1:200 mm

 <b>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</b>	CONCURRED BY  <b>DIR. DAVID B. BUÑAGALLON</b> EXECUTIVE DIRECTOR (IN-CH)	RECOMMENDING APPROVAL  <b>DIR. JANET O. OROZCO</b> CHIEF OF STAFF OFFICE OF THE DIRECTOR GENERAL	APPROVED BY  <b>SEC. ISIDRO S. LANTOSA, PhD., CSEE</b> DIRECTOR GENERAL	PROJECT TITLE <b>PROPOSED TESDA INNOVATION CENTER - NCR</b>	PREPARED BY  <b>ARCH. RUJINELL A. MENAZA</b> ARCHITECT, SPONSOR	CHECKED & SUBMITTED AS TO PLAN BY  <b>ENGR. ROY LOUIE P. MUNGARCAL</b> (E.O. 847, 2000)	SHEET CONTENTS AS SHOWN	SHEET NO. <b>A-4</b>
	<small>APPROVED AND SPECIFICATIONS AND BIDDING DOCUMENTS FOR THE AFFILIATION, PROJECT AND OCCUPANCY BY TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY AND THEREAFTER TO BE USED FOR PUBLIC USE AND SHALL BE CONTROLLED BY THE AUTHORITY. NO PART OF THIS DOCUMENT SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN CONSENT OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY.</small>							



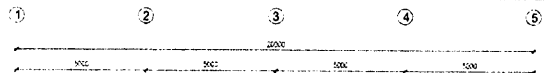
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- d TOP OF BEAM ELEV. +12.250
- d TOP OF PARAPET ELEV. +12.250
- d BODY DECK FFL ELEV. +12.250
- d THIRD FLOOR FCL ELEV. +12.250
- d THIRD FLOOR FFL ELEV. +12.250
- d SECOND FLOOR FCL ELEV. +12.250
- d SECOND FLOOR FFL ELEV. +12.250
- d GROUND FLOOR FCL ELEV. +12.250
- d GROUND FLOOR FFL ELEV. +12.250
- d NAT. GROUND LINE ELEV. +12.250



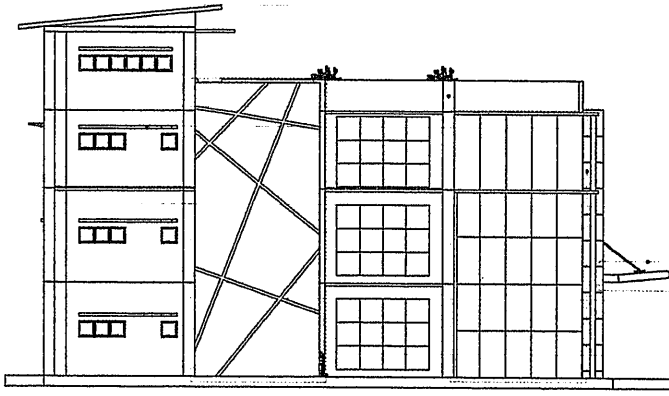
- CONCRETE CANOPY (10MM THK IN PAINT FINISH (COLOR: TESDA BLUE))
- PLAIN CEMENT PLASTER IN PAINT FINISH (COLOR: WHITE)
- ALUMINIUM CLADDING PANEL (COLOR: GRAY)
- SEE BLOW-UP DETAIL 2 & 3

TESDA INNOVATION CENTER - NCR  
RIGHT-SIDE ELEVATION

SCALE: 1: 200 mm



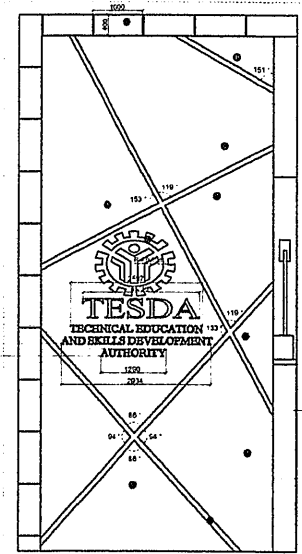
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- d THIRD FLOOR FCL ELEV. +12.250
- d THIRD FLOOR FFL ELEV. +12.250
- d SECOND FLOOR FCL ELEV. +12.250
- d SECOND FLOOR FFL ELEV. +12.250
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- d NAT. GROUND LINE ELEV. +12.250



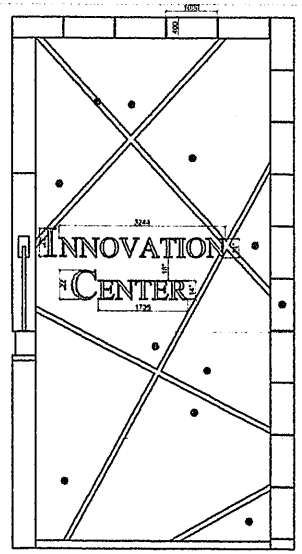
- ALUMINIUM CLADDING PANEL (COLOR: GRAY)
- CONCRETE CANOPY (10MM THK IN PAINT FINISH (COLOR: TESDA BLUE))
- SEE BLOW-UP DETAIL 1 & 2
- CONCRETE CANOPY COVERED WITH ALUMINIUM CLADDING
- SEE BLOW-UP DETAIL 4 & 5

TESDA INNOVATION CENTER - NCR  
LEFT-SIDE ELEVATION

SCALE: 1: 200 mm



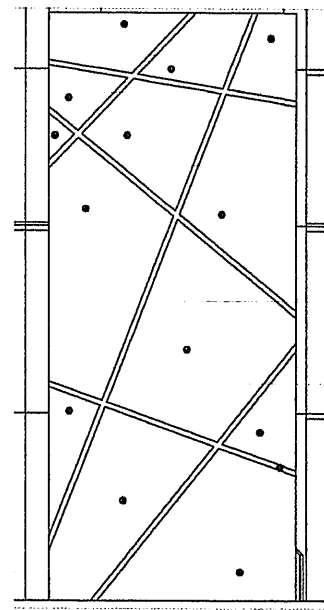
- 1.00M X 0.80M X 8.00M (LXV) ALUMINIUM CLADDING FRAMED W/ 2" ANGLE BARS WELD & GOLF (COLOR: GRAY)
- PLAIN CEMENT PLASTER IN PAINT FINISH (COLOR: BLUE GRAY)
- PLAIN CEMENT PLASTER IN PAINT FINISH (COLOR: WHITE)
- TESDA LOGO 1.00M X 0.80M (LXV) 2" X 2" (H) FRONT VIEW GA. 1/4" EDG. (BOLD) 1"
- PLAIN CEMENT PLASTER IN PAINT FINISH (COLOR: BLUE GRAY)
- PLAIN CEMENT PLASTER IN PAINT FINISH (COLOR: WHITE)
- PLAIN CEMENT PLASTER IN PAINT FINISH (COLOR: BLUE GRAY)
- 4" GAUGE 18 STAINLESS MIRROR - BACK LIGHTED
- LETTER "T" METAL ALUMINIUM LOGO (COLOR: BLUE FINISH) REST @ METAL ALUMINIUM (COLOR: SILVER)
- LETTER "C" METAL ALUMINIUM LOGO (COLOR: BLUE FINISH) REST @ METAL ALUMINIUM (COLOR: SILVER)



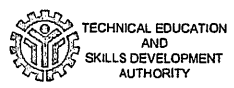
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- PLAIN CEMENT PLASTER IN PAINT FINISH (COLOR: BLUE GRAY)
- 1.00M X 0.80M X 8.00M (LXV) ALUMINIUM CLADDING FRAMED W/ 2" ANGLE BARS WELD & EDLY (COLOR: GRAY)
- PLAIN CEMENT PLASTER IN PAINT FINISH (COLOR: WHITE)
- PLAIN CEMENT PLASTER IN PAINT FINISH (COLOR: BLUE GRAY)
- PLAIN CEMENT PLASTER IN PAINT FINISH (COLOR: BLUE GRAY)

TESDA INNOVATION CENTER - NCR  
BLOW-UP DETAILS

SCALE: 1: 100 mm



- PLAIN CEMENT PLASTER IN PAINT FINISH (COLOR: BLUE GRAY)
- PLAIN CEMENT PLASTER IN PAINT FINISH (COLOR: WHITE)
- PLAIN CEMENT PLASTER IN PAINT FINISH (COLOR: BLUE GRAY)
- PLAIN CEMENT PLASTER IN PAINT FINISH (COLOR: WHITE)
- PLAIN CEMENT PLASTER IN PAINT FINISH (COLOR: BLUE GRAY)
- 4" GAUGE 18 STAINLESS MIRROR - BACK LIGHTED
- PLAIN CEMENT PLASTER IN PAINT FINISH (COLOR: BLUE GRAY)



CONCURRED BY:  
*[Signature]*  
DIR. DAVID B. BENGALLON  
EXECUTIVE DIRECTOR, NCR

RECOMMENDING APPROVAL:  
*[Signature]*  
DIR. JULIET O. TOROZCO  
OFFICE OF THE DIRECTOR GENERAL

APPROVED BY:  
*[Signature]*  
SEC. SIDRO S. LAPENA, PH.D., CSEE  
DIRECTOR GENERAL

PROJECT TITLE:  
PROPOSED TESDA INNOVATION CENTER - NCR

DESIGNED AND SPECIFICATIONS AND OTHER TECHNICAL PROPERTY AND INFORMATION OF THE CLIENT AND ALL RIGHTS RESERVED TO THE CLIENT. ANY REVISIONS TO BE MADE BY THE CLIENT SHALL BE SUBJECT TO THE CLIENT'S APPROVAL. THE ARCHITECT SHALL BE RESPONSIBLE FOR THE SAFETY OF THE DESIGN AND SHALL BE RESPONSIBLE FOR THE SAFETY OF THE CONSTRUCTION AND SHALL BE RESPONSIBLE FOR THE SAFETY OF THE CONSTRUCTION AND SHALL BE RESPONSIBLE FOR THE SAFETY OF THE CONSTRUCTION.

PREPARED BY:  
*[Signature]*  
ARCH. RUIVEN B. BENDOSA  
ARCHITECT

CHECKED & SUBMITTED AS TO PLAN BY:  
*[Signature]*  
ENGR. ROYLOUIE P. MINGARACAL  
HEAD, BR/003

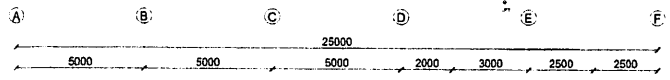
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AS SHOWN

SHEET NO.:  
A-5

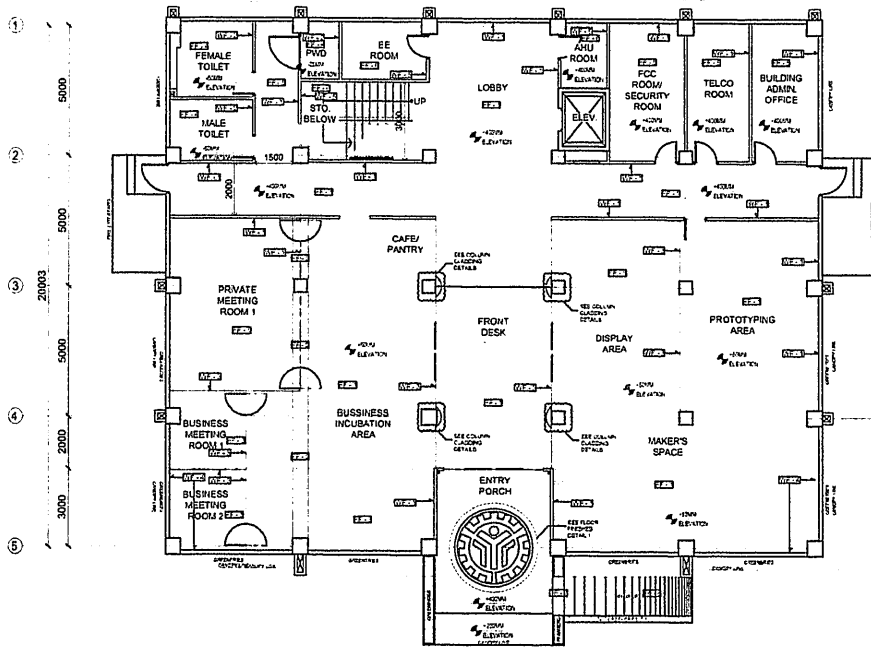
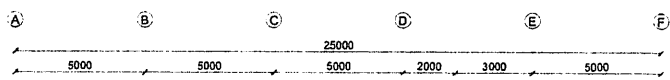
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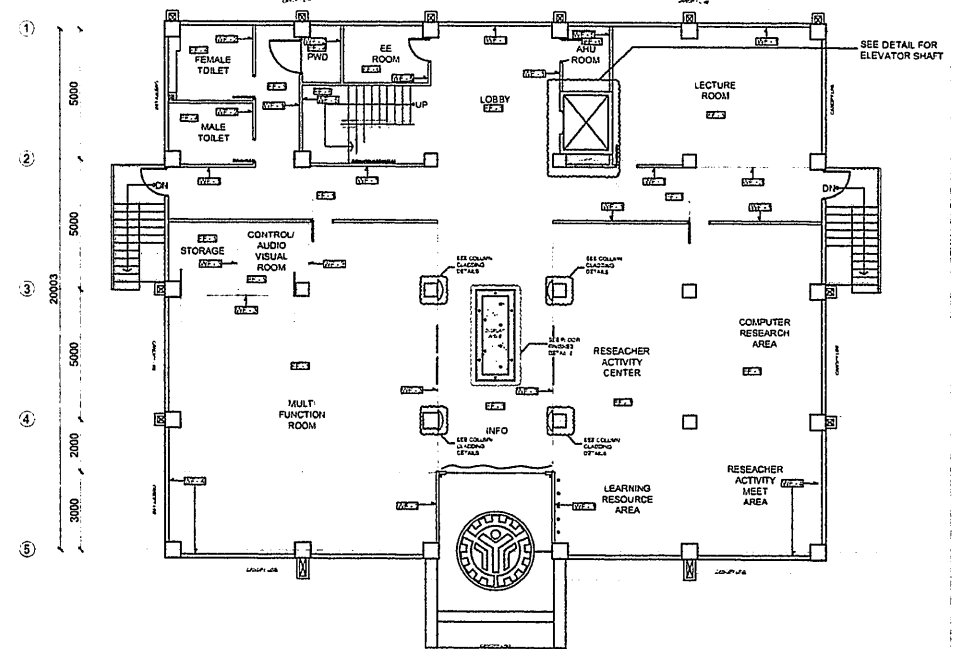
WALL FINISHES	
WF-1	PLAIN CEMENT PLASTER IN PAINT FINISH
WF-2	320 MM X 600 MM GLAZED WALL TILES (TILE HEIGHT 1.20M)
WF-3	10MM CLEAR TONED GREEN GLASS CLUSTON SIZE
WF-4	15MM TONED GREEN GLASS CLUSTON SIZE COLOR TEGDA BLUE
WF-5	PLAIN CEMENT PLASTER FINISH
FLOOR FINISHES	
FF-1	600 MM X 600 MM NON-SLIP TILES (COLOR PURCELAIN WHITE)
FF-2	600 MM X 600 MM NON-SLIP TILES (COLOR PORCELAIN BLACK)
FF-3	300 MM X 300 MM NON-SLIP TILES (COLOR PURCELAIN BLACK)
FF-4	300 MM X 300 MM NON-SLIP TILES (COLOR AS PER APPROVED)
FF-5	300 MM X 300 MM NON-SLIP TILES (COLOR AS PER APPROVED)
FF-6	PLAIN CEMENT FINISH IN EPOXY PRIMER (COLOR GRAY)
FF-7	STAMP CONCRETE (COLOR FINISH)
FF-8	WARNING TACTILE BLOCK



WALL FINISHES	
WF-1	PLAIN CEMENT PLASTER IN PAINT FINISH
WF-2	320 MM X 600 MM GLAZED WALL TILES (TILE HEIGHT 1.20M)
WF-3	10MM CLEAR TONED GREEN GLASS CLUSTON SIZE
WF-4	15MM TONED GREEN GLASS CLUSTON SIZE COLOR TEGDA BLUE
FLOOR FINISHES	
FF-1	600 MM X 600 MM NON-SLIP TILES (COLOR PURCELAIN WHITE)
FF-2	600 MM X 600 MM NON-SLIP TILES (COLOR PURCELAIN BLACK)
FF-3	300 MM X 300 MM NON-SLIP TILES (COLOR AS PER APPROVED)
FF-4	300 MM X 300 MM NON-SLIP TILES (COLOR AS PER APPROVED)
FF-5	PLAIN CEMENT FINISH IN EPOXY PRIMER (COLOR GRAY)
FF-6	STAMP CONCRETE (COLOR FINISH)
FF-7	WARNING TACTILE BLOCK



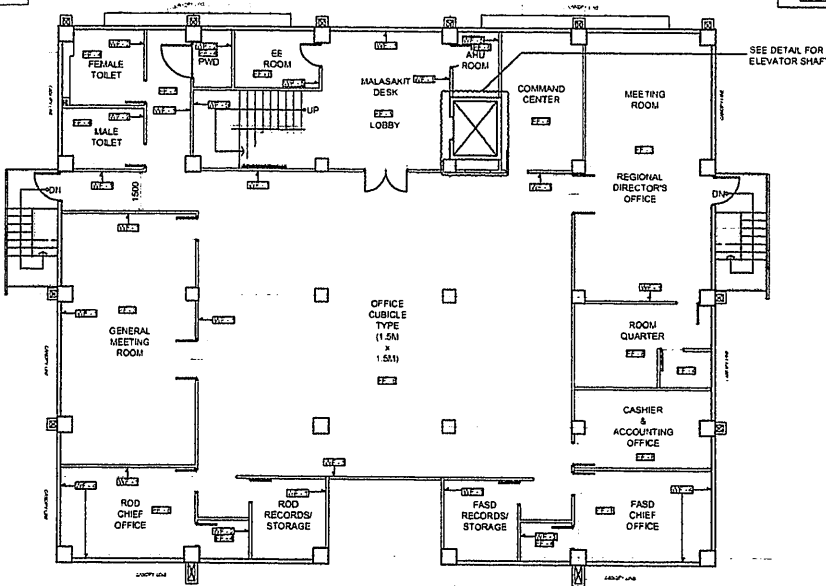
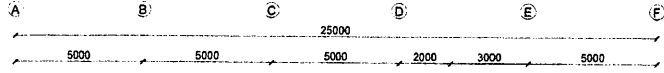
GROUND FLOOR FINISHES PLAN  
SCALE: 1: 200 mm



SECOND FLOOR FINISHES PLAN  
SCALE: 1: 200 mm

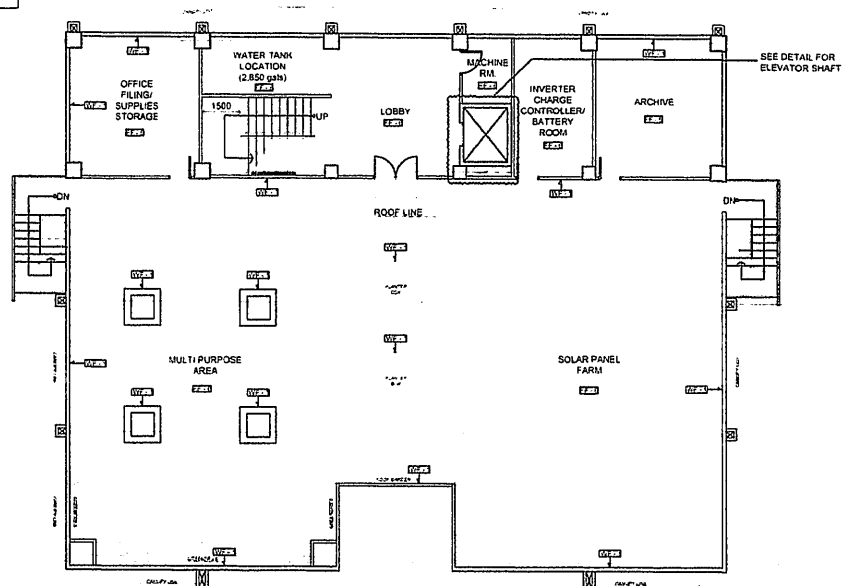
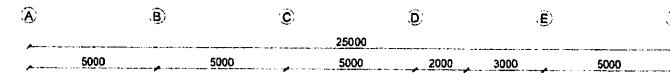
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	 DIR. DAVID S. BUNGALALAN CHIEF DIRECTOR (TESSD)	 DIR. JULIET O. OROZCO CHIEF OFFICER OFFICE OF THE DIRECTOR GENERAL	 SEN. SIDORO F. LAPENA, PH.D., CSEE DIRECTOR GENERAL	PROPOSED TESDA INNOVATION CENTER - NCR	ARCH. RUIEL A. MENDOZA ARCHITECT (P.R.C.)	 ENGR. ROY LOUIE B. MINGARACAL HEAD, S&E	AS SHOWN	A-7

WALL FINISHES	
WF-1	PLAIN CEILING PLASTER IN PAINT FINISH
WF-2	300 MM X 600 MM GLAZED WALL TILES (TILE HEIGHT = 200)
WF-3	10MM CLEAR TEMPERED GLASS CLUSTOP DECK
WF-4	12MM TOUCHED GLASS CLUSTOP DECK COLOR TESSA BLUE
WF-5	PLAIN CEMENT PLASTER FINISH
FLOOR FINISHES	
FF-1	600 MM X 600 MM HIGH END TILES (COLOR PORCELAIN WHITE)
FF-2	400 MM X 400 MM HIGH END TILES (COLOR PORCELAIN ELAHI)
FF-3	300 MM X 300 MM HIGH END TILES (DESIGN & COLOR AS PER APPROVED)
FF-4	300 MM X 300 MM HIGH END TILES (DESIGN & COLOR AS PER APPROVED)
FF-5	PLAIN CEMENT FINISH IN EPDM PRIMER (COLOR OR GRAY)
FF-6	STAMP CONCRETE COHC FINISH
FF-7	WARNING TACTILE BLOCK

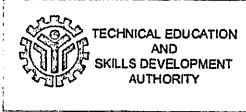


THIRD FLOOR FINISHES PLAN  
SCALE: 1:200 mm

WALL FINISHES	
WF-1	PLAIN CEILING PLASTER IN PAINT FINISH
WF-2	300 MM X 600 MM GLAZED WALL TILES (TILE HEIGHT = 200)
WF-3	10MM CLEAR TEMPERED GLASS CLUSTOP DECK
WF-4	12MM TOUCHED GLASS CLUSTOP DECK COLOR TESSA BLUE
FLOOR FINISHES	
FF-1	600 MM X 600 MM HIGH END TILES (COLOR PORCELAIN WHITE)
FF-2	400 MM X 400 MM HIGH END TILES (COLOR PORCELAIN BLACK)
FF-3	300 MM X 300 MM HIGH END TILES (DESIGN & COLOR AS PER APPROVED)
FF-4	300 MM X 300 MM HIGH END TILES (DESIGN & COLOR AS PER APPROVED)
FF-5	PLAIN CEILING FINISH IN EPDM PRIMER (COLOR OR GRAY)
FF-6	STAMP CONCRETE COHC FINISH
FF-7	WARNING TACTILE BLOCK
FF-8	300 MM X 300 MM VINYL TILES (COLOR & DESIGN AS PER APPROVED)



ROOF DECK FLOOR FINISHES PLAN  
SCALE: 1:200 mm



CONCURRED BY:  
*[Signature]*  
DIR. DAVID S. BUNGALLON  
EXECUTIVE DIRECTOR (TESSD)

RECOMMENDING APPROVAL:  
*[Signature]*  
DIR. JULIET O. OROZCO  
CHIEF OF STAFF  
OFFICE OF THE DIRECTOR GENERAL

APPROVED BY:  
*[Signature]*  
SEC. EDRO S. LAPENA, PH.D., CSEE  
DIRECTOR GENERAL

PROJECT TITLE:  
PROPOSED TESDA INNOVATION CENTER - NCR

PREPARED BY:  
*[Signature]*  
ARCH. RUMIEL A. CRUZADO  
ARCHITECT (SP-000)

CHECKED & SUBMITTED AS TO PLAN BY:  
*[Signature]*  
ENGR. ROY OJUEW MINGARACAL  
(I.D. 87400)

SHEET CONTENTS:  
AS SHOWN

SHEET NO:  
A-8

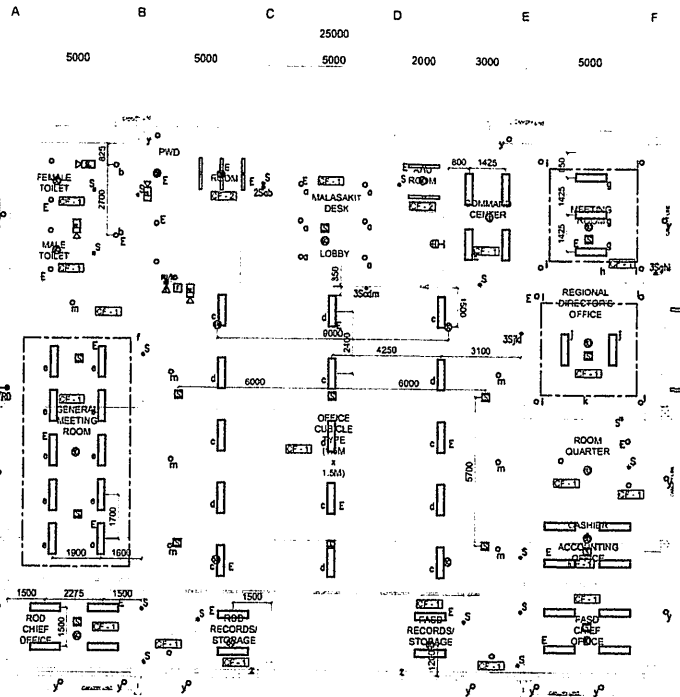
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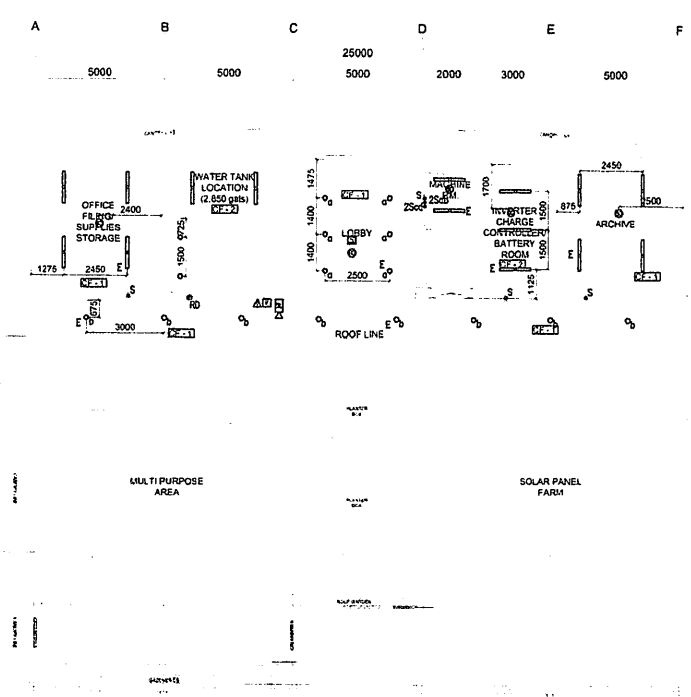




LEGEND AND SYMBOLS	
	RECESSED MOUNTED 1x4 LED DOWNLIGHT
	WALL MOUNTED 1x4 LED DOWNLIGHT
	SURFACE MOUNTED 125x4x20W LED FLUORESCENT LIGHT
	200W LED 1x4x100mm CEILING RECESSED FLUORESCENT LIGHTING FIXTURE
	1x4x100mm TRACK LIGHTING FIXTURE
	WALL MOUNTED ELEVATOR SHAFT LIGHTING FIXTURE
	1x4x100mm TRACK LIGHTING FIXTURE
	RECESSED LIGHT WITH 3x3x3 BATTERY PACK
	1x4 SURFACE MOUNTED 1x4x100mm LED LIGHTING FIXTURE
	LOCATION FOR LUMINAIRE WITH 3x3x3 BATTERY PACK
	1 GANG SINGLE POLE SINGLE THROW SWITCH 15A 250V
	2 GANG SINGLE POLE SINGLE THROW SWITCH 15A 250V
	3 GANG SINGLE POLE SINGLE THROW SWITCH 15A 250V
<b>CF-1</b>	4.5 LPM PER BATH & 10 WOOD RATED METAL DOUBLE PIPING CHAIRS (MATERIAL: 200x4x250x4x100x100mm) USE THIS QTY EXCEPT PAINT FROM SCHEDULE AS PER APPROVED
<b>CF-2</b>	FLUSH CEILING FINISH



THIRD FLOOR REFLECTED CEILING PLAN  
SCALE: 1:200 mm



ROOF DECK FLOOR REFLECTED CEILING PLAN  
SCALE: 1:200 mm



CONCURRED BY  DIR. CHAVIRA B. BUNGALLON EXECUTIVE DIRECTOR, TESDA	RECOMMENDING APPROVAL  DIR. JULIET O. OROZCO CHIEF OF STAFF OFFICE OF THE DIRECTOR GENERAL	APPROVED BY:  SEC. SIDRO L. LOPERA, PH.D., CSEE DIRECTOR GENERAL
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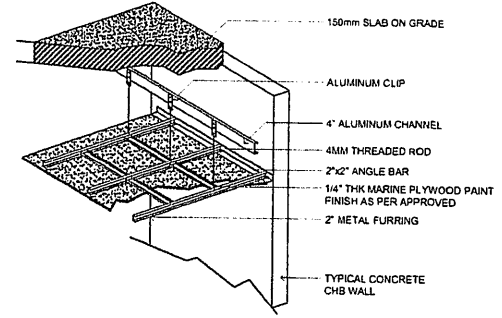
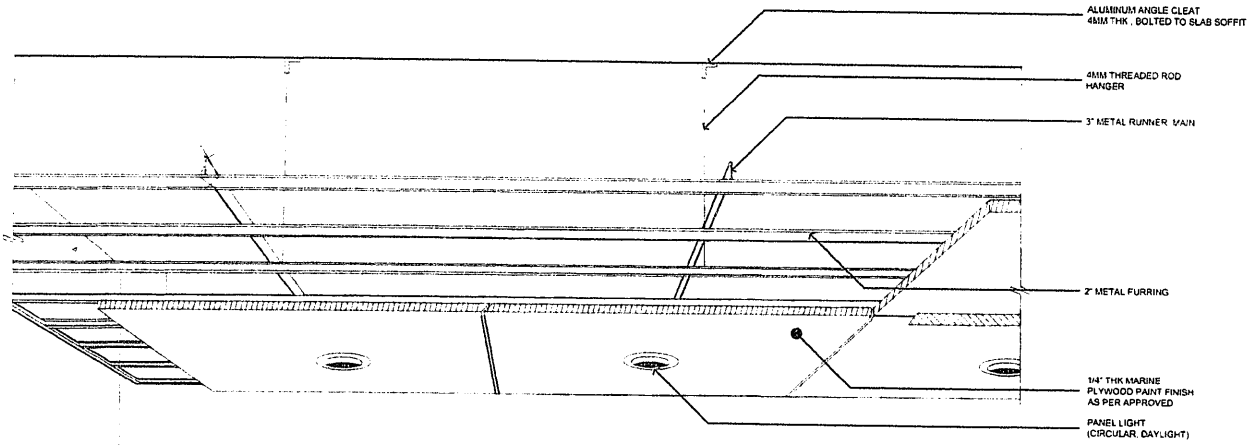
PROJECT TITLE:  
**PROPOSED TESDA INNOVATION CENTER - NCR**

LOCATION: TESDA Div. Office, San Roque Rd. 1234, Pasig City

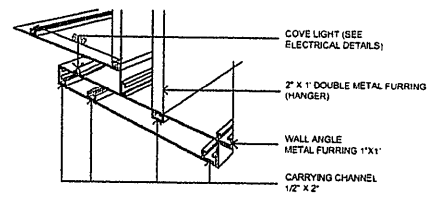
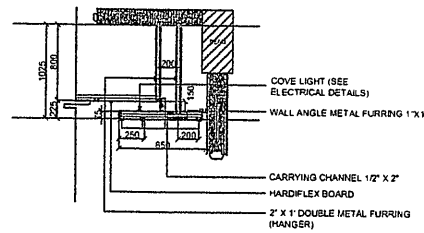
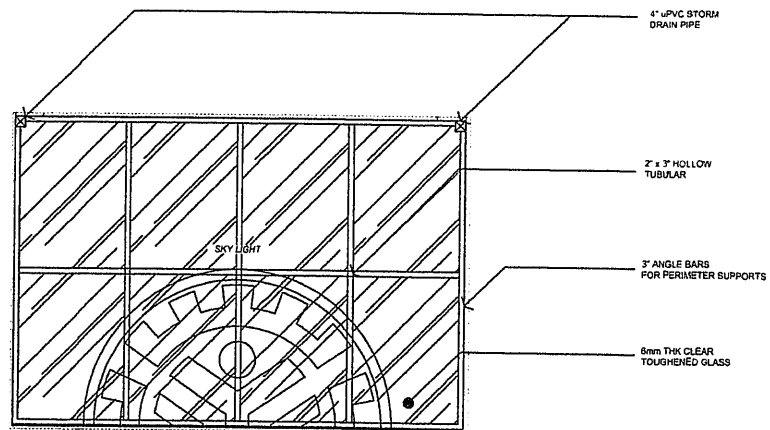
PREPARED BY:  
  
ARCH. RUNIEL A. MENDOZA  
ARCHITECT (PROJ) 1000

CHECKED & SUBMITTED AS TO PLAN BY:  
  
ENGR. ROY LOUIE P. MINGARAL  
READ, 09/06/2020

SHEET CONTENTS AS SHOWN	SHEET NO. <b>A-10</b>
----------------------------	--------------------------



TESDA INNOVATION CENTER - NCR  
**CEILING DETAILS**  
 SCALE: \_\_\_\_\_ NTS



TESDA INNOVATION CENTER - NCR  
**SKY LIGHT DETAIL**  
 SCALE: \_\_\_\_\_ 1:50 MM

TESDA INNOVATION CENTER - NCR  
**COVE LIGHTING DETAIL**  
 SCALE: \_\_\_\_\_ 1:50 MM



CONCURRED BY  
 DIR. DAVID B. BUNGALLON  
 EXECUTIVE DIRECTOR, TESDA

RECOMMENDING APPROVAL  
 DIR. JAYNET D. OROZCO  
 CHIEF OF STAFF  
 OFFICE OF THE DIRECTOR GENERAL

APPROVED BY  
 SEC. ANDRÉS S. LAPENA, PH.D., CSEE  
 DIRECTOR GENERAL

PROJECT TITLE  
**PROPOSED TESDA INNOVATION CENTER - NCR**

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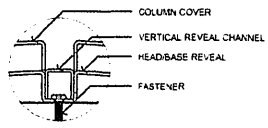
PREPARED BY  
 ARCH. RUIEL A. MENDOZA  
 ARCHITECT, RA-008

CHECKED & SUBMITTED AS TO PLAN BY  
 ENGR. ROY LOUIE P. MINGARACAL  
 HEAD, SEP-008

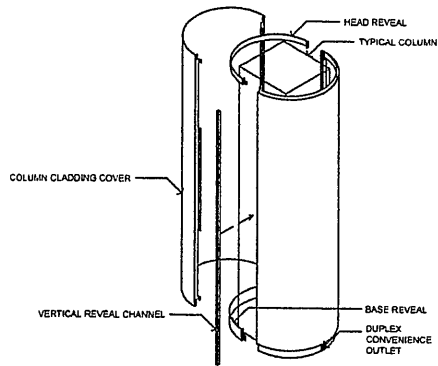
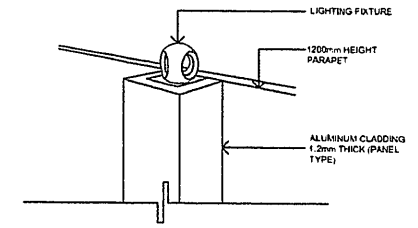
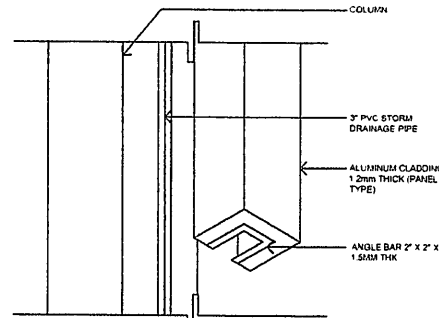
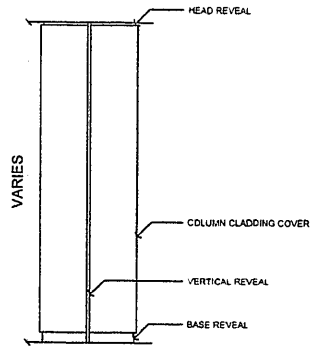
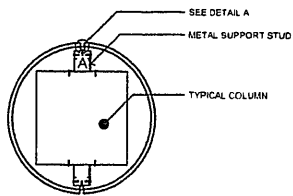
SHEET CONTENTS  
 AS SHOWN

SHEET NO.  
**A - 11**

LOCATION: TESDA Center, 3rd Floor, P.O. Box 1000, Taguig City

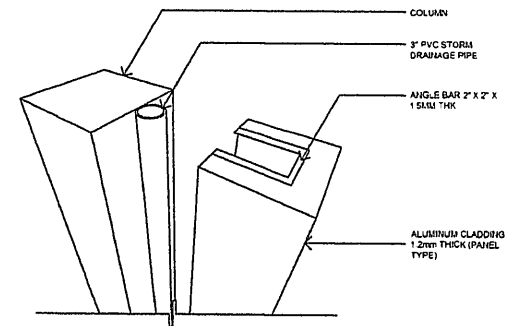


DETAIL A



TESDA INNOVATION CENTER - NCR  
COLUMN CLADDING DETAILS

SCALE: 1:100MM



TESDA INNOVATION CENTER - NCR  
STORM DRAINAGE CLADDING DETAILS

SCALE: 1:50MM



TECHNICAL EDUCATION  
AND  
SKILLS DEVELOPMENT  
AUTHORITY

CONCURRED BY

*[Signature]*  
DIR. RANDY B. BUNGALLON  
DEPUTY DIRECTOR GENERAL

RECOMMENDING APPROVAL

*[Signature]*  
DIR. JUAN O. BROZCO  
CHIEF OF STAFF  
OFFICE OF THE DIRECTOR GENERAL

APPROVED BY

*[Signature]*  
SEC. ISIDRO S. LUPENA, PH.D., CSEE  
DIRECTOR GENERAL

PROJECT TITLE

PROPOSED TESDA  
INNOVATION CENTER - NCR

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PREPARED BY

*[Signature]*  
ARCH. RUMIEL A. MENOSZA  
ARCHITECT (SP-0000)

CHECKED & SUBMITTED AS TO PLAN BY

*[Signature]*  
ENGR. ROY LOUIE P. MINGARACAL  
HEAD SP-0000

SHEET CONTENTS

AS SHOWN

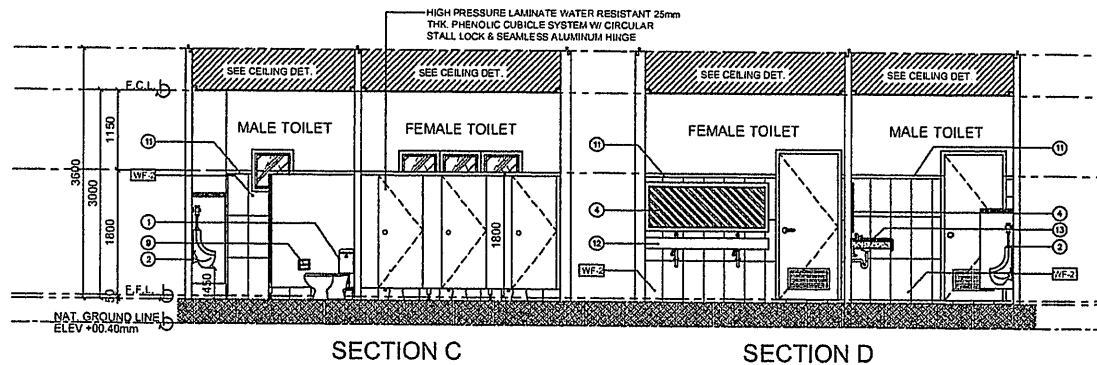
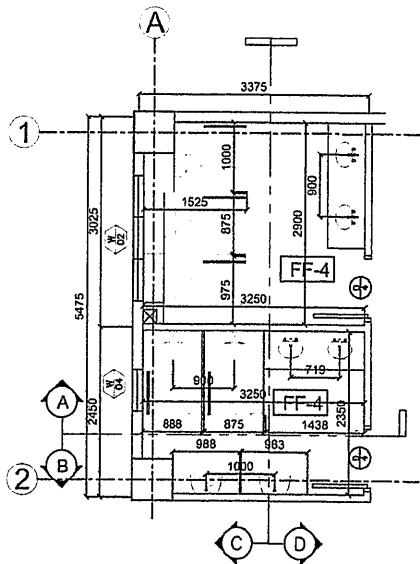
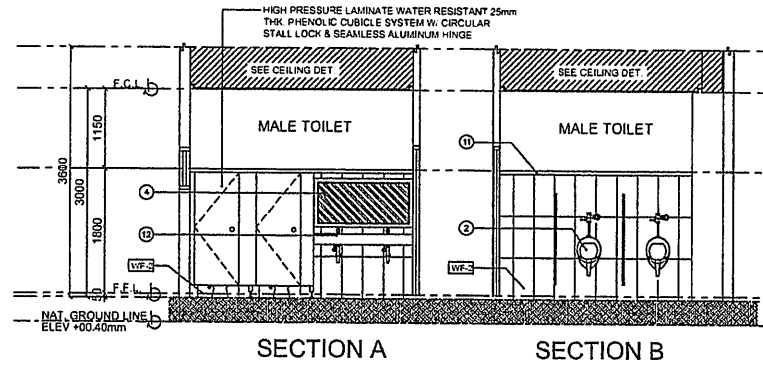
SHEET NO.

A-12

LOCATION: TESDA Campus, East Service Rd. Ant. Bantay, Taguig City

TOILET LEGENDS:	
①	TANK TYPE WATER CLOSET
②	URINAL
③	LAVATORY
④	MIRROR
⑤	FAUCET
⑥	SHOWER HEAD
⑦	SHOWER VALVE
⑧	SOAP HOLDER

TOILET LEGENDS:	
⑨	TISSUE HOLDER
⑩	GRAB BAR
⑪	CONTINUOUS HEADER FRAME, HPL PHENOLIC (COLOR: BROWN)
⑫	SYNTHETIC GRANITE COUNTER TOP
FF-4	300 X 300 NON SKID FLOOR TILE
WF-2	300 X 600 GLAZED WALL TILES (1.8 M HEIGHT)



TESDA INNOVATION CENTER - NCR  
**COMMON TOILET GROUND & SECOND FLOOR PLAN**  
 SCALE: 1: 50 mm

TESDA INNOVATION CENTER - NCR  
**COMMON TOILET SECTIONS**  
 SCALE: 1: 50 mm



TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY

CONCURRED BY

*[Signature]*  
 DIR. DAVID B. BUNGALLON  
 EXECUTIVE DIRECTOR (HATED)

RECOMMENDING APPROVAL

*[Signature]*  
 DIR. JAMES S. OROZCO  
 CHIEF OF STAFF  
 OFFICE OF THE DIRECTOR GENERAL

APPROVED BY

*[Signature]*  
 SEC. SIDRO S. LAPERA, PH.D., CSEE  
 DIRECTOR GENERAL

PROJECT TITLE

PROPOSED TESDA INNOVATION CENTER - NCR

DESIGNED AND PREPARED BY: ARCH. RUIBEL A. MENDOZA  
 ARCHITECT  
 CHECKED BY: ENGR. ROY LOUIE P. MINGARACAL  
 HEAD, R&D/DOO  
 REVIEWED BY: MS. GRACIE C. TEODORO  
 CAD OPERATOR, EDU-DOO

CADD BY:

*[Signature]*  
 MS. GRACIE C. TEODORO  
 CAD OPERATOR, EDU-DOO

REVIEWED AS TO PLAN:

*[Signature]*  
 ARCH. RUIBEL A. MENDOZA  
 ARCHITECT, R&D/DOO

SUBMITTED BY

*[Signature]*  
 ENGR. ROY LOUIE P. MINGARACAL  
 HEAD, R&D/DOO

SHEET CONTENTS

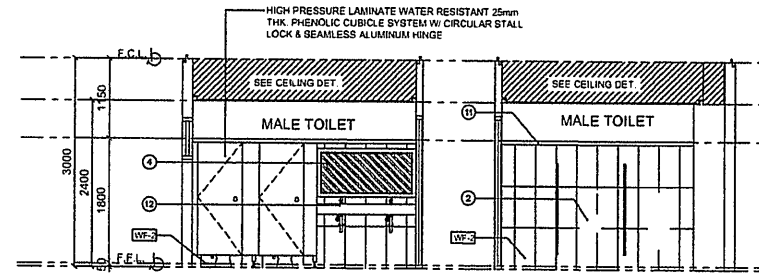
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SHEET NO.

A - 13

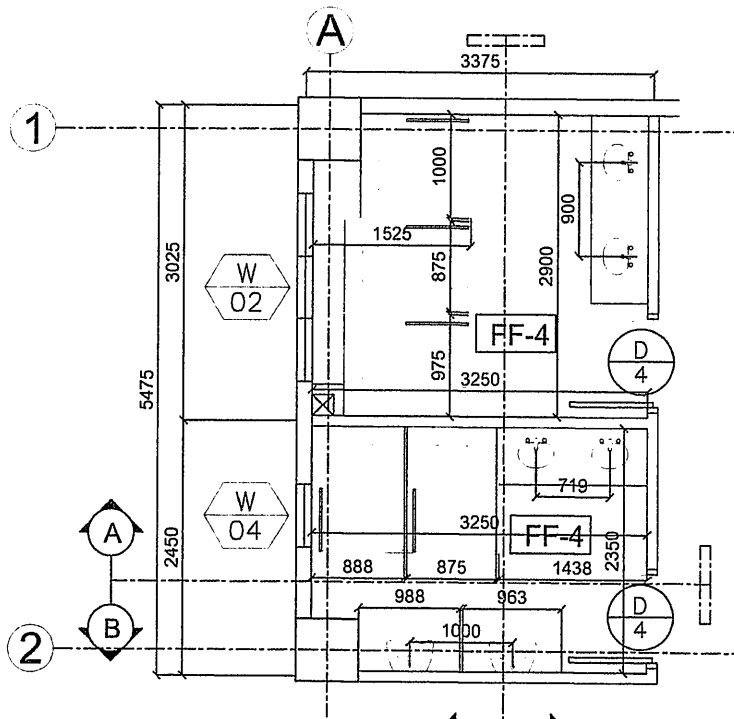
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②	URINAL
③	LAVATORY
④	MIRROR
⑤	FAUCET
⑥	SHOWER HEAD
⑦	SHOWER VALVE
⑧	SOAP HOLDER

TOILET LEGENDS:	
⑨	TISSUE HOLDER
⑩	GRAB BAR
⑪	CONTINUOUS HEADER FRAME, HPL PHENOLIC (COLOR: BROWN)
⑫	SYNTHETIC GRANITE COUNTER TOP
FF-4	300 X 300 NON SKID FLOOR TILE
WF-2	300 X 600 GLAZED WALL TILES (1.8 M HEIGHT)

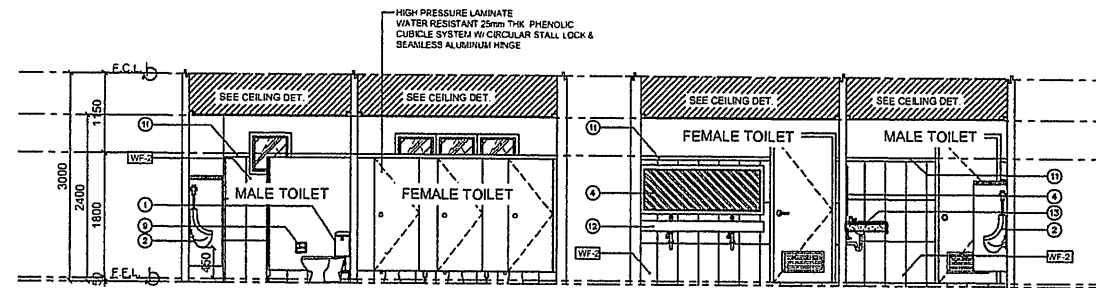


SECTION A

SECTION B



TESDA NCR-RO INNOVATION CENTER  
COMMON TOILET THIRD FLOOR PLAN  
SCALE: 1:50 mm



SECTION C

SECTION D

TESDA NCR-RO INNOVATION CENTER  
COMMON TOILET SECTIONS  
SCALE: 1:75 mm



TECHNICAL EDUCATION  
AND  
SKILLS DEVELOPMENT  
AUTHORITY

CONCURRED BY

DIR. DAVID B. BUNGALLON  
EXECUTIVE DIRECTOR, INTESD

RECOMMENDING APPROVAL

DIR. JULIET O. TOROZCO  
CHIEF OF STAFF  
OFFICE OF THE DIRECTOR GENERAL

APPROVED BY

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DIRECTOR GENERAL

PROJECT TITLE

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CADD BY

MS. GRACIE C. TEODORO  
CAD OPERATOR, SP-003

REVIEWED AS TO PLAN

ARCH. RUMIEL A. MENDOZA  
ARCHITECT, SP-003

SUBMITTED BY

ENGR. ROY LOUIE P. MINGARACAL  
HEAD, SP-000

SHEET CONTENTS

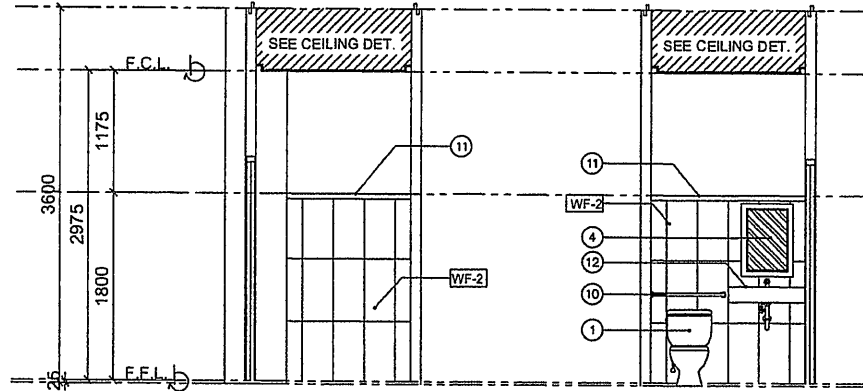
AS SHOWN

SHEET NO.

A - 14

TOILET LEGENDS:	
①	TANK TYPE WATER CLOSET
②	URINAL
③	LAVATORY
④	MIRROR
⑤	FAUCET
⑥	SHOWER HEAD
⑦	SHOWER VALVE
⑧	SOAP HOLDER

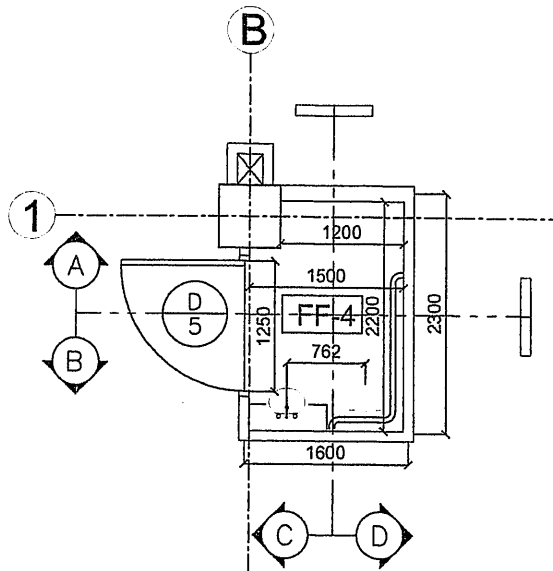
TOILET LEGENDS:	
⑨	TISSUE HOLDER
⑩	GRAB BAR
⑪	CONTINUOUS HEADER FRAME, HPL PHENOLIC (COLOR: BROWN)
⑫	SYNTHETIC GRANITE COUNTER TOP
FF-4	300 X 300 NON SKID FLOOR TILE
WF-2	300 X 600 GLAZED WALL TILES (1.8 M HEIGHT)



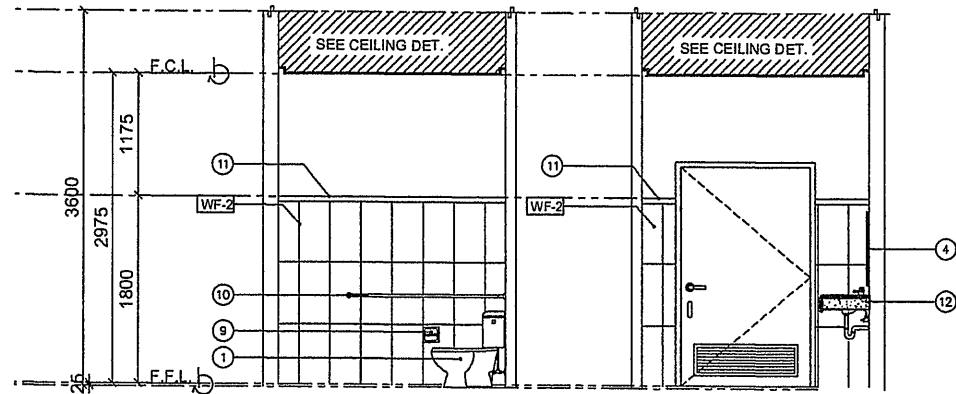
SECTION A

SECTION B

TESDA INNOVATION CENTER - NCR  
PWD TOILET SECTIONS  
SCALE: 1: 50 mm



TESDA INNOVATION CENTER - NCR  
PWD TOILET GROUND & SECOND FLOOR PLAN  
SCALE: 1: 50 mm



SECTION C

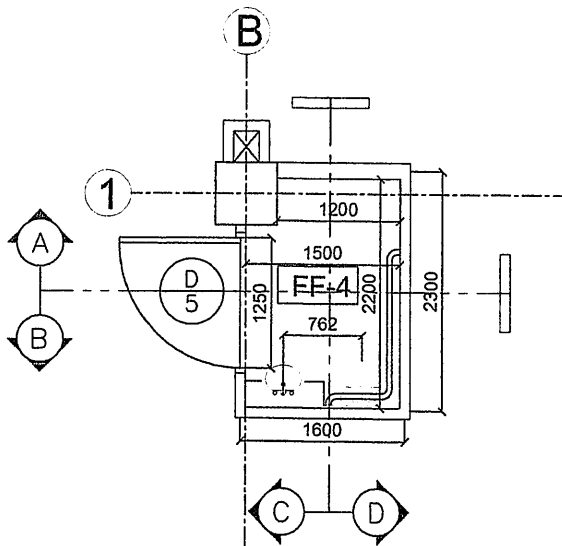
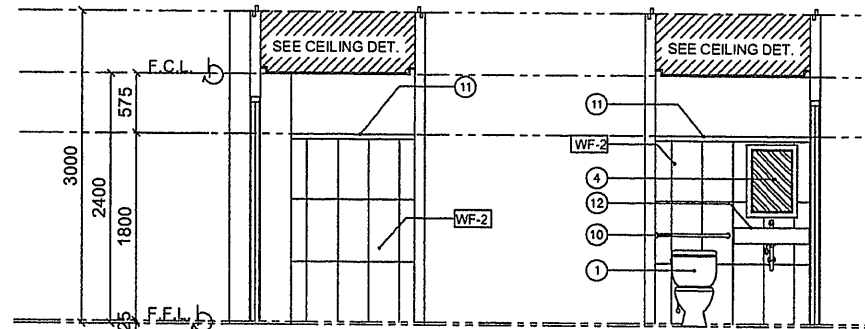
SECTION D

TESDA INNOVATION CENTER - NCR  
PWD TOILET SECTIONS  
SCALE: 1: 50 mm

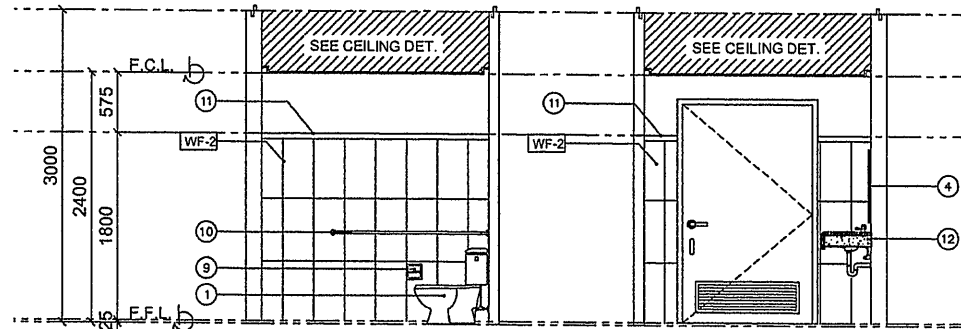
 <b>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</b>	CONCURRED BY  <b>DIR. DAVID S. BUNGALLON</b> EXECUTIVE DIRECTOR, IT/HRSD	RECOMMENDING APPROVAL:  <b>DIR. JUNIEL C. PROZO</b> CHIEF OF STAFF OFFICE OF THE DIRECTOR GENERAL	APPROVED BY:  <b>SEC. ISIDRO S. LOPERA, PH.D., CSEE</b> DIRECTOR GENERAL	PROJECT TITLE <b>PROPOSED TESDA INNOVATION CENTER - NCR</b>	CHECKED AND RECORDED AND DESIGNED AND DRAWN BY:  <b>MS. GRACIE C. TEODORO</b> CAD OPERATOR, SP/003	REVIEWED AS TO PLAN:  <b>ARCH. RUMER A. MENDOZA</b> ARCHITECT, SP/003	SUBMITTED BY:  <b>ENGR. RHY LOUIE R. MINGARCAL</b> FIELD ENGINEER	SHEET CONTENTS AS SHOWN	SHEET NO. <b>A - 15</b>
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TOILET LEGENDS:	
①	TANK TYPE WATER CLOSET
②	URINAL
③	LAVATORY
④	MIRROR
⑤	FAUCET
⑥	SHOWER HEAD
⑦	SHOWER VALVE
⑧	SOAP HOLDER

TOILET LEGENDS:	
⑨	TISSUE HOLDER
⑩	GRAB BAR
⑪	CONTINUOUS HEADER FRAME, HPL PHENOLIC (COLOR: BROWN)
⑫	SYNTHETIC GRANITE COUNTER TOP
FF-4	300 X 300 NON SKID FLOOR TILE
WF-2	300 X 600 GLAZED WALL TILES (1.8 M HEIGHT)



TESDA INNOVATION CENTER - NCR  
**PWD TOILET THIRD FLOOR PLAN**  
 SCALE: 1: 50 mm



SECTION C

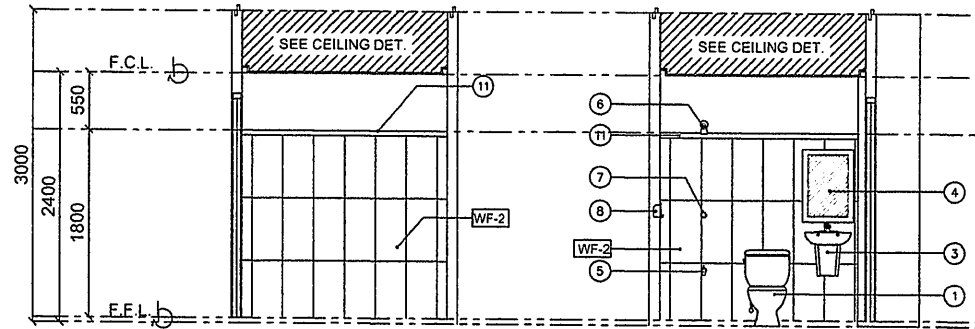
SECTION D

TESDA INNOVATION CENTER - NCR  
**PWD TOILET SECTIONS**  
 SCALE: 1: 50 mm

CONCURRED BY	RECOMMENDING APPROVAL	APPROVED BY	PROJECT TITLE	DESIGNED AND SPECIFICATIONS AND DRAWING PREPARED BY	CADD BY	REVIEWED AS TO PLAN	SUBMITTED BY	SHEET CONTENTS	SHEET NO.
 DIR. DANIEL B. BUNGSALLAN EXECUTIVE DIRECTOR, HHSDD	 DIR. JUNIEL T. OROZCO CHIEF OF STAFF OFFICE OF THE DIRECTOR GENERAL	 SEC. ISIDRO S. LAPEÑA, PH.D., CSEE DIRECTOR GENERAL	PROPOSED TESDA INNOVATION CENTER - NCR LOCATION: TESDA Complex, East Side, 4th Floor, Pinar del Rio, Taguig City	DIVISION AND SPECIFICATIONS AND DRAWING PREPARED BY: <i>MS. GRACIE C. TEODORO</i> CADD BY: <i>MS. GRACIE C. TEODORO</i> CAD OPERATOR, GPU-000	 ARSEN R. MENDOZA ARCHITECT, GPU-000	 ENGR. RDY LOUIE P. MINGARCAL HEAD, GPU-000	AS SHOWN	<b>A-16</b>	

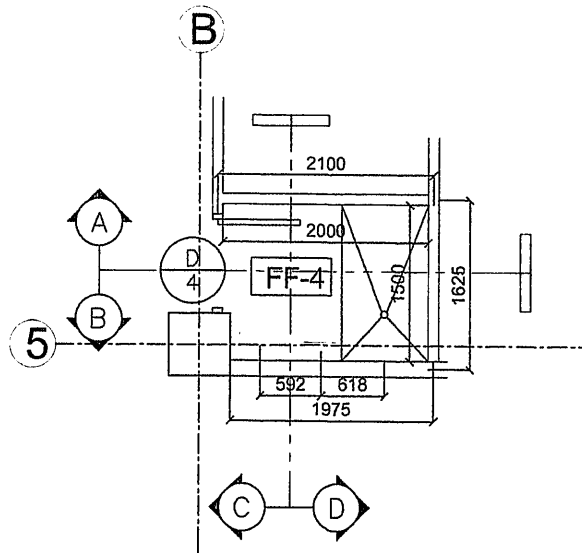
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①	TANK TYPE WATER CLOSET
②	URINAL
③	LAVATORY
④	MIRROR
⑤	FAUCET
⑥	SHOWER HEAD
⑦	SHOWER VALVE
⑧	SOAP HOLDER

TOILET LEGENDS:	
⑨	TISSUE HOLDER
⑩	GRAB BAR
⑪	CONTINUOUS HEADER FRAME, HPL PHENOLIC (COLOR: BROWN)
⑫	SYNTHETIC GRANITE COUNTER TOP
FF-4	300 X 300 NON SKID FLOOR TILE
WF-2	300 X 600 GLAZED WALL TILES (1.8 M HEIGHT)

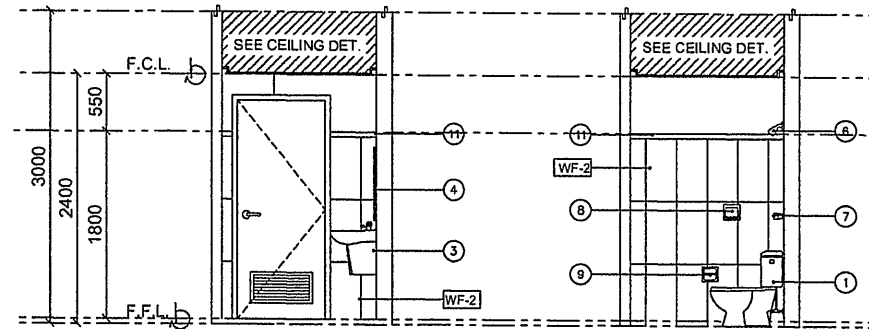


SECTION A

SECTION B



TESDA INNOVATION CENTER - NCR  
TOILET & BATH THIRD FLOOR PLAN  
SCALE: 1:50 mm



SECTION C

SECTION D

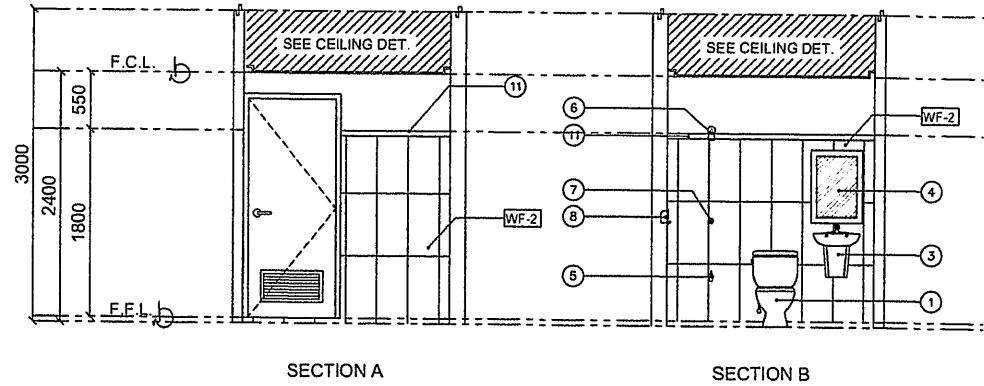
TESDA INNOVATION CENTER - NCR  
TOILET & BATH SECTIONS  
SCALE: 1:50 mm

	CONCURRED BY  DIR. DANIEL B. BUNGALALON EXECUTIVE DIRECTOR (NCR)	RECOMMENDING APPROVAL  DIR. JUNIEL O. OROZCO CHIEF OF STAFF OFFICE OF THE DIRECTOR GENERAL	APPROVED BY  SEC. ISIDRO S. LAPENA, PH.D., CSEE DIRECTOR GENERAL	PROJECT TITLE PROPOSED TESDA INNOVATION CENTER - NCR	PREPARED AND CHECKED BY  MS. GRACIE C. TEODORO CAD OPERATOR, SP4-000	REVIEWED AS TO PLAN  ARNEL R. VENZOZA ARCHITECT (SP1-000)	SUBMITTED BY  ENGR. ROY LOUIE P. MINGARACAL CAD OPERATOR, SP4-000	SHEET CONTENTS AS SHOWN	SHEET NO. A-17
	<small>UNSCALED: TESDA Center, San Antonio Rd. 2224, Parañaque, Region IV</small>								

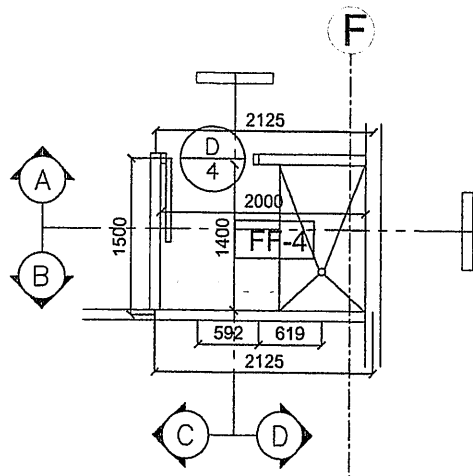


TOILET LEGENDS:	
①	TANK TYPE WATER CLOSET
②	URINAL
③	LAVATORY
④	MIRROR
⑤	FAUCET
⑥	SHOWER HEAD
⑦	SHOWER VALVE
⑧	SOAP HOLDER

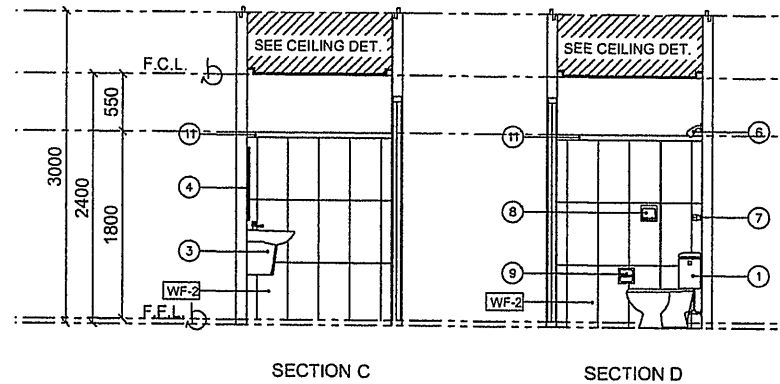
TOILET LEGENDS:	
⑨	TISSUE HOLDER
⑩	GRAB BAR
⑪	CONTINUOUS HEADER FRAME, HPL PHENOLIC (COLOR: BROWN)
⑫	SYNTHETIC GRANITE COUNTER TOP
FF-4	300 X 300 NON SKID FLOOR TILE
WF-2	300 X 600 GLAZED WALL TILES (1.8 M HEIGHT)



TESDA INNOVATION CENTER - NCR  
**TOILET & BATH SECTIONS**  
 SCALE: 1:50 mm



TESDA INNOVATION CENTER - NCR  
**TYP. CHIEF'S OFFICE T & B LAYOUT**  
 SCALE: 1:50 mm

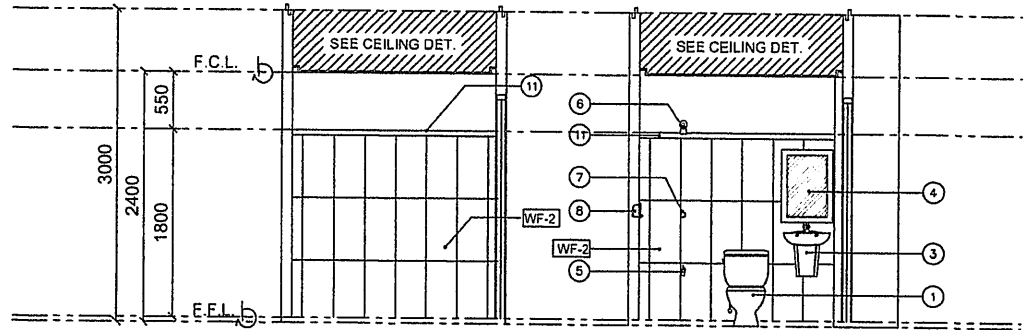


TESDA INNOVATION CENTER - NCR  
**TOILET & BATH SECTIONS**  
 SCALE: 1:50 mm

 TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	CONCURRED BY  DIR. DAVID B. BUNGALLAN EXECUTIVE DIRECTOR (FINESD)	RECOMMENDING APPROVAL  DIR. JULIET G. PROCKO CHIEF OF STAFF OFFICE OF THE DIRECTOR GENERAL	APPROVED BY  SEC. ISIDRO S. LAZERA, PH.D., CSEE DIRECTOR GENERAL	PROJECT TITLE PROPOSED TESDA INNOVATION CENTER - NCR	CADD BY  MAS. GRACIE C. TEODORO CAD OPERATOR, EPL-000	REVIEWED AS TO PLAN  ARCH. RUTIL M. MENDOZA ARCHITECT, EPL-000	SUBMITTED BY  ENGR. RODY LOUIE P. MINGARACAL HEAD, EPL-000	SHEET CONTENTS AS SHOWN	SHEET NO. <b>A-18</b>
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TOILET LEGENDS:	
①	TANK TYPE WATER CLOSET
②	URINAL
③	LAVATORY
④	MIRROR
⑤	FAUCET
⑥	SHOWER HEAD
⑦	SHOWER VALVE
⑧	SOAP HOLDER

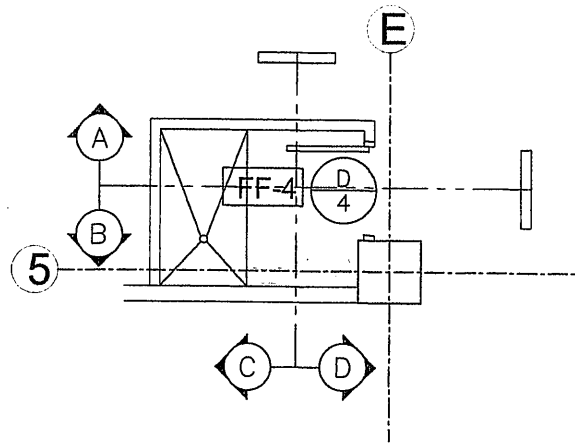
TOILET LEGENDS:	
⑨	TISSUE HOLDER
⑩	GRAB BAR
⑪	CONTINUOUS HEADER FRAME, HPL PHENOLIC (COLOR: BROWN)
⑫	SYNTHETIC GRANITE COUNTER TOP
FF-4	300 X 300 NON SKID FLOOR TILE
WF-2	300 X 600 GLAZED WALL TILES (1.8 M HEIGHT)



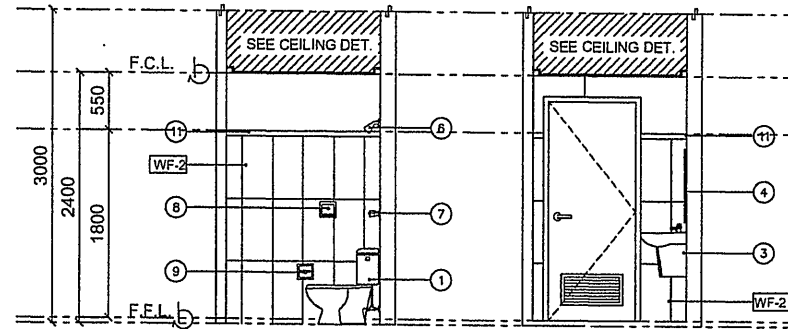
SECTION A

SECTION B

TESDA INNOVATION CENTER - NCR  
TOILET & BATH SECTIONS  
SCALE: 1:50 mm



TESDA INNOVATION CENTER - NCR  
REGIONAL DIRECTOR'S T & B LAYOUT  
SCALE: 1:50 mm

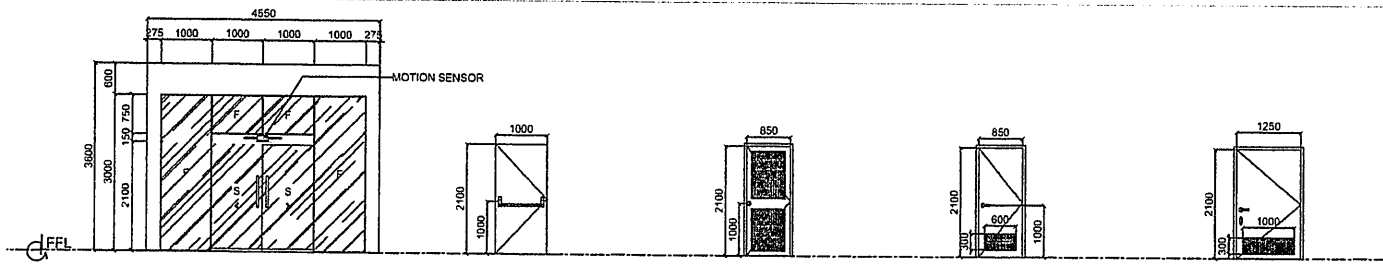


SECTION C

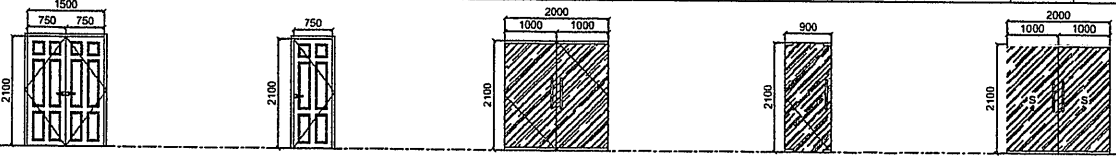
SECTION D

TESDA INNOVATION CENTER - NCR  
TOILET & BATH SECTIONS  
SCALE: 1:50 mm

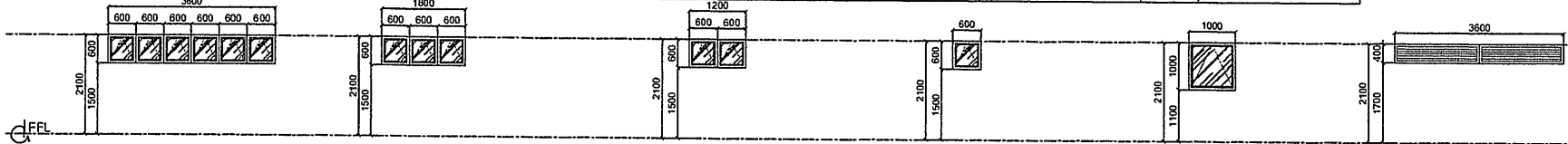
 TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	CONCURRED BY:  DIR. JUAN B. BUNGALLON EXECUTIVE DIRECTOR, NITESO	RECOMMENDING APPROVAL:  DIR. JUNIUS PROZCKO CHIEF OF STAFF OFFICE OF THE DIRECTOR GENERAL	APPROVED BY:  SEC. ISIDRO S. LAPEÑA, PH.D., CSEE DIRECTOR GENERAL	PROJECT TITLE: PROPOSED TESDA INNOVATION CENTER - NCR	CADD BY:  MS. GRACIE C. TEODORO CAD OPERATOR, GPU/ODS	REVIEWED AS TO PLAN:  ARCH. RANIEL A. MENDOZA ARCHITECT, GPU/ODS	SUBMITTED BY:  ENGR. ROMY LOUIE P. MINGARACAL CAD OPERATOR	SHEET CONTENTS: AS SHOWN	SHEET NO. A-19
	<small>LOCATION: TESDA City Office, Corrales Rd. Bldg. 1, 1st Floor, Quezon City</small>								



SCHEDULE	D01	SCHEDULE	D02	SCHEDULE	D03	SCHEDULE	D04	SCHEDULE	D05		
LOCATION	ENTRY	LOCATION	FIRE EXIT	LOCATION	ELECTRICAL ROOM, AHU ROOM, MACHINE ROOM	LOCATION	TOILET	LOCATION	PVID TOILET		
DIMENSION	4550 mm x 3000 mm	DIMENSION	1000 mm x 3600 mm	DIMENSION	850 mm x 3000 mm	DIMENSION	850 mm x 3000 mm	DIMENSION	1250 mm x 2100 mm		
DESCRIPTION	DOUBLE SLIDING PANEL w/ MOTION SENSOR AND PERIPHERALS, SUCH AS KEYPAD, PUSH BUTTONS AND REMOTE CONTROL, AUTOMATIC LOCKS, TOUCH LESS SWITCH, ACCESS CONTROL AND INTEGRATED SENSOR (2mm THK GLASS COLOR: TESDA BLUE) METAL FITTINGS FOR HINGES AND D-TYPE HANDLE 600mm LENGTH AND MORTISE LOCK SET	DESCRIPTION	SINGLE SWING PRE-FABRICATED STEEL DOOR TYP HINGED DOOR ON FD x 150mm METAL JAMB w/ WYLDESECT STRIP COLOR: SMOKE SEAL, w/ PANIC DOOR BAR	DESCRIPTION	ENGLR SWING PANEL LAMINATED DOOR w/ TYP HINGED DOOR ON 50 x 150mm METAL JAMB FRAME w/ HINGED PRIVACY HINGE TYPE LOCK SETS	DESCRIPTION	SINGLE SWING UPVC FLUSH DOOR TYP HINGED DOOR ON 50 x 150mm PVC JAMB FRAME WITH LEVER TYPE HANDLE & LOCK SET	DESCRIPTION	SINGLE SWING UPVC FLUSH DOOR TYP HINGED DOOR ON 50 x 150mm PVC JAMB FRAME WITH LEVER TYPE HANDLE & LOCK SET, 150mm ALUMINUM D-HANDLE	DESCRIPTION	SINGLE SWING UPVC FLUSH DOOR TYP HINGED DOOR ON 50 x 150mm PVC JAMB FRAME WITH LEVER TYPE HANDLE & LOCK SET, 150mm ALUMINUM D-HANDLE
NO OF SET	ONE (1) SET	NO OF SET	SIX (6) SETS	NO OF SET	SEVEN (7) SETS	NO OF SET	NINE (9) SETS	NO OF SET	THREE (3) SETS		



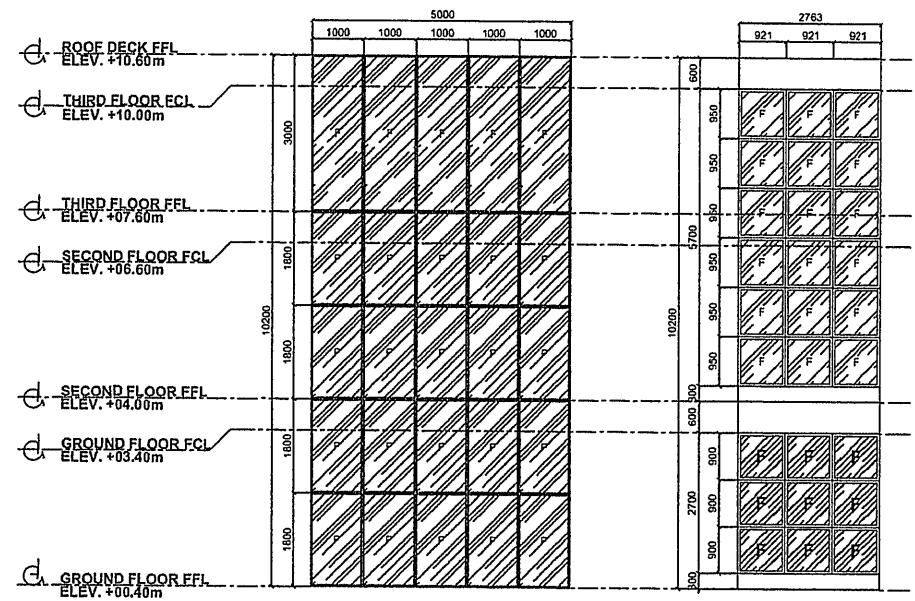
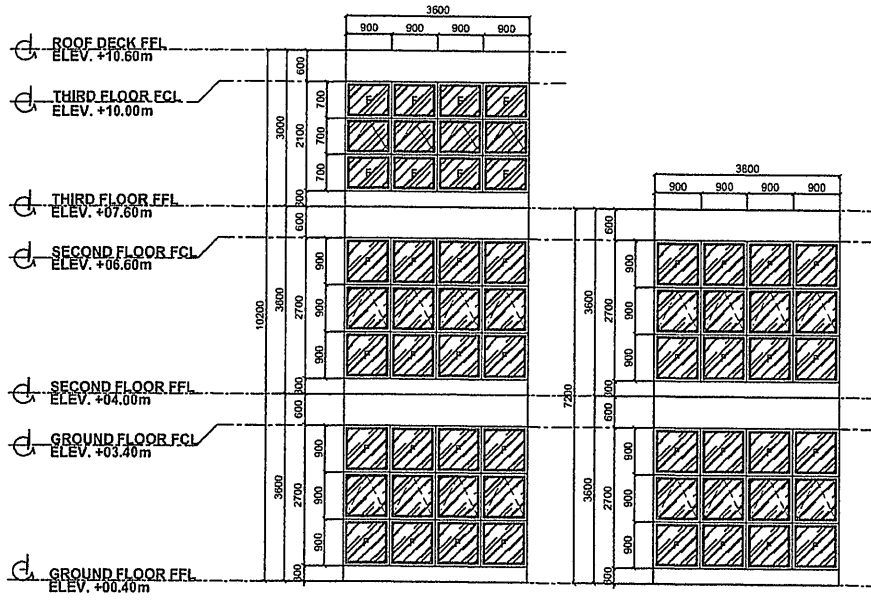
SCHEDULE	D06	SCHEDULE	D07	SCHEDULE	D08	SCHEDULE	D09	SCHEDULE	D10		
LOCATION	GENERAL MEETING ROOM, REGIONAL DIRECTORS OFFICE	LOCATION	FCC RM, SECURITY RM, TELCD RM, BUILDING ADMIN OFF, PROTOTYPING AREA, LECTURE RM, MULTI-FUNCTION RM, COMPUTER RESEARCH AREA, GENERAL MEETING RM, COLLABORATION CENTER, CHIEF OFFICE, RPD RECORDS STORAGE, PMS RECORDS STORAGE, PMS CHIEF OFFICE, CASHIER & ACCOUNTING OFFICE	LOCATION	ELEVATOR LOBBY	LOCATION	ELEVATOR LOBBY	LOCATION	ELEVATOR LOBBY	LOCATION	ELEVATOR LOBBY
DIMENSION	1500mm x 2100mm	DIMENSION	1800mm x 600mm	DIMENSION	2000mm x 2100mm	DIMENSION	800mm x 2100mm	DIMENSION	2000mm x 2100mm	DIMENSION	2000mm x 2100mm
DESCRIPTION	DOUBLE SWING TWO LEAF PANEL DOOR, TYP HINGED DOOR ON 50 x 150mm WOOD JAMB FRAME w/ LEVER TYPE HANDLE & LOCK SET	DESCRIPTION	DOUBLE SWING LEAF PANEL DOOR, TYP HINGED DOOR ON 50 x 150mm WOOD JAMB FRAME w/ LEVER TYPE HANDLE & LOCK SET	DESCRIPTION	DOUBLE SWING GLASS DOOR FRAMED w/ METAL FITTINGS TWO LEAF w/ REV MORTISE LOCK SET AND GLASS DOOR D-HANDLE	DESCRIPTION	DOUBLE SWING GLASS DOOR FRAMED w/ METAL FITTINGS SINGLE LEAF w/ REV MORTISE LOCK SET AND GLASS DOOR D-HANDLE	DESCRIPTION	DOUBLE SWING DOOR 12mm THK GLASS (COLOR: TESDA BLUE) METAL FITTINGS FOR HINGES AND D-TYPE HANDLE 600mm LENGTH AND MORTISE LOCK SET	DESCRIPTION	DOUBLE SWING DOOR 12mm THK GLASS (COLOR: TESDA BLUE) METAL FITTINGS FOR HINGES AND D-TYPE HANDLE 600mm LENGTH AND MORTISE LOCK SET
NO OF SET	TWO (2) SETS	NO OF SET	EIGHTEEN (18) SETS	NO OF SET	TWO (2) SETS	NO OF SET	TWO (2) SETS	NO OF SET	TWO (2) SETS		



SCHEDULE	W1	SCHEDULE	W2	SCHEDULE	W3	SCHEDULE	W4	SCHEDULE	W5	SCHEDULE	W6		
LOCATION	FCC SECURITY RM, BLDG ADMIN OFF, LECTURE RM, MEETING RM, ARCHIVE, OFFICE FILING SUPPLIES STORAGE	LOCATION	FEMALE TOILET, LECTURE RM, COMMAND CENTER, INVERTER CHARGE CONTROLLER BATTERY RM	LOCATION	TELCD RM, BLDG ADMIN OFFICE, QUARTERS RM	LOCATION	MACHINE RM, AHU RM, TOILET HALLWAY, MALE TOILET, QUARTERS RM, TOILET	LOCATION	CASHIER AND ACCOUNTING OFFICE	LOCATION	CASHIER AND ACCOUNTING OFFICE	LOCATION	CASHIER AND ACCOUNTING OFFICE
DIMENSION	3000mm x 600mm	DIMENSION	1600mm x 600mm	DIMENSION	1200mm x 600mm	DIMENSION	600mm x 600mm	DIMENSION	1000mm x 1000mm	DIMENSION	3200mm x 400mm		
DESCRIPTION	AWNING TYPE W/ 2" THK GLASS ANALOK FRAME & JAMB (COLOR: TESDA BLUE) w/ COMPLETE FITTINGS & ACCESSORIES	DESCRIPTION	AWNING TYPE W/ 2" THK GLASS ANALOK FRAME & JAMB (COLOR: TESDA BLUE) w/ COMPLETE FITTINGS & ACCESSORIES	DESCRIPTION	AWNING TYPE W/ 2" THK GLASS ANALOK FRAME & JAMB (COLOR: TESDA BLUE) w/ COMPLETE FITTINGS & ACCESSORIES	DESCRIPTION	AWNING TYPE W/ 2" THK GLASS ANALOK FRAME & JAMB (COLOR: TESDA BLUE) w/ COMPLETE FITTINGS & ACCESSORIES	DESCRIPTION	AWNING TYPE W/ 2" THK GLASS ANALOK FRAME & JAMB (COLOR: TESDA BLUE) w/ COMPLETE FITTINGS & ACCESSORIES	DESCRIPTION	UPVC LAMINATED PANEL (COLOR: BLACK) w/ UPVC 60mm x 150mm JAMB	DESCRIPTION	UPVC LAMINATED PANEL (COLOR: BLACK) w/ UPVC 60mm x 150mm JAMB
NO OF SET	ELEVEN (11) SETS	NO OF SET	NINE (9) SETS	NO OF SET	THREE (3) SETS	NO OF SET	TEN (10) SETS	NO OF SET	ONE (1) SET	NO OF SET	THREE (3) SETS		

TESDA INNOVATION CENTER - NCR  
**SCHEDULE OF DOORS & WINDOWS**  
 SCALE: 1:100 mm

	CONCURRED BY	RECOMMENDING APPROVAL	APPROVED BY	PROJECT TITLE	CADD BY	REVIEWED AS TO PLAN:	SUBMITTED BY	SHEET CONTENTS	SHEET NO.
	 DIR. DAVID B. BUIGALLON EXECUTIVE DIRECTOR, HITEED	 DIR. JULIAN P. PROCCO CHIEF OF STAFF, OFFICE OF THE DIRECTOR GENERAL	 SEC. ISIDRO S. LOPERA, PH.D., CSEE DIRECTOR GENERAL	PROPOSED TESDA INNOVATION CENTER - NCR	 MS. GRACIE C. TEODORO CAD OPERATOR, SPA-008	 ARCH. RUEL A. MENDOZA ARCHITECT, PRC-007	 ENGR. ROY LOUIE P. MINGARCAL HEAD SPA-008	AS SHOWN	A - 20



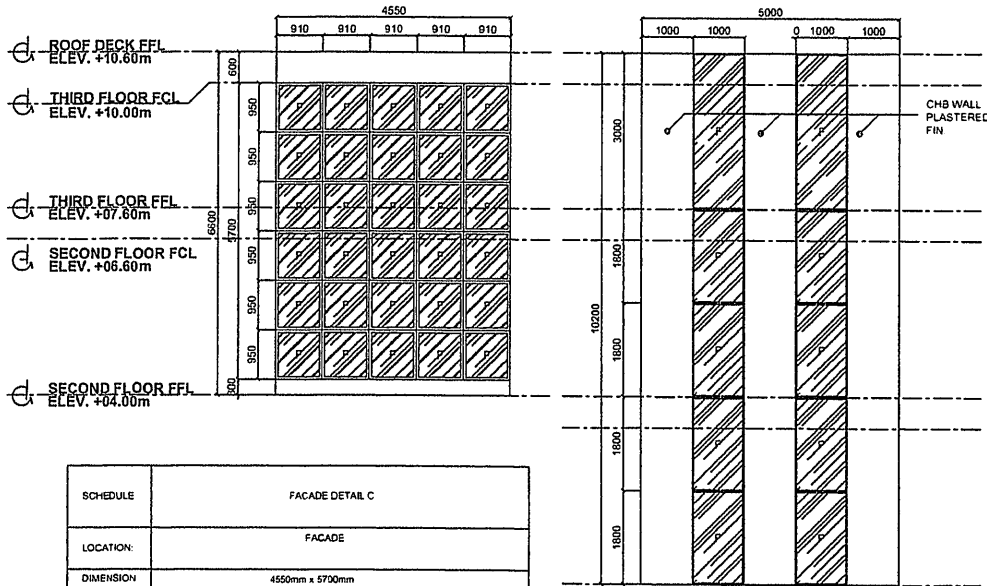
SCHEDULE	W 7	W 8
LOCATION	PRIVATE MEETING ROOM, MULTI-FUNCTION ROOM, GENERAL MEETING ROOM	PROTOTYPING AREA, COMPUTER RESEARCH AREA
DIMENSION	3600mm x 2700mm, 3600mm x 2100mm	3600mm x 2700mm
DESCRIPTION	AWNING TYPE W/ FIXED 3/4 THK GLASS ANALOK FRAME & JAMB (COLOR: TESDA BLUE) W/ COMPLETE FITTINGS & ACCESSORIES	AWNING TYPE W/ FIXED 3/4 THK GLASS ANALOK FRAME & JAMB (COLOR: TESDA BLUE) W/ COMPLETE FITTINGS & ACCESSORIES
NO OF SET	1 SET	1 SET

SCHEDULE	FAÇADE DETAIL A	SCHEDULE	FAÇADE DETAIL B
LOCATION	FRONT FAÇADE	LOCATION	FRONT FAÇADE
DIMENSION	10200mm x 5000mm	DIMENSION	5700mm x 2763mm, 2700mm x 2763mm
DESCRIPTION	FRAMELESS-FIXED TYPE WINDOW WITH 10mm THICK TOUGHENED OR TEMPERED GLASS (COLOR: TESDA BLUE)	DESCRIPTION	FIXED TYPE W/ 3/4 THK BRONZE GLASS ANALOK FRAME & JAMB W/ COMPLETE FITTINGS & ACCESSORIES (COLOR: TESDA BLUE)
NO OF SET	5 SETS	NO OF SET	2 SETS

TESDA NCR-RO INNOVATION CENTER  
**SCHEDULE OF WINDOWS**  
 SCALE: 1: 100 mm

TESDA NCR-RO INNOVATION CENTER  
**FAÇADE DETAILS - 01**  
 SCALE: 1: 100 mm

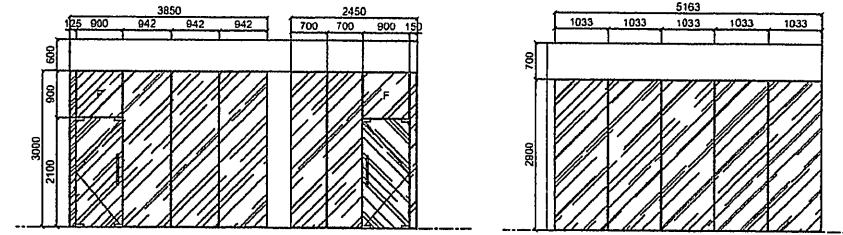
TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	CONCURRED BY	RECOMMENDING APPROVAL	APPROVED BY	PROJECT TITLE	DESIGNED AND PREPARED BY	CADD BY	REVIEWED AS TO PLAN	SUBMITTED BY	SHEET CONTENTS	SHEET NO.
	 DIR. WAND B. BUNGALLON EXECUTIVE DIRECTOR, ITESRD	 DIR. JUVENAL C. CROZCO CHIEF OF STAFF OFFICE OF THE DIRECTOR GENERAL	 SEC. LIDORO S. LAFERA, PH.D., CSEE DIRECTOR GENERAL	PROPOSED TESDA INNOVATION CENTER - NCR	DESIGNED AND PREPARED BY: MS. GRACIE G. TEODORO, CAD OPERATOR, EPI-ODS CHECKED BY: MS. GRACIE G. TEODORO, CAD OPERATOR, EPI-ODS APPROVED BY: MRS. GRACIE G. TEODORO, CAD OPERATOR, EPI-ODS	 MS. GRACIE G. TEODORO CAD OPERATOR, EPI-ODS	 ARCH. RYNIEL A. MENDOZA ARCHITECT, EPI-ODS	 ENGR. ROY LOUIE P. MINGARACAL CIVIL ENGINEER	AS SHOWN	A - 21



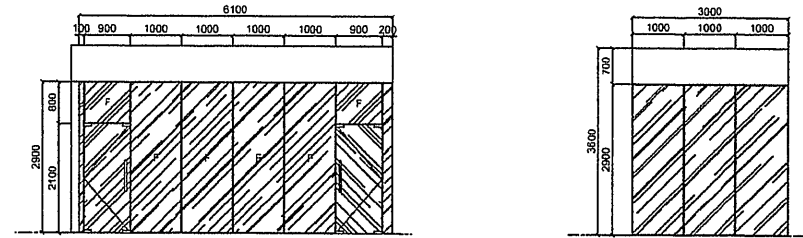
SCHEDULE	FACADE DETAIL C
LOCATION	FACADE
DIMENSION	4550mm x 5700mm
DESCRIPTION	FIXED TYPE WITH 10mm THICK BRONZE GLASS ANALOK FRAME & JAMB W/ COMPLETE FITTINGS & ACCESSORIES (COLOR TESDA BLUE)
NO OF SET	1 SET

TESDA NCR-RO INNOVATION CENTER  
**FACADE DETAILS - 02**  
 SCALE: 1: 100 mm

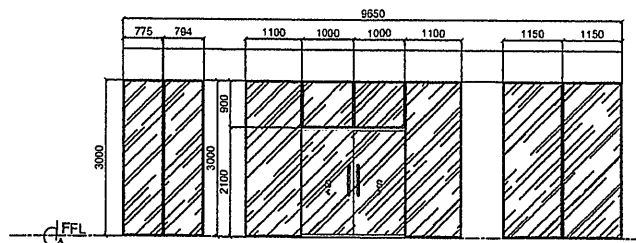
SCHEDULE	FACADE DETAIL D
LOCATION	FACADE, ELEVATOR LOBBY
DIMENSION	10200mm x 5000mm
DESCRIPTION	FRAMELESS-FIXED TYPE WINDOW WITH 10mm THICK TOUGHENED OR TEMPERED GLASS (COLOR TESDA BLUE)
NO OF SET	5 SETS



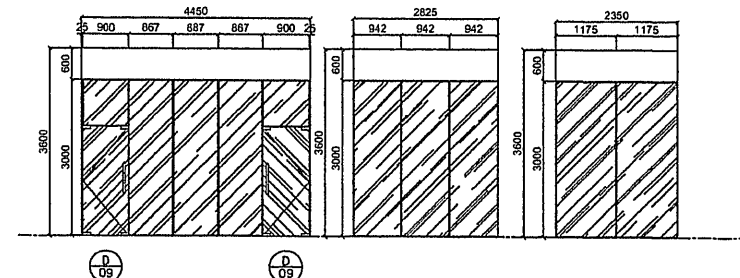
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**SECTION THRU B-3**  
 SCALE: 1: 100 mm



TESDA INNOVATION CENTER - NCR  
**SECTION THRU B-4**  
 SCALE: 1: 100 mm

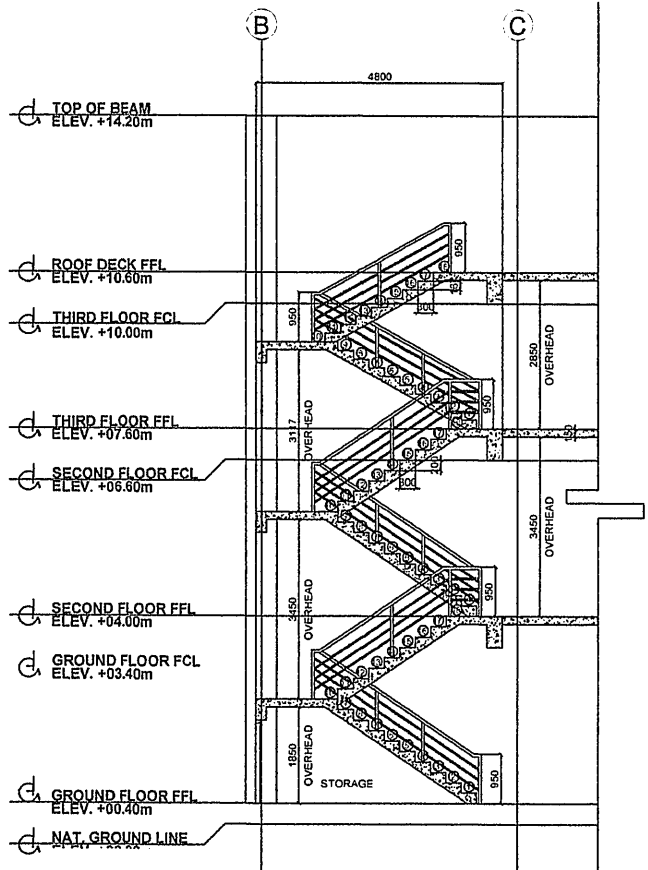


TESDA INNOVATION CENTER - NCR  
**SECTION THRU C**  
 SCALE: 1: 100 mm

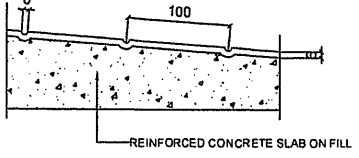


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**SECTION THRU B-3 (SECOND FLOOR)**  
 SCALE: 1: 50 mm

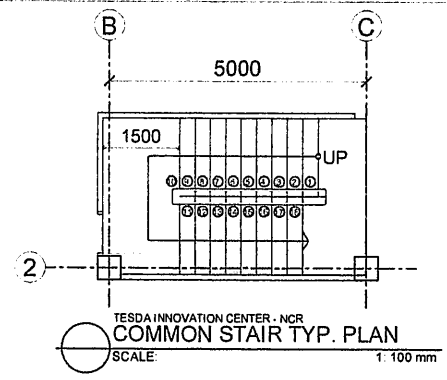
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	 DIR. DAVID S. BUNGALLON EXECUTIVE DIRECTOR, TESDA	 DIR. JULIET O. BROZCO CHIEF OF DIVISION OFFICE OF THE DIRECTOR GENERAL	 SEC. ISIDRO S. LAPENA, PH.D., CSEE DIRECTOR GENERAL	PROPOSED TESDA INNOVATION CENTER - NCR	 MS. GRACIE C. TEODORO CAD OPERATOR, SP/000	 ARCH. RUNIEL A. MIRANDAZA ARCHITECT, SP/000	 ENGR. ROY-LOUIS P. MINGARCAL HEAD, SP/000	AS SHOWN	A - 22



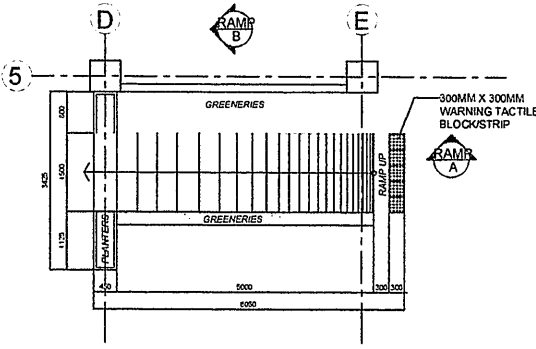
TESDA INNOVATION CENTER - NCR  
COMMON STAIR DETAILS  
SCALE: 1: 100 mm



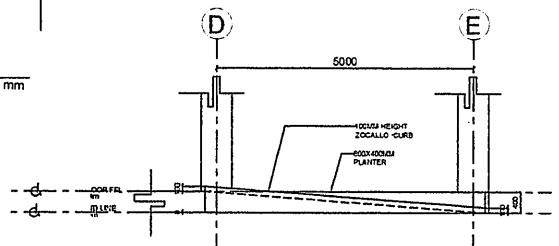
TESDA INNOVATION CENTER - NCR  
RAMP DETAIL  
SCALE: 1: 100 mm



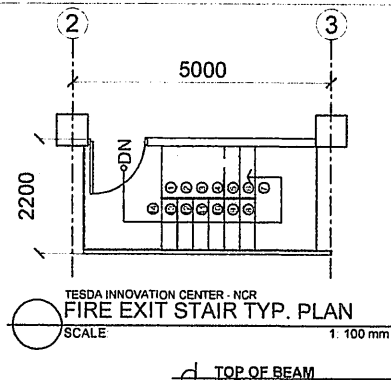
TESDA INNOVATION CENTER - NCR  
COMMON STAIR TYP. PLAN  
SCALE: 1: 100 mm



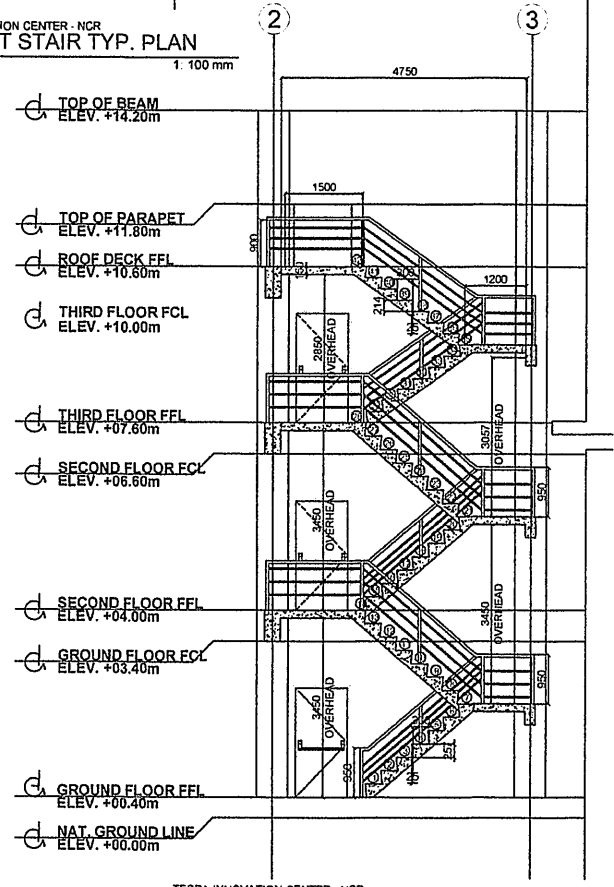
TESDA INNOVATION CENTER - NCR  
RAMP LAYOUT  
SCALE: 1: 100 mm



TESDA INNOVATION CENTER - NCR  
RAMP SECTION  
SCALE: 1: 100 mm



TESDA INNOVATION CENTER - NCR  
FIRE EXIT STAIR TYP. PLAN  
SCALE: 1: 100 mm



TESDA INNOVATION CENTER - NCR  
FIRE EXIT STAIR DETAILS  
SCALE: 1: 100 mm



CONCURRED BY:  
*[Signature]*  
DIR. DAVID B. BUNGALLON  
EXECUTIVE DIRECTOR (NCR)

RECOMMENDING APPROVAL:  
*[Signature]*  
DIR. JANEY O. ROZCO  
CHIEF OF STAFF  
OFFICE OF THE DIRECTOR GENERAL

APPROVED BY:  
*[Signature]*  
SEC. ISIDRO S. LAPERA, PH.D., CSEE  
DIRECTOR GENERAL

PROJECT TITLE:  
PROPOSED TESDA  
INNOVATION CENTER - NCR

DESIGNED AND SPECIFICATIONS BY:  
CADD BY:  
MS. GRACIE C. TEODORO  
CAD OPERATOR (SPU-CDD)

REVIEWED AS TO PLAN:  
*[Signature]*  
ASCH. RUMIEL A. BENOZOA  
ARCHITECT (SPU-CDD)

SUBMITTED BY:  
*[Signature]*  
ENGR. ROY LOUIE P. LINGARACAL  
HEAD (SPU-CDD)

SHEET CONTENTS:  
AS SHOWN

SHEET NO.  
A - 23

# STRUCTURAL DESIGN NOTES, STANDARD DRAWINGS & SPECIFICATIONS

## A. GENERAL NOTES:

- THE STRUCTURAL DRAWING SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS WITH ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, ANCHORS, HOLES AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORKS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTIONS AS TO PLAN AND PROGRAMS.
- THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACINGS REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORKS AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES, AND SEQUENCES OF THE CONTRACTOR.
- DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION, WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO THE APPROVAL OF THE ENGINEER.
- ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH THE SUPPLIER'S INSTRUCTIONS AND REQUIREMENTS.
- LOADING APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION SHALL NOT EXCEED THE SAFE LOAD-CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOADINGS USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACINGS ARE IN PLACE.
- SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL. THE ENGINEER'S REVIEW IS TO BE CONFORMANT WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK AND COORDINATE THE SHOP DRAWING PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THE SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC.
- SUBMIT SHOP DRAWINGS IN THE FORM OF TWO BLUELINE PRINTS. IN NO CASE SHALL REPRODUCTION OF THE CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS. AS A MINIMUM, SUBMIT THE FOLLOWING ITEMS FOR REVIEW:
  - REINFORCING STEEL SHOP DRAWINGS
  - STRUCTURAL STEEL SHOP DRAWINGS
 OTHER SUBMITTALS MAY BE REQUIRED IN ACCORDANCE WITH THE "SCHEDULE OF SPECIAL INSPECTIONS" OR THE SEPARATE NOTES CONTAINED HEREIN.
- IN THE INTERPRETATION OF THESE DRAWINGS, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES OR SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- ALL REINFORCED CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE ACI-318-08 BUILDING CODE, AND ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS (LATEST EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENTS.
- ALL SLABS, BEAMS, GIRDERS AND OTHER STRUCTURAL ELEMENTS WHICH ARE NOT INDICATED, DETAILED, DESIGNATED OR INADVERTENTLY OMITTED BUT ARE NECESSARY TO BE COORDINATED WITH ARCHITECTURAL AND OTHER ALLIED ENGINEERING PLANS AS WELL AS TO COMPLETE THE STRUCTURAL WORKS IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT UP DURING PRE-BID MEETINGS/NEGOTIATIONS. IT IS UNDERSTOOD THAT THE CONTRACTOR HAS PROVIDED AND INCLUDED ALL THESE ITEMS IN THEIR BID.

## B. NOTES ON CONCRETE MIXES AND PLACING

- CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION, RE-HANDLING OR FLOWING. PLACING SHALL BE DONE PREFERABLY WITH BUCKETS, BUCKETS OR WHEEL BARROWS. HO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUCKETS, WHEEL BORROWS OR BUCKETS, IN WHICH CASE, THEY SHALL NOT EXCEED SIX THOUSAND (6000mm) IN AGGREGATE LENGTH.
- NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATION IS EXTREMELY DIFFICULT TO ACCOMPLISH.

## C. NOTES ON STRUCTURAL STEEL

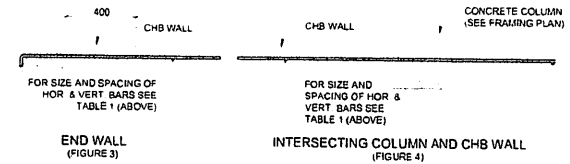
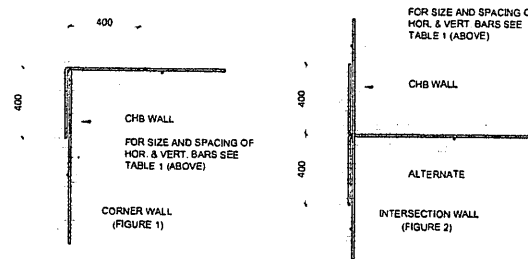
- ALL STRUCTURAL STEEL SHALL CONFORM TO THE 2005 13TH EDITION OF "MANUAL OF STEEL CONSTRUCTION" & "AISC 360-10 SPECIFICATION OF STRUCTURAL STEEL BUILDINGS" OF THE AISC.
- ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USING E70XX ELECTRODES UNLESS OTHERWISE NOTED. PROVIDE CONT. MIN. SIZED FILLET WELDS PER AISC REQUIREMENTS. ALL FILLER MATERIAL SHALL HAVE A MINIMUM YIELD STRENGTH OF 70 KSI.
- UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO VIEW SHALL BE SHOP PAINTED WITH TWO COAT OF RED OXIDE PAINT.
- THE STRUCTURAL STEEL ERECTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING (SEE GENERAL STRUCTURAL NOTES).

## D. NOTES ON MASONRY WALLS

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION AND UNIFORM BUILDING CODE.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 GRADE N.
- MORTAR AND GROUT FOR ALL REINFORCED MASONRY SHALL CONFORM TO ASTM 270-TYPE M AND SHALL HAVE A MINIMUM 28-DAYS STANDARD CYLINDER COMPRESSIVE STRENGTH OF 21 MPa (3000 PSI).
- ALL MASONRY WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF CONCRETE HOLLOW BLOCK REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS.
- ALL CELLS CONTAINING REINFORCING BARS OR INSERTS SHALL BE SOLIDLY FILLED WITH CONCRETE GROUT.
- FOR TYPICAL CONNECTION DETAILS ON MASONRY UNITS, REFER TABLE 1 & FIGURES 1, 2, 3 & 4.

TABLE 1 - SCHEDULE OF CONCRETE HOLLOW BLOCK REINFORCEMENT

THICKNESS mm	REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
100	10mmØ @ 600mm O.C.	10mmØ @ 600mm O.C.	A. MINIMUM LAP SLICES = 400 B. PROVIDE 1-12mmØ VERTICAL BAR @ CORNERS, INTERSECTIONS, END OF WALLS, AND EACH SIDE OF OPENING. C. WHERE CHB WALLS ADJOIN COLUMNS OR BEAMS & WALLS, DOWNLETS WITH THE SAME SIZE AS VERTICAL HORIZONTAL REINFORCEMENT SHALL BE PROVIDED.
150	12mmØ @ 600mm O.C.	12mmØ @ 600mm O.C.	D. LINTEL BEAMS SHALL BEAR AT LEAST 18 INCHES (400 mm) ON EACH SIDE OF MASONRY WALL OPENING.



TYPICAL CONNECTION DETAILS OF CONCRETE MASONRY UNITS AT COLUMN AND/OR WALLS

## E. NOTES ON SLAB-ON-GRADE

- THE SOIL SUBGRADE AND FILL LAYERS BELOW ALL SLAB ON GRADE, PAVING AND PIT SHALL BE MECHANICALLY COMPACTED IN LAYERS. TO THE MIN. OF 95% OF THE MODIFIED UNIFORM BUILDING CODE.
- ALL SLABS-ON-GRADE SHALL BE PROVIDED WITH A MIN. OF 75mm THK GRAVEL BEDDING OR UNLESS NOTED.
- UNLESS OTHERWISE NOTED, ALL BEDDED SLABS SHALL BE REINFORCED WITH 12mm BARS AT 300mm O.C. EACHWAY AT THE CENTER OF SLAB.
- IN ORDER TO AVOID CONCRETE SHRINKAGE CRACKING, PLACE SLAB IN ALTERNATING LANE (OR CHECKBOARD) PATTERN. THE MAX. LENGTH OF SLAB CAST IN ANY ONE CONTINUOUS POUR IS RECOMMENDED TO BE LESS THAN 100 FEET. THE MAX. SPACING OF JOINTS SHALL BE 25' (7.6m).
- SEE THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEPRESSED SLAB AREAS AND DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN.

## F. NOTES ON FOUNDATIONS

- ALL FOUNDATION CONCRETE SHALL OBTAIN A 28 DAYS COMPRESSIVE STRENGTH. ALL CONCRETE TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 5% (+ 1%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C-260.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.
- UNBALANCED BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS AND SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY BRACING OR BY PERMANENT CONSTRUCTION.
- PRIOR TO COMMENCING ANY FOUNDATION WORK, COORDINATE WORK WITH ANY EXISTING UTILITIES. FOUNDATIONS SHALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES.
- UNLESS OTHERWISE NOTED, THE CENTERLINES OF COLUMN FOUNDATIONS SHALL BE LOCATED ON COLUMN CENTERLINES.
- ALL RETAINING WALLS SHALL HAVE AT LEAST 12" OF FREE-DRAINING GRANULAR BACKFILL. AT FULL HEIGHT OF WALL, PROVIDE CONTROL JOINTS IN RETAINING WALLS AT APPROXIMATELY EQUAL INTERVALS NOT TO EXCEED 25 FT. NOR 3 TIMES THE WALL HEIGHT. PROVIDE EXPANSION JOINTS AT EVERY FOURTH CONTROL JOINT, UNLESS OTHERWISE INDICATED.
- ALLOWABLE SOIL BEARING CAPACITY AS PER BY DEVELOPER.

## G. CONCRETE PROTECTION COVER FOR REINFORCEMENT

CONCRETE COVER FOR REINFORCEMENT SHALL BE MEASURED FROM THE CONCRETE SURFACE TO THE OUTERMOST SURFACE OF THE STEEL SURFACE OF THE STEEL, IS TO THE OUTER EDGE OF STIRRUPS, TIES OR SPIRALS ENCLDSING MAIN BAR TO THE OUTERMOST LAYER OF BARS IF MORE THAN ONE LAYER IS USED WITHOUT STIRRUPS OR TIES. THE FF. MIN. CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT.

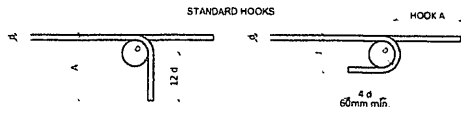
- PERMANENTLY EXPOSED TO EARTH - CONCRETE IN CONTACT WITH EARTH INCLUDING PROTECTED WITH WATERPROOFING.
- MEMBRANE OR BITUMASTIC COATING OTHER BARS COLUMNS TIES GRADE BEAMS SLAB ON GRADE (FROM TOP SURFACE)
- CONCRETE NOT IN CONTACT WITH GROUND - SLABS SHEAR WALLS BEAMS AND COLUMNS OTHER BARS

MIN. COVER IN mm	CLEAR COVER FOR R.C. WALLS	CLEAR COVER FOR BEAMS OR COLUMNS
75		
40		
50		
50		
50		
20		
40		
40		
20		

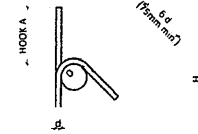
<p>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	CONCURRED BY	RECOMMENDING APPROVAL	APPROVED BY	PROJECT TITLE	PREPARED BY	REVIEWED AS TO PLAN	SUBMITTED BY	SHEET CONTENTS	SHEET NO.
	 DIR. MAN B. MUNGALLON EXECUTIVE DIRECTOR (TESSD)	 DIR. J. O. DROCCO CHIEF OF STAFF OFFICE OF THE DIRECTOR GENERAL	 SEC. ISIDRO S. LARENA PH.D. CSEE DIRECTOR GENERAL	PROPOSED TESDA INNOVATION CENTER - NCR	PREPARED BY: ENGR. SUNSHINE P. INSOSQUITA CIVIL ENGINEER (SP-1000)	REVIEWED AS TO PLAN: ARON RUIBAL AMANDOZA ARCHITECT (SP-1000)	SUBMITTED BY: ENGR. ROY LOUIE P. HINGARACAL HEAD, ST-000	GENERAL NOTES STANDARD DRAWING SPECIFICATIONS	S-1

# STRUCTURAL DESIGN NOTES, STANDARD DRAWINGS & SPECIFICATIONS

## H. STANDARD REINFORCEMENT DETAILS



**90° HOOKS**  
 D=6d for d=8 mm through d=25 mm  
 D=8d for d=28 mm, d=32 mm & d=36 mm  
 D=10d for d=42 mm, & d=47 mm  
 D=Finished bend diameters



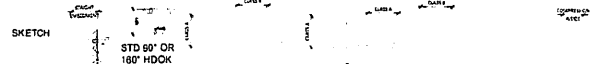
**135° HOOKS**  
 D=6d for d=8 mm through d=25 mm  
 D=8d for d=28 mm, d=32 mm & d=36 mm  
 D=10d for d=42 mm, & d=47 mm

### STANDARD END HOOK DIMENSIONS

BAR SIZE (mm)	D(mm.)	90° HOOKS		135° HOOKS	
		A (mm.)	J (mm.)	A (mm.)	H (mm.)
8	50	105	65	130	
10	60	125	80	155	65
12	69	155	100	200	80
16	95	180	130	250	95
20	120	220	165	325	115
25	155	275	205	425	155
28	240	375	300	475	
32	275	425	335	650	

### BASIC DEVELOPMENT LENGTH, L<sub>db</sub>

BAR SIZE (mm)	DEVT LENGTH L <sub>db</sub>	TENSION				COMPRESSION			
		HOOK DEVT LENGTH L <sub>db</sub>	CLASS A SPLICE	CLASS B SPLICE	TOP BAR (MIN. OF 300mm CONCRETE CAST BELOW)	DEVT LENGTH	COMPRESSION SPLICE	DEVT LENGTH	COMPRESSION SPLICE
Ø10	350	200	300	375	500	375	600	200	375
Ø12	400	225	350	450	575	450	575	250	450
Ø18	550	300	475	600	775	600	775	300	600
Ø20	675	375	675	900	1200	900	1200	400	720
Ø25	1170	475	1170	1375	1375	1375	1775	600	900
Ø28	1350	525	1350	1700	1700	1700	2225	550	1000
Ø32	1750	600	1750	1950	1950	1950	2600	625	1150

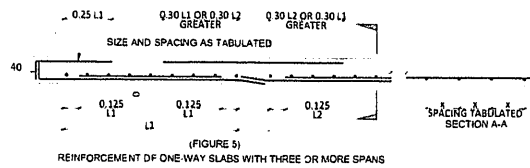


**REMARKS**

BASE FOR DEVT: 1. 25% OF BAR DIA. 2. 50% OF BAR DIA. 3. 100% OF BAR DIA. 4. 150% OF BAR DIA. 5. 200% OF BAR DIA. 6. 250% OF BAR DIA. 7. 300% OF BAR DIA. 8. 350% OF BAR DIA. 9. 400% OF BAR DIA. 10. 450% OF BAR DIA. 11. 500% OF BAR DIA. 12. 550% OF BAR DIA. 13. 600% OF BAR DIA. 14. 650% OF BAR DIA. 15. 700% OF BAR DIA. 16. 750% OF BAR DIA. 17. 800% OF BAR DIA. 18. 850% OF BAR DIA. 19. 900% OF BAR DIA. 20. 950% OF BAR DIA. 21. 1000% OF BAR DIA. 22. 1050% OF BAR DIA. 23. 1100% OF BAR DIA. 24. 1150% OF BAR DIA. 25. 1200% OF BAR DIA. 26. 1250% OF BAR DIA. 27. 1300% OF BAR DIA. 28. 1350% OF BAR DIA. 29. 1400% OF BAR DIA. 30. 1450% OF BAR DIA. 31. 1500% OF BAR DIA. 32. 1550% OF BAR DIA. 33. 1600% OF BAR DIA. 34. 1650% OF BAR DIA. 35. 1700% OF BAR DIA. 36. 1750% OF BAR DIA. 37. 1800% OF BAR DIA. 38. 1850% OF BAR DIA. 39. 1900% OF BAR DIA. 40. 1950% OF BAR DIA. 41. 2000% OF BAR DIA. 42. 2050% OF BAR DIA. 43. 2100% OF BAR DIA. 44. 2150% OF BAR DIA. 45. 2200% OF BAR DIA. 46. 2250% OF BAR DIA. 47. 2300% OF BAR DIA. 48. 2350% OF BAR DIA. 49. 2400% OF BAR DIA. 50. 2450% OF BAR DIA. 51. 2500% OF BAR DIA. 52. 2550% OF BAR DIA. 53. 2600% OF BAR DIA. 54. 2650% OF BAR DIA. 55. 2700% OF BAR DIA. 56. 2750% OF BAR DIA. 57. 2800% OF BAR DIA. 58. 2850% OF BAR DIA. 59. 2900% OF BAR DIA. 60. 2950% OF BAR DIA. 61. 3000% OF BAR DIA. 62. 3050% OF BAR DIA. 63. 3100% OF BAR DIA. 64. 3150% OF BAR DIA. 65. 3200% OF BAR DIA. 66. 3250% OF BAR DIA. 67. 3300% OF BAR DIA. 68. 3350% OF BAR DIA. 69. 3400% OF BAR DIA. 70. 3450% OF BAR DIA. 71. 3500% OF BAR DIA. 72. 3550% OF BAR DIA. 73. 3600% OF BAR DIA. 74. 3650% OF BAR DIA. 75. 3700% OF BAR DIA. 76. 3750% OF BAR DIA. 77. 3800% OF BAR DIA. 78. 3850% OF BAR DIA. 79. 3900% OF BAR DIA. 80. 3950% OF BAR DIA. 81. 4000% OF BAR DIA. 82. 4050% OF BAR DIA. 83. 4100% OF BAR DIA. 84. 4150% OF BAR DIA. 85. 4200% OF BAR DIA. 86. 4250% OF BAR DIA. 87. 4300% OF BAR DIA. 88. 4350% OF BAR DIA. 89. 4400% OF BAR DIA. 90. 4450% OF BAR DIA. 91. 4500% OF BAR DIA. 92. 4550% OF BAR DIA. 93. 4600% OF BAR DIA. 94. 4650% OF BAR DIA. 95. 4700% OF BAR DIA. 96. 4750% OF BAR DIA. 97. 4800% OF BAR DIA. 98. 4850% OF BAR DIA. 99. 4900% OF BAR DIA. 100. 4950% OF BAR DIA. 101. 5000% OF BAR DIA. 102. 5050% OF BAR DIA. 103. 5100% OF BAR DIA. 104. 5150% OF BAR DIA. 105. 5200% OF BAR DIA. 106. 5250% OF BAR DIA. 107. 5300% OF BAR DIA. 108. 5350% OF BAR DIA. 109. 5400% OF BAR DIA. 110. 5450% OF BAR DIA. 111. 5500% OF BAR DIA. 112. 5550% OF BAR DIA. 113. 5600% OF BAR DIA. 114. 5650% OF BAR DIA. 115. 5700% OF BAR DIA. 116. 5750% OF BAR DIA. 117. 5800% OF BAR DIA. 118. 5850% OF BAR DIA. 119. 5900% OF BAR DIA. 120. 5950% OF BAR DIA. 121. 6000% OF BAR DIA. 122. 6050% OF BAR DIA. 123. 6100% OF BAR DIA. 124. 6150% OF BAR DIA. 125. 6200% OF BAR DIA. 126. 6250% OF BAR DIA. 127. 6300% OF BAR DIA. 128. 6350% OF BAR DIA. 129. 6400% OF BAR DIA. 130. 6450% OF BAR DIA. 131. 6500% OF BAR DIA. 132. 6550% OF BAR DIA. 133. 6600% OF BAR DIA. 134. 6650% OF BAR DIA. 135. 6700% OF BAR DIA. 136. 6750% OF BAR DIA. 137. 6800% OF BAR DIA. 138. 6850% OF BAR DIA. 139. 6900% OF BAR DIA. 140. 6950% OF BAR DIA. 141. 7000% OF BAR DIA. 142. 7050% OF BAR DIA. 143. 7100% OF BAR DIA. 144. 7150% OF BAR DIA. 145. 7200% OF BAR DIA. 146. 7250% OF BAR DIA. 147. 7300% OF BAR DIA. 148. 7350% OF BAR DIA. 149. 7400% OF BAR DIA. 150. 7450% OF BAR DIA. 151. 7500% OF BAR DIA. 152. 7550% OF BAR DIA. 153. 7600% OF BAR DIA. 154. 7650% OF BAR DIA. 155. 7700% OF BAR DIA. 156. 7750% OF BAR DIA. 157. 7800% OF BAR DIA. 158. 7850% OF BAR DIA. 159. 7900% OF BAR DIA. 160. 7950% OF BAR DIA. 161. 8000% OF BAR DIA. 162. 8050% OF BAR DIA. 163. 8100% OF BAR DIA. 164. 8150% OF BAR DIA. 165. 8200% OF BAR DIA. 166. 8250% OF BAR DIA. 167. 8300% OF BAR DIA. 168. 8350% OF BAR DIA. 169. 8400% OF BAR DIA. 170. 8450% OF BAR DIA. 171. 8500% OF BAR DIA. 172. 8550% OF BAR DIA. 173. 8600% OF BAR DIA. 174. 8650% OF BAR DIA. 175. 8700% OF BAR DIA. 176. 8750% OF BAR DIA. 177. 8800% OF BAR DIA. 178. 8850% OF BAR DIA. 179. 8900% OF BAR DIA. 180. 8950% OF BAR DIA. 181. 9000% OF BAR DIA. 182. 9050% OF BAR DIA. 183. 9100% OF BAR DIA. 184. 9150% OF BAR DIA. 185. 9200% OF BAR DIA. 186. 9250% OF BAR DIA. 187. 9300% OF BAR DIA. 188. 9350% OF BAR DIA. 189. 9400% OF BAR DIA. 190. 9450% OF BAR DIA. 191. 9500% OF BAR DIA. 192. 9550% OF BAR DIA. 193. 9600% OF BAR DIA. 194. 9650% OF BAR DIA. 195. 9700% OF BAR DIA. 196. 9750% OF BAR DIA. 197. 9800% OF BAR DIA. 198. 9850% OF BAR DIA. 199. 9900% OF BAR DIA. 200. 9950% OF BAR DIA. 201. 10000% OF BAR DIA.

## NOTES:

- 1 WELDED WIRE FABRIC MESH SHOULD BE LAPPED OVER ADJACENT SHEETS BY 300 MM
- 2 BARS SHALL BE SPLICED ONLY WHERE INDICATED EXCEPT THAT BARS INDICATED CONTINUOUS MAY BE SPLICED AT CONTRACTOR CONVENIENCE WHERE SPLICE LOCATIONS FOR CONTINUOUS BARS ARE NOTED THOSE BARS SHALL BE TENSION SPLICED



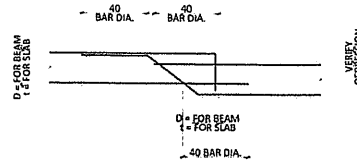
REINFORCEMENT OF ONE-WAY SLABS WITH THREE OR MORE SPANS (FIGURE 5)

- 3 USE COMPRESS LAP SPLICE FOR COLUMN TO ISOLATED FOOTING JUNCTION NOT CONNECTED WITH GRADE BEAMS FOR COLUMN TO ISOLATED FOOTING, WALL FOOTINGS, SHEAR JUNCTION CONNECTED WITH GRADE BEAMS, COMBINED FOOTINGS, RETAINING WALL FOOTINGS AND MAT FOUNDATIONS, TENSION LAP SPLICE SHALL BE USED.

- 4 ALL REINFORCING STEEL SHALL BE SECURELY HELD IN PROPER POSITION WHILE POURING CONCRETE CHAIRS, TES, SPACERS, ADDITIONAL BARS AND STIRRUPS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL REINFORCING STEEL.

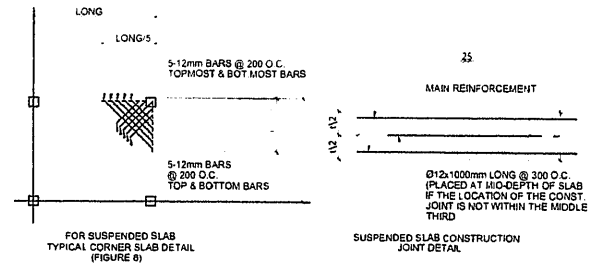
## I. NOTES ON CONCRETE SLABS

- 1 ALL SLAB REINFORCEMENTS SHALL HAVE A MINIMUM CLEAR DISTANCE OF 20mm FROM THE BOTTOM AND FROM THE TOP OF SLABS.
- 2 UNLESS OTHERWISE DETAILED, FOR CONTINUOUS SLABS WITH THE MAIN REINFORCEMENT RUNNING IN ONE DIRECTION, REINFORCING BARS SHALL BE UP, EXTENDED OR CUT AS FOLLOWS:
- 3 IF SLABS ARE REINFORCED BOTHWAYS, BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONG SPAN AT THE CENTER OF THE SLAB AND BE PLACED OVER THE LONGER SPAN BARS ON AREAS NEAR THE SUPPORTS. THE SPACING OF THE BARS AT THE COLUMN STRIPS SHALL BE APPROXIMATELY ONE AND ONE-HALF (1-1/2) TIMES THAT IN THE MIDDLE STRIPS BUT NO CASE GREATER THAN TWO AND ONE-HALF (2-1/2) TIMES THE SLAB THICKNESS OR 450mm.
- 4 TEMPERATURE BARS FOR SLABS SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN .0025 Bt.
- 5 UNLESS OTHERWISE NOTED, DROP SLABS SHALL BE PROVIDED WITH ADDITIONAL REINFORCEMENT AT THE LOCATION OF DROP AS SHOWN IN FIGURE 7.



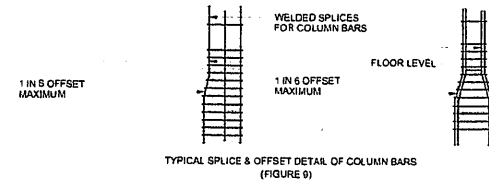
TYPICAL BEAMS LAB CHANGE SOFFIT DETAIL (FIGURE 7)

- 6 PROVIDE EXTRA REINFORCEMENT FOR CORNER SLAB (TWO ADJACENT DISCONTINUOUS EDGES) AS SHOWN BELOW AND AT ENDS AND CORNERS OF SHEAR WALL (SEE FIG. 8)
- 7 SEE MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR ALL SUSPENDED AND EMBEDDED PIPING, CONDUITS, DUCTWORK, EQUIPMENT, ETC.
- 8 UNLESS OTHERWISE NOTED, EMBEDDED CONDUITS SHALL BE RUN GENERALLY AT MID-BAY AND PARALLEL CONDUITS SHALL BE AT THREE DIAMETERS ON CENTER. CONDUIT SIZE NOT EXCEED 1/4 OF THE SLAB THICKNESS AND SHALL BE LOCATED AT MID THICKNESS OF THE SLAB



## J. NOTES ON COLUMNS

- 1 WHERE COLUMNS CHANGE IN SIZE, VERTICAL REINFORCEMENTS SHALL BE OFFSET AT A SLOPE NOT MORE THAN 1 IN 8. PROVIDE TRANSVERSE REINFORCEMENT AS PER ITEM E BELOW FOR JOINTS WITH BAR OFFSETS (AS SHOWN FIGURE 9)



- 2 LAP SPLICES, WHEN REQUIRED, ARE PERMITTED ONLY WITHIN THE CENTER HALF OF THE COLUMN LENGTH AND SHALL BE PROPORTIONED AS TENSION SPLICES. IN NO CASE SHALL THE LAP SPLICE BE LOCATED CLOSER THAN A DISTANCE EQUAL TO THE MAXIMUM COLUMN DIMENSION FROM THE FACE OF THE BEAM-COLUMN JOINT. PROVIDE EXTRA TRANSVERSE REINFORCEMENT OF THE SAME SIZE AND ARRANGEMENT INDICATED IN THE COLUMN SECTION SCHEDULE AT MOST ONE-FOURTH THE MIN. COLUMN SECTION DIMENSION THROUGHOUT THE LENGTH OF THE SPLICE OR 100 mm
- 3 FOR ALL TIED COLUMNS, PROVIDE TRANSVERSE REINFORCEMENT OF THE SAME SIZE AND ARRANGEMENT INDICATED IN THE COLUMN SECTION SCHEDULE AND SPACED NO GREATER THAN ONE-QUARTER THE MINIMUM COLUMN SECTION DIMENSION NOR 100mm, OVER A DISTANCE FROM EACH JOINT FACE OF NOT LESS THAN THE LARGER OF THE MAX. COLUMN SECTION DIMENSION, OR ONE-SIXTH OF THE CLEAR HEIGHT OF THE COLUMN OR 450mm.
- 4 BEAM-COLUMN JOINTS SHALL BE PROVIDED WITH TRANSVERSE REINFORCEMENT SPACED AT TWICE THAT REQUIRED BY ITEM 3 WHEN THERE ARE BEAMS HAVING WIDTHS AT LEAST ONE-HALF THE COLUMN WIDTH AND DEPTHS NOT LESS THAN THREE-QUARTERS OF THE DEEPEST BEAM THAT FRAME DEEPEST BEAM THAT FRAME INTO FOUR SIDES OF THE COLUMN. FOR ALL OTHER CONDITIONS PROVIDE SAME AS REQUIRED IN ITEM 3.

	CONCURRED BY  DIR. DAVOON BUNGALLON EXECUTIVE DIRECTOR, ITESO	RECOMMENDING APPROVAL  DIR. JULIET OROZCO CHIEF OF OFFICE OFFICE DIRECTOR GENERAL	APPROVED BY  SEC. ISIDRO S. LAPENA, PH.D., CSEE DIRECTOR GENERAL	PROJECT TITLE PROPOSED TESDA INNOVATION CENTER - NCR	PREPARED BY  ENGR. SUNIL M. PANSIQUITA CIVIL ENGINEER, ETC	REVIEWED AS TO PLAN  ARRIAL BUNIEL AGUIRRE ARCHITECT, ETC	SUBMITTED BY  ENGR. ROY LOUIE D. HINGGARAL HEAD, ETC	SHEET CONTENTS: GENERAL NOTES STANDARD DRAWING SPECIFICATIONS	SHEET NO. S-2
	TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY								