

PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

**PROPOSED REHABILITATION OF ROAD AND DRAINAGE
AT TOPSIDE STREET, VARIOUS ALLEYS AND PORTION
OF MAJOR DIZON STREET (LIBRA STREET TO TOPSIDE
STREET) IN BARANGAY ESCOPA 2 AND ESCOPA 4**

**Project number:
23-00026**

**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

Notes on the Invitation to Bid

The Invitation to Bid (IB) provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The IB shall be posted in accordance with Section 21.2 of the 2016 revised IRR of RA No. 9184.

Apart from the essential items listed in the Bidding Documents, the IB should also indicate the following:

- a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;
- b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;
- c. The deadline for the submission and receipt of bids; and
- d. Any important bid evaluation criteria.

The IB should be incorporated into the Bidding Documents. The information contained in the IB must conform to the Bidding Documents and in particular to the relevant information in the Bid Data Sheet.



REPUBLIC OF THE PHILIPPINES
QUEZON CITY GOVERNMENT
BIDS AND AWARDS COMMITTEE FOR INFRASTRUCTURE &
CONSULTANCY



2nd floor, Finance Building, Procurement Department, Quezon City Hall Complex, Elliptical Road, Quezon City

March 29, 2023

Invitation to Bid

No	Project No.	Project Name	Location	Amount	Duration Cal. Days	Office	Source Fund
<u>Buildings – Small B</u>							
1	23-00001	Proposed Repainting of Perimeter Gate and Fence at Sauyo Elementary School	Sauyo	1,010,487.87	30	Department of Engineering	Special Educational Fund
2	23-00002	Proposed Rehabilitation and Completion of Third Floor Extension Room of QCPSTA Building (Phase 2)	Vasra	1,756,498.10	60	Department of Engineering	Engineering Department
3	23-00003	Proposed Replacement of Stand Pipe and Installation of Gate along Interior of Anonas Street	Quirino 3-A	1,835,494.59	60	Department of Engineering	Engineering Department – Continuing Appropriation
4	23-00005	Proposed Rehabilitation of Fire Sub Station	Paligsahan	3,166,287.57	90	Department of Engineering	Engineering Department
5	23-00006	Proposed Rehabilitation of Tennis Court Roofing	Project 6	3,472,785.25	45	Department of Engineering	Engineering Department
6	23-00007	Proposed Construction of Multi-Purpose Covered Court at GSIS Village (Phase 2)	Bahay Toro	4,256,102.96	90	Department of Engineering	Engineering Department
7	23-00008	Proposed Rehabilitation of four (4) Buildings, Façade, Soccer Field sidewalk and Gymnasium at Quezon City Science High School	Sto. Cristo	7,174,246.58	90	Department of Engineering	Special Educational Fund
8	23-00009	Proposed Rehabilitation of Gabaldon Building and Ground Improvement of Quezon City High School	Sacred Heart	11,298,003.60	120	Department of Engineering	Special Educational Fund
<u>Buildings – Medium A</u>							
9	23-00011	Proposed Construction of QCGH STP	Bahay Toro	69,000,406.91	210	Department of Engineering	OCM-20% Community Development Fund
10	23-00012	Proposed Land Development and Construction of Transition Housing Units (Staging/Temporary Housing) at Pook Marilag	Krus na Ligas	79,453,764.53	360	City Architect	Local Disaster Risk Reduction and Management Fund – Continuing Appropriation

11	23-00013	Proposed Construction of Housing Units No. 33 (Baesa) Phase 2	Baesa	120,125,711.30	360	City Architect	Housing Community Development Resettlement Department
12	23-00014	Proposed Construction of Multi-Level Multi-Purpose Building (Basketball Court and Offices)	Lourdes	140,467,777.02	300	Department of Engineering	OCM-20% Community Development Fund
<u>Buildings – Medium B</u>							
13	23-00015	Proposed Construction of Five (5) storey with Roof Deck Multi-Purpose Hall	Batasan Hills	162,460,181.24	360	Department of Engineering	OCM-20% Community Development Fund
<u>Bridge – Medium A</u>							
14	23-00016	Proposed Construction of Scenic Elevator and Interconnecting Bridge at Civic Center B (Public Works Building) and Civic Center A (Commerce Building)	Central	62,784,217.24	330	Department of Engineering	Engineering Department
<u>Parks – Small B</u>							
15	23-00017	Proposed Fabrication and Installation of Environmental Graphics Design (EGD) Signages along Gora Lane	Various Barangays	1,691,812.40	60	Parks Development & Administration Department	Engineering Department - Continuing Appropriation
16	23-00018	Proposed Development of Quezon City Nursery at Payatas Controlled Disposal Facility (Pangea)	Payatas	2,007,288.71	60	Parks Development & Administration Department	Engineering Department - Continuing Appropriation
17	23-00019	Proposed Improvement of GSIS Subdivision Tennis Court	Bahay Toro	2,697,046.74	60	Parks Development & Administration Department	Engineering Department
18	23-00020	Proposed Fabrication and Installation of Plantbox Barriers along Commonwealth Avenue Bike Lane and Fabrication of Bike Racks on various locations at Commonwealth Avenue	Various Locations	3,991,599.03	120	Parks Development & Administration Department	Engineering Department - Continuing Appropriation
<u>Parks – Medium A</u>							
19	23-00021	Proposed Rehabilitation of Existing Toilets and Construction of Additional Toilets at Quezon Memorial Circle (QMC)	Central	74,825,466.17	360	Parks Development & Administration Department	Engineering Department
<u>Roads – Small B</u>							
20	23-00023	Proposed Rehabilitation of Drainage System and Surface Improvement at Lagro High School	Greater Lagro	7,266,848.06	90	Department of Engineering	OCM-20% Community Development Fund

21	23-00024	Proposed Rehabilitation of Road and Drainage at Kalamansanay Street	Veterans Village	8,885,056.48	90	Department of Engineering	OCM-20% Community Development Fund
22	23-00025	Proposed Rehabilitation of Road and Drainage at Barangay Road and Alleys	San Jose	9,911,124.89	180	Department of Engineering	OCM-20% Community Development Fund
23	23-00026	Proposed Rehabilitation of Road and Drainage at Topside Street, Various Alleys and Portion of Major Dizon Street (Libra Street to Topside Street)	Escopa 2 & Escopa 4	16,420,001.34	180	Department of Engineering	OCM-20% Community Development Fund
24	23-00027	Proposed Rehabilitation of Road and Drainage at Iceland Street	Fairview	17,867,308.44	90	Department of Engineering	OCM-20% Community Development Fund

1. The **QUEZON CITY LOCAL GOVERNMENT**, through *funding source of various years* intends to apply the sum stated above being the Approved Budget for the Contract (ABC) to payments under the contract *for the above stated Projects*. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The **QUEZON CITY LOCAL GOVERNMENT** now invites bids for the above Procurement Project. Completion of the Works is required *as stated above*. 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 **QUEZON CITY LOCAL GOVERNMENT – BAC Secretariat** and inspect the Bidding Documents at the address given below *weekdays from 8:00 am. – 5:00 p.m.*
5. A complete set of Bidding Documents may be acquired by interested bidders on **30 March 2023 (Thursday)** from given address and website/s below *and upon payment of a non-refundable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB*. The Procuring Entity shall allow the bidder to present its proof of payment for the fees *presented in person*.

STANDARD RATES:

Approved Budget for the Contract	Maximum Cost of Bidding Documents (in Philippine Peso)
More than 500,000 up to 1 Million	1,000.00
More than 1 Million up to 5 Million	5,000.00
More than 5 Million up to 10 Million	10,000.00
More than 10 Million up to 50 Million	25,000.00
More than 50 Million up to 500 Million	50,000.00
More than 500 Million	75,000.00

The following are the requirements for purchase of Bidding Documents;

1. PhilGEPS Registration Certificate (Platinum – 3 Pages)
2. Document Request List (DRL)
3. Authorization to purchase bidding documents
 - 3.1 Secretary’s Certificate (for corporation)
 - 3.2 Special Power of Attorney (for sole proprietorship)
4. Notarized Joint Venture Agreement (if applicable)
5. Letter of Intent

It must be duly received by the BAC Secretariat at 2nd Floor, Procurement Department, Finance Building, Quezon City Hall Compound.

6. The **QC- BAC- INFRASTRUCTURE & CONSULTANCY** will hold a Pre-Bid Conference¹ on **April 12, 2023 at 10:00 AM at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** or we encourage the prospective bidders to join through our **Virtual Conference (ZOOM APP)** which shall be open to prospective bidders.

Virtual Conference (ZOOM APP)

Meeting ID: 854 9489 0133

Password: 273320

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before **April 26, 2023 – 9:00 AM**. 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 **April 26, 2023 - 10:00 AM at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** and/or via Zoom. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

Virtual Conference (ZOOM APP)

Meeting ID: 810 3646 5257

Password: 201522

10. The **Quezon City Local Government** 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 Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
11. For further information, please refer to:

ATTY. DOMINIC B. GARCIA

OIC, Procurement Department

2nd Floor, Procurement Department,

Finance Building, Quezon City Hall Compound

Elliptical Road, Barangay Central Diliman, Quezon City.

Tel. No. (02)8988-4242 loc. 8506/8710

Email Add: bacinfra.procurement@quezoncity.gov.ph

Website: www.quezoncity.gov.ph

12. You may visit the following websites:

For downloading of Bidding Documents: <https://quezoncity.gov.ph/public-notices/procurement/>

By:



ARCH. LUCILLE H. CHUA, fuap, piep
Chairperson, BAC-Infra and Consultancy

¹ May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a pre-bid conference.

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

This Section on the Instruction to Bidders (ITB) provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and on the award of contract.

1. Scope of Bid

The Procuring Entity, **Quezon City Government** invites Bids for the **PROPOSED REHABILITATION OF ROAD AND DRAINAGE AT TOPSIDE STREET, VARIOUS ALLEYS AND PORTION OF MAJOR DIZON STREET (LIBRA STREET TO TOPSIDE STREET) IN BARANGAY ESCOPA 2 AND ESCOPA 4**, with Project Identification Number **23-00026**.

[Note: The Project Identification Number is assigned by the Procuring Entity based on its own coding scheme and is not the same as the PhilGEPS reference number, which is generated after the posting of the bid opportunity on the PhilGEPS website.]

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 **2023** in the amount of **Sixteen Million Four Hundred Twenty Thousand One Pesos and 34/100 Cts. (P 16,420,001.34)**.

2.2. The source of funding is:

a. LGUs, the Annual or Supplemental Budget, as approved by the Sanggunian.

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 Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than fifty percent (50%) of the Project.

The Procuring Entity has prescribed that:

a. Subcontracting is not allowed.

- 7.1. *[If Procuring Entity has determined that subcontracting is allowed during the bidding , state:]* The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criterial stated in **ITB** Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.

- 7.2. *[If subcontracting is allowed during the contract implementation stage, state:]*
The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in **ITB** Clause 5 to the implementing or end-user unit.
- 7.3. 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 the specified date and time and either at its physical address on **April 12, 2023, 10:00 A.M. at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** and/or we encourage the prospective bidders to join through our Virtual Conference (ZOOM APP) Meeting ID: 854 9489 0133 Password: 273320

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**.

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:*

- a. 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 **in no case shall exceed One Hundred Twenty (120) calendar days from the date of opening of bids, unless duly extended by the bidder upon the request of the Head of the Procuring Entity (HoPE) of the Quezon City Local Government**. 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 5 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 15 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

Notes on the Bid Data Sheet (BDS)

The Bid Data Sheet (BDS) consists of provisions that supplement, amend, or specify in detail, information, or requirements included in the ITB found in Section II, which are specific to each procurement.

This Section is intended to assist the Procuring Entity in providing the specific information in relation to corresponding clauses in the ITB and has to be prepared for each specific procurement.

The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, and the bid evaluation criteria that will apply to the Bids. In preparing the BDS, the following aspects should be checked:

- a. Information that specifies and complements provisions of the ITB must be incorporated.
- b. Amendments and/or supplements, if any, to provisions of the ITB as necessitated by the circumstances of the specific procurement, must also be incorporated.

Bid Data Sheet

ITB Clause	
5.2	For this purpose, similar contracts shall refer to contracts which have the same major categories of work.
7.1	Subcontracting is not allowed.
10.3	<i>No additional contractor license or permit is required</i> <i>In addition, eligible bidders shall qualify or comply with the following:</i> 1. Bidders with valid Philippine Contractors Accreditation Board (PCAB) Type Roads - Small B
10.4	The minimum work experience requirements for key personnel are the following:
	Qty. Key Personnel General Experience Relevant Experience
	1 Project Engineer 3 years 3 years
	1 Safety Officer 3 years 3 years
	1 Civil Engineer / Surveyor 3 years 3 years
	1 DPWH duly accredited Materials Engineer 3 years 3 years
	1 Procurement Officer 3 years 3 years
	<i>In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing personnel shall perform work exclusively for the project until its completion. Please see attached bid forms.</i>
10.5	The minimum major equipment requirements are the following:
	Equipment Capacity Number of Units
	Backhoe with Concrete Breaker 1
	Jackhammer 1
	Dumptruck 1
	Payloader 1
	Motorized Road Grader 1
	Vibratory Roller 1
	Concrete Vibrator 1
	Concrete Mixer (2-Bagger) 1
	Plate Compactor 1
	Bituminous Prime Coat Truck Sprayer 1

	Broom Truck 1 Pneumatic Roller 1 Truck Paver 1 <i>In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing equipment shall be used exclusively for the project until its completion. Please see attached bid forms.</i>
12	<i>[Insert Value Engineering clause if allowed.]</i>
15.1	The bid security shall be in the form of a Bid Securing Declaration with project number, or any of the following forms and amounts: a) The amount of not less than Php 328,400.03 or equivalent to two percent (2%) of ABC if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b) The amount of not less than Php 821,000.07 or equivalent to five percent (5%) of ABC if bid security is in Surety Bond.
19.2	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.
20	No additional requirement.
21	Additional Contract Documents relevant to the Project as required: 1. Construction Schedule and S-curve, 2. Manpower Schedule, 3. Construction Methods, 4. Equipment Utilization Schedule, 5. PERT/CPM or other acceptable tools of project scheduling, shall be included in the submission of Technical Proposal.

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

The General Conditions of Contract (GCC) in this Section, read in conjunction with the Special Conditions of Contract in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

Matters governing performance of the Contractor, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are included in the GCC and Special Conditions of Contract.

Any complementary information, which may be needed, shall be introduced only through the Special Conditions of Contract.

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

3.1 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.

3.2 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

Notes on the Special Conditions of Contract

Similar to the BDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC found in Section IV.

The Special Conditions of Contract (SCC) complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Works procured. In preparing this Section, the following aspects should be checked:

- a. Information that complements provisions of the GCC must be incorporated.
- b. Amendments and/or supplements to provisions of the GCC as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of the GCC should be incorporated herein.

Special Conditions of Contract

GCC Clause	
2	Completion of work shall be within 180 calendar days.
4.1	The Procuring Entity shall give possession of all parts of the Site to the Contractor upon receipt of the Notice to Proceed.
6	The site investigation reports are: <i>[list here the required site investigation reports.]</i>
7.2	<p><i>[Select one, delete the other.]</i></p> <p><i>[In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:]</i> Fifteen (15) years.</p> <p><i>[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:]</i> Five (5) years.</p> <p><i>[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:]</i> Two (2) years.</p>
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
13	The amount of the advance payment is no more that fifteen percent (15%) of the Contract Price subject to approval by the HOPE and compliance with the conditions under RA 9184 and its IRR.
14	No further instructions.
15.1	<p>The date by which operating and maintenance manuals are required is <i>thirty (30) days</i></p> <p>The date by which "as built" drawings are required as part of final payment</p>
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 ten (10%) percent of the contract price.

Section VI. Specifications

Notes on Specifications

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying or conditioning their Bids. In the context of international competitive bidding, the specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of economy, efficiency, and fairness in procurement be realized, responsiveness of Bids be ensured, and the subsequent task of bid evaluation facilitated. The specifications should require that all goods and materials to be incorporated in the Works be new, unused, of the most recent or current models, and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

Samples of specifications from previous similar projects are useful in this respect. The use of metric units is mandatory. Most specifications are normally written specially by the Procuring Entity or its representative to suit the Works at hand. There is no standard set of Specifications for universal application in all sectors in all regions, but there are established principles and practices, which are reflected in these PBDs.

There are considerable advantages in standardizing General Specifications for repetitive Works in recognized public sectors, such as highways, ports, railways, urban housing, irrigation, and water supply, in the same country or region where similar conditions prevail. The General Specifications should cover all classes of workmanship, materials, and equipment commonly involved in construction, although not necessarily to be used in a particular Works Contract. Deletions or addenda should then adapt the General Specifications to the particular Works.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for goods, materials, and workmanship, recognized international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that goods, materials, and workmanship that meet other authoritative standards, and which ensure substantially equal or higher quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the SCC.

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted

subject to the Procuring Entity's Representative's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Procuring Entity's Representative at least twenty-eight (28) days prior to the date when the Contractor desires the Procuring Entity's Representative's consent. In the event the Procuring Entity's Representative determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

These notes are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final Bidding Documents.



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LUNGSOD QUEZON
CITY ENGINEERING DEPARTMENT
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**NAME OF PROJECT : PROPOSED REHABILITATION OF ROAD AND DRAINAGE AT
TOPSIDE STREET, VARIOUS ALLEYS AND PORTION OF MAJOR
DIZON STREET (LIBRA STREET TO TOPSIDE STREET) IN
BARANGAY ESCOPA 2 AND ESCOPA 4**

LOCATION : Barangay Escopa 2 and Escopa 4, District 3, Quezon City

TECHNICAL SPECIFICATIONS

GR. GENERAL REQUIREMENTS

ITEM SPL 7 – BILLBOARD **DESCRIPTION**

This item shall consist of installation of Billboards on locations as established by the Engineer-In-Charge in conformity with the standard size, design, layout and dimension as shown in the Plans.

MATERIAL REQUIREMENTS

Based on the standard design approved by and material requirement of the implementing agency.

ITEM SPL 13 STEEL BARRIER (RENTAL) **DESCRIPTION**

This item shall consist of installation of steel barriers on locations as established by the Engineer-In-Charge in conformity with the Standard size, design, layout and dimension as shown in the Plans

MATERIAL REQUIREMENTS

Based on the standard design approved by and material requirement of the implementing agency.

SW. SITE WORKS

ITEM 104 – REMOVAL OF EXISTING STRUCTURES **DESCRIPTION**

This Item shall consist of the removal wholly or in part, and satisfactory disposal of all buildings, fences, structures, old pavements, abandoned pipe lines, and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed off under other items in the Contract. It shall also include the salvaging of designated materials and backfilling the resulting trenches, holes, and pits

ITEM 106 – EXCAVATION FOR STRUCTURES **DESCRIPTION**

This item shall consist of the necessary excavation for reinforced concrete pipes, lined canal, box culverts and other structures not otherwise provided for in the Specifications. Except as otherwise provided for pipe culverts the backfilling of completed structures and the disposal of all excavated materials shall be in accordance with this specification and in reasonably close conformity with the Plans or as established by the Engineer-In-Charge. This item shall include necessary diverting of live streams, bailing, pumping,

draining, sheeting, bracing, and the necessary construction of cribs and cofferdams, and furnishing the materials therefore, and the subsequent removal of cribs and cofferdams and the placing of all necessary backfill. It shall also include the furnishing and placing of approved foundation fill material to replace unsuitable material encountered below the foundation elevation of structures.

CWS. CIVIL / STRUCTURAL WORKS

ITEM 200 – AGGREGATE BASE COURSE
DESCRIPTION

This Item shall consist of furnishing, placing and compacting an aggregate base course on a prepared subgrade/subbase in accordance with this Specification and the lines, grades, thickness and typical cross-sections shown on the Plans, or as established by the Engineer-In-charge.

MATERIAL REQUIREMENTS

Aggregate for base course shall consist of hard, durable particles or fragments of crushed stone, crushed slag or crushed or natural gravel and finer of natural or crushed sand or other finely divided mineral matter. The composite material shall be free from vegetable matter and lumps or balls of clay, and shall be of such nature that it can be compacted readily to form a firm, stable base. In some areas where the conventional base course materials are scarce or non-available, the use of 40% weathered limestone blended with 60% crushed stones or gravel shall be allowed, provided that the blended materials meet the requirements of this Item. The base course material shall conform to Table 201.1, whichever is called for in the Bill of Quantities.

Table 201.1 – Grading Requirements

Sieve Designation		Mass Percent Passing	
Standard, mm	Alternate US Standard	Grading A	Grading B
50	2"	100	
37.5	1 1/2"	-	100
25	1"	60 – 85	-
19	3/4"	-	60 – 85
12.5	1/2"	35 – 85	-
4.75	No. 4	20 – 50	30 – 55
0.425	No. 40	5 – 20.0	8 – 25.2
0.075	No. 200	12	14

The fraction passing the 0.075 mm (No. 200) sieve shall not be greater than 0.66 (two thirds) of the fraction passing the 0.425 mm (No. 40) sieve. The fraction passing the 0.425 mm (No. 40) sieve shall have a liquid limit not greater than 25 and plasticity index not greater than 6 as determined by AASHTO T 69 and T 90, respectively. The coarse portion, retained on a 2.00 mm (No. 10) sieve shall have a mass percent of wear not exceeding 50 by the Los Angeles Abrasion test determined by AASHTO T 96. The material passing the 19 mm (3/4 inch) sieve shall have a soaked CBR value of not less than 80% as determined by AASHTO T 193. The CBR value shall be obtained at the maximum dry density (MDD) as determined by AASHTO T 180 Method D. If filler, in addition to that naturally present, is necessary for meeting the grading requirements or for satisfactory bonding, it shall be uniformly blended with the base course material on the road or in a pug mill unless otherwise specified or approved. Filler shall be taken from sources approved by the Engineer shall be free from hard lumps and shall not contain more than 15 percent of material retained on the 4.75 mm (No. 4) sieve.

ITEM 302 – BITUMINOUS PRIME COAT
DESCRIPTION

This Item shall consist of preparing and treating an aggregate base course with material in accordance with the Plans and Specifications, preparatory to the construction of a bituminous surface course.

MATERIAL REQUIREMENTS

Bituminous material shall be either Rapid Curing (RC) or Medium Curing (MC) Cut-back Asphalt, whichever is called for in the Bill of Quantities. It shall conform to the requirements of Item 702, Bituminous Materials. The type and grade shall be specified in the Special Provisions.

ITEM 310 – BITUMINOUS CONCRETE SURFACE COURSE, HOT LAID
DESCRIPTION

This Item shall consist of constructing a bituminous concrete surface course composed of aggregates, mineral filler, and bituminous material mixed in a central plant, constructed and laid hot on the prepared base in accordance with this Specification and in conformity with lines, grades, thickness and typical cross-section shown on the Plans.

MATERIAL REQUIREMENTS**COMPOSITION AND QUALITY OF BITUMINOUS MIXTURE (Job-Mix Formula)**

The bituminous mixture shall be composed of aggregate, mineral filler, hydrated lime, and bituminous material. At least three weeks prior to production, the Contractor shall submit in writing a job-mix formula for each mixture supported by laboratory test data along with samples and sources of the components and viscosity-temperature relationships information to the Engineer for testing and approval.

Each job-mix formula submitted shall propose definite single values for:

1. The percentage of aggregate passing each specified sieve size.
2. The percentage of bituminous material to be added.
3. The temperature of the mixture delivered on the road.
4. The kind and percentage of additive to be used.
5. The kind and percentage of mineral filler to be used.

After the job-mix is established, all mixture furnished for the project shall conform thereto within the following ranges of tolerances.

Passing No. 4 and larger sieves	±	7 percent
Passing No. 8 to No. 100 sieves (inclusive)	±	4 percent
Passing No. 200 sieve	±	2 percent
Bituminous Material	±	0.4 percent
Temperature of Mixture	±	10°C

Should a change in source of material be proposed or should a job-mix formula prove unsatisfactory, a new job-mix formula shall be submitted by the Contractor in writing and be approved by the Engineer prior to production. Approval of a new job mix formula may require laboratory testing and verification. The mixture shall have a minimum compressive strength of 1.4 MPa (200 psi). The mixture shall have a mass percent air voids with the range of 3 to 5. The mixture shall also have an index of retained strength of not less than

70 when tested by AASHTO T 165. For aggregates having maximum sizes over 25 mm (1 inch), AASHTO T 165 will be modified to use 150 mm x 150 mm (6 x 6 inches) cylindrical specimens. The 150 mm (6 inches) cylinders will be compacted by the procedures outlined in AASHTO T 167 modified to employ 10 repetitions of a molding load of 9.6 MPa (1400 psi), with no appreciable holding time after each application of the full load.

BITUMINOUS MATERIAL

It shall be Penetration Grade Asphalt Cement. Asphalt cement shall conform to the requirements of AASHTO M 226.

AGGREGATES

It shall be uniformly graded from coarse to fine. Target values for the intermediate sieve sizes shall be established within the limits shown in table 703.1. The contractor shall submit the proposed target values in writing to the Engineer-In-Charge for approval. The target gradation is subject to confirmation testing in accordance with section 307.2 before approval by the engineer. Any changes in the target gradation are subject to confirmation testing in accordance with section 307.2., unless otherwise approved in writing by

the engineer. No target gradation adjustment will be permitted during the span of a lot.

TABLE 703.1 – Range of Gradation Target Values

Sieve Designation, mm	Mass percent passing square mesh sieves, AASHTO T 11 and T 27, exclusive of mineral filler
	Range.
25 (1")	100
19 (3/4")	100
4.75 (No. 4)	50 – 60
2.36 (No. 8)	38 – 48
0.075 (No. 200)	3 – 7
	The minimum for Sand Equivalent is 35

No intermediate size of aggregate shall be removed for other purposes without written consent of the engineer. If crushed gravel is used, not less than 50 mass percent of the material retained on the 4.75 mm (No. 4) sieve shall be particles having at least one fractured face. That portion of the composite material passing a 4.75 mm (No. 4) sieve shall have a sand equivalent of not less than 35, as determined by AASHTO T 176, Alternate Method No. 2. The aggregate shall show a durability index not less than 35 (coarse and fine) as determined by AASHTO T 210. The material shall be free of clay balls and adherent films of clay or other matter that would prevent thorough coating with the bituminous material.

MINERAL FILLER

Filler material for bituminous bases or pavements shall meet the requirements of AASHTO M 17, Mineral Filler for Bituminous Paving Mixtures.

Mineral filler shall be graded within the following limits:

Sieve	Maximum Percent Passing
0.600 mm (No. 30)	100
0.300 mm (No. 50)	95 – 100
0.075 mm (No. 200)	70 – 100

The mineral filler shall have a plasticity index not greater than 4. Plasticity Index limits are not appropriate for hydraulic lime and cement.

HYDRATED LIME

Hydrated lime shall conform to the requirements of PHILSA I-1-68 or ASTM C 207-76 and shall be of the following type:

- Type N - Normal hydrated lime for masonry purposes.
- Type S - Special hydrated lime for masonry purposes.
- Type NA - Normal air-entraining hydrated lime for masonry purposes.
- Type SA - Special air-entraining hydrated lime for masonry purposes.

Type N and S are suitable for use in mortar, in scratch and brown coats of cement plaster, for stucco and for addition to Portland Cement concrete. Type NA and SA are air-entrained hydrated limes that are suitable for use in any of the above uses where air-entrainment are desired. Type S and SA hydrated lime develop high, early plasticity and higher water retentivity and by a limitation on their unhydrated oxide content. It is the intent of this Specification to use either the Type N or S for soil stabilization and as filler requirement to bituminous plant mixtures. It is expected to provide pavements with greater resistance to the detrimental effects of water, especially flooding during the rainy season.

PROPORTIONING OF MIXTURES

The proportion of bituminous material on the basis of total dry aggregate shall be from 5.0 to 8.0 mass percent. The exact percentage to be used shall be fixed by the Engineer in accordance with the job-mix formula and the other quality control requirements. During the mixing operation, one-half to one (0.5 to 1.0) mass percent of hydrated lime, dry aggregate basis, shall be added to the mixture. The lower percentage limit is applicable to aggregates which are predominantly calcareous.

ITEM 316 – PORTLAND CEMENT CONCRETE PAVEMENT

DESCRIPTION

This item shall consist of pavement of Portland Cement Concrete, with or without reinforcement, constructed on the prepared base in accordance with this Specification and in conformity with lines, grades, thickness and typical cross-section shown on the Plans. Compressive strength for concrete mix to be used shall not be less than 4,000 psi.

MATERIAL REQUIREMENTS

PORTLAND CEMENT

It shall conform to the applicable requirements of Item 700, Hydraulic Cement. Only Type I Portland Cement shall be used unless otherwise provided for in the Special Provisions. Different brands or the same brands from different mills shall not be mixed nor shall they be used alternately unless the mix is approved by the Engineer. However, the use of Portland Pozzolana Cement Type IP meeting the requirements of AASHTO M 240/ASTM C 695, Specifications for Blended Hydraulic Cement shall be allowed, provided that trial mixes shall be done and that the mixes meet the concrete strength requirements, the AASHTO/ASTM provisions pertinent to the use of Portland Pozzolana Type IP shall be adopted. Cement which for any reason, has become partially set or which contains lumps of caked cement shall be rejected. Samples of cement shall be obtained in accordance with AASHTO T 127.

FINE AGGREGATES

It shall consist of natural sand, stone screenings or other inert materials with similar characteristics or combinations thereof, having hard, strong and durable particles. Fine aggregate from different sources of supply shall not be mixed or stored in the same pile nor used alternately in the same class of concrete without the approval of the Engineer.

It shall not contain more than three (3) mass percent of material passing the 0.075 mm (No. 200 sieve) by washing nor more than one (1) mass percent each of clay lumps or shale. The use of beach sand will not be allowed without the approval of the Engineer.

If the fine aggregate is subjected to five (5) cycles of the sodium sulfate soundness test, the weighted loss shall not exceed 10 mass percent.

The fine aggregate shall be free from injurious amounts of organic impurities. If subjected to the colorimetric test for organic impurities and a color darker than the standard is produced, it shall be rejected. However, when tested for the effect of organic impurities on strength of mortar by AASHTO T 71, the fine aggregate may be used if the relative strength at 7 and 28 days is not less than 95 mass percent.

The fine aggregate shall be well-graded from coarse to fine and shall conform to Table 311.1

Table 311.1 – Grading Requirements for Fine Aggregate

Sieve Designation	Mass Percent Passing
9.5 mm (3/8 in.)	100
4.75 mm (No. 4)	95 – 100
2.36 mm (No. 8)	-
1.18 mm (No. 16)	45 – 80
0.600 mm (No. 30)	-
0.300 mm (No. 50)	5 – 30
0.150 mm (No. 100)	10

COARSE AGGREGATES

It shall consist of crushed stone, gravel, blast furnace slag, or other approved inert materials of similar characteristics, or combinations thereof, having hard, strong, durable pieces and free from any adherent coatings.

It shall contain not more than one (1) mass percent of material passing the 0.075 mm (No. 200) sieve, not more than 0.25 mass percent of clay lumps, nor more than 3.5 mass

percent of soft fragments.

If the coarse aggregate is subjected to five (5) cycles of the sodium sulfate soundness test, the weighted loss shall not exceed 12 mass percent.

It shall have a mass percent of wear not exceeding 40 when tested by AASHTO T 96.

If the slag is used, its density shall not be less than 1120 kg/m³ (70 lb./cu. ft.). The gradation of the coarse aggregate shall conform to Table 311.2

Only one grading specification shall be used from any one source.

Table 311.2 – Grading Requirements for Coarse Aggregate

Sieve Designation		Mass Percent Passing		
Standard (mm)	Alternate U.S. Standard	Grading A	Grading B	Grading C
75	3 in.	100	-	-
63	2 – ½ in.	90 – 100	100	100
50	2 in.	- 90 – 100	95 – 100 37.5	1 – ½ in.
	25 – 60	35 – 70	-	
25	1 in.	- 0 – 15	35 – 70 19.0	¾ in.
	0 – 10	- -		
12.5	½ in.	0 – 5	0-5	10 – 30
4.75	No. 4	-	-	0 – 5

WATER

Water used in mixing, curing or other designated application shall be reasonably clean and free of oil, salt, acid, alkali, grass or other substances injurious to the finished product. Water will be tested in accordance with and shall meet the requirements of Item 714, Water. Water which is drinkable may be used without test. Where the source of water is shallow, the intake shall be so enclosed as to exclude silt, mud, grass or other foreign materials.

REINFORCING STEEL

It shall conform to the requirements of Item 404, Reinforcing Steel. Dowels and tie bars shall conform to the requirements of AASHTO M 31 or M 42, except that rail steel shall not be used for tie bars that are to be bent and straightened during construction. Tie bars shall be deformed bars. Dowels shall be plain round bars. Before delivery to the site of work, one-half of the length of each dowel shall be painted with one coat of approved lead or tar paint. The sleeves for dowel bars shall be metal of approved design to cover 50 mm (2 inches), plus or minus 5 mm (1/4 inch) of the dowel, with a closed end, and with a suitable stop to hold the end of the sleeve at least 25 mm (1 inch) from the end of the dowel. Sleeves shall be of such design that they do not collapse during construction.

JOINT FILLERS

Poured joint fillers shall be mixed asphalt and mineral or rubber filler conforming to the applicable requirements of Item 705, Joint Materials.

Preformed joint filler shall conform to the applicable requirements of Item 705. It shall be punched to admit the dowels where called for in the Plans. The filler for each joint shall be furnished in a single piece for the full depth and width required for the joint.

ADMIXTURES

Air-entraining admixture shall conform to the requirements of AASHTO M 154 Chemical admixtures, if specified or permitted, shall conform to the requirements of AASHTO M 194 Fly Ash, if specified or permitted as a mineral admixture and as 20% partial replacement of Portland Cement. In concrete mix shall conform to the requirements of ASTM C 618. Admixture should be added only to the concrete mix to produce some desired modifications to the properties of concrete where necessary, but not as partial replacement of cement.

CURING MATERIALS

Curing materials shall conform to the following requirements as specified,

- Burlap cloth - AASHTO M 182
 - Liquid membrane forming compounds - AASHTO M 148
 - Sheeting (film) materials - AASHTO M 171
- Cotton mats and water-proof paper can be used.

CALCIUM CHLORIDE/CALCIUM NITRATE

It shall conform to AASHTO M 144, if specified or permitted by the Engineer-in-charge, as accelerator.

STORAGE OF CEMENT AND AGGREGATE

All cement shall be stored, immediately upon delivery at the Site, in weatherproof building which will protect the cement from dampness. The floor shall be raised from the ground. The buildings shall be placed in locations approved by the Engineer. Provisions for storage shall be ample, and the shipments of cement as received shall be separately stored in such a manner as to allow the earliest deliveries to be used first and to provide easy access for identification and inspection of each shipment. Storage buildings shall have capacity for storage of a sufficient quantity of cement to allow sampling at least twelve (12) days before the cement is to be used. Bulk cement, if used, shall be transferred to elevated air tight and weatherproof bins. Stored cement shall meet the test requirements at any time after storage when retest is ordered by the Engineer-in-charge. At the time of use, all cement shall be free-flowing and free of lumps. The handling and storing of concrete aggregates shall be such as to prevent segregation or the inclusion of foreign materials. The Engineer may require that aggregates be stored on separate platforms at satisfactory locations. In order to secure greater uniformity of concrete mix, the Engineer may require that the coarse aggregate be separated into two or more sizes. Different sizes of aggregate shall be stored in separate bins or in separate stockpiles sufficiently removed from each other to prevent the material at the edges of the piles from becoming intermixed.

PROPORTIONING, CONSISTENCY AND STRENGTH OF CONCRETE

The Contractor shall prepare the design mix based on the absolute volume method as outlined in the American Concrete Institute (ACI) Standard 211.1, "Recommended Practice for Selecting Proportions for Normal and Heavyweight Concrete". It is the intent of this Specification to require at least 364 kg of cement per cubic meter of concrete to meet the minimum strength requirements. The Engineer shall determine from laboratory tests of the materials to be used, the cement content and the proportions of aggregate and water that will produce workable concrete having a slump of between 40 and 75 mm (1-1/2 and 3 inches) if not vibrated or between 10 and 40 mm (1/2 and 1-1/2 inches) if vibrated, and a flexural strength of not less than 3.8 MPa (550 psi) when tested by the third-point method or 4.5 MPa (650 psi) when tested by the mid-point method at fourteen (14) days in accordance with AASHTO T97 and T177, respectively; or a compressive strength of 24.1 MPa (3500 psi) for cores taken at fourteen (14) days and tested in accordance with AASHTO T24. Slump shall be determined using AASHTO T 119. The designer shall consider the use of lean concrete (econcrete) mixtures using local materials or specifically modified conventional concrete mixes in base course and in the lower course composite, monolithic concrete pavements using a minimum of 75 mm (3 inches) of conventional concrete as the surface course. The mix design shall be submitted to the Engineer for approval and shall be accompanied with certified test data from an approved laboratory demonstrating the adequacy of the mix design. A change in the source of materials during the progress of work may necessitate a new design mix.

ITEM 413 - PIPE CULVERT AND STORM DRAINS
DESCRIPTION

This item shall consist of the construction or reconstruction of pipe culverts and storm drains, hereinafter referred to as "conduit" in accordance with this Specification and in conformity with the lines and grades shown on the Plans or as established by the Engineer.

MATERIAL REQUIREMENTS

Material shall meet the requirements specified in the following specifications:

Zinc coated (galvanized) corrugated iron or steel culverts and underdrains	AASHTO M 35
Cast iron culvert pipe	AASHTO M64
Concrete sewer, storm drain and culvert pipe	AASHTO M 86
Reinforced concrete culvert, storm drain and sewer pipe	AASHTO M 170
Bituminous coated corrugated metal culvert pipe and pipe arches	AASHTO M 190

Reinforced concrete arch culvert, storm drain and sewer pipe	AASHTO M 206
Reinforced concrete elliptical culvert, storm drain and sewer pipe	AASHTO M 207
Asbestos cement pipe for culverts and storm drains	AASHTO M 217

JOINT MORTAR

Joint mortar for concrete pipes shall consist of 1 part, by volume of Portland Cement and two (2) parts of approved sand with water as necessary to obtain the required consistency. Portland Cement and sand shall conform to the requirements of Item 405, Structural Concrete. Mortar shall be used within 30 minutes after its preparation.

Rubber gaskets	AASHTO M 198
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OAKUM

Oakum for joints in bell and spigot pipes shall be made from hemp (*Cannabis Sativa*) line or Benares Sunn fiber or from a combination of these fibers. The oakum shall be thoroughly corded and finished and practically free from lumps, dirt and extraneous matter.

Hot poured joint sealing compound	AASHTO M 173
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Bedding material shall conform to the requirements of Subsection 500.3.2, Bedding. Backfill material shall conform to the requirements of Subsection 500.3.6, Backfilling. When the location of manufacturing plants allows, the plants will be inspected periodically for compliance with specified manufacturing methods, and material samples will be obtained for laboratory testing for compliance with materials quality requirements. This shall be the basis for acceptance of manufacturing lots as to quality. Prior to and during incorporation of materials in the work, these materials will be subjected to the latest inspection and approval of the Engineer.

ITEM 502 – CONCRETE CURB AND GUTTER
DESCRIPTION

This item shall consist of the construction of curb and gutter either Precast or Cast in place, made of concrete in accordance with this Specification at the location, and in conformity with the lines, grades, dimensions and design, shown on the Plans or as required by the Engineer-in-charge.

MATERIAL FOR BED COURSE

Bed course materials as shown on the Plans shall consist of cinders, sand, slag, gravel, crushed stone, or other approved porous material of such grading that all the particles will pass through 12.5 mm (1/2 inch) sieve.

CONCRETE

Concrete shall be of the class indicated on the Plans and shall conform to the requirements of Item 405, Structural Concrete.

EXPANSION JOINT FILLER

Expansion joint filler shall conform to the requirements of AASHTO M 153/ joint materials.

CEMENT MORTAR

Cement mortar shall consist of one part of Portland cement and two parts of fine aggregates with water added as necessary to obtain the required consistency. The mortar shall be used within 30 minutes of preparation.

BONDING COMPOUND

Where bonding compound is used, it shall conform to AASHTO M 200.

FORMS

Forms shall be of wood or metal as approved by the Engineer and shall extend to the full depth of the concrete. All forms shall be straight, free from warps and of adequate strength to resist distortion.

ITEM SPL 6 – TAPPING DRAINAGE
DESCRIPTION

This item shall consist of tapping of affected drainage systems of houses and other building structures within the road-right-of-way in conformity with the Standard Specifications for Public Works and Highways and on location as shown on the plans.

MATERIAL REQUIREMENTS**JOINT MORTAR**

Joint mortar for concrete pipes shall consist of one-part, by volume of Portland Cement and two-parts of approved sand with water as necessary to obtain the required consistency. Mortar shall be used within 30 minutes after its preparation.

PORTLAND CEMENT

It shall conform to the applicable requirements of AASHTO M 85, Hydraulic Cement. Only Type I Portland Cement shall be used unless otherwise provided for in the Special Provisions. Different brands or the same brands from different mills shall not be mixed nor shall they be used alternately unless the mix is approved by the Engineer-in-charge. Cement which for any reason, has become partially set or which contains lumps of caked cement shall be rejected. Cement salvaged from the discarded or used bags shall not be used. Samples of cement shall be obtained in accordance with AASHTO T 127.

FINE AGGREGATES

It shall consist of natural sand, stone screenings or other inert materials with similar characteristics or combinations thereof, having hard, strong and durable particles. Fine aggregate from different sources of supply shall not be mixed or stored in the same pile nor used alternately in the same class of concrete without the approval of the Engineer.

It shall not contain more than three (3) mass percent of material passing the 0.075 mm (No. 200 sieve) by washing nor more than one (1) mass percent each of clay lumps or shale. The use of beach sand will not be allowed without the approval of the Engineer.

If the fine aggregate is subjected to five (5) cycles of the sodium sulfate soundness test, the weighted loss shall not exceed 10 mass percent.

The fine aggregate shall be free from injurious amounts of organic impurities. If subjected to the colorimetric test for organic impurities and a color darker than the standard is produced, it shall be rejected. However, when tested for the effect of organic impurities on strength of mortar by AASHTO T 71, the fine aggregate may be used if the relative strength at 7 and 28 days is not less than 95 mass percent.

The fine aggregate shall be well-graded from coarse to fine and shall conform to Table 311.1.

Table 311.1 – Grading Requirements for Fine Aggregate

Sieve Designation	Mass Percent Passing
9.5 mm (3/8 in.)	100
4.75 mm (No. 4)	95 – 100
2.36 mm (No. 8)	-
1.18 mm (No. 16)	45 – 80
0.600 mm (No. 30)	-
0.300 mm (No. 50)	5 – 30
0.150 mm (No. 100)	10

ITEM SPL 6 – NAWASA LEAK / 20 Meters
DESCRIPTION

This item shall consist of repair of any MWSS/NAWASA lines that would be affected in excavation of roadway in accordance with the MWSS Standard Specification based on **MWSS MATERIAL REQUIREMENTS**.

ITEM SPL1 – RC MANHOLE WITH C.I. COVER AND CURB INLET
DESCRIPTION

This item shall consist of construction of manholes and inlets in accordance with the Standard Specifications for Public Works and Highways and in reasonably close conformity with the lines and grades shown on the plans or as established by the Engineer-In-Charge.

MATERIAL REQUIREMENTS

Concrete for these structures shall meet the requirements of Item 405, Structural Concrete. Other materials shall meet the following specifications

CORRUGATED METAL UNITS

The units shall conform to Plan dimensions and the metal to AASHTO M 36 Bituminous coating, when specified, shall conform to ASTM D 1187, Asphalt-base Emulsion for use as Protective Coating for Metal.

Sewer and manhole brick (Made from clay or shale)	AASHTO M 91
Building brick (Solid masonry units made from clay or shale)	AASHTO M 114

JOINT MORTAR

Unless otherwise indicated on the Plans, joints mortar shall be composed of one part Portland Cement and two parts fine aggregate by volume to which hydrated lime has been added in an amount equal to 10 percent of the cement by weight. All materials for mortar shall meet the requirements of Item 405, Structural Concrete.

FRAMES, GRATINGS, COVERS AND LADDER RUNGS

Metal units shall conform to the plan dimensions and to the following specification requirements for the designated materials. Metal gratings and covers which are to rest on frames shall bear on them evenly. They shall be assembled before shipment and so marked that the same pieces may be reassembled readily in the same position when installed. Inaccuracy of bearings shall be corrected by machining, if necessary. A frame and a grating or cover to be used with it shall constitute one pair. All castings shall be uniformly coated with asphalt-based emulsion meeting the requirements of ASTM D 1187, Asphalt-base Emulsion for use as Protective Coating for Metal. Samples of the material in casting shall be taken during the casting of the units and shall be separate casting poured from the same material as the casting they represent.

Gray Iron casting	AASHTO M 105
Mild to medium-strength carbon steel castings for general application	AASHTO M 103
Structural steel	AASHTO M 183
Galvanizing, where specified for these units, shall conform to the requirements of	AASHTO M 111
Reinforcing Steel	AASHTO M 31

PRE-CAST CONCRETE UNITS

These units shall be cast in substantial permanent steel forms. Structural concrete used shall attain a minimum 28-day compressive strength of 20.682 MPa (3000 psi). The pre-cast units shall be cured in accordance with AASHTO M 171. Water absorption of individual cores taken from such units shall not exceed 7 percent. Additional reinforcement shall be provided as necessary to provide for handling of the

pre-cast units. A sufficient number of cylinders shall be cast from the concrete for each unit permit compression tests at 7, 14 and 28 days, and to allow for at least 3 cylinders for each test. If the strength requirement is met at 7 or 14 days, the units shall be certified for use 14 days from the date of casting. If the strength is not met at 28 days, all units made from that batch or load will be rejected. Cracks in units, honeycombed or patched areas in excess of 2,000 square millimeters, excessive water absorption and failure to meet strength requirements shall be the causes for rejection. Pre-cast reinforced concrete manhole risers and tops shall conform to the requirements of AASHTO M 199. The plants will be inspected periodically for compliance with specified manufacturing methods, and material samples will be obtained for laboratory testing for compliance with material quality requirements. This may be the basis for acceptance of manufacturing lots as the quality. All materials shall be subjected to inspection for acceptance as to condition at the latest practicable time the Engineer has the opportunity to check for compliance prior to or during incorporation of materials into the work.

ITEM SPL60 – RC SPILLWAY WITH INTERCEPTOR
DESCRIPTION

This item shall consist of construction of manholes and inlets in accordance with the Standard Specifications for Public Works and Highways and in reasonably close conformity with the lines and grades shown on the plans or as established by the Engineer-In-Charge.

MATERIAL REQUIREMENTS

Concrete for these structures shall meet the requirements of Item 405, Structural Concrete. Other materials shall meet the following specifications:

CORRUGATED METAL UNITS

The units shall conform to Plan dimensions and the metal to AASHTO M 36. Bituminous coating, when specified, shall conform to ASTM D 1187, Asphalt-base Emulsion for use as Protective Coating for Metal.

Sewer and manhole brick (Made from clay or shale)	AASHTO M 91
Building brick (Solid masonry units made from clay or shale)	AASHTO M 114

JOINT MORTAR

Unless otherwise indicated on the Plans, joints mortar shall be composed of one part Portland Cement and two parts fine aggregate by volume to which hydrated lime has been added in an amount equal to 10 percent of the cement by weight. All materials for mortar shall meet the requirements of Item 405, Structural Concrete.

FRAMES, GRATINGS, COVERS AND LADDER RUNGS

Metal units shall conform to the plan dimensions and to the following specification requirements for the designated materials. Metal gratings and covers which are to rest on frames shall bear on them evenly. They shall be assembled before shipment and so marked that the same pieces may be reassembled readily in the same position when installed. Inaccuracy of bearings shall be corrected by machining, if necessary. A frame and a grating or cover to be used with it shall constitute one pair. All castings shall be uniformly coated with asphalt-based emulsion meeting the requirements of ASTM D 1187, Asphalt-base Emulsion for use as Protective Coating for Metal. Samples of the material in casting shall be taken during the casting of the units and shall be separate casting poured from the same material as the casting they represent.

Gray iron casting	AASHTO M 105
Mild to medium-strength carbon steel castings for general application	AASHTO M 103
Structural steel	AASHTO M 183
Galvanizing, where specified for these units, shall conform to the requirements of	AASHTO M 111

Reinforcing Steel	AASHTO M 31
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PRE-CAST CONCRETE UNITS

These units shall be cast in substantial permanent steel forms. Structural concrete used shall attain a minimum 28-day compressive strength of 20.682 MPa (3000 psi). The pre-cast units shall be cured in accordance with AASHTO M 171. Water absorption of individual cores taken from such units shall not exceed 7 percent. Additional reinforcement shall be provided as necessary to provide for handling of the pre-cast units. A sufficient number of cylinders shall be cast from the concrete for each unit permit compression tests at 7, 14 and 28 days, and to allow for at least 3 cylinders for each test. If the strength requirement is met at 7 or 14 days, the units shall be certified for use 14 days from the date of casting. If the strength is not met at 28 days, all units made from that batch or load will be rejected. Cracks in units, honeycombed or patched areas in excess of 2,000 square millimeters, excessive water absorption and failure to meet strength requirements shall be the causes for rejection. Pre-cast reinforced concrete manhole risers and tops shall conform to the requirements of AASHTO M 199. The plants will be inspected periodically for compliance with specified manufacturing methods, and material samples will be obtained for laboratory testing for compliance with material quality requirements. This may be the basis for acceptance of manufacturing lots as the quality. All materials shall be subjected to inspection for acceptance as to condition at the latest practicable time the Engineer has the opportunity to check for compliance prior to or during incorporation of materials into the work.

**ITEM SPL 10a/10b – THERMOPLASTIC MARKINGS (WHITE/YELLOW)
MATERIAL REQUIREMENTS**

Reflectorized thermoplastic pavement material shall be homogeneously composed of pigment, filler resins, and glass reflectorizing spheres.
The thermoplastic materials shall be available to both white and yellow.
Glass Beads (Pre-mix) shall be uncoated and shall comply with the following requirements:
Refractive Index, min. = 1.5
Spheres Percent, min. = 90

Gradation

Sieve, mm	Mass Percent Passing
0.850	100
0.600	75 – 95
0.425	-
0.300	15 – 35
0.180	-
0.150	0 – 5

NOTES:

All other item of works not covered by this listed **TECHNICAL SPECIFICATIONS** shall be ISSUED with supplemental specifications by the Implementing Agency based on the Program of Work and Approved Plan(s) for the proposed project.

PREPARED BY.


AURELIO B. FULGENCIO
Planning and Programming Division

CHECKED BY


MARIBEL F. COMENDADOR
Planning and Programming Division

Section VII. Drawings

[Insert here a list of Drawings. The actual Drawings, including site plans, should be attached to this section, or annexed in a separate folder.]

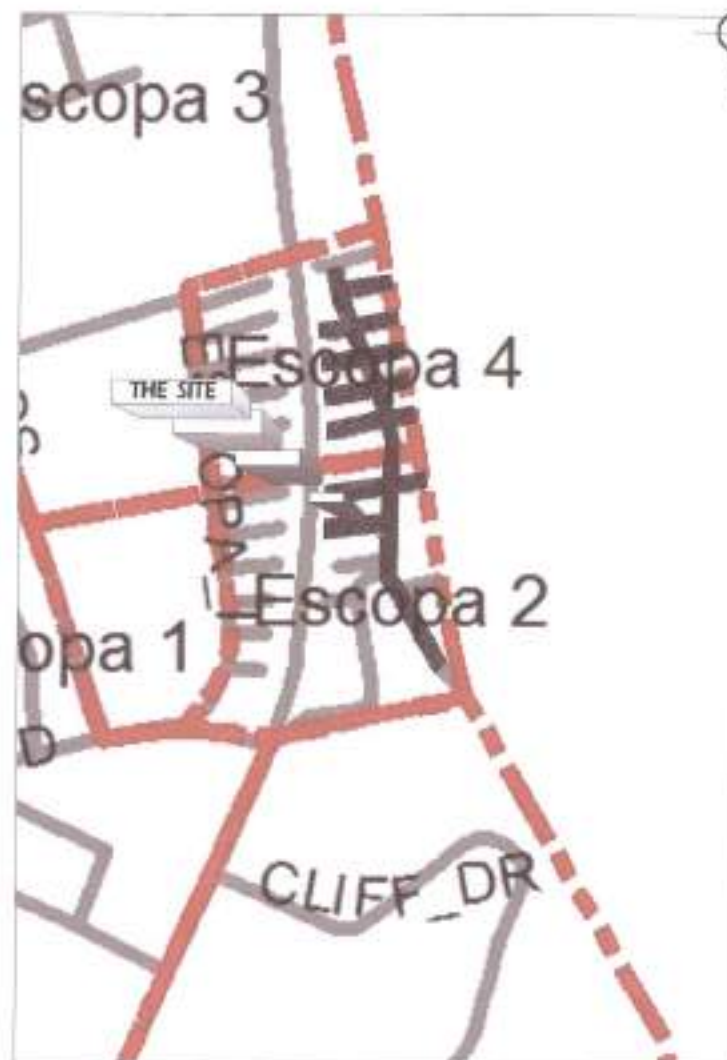


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1 VICINITY MAP

SCALE: NOT TO SCALE

2 LOCATION MAP

SCALE: NOT TO SCALE



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED REHABILITATION OF ROAD AND DRAINAGE
AT TOPSIDE STREET, VARIOUS ALLEYS AND PORTION
OF MAJOR DIZON STREET (LIBRA STREET TO TOPSIDE
STREET) IN BARANGAY ESCOPA 2 AND ESCOPA 4

LOCATION:
BARANGAY ESCOPA 2 AND ESCOPA 4, DISTRICT 3, QUEZON CITY

SUBMITTED BY:

DATE: Sept. 22, 2022

CHECKED BY:

REVISIONS:

SUBMITTED BY:

ENGR. LEO S. DEL ROSARIO
CITY ENGINEERING DEPARTMENT

RECOMMENDING APPROVAL:

ENGR. ISAGANI R. VERZOSA, JR.
CITY ENGINEERING DEPARTMENT

APPROVED BY:

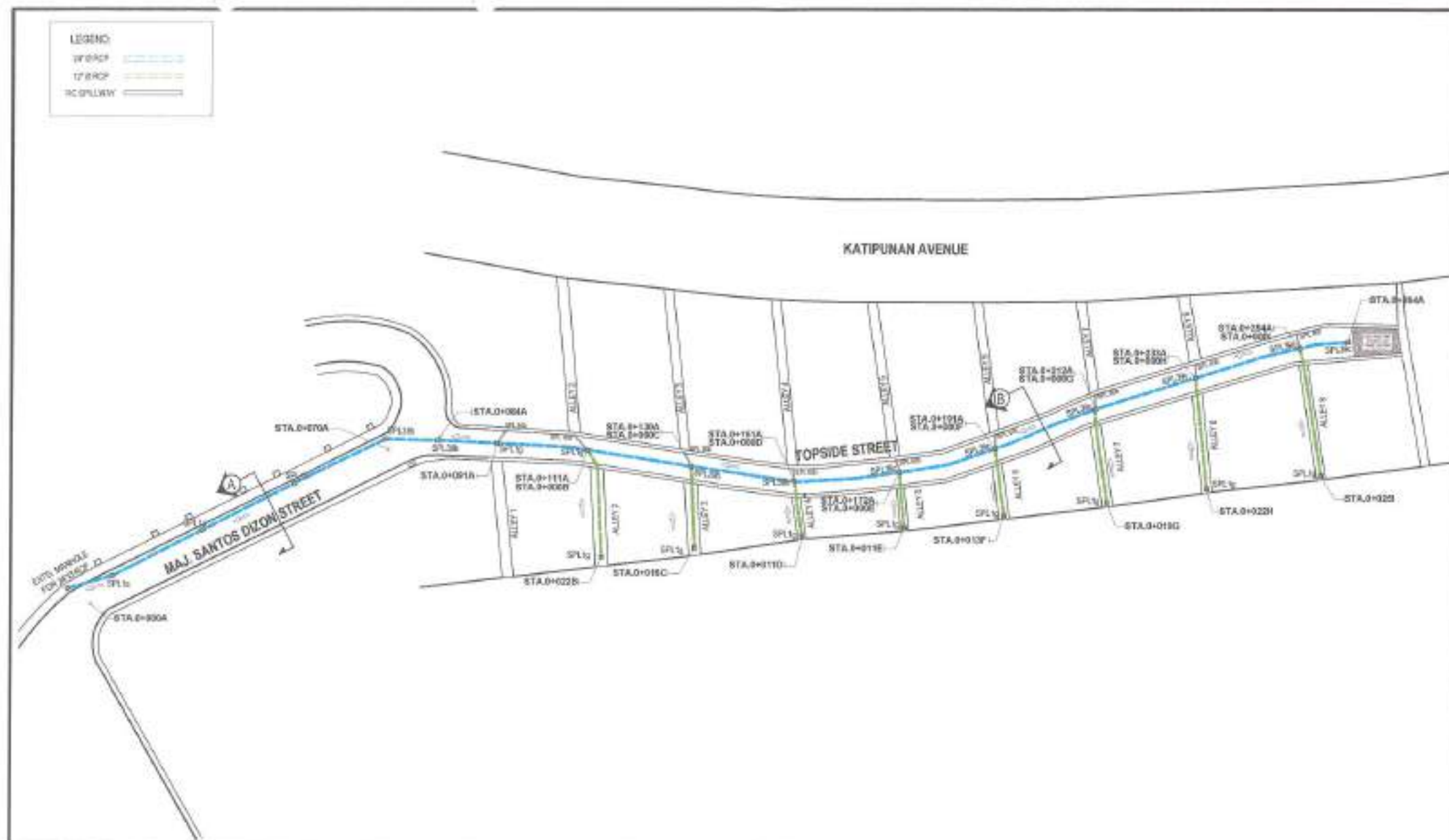
HON. MA. JOSEFINA G. BELMONTE
CITY MAYOR, QUEZON CITY

SHEET CONTENT

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SHEET NO.

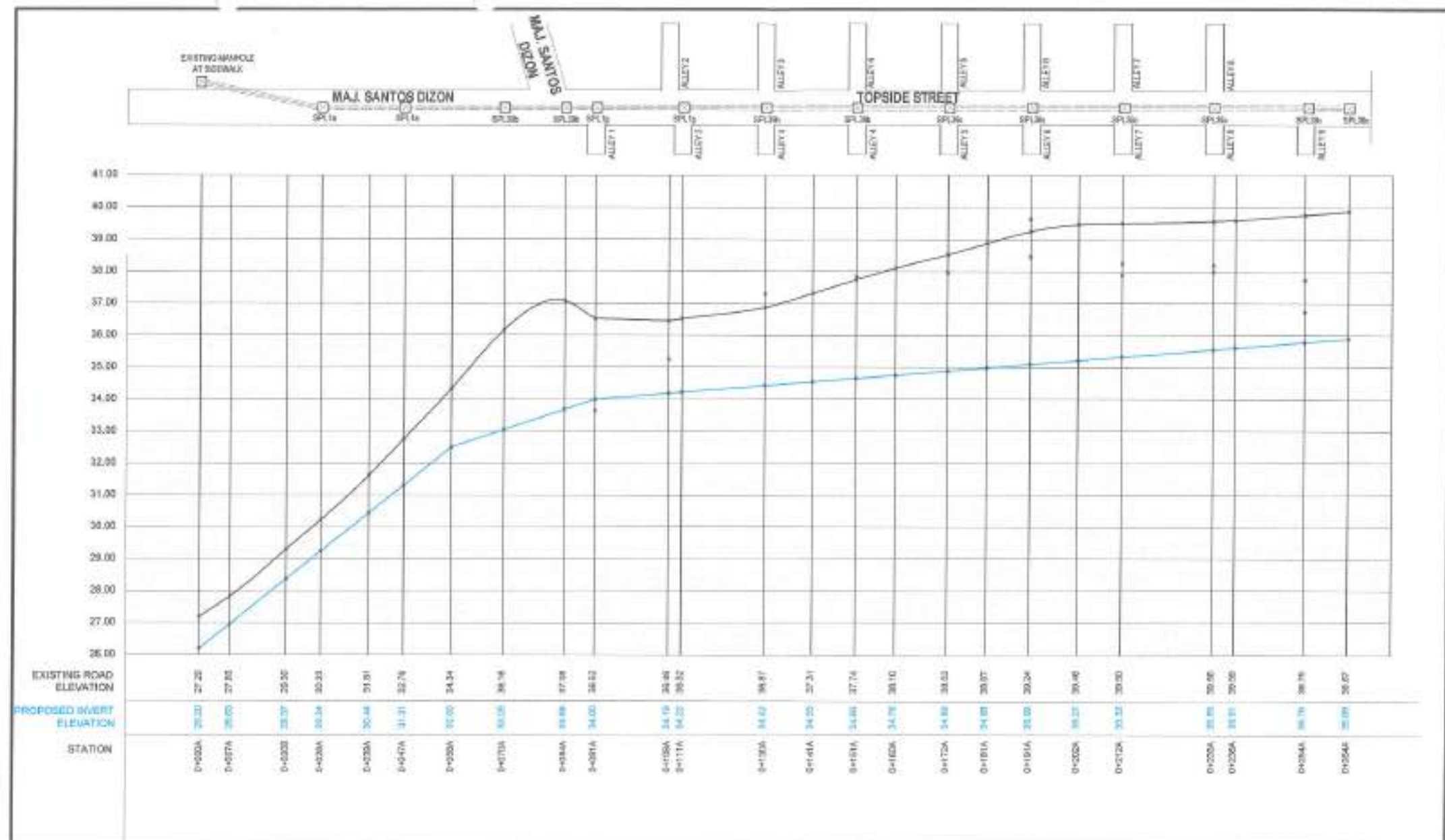
CW
113



1 ROADWAY PLAN OF TOPSIDE STREET

SCALE: NOT TO SCALE

 <p>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p>	<p>PROJECT TITLE:</p> <p>PROPOSED REHABILITATION OF ROAD AND DRAINAGE AT TOPSIDE STREET, VARIOUS ALLEYS AND PORTION OF MAJOR DIZON STREET (JUBRA STREET TO TOPSIDE STREET) IN BARANGAY ESCOPA 2 AND ESCOPA 4</p> <p>BARANGAY ESCOPA 2 AND ESCOPA 4, DISTRICT 3, QUEZON CITY</p>	<p>DRAWN BY: RJB</p> <p>DATE: May 22, 2022</p> <p>CHECKED BY:</p> <p>DESIGNED BY:</p> <p>REVISIONS:</p>	<p>SUBMITTED BY:</p> <p></p> <p>ENGR. LEO S. DEL ROSARIO HCO, PLANNING & DESIGN DIVISION</p>	<p>RECOMMENDING APPROVAL:</p> <p></p> <p>ENGR. ISAGANI R. VERZOSA, JR. HCO, CIVIL ENGINEERING DIVISION</p>	<p>APPROVED BY:</p> <p></p> <p>HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY</p>	<p>SHEET CONTENT:</p> <p>ROADWAY PLAN OF TOPSIDE STREET</p>	<p>SHEET NO.</p> <p>CW 213</p>
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1 ROADWAY PROFILE OF TOPSIDE STREET FROM OUTFALL

SCALE : NOT TO SCALE



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
PROPOSED REHABILITATION OF ROAD AND DRAINAGE
AT TOPSIDE STREET, VARIOUS ALLEYS AND PORTION
OF MAJOR DIZON STREET (LIBRA STREET TO TOPSIDE
STREET) IN BARANGAY ESCOPA 2 AND ESCOPA 4
LOCATION:
BARANGAY ESCOPA 2 AND ESCOPA 4, DISTRICT 3, QUEZON CITY

OWNED BY: MAI
DATE: April 01, 2022
DESIGNED BY:
PROPOSED BY:

SUBMITTED BY:

ENGR. RED S. DEL ROSARIO
HEAD PLANNER & PROGRAM COORDINATOR

RECOMMENDING APPROVAL:

ENGR. SAGANI R. VERZOSA, JR.
CHIEF CITY ENGINEERING DEPARTMENT

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
CITY MAYOR, QUEZON CITY

SHEET CONTENT
ROADWAY PROFILE
OF TOPSIDE STREET
FROM OUTFALL

SHEET NO.

CW 313



1 ROADWAY PROFILE OF ALLEYS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
PROPOSED REHABILITATION OF ROAD AND DRAINAGE
AT TOPSIDE STREET, VARIOUS ALLEYS AND PORTION
OF MAJOR DIZON STREET (LIBRA STREET TO TOPSIDE
STREET) IN BARANGAY ESCOPA 2 AND ESCOPA 4,
DISTRICT 3, QUEZON CITY

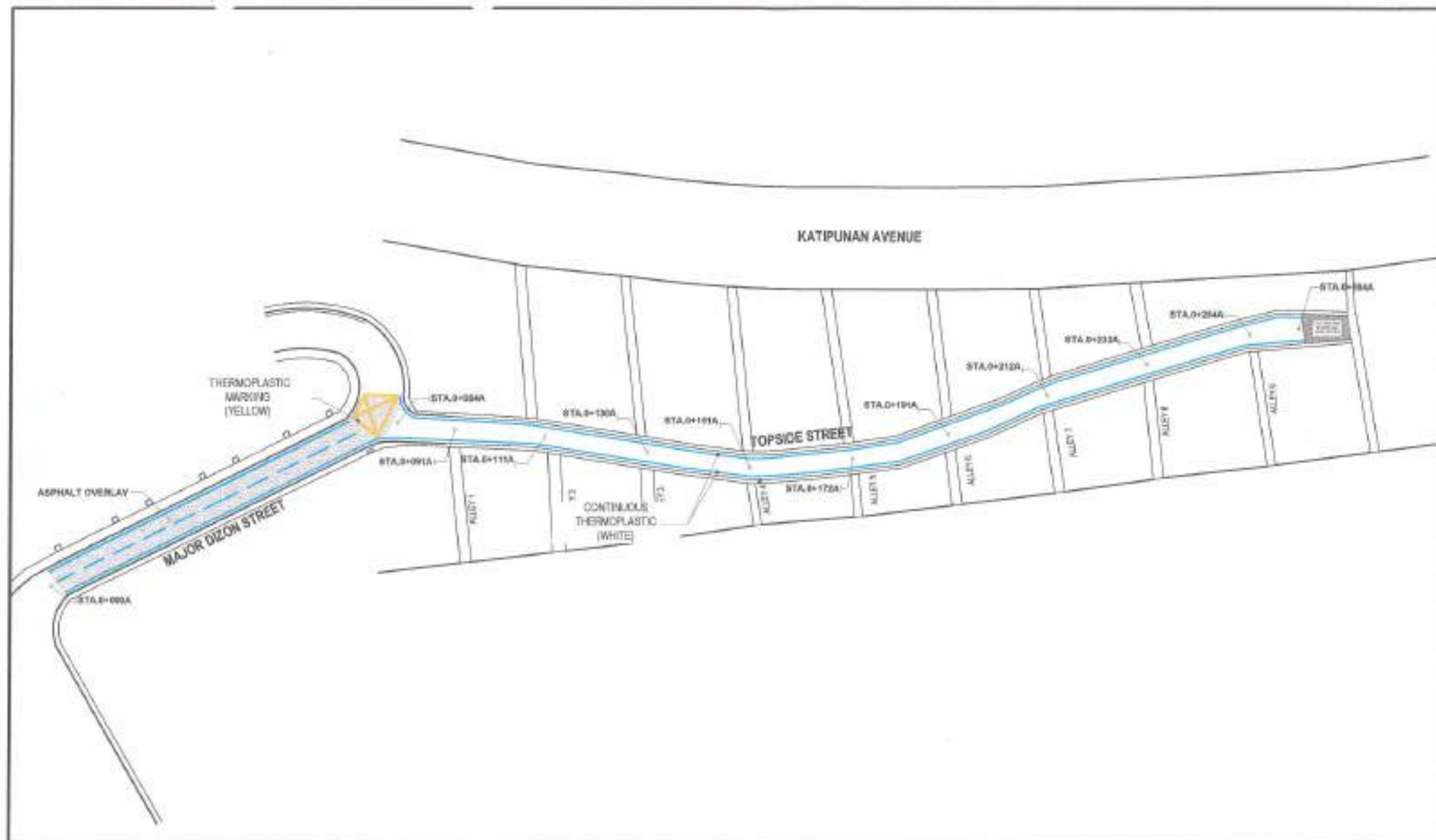
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DESIGNED BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

SUBMITTED BY:
ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING PROGRAM DIVISION

RECOMMENDING APPROVAL:
ENGR. JERONIAN R. VERZOSA, JR.
HEAD, CITY ENGINEERING DIVISION

APPROVED BY:
HON. MA. JOSEFINA G. BELMONTE
CITY MAJOR, QUEZON CITY

PROJECT CONTENT:
ROADWAY PROFILE OF ALLEYS
SHEET NO.:
CW 413



1 ROADWAY PLAN WITH THERMOPLASTIC MARKINGS (TOPSIDE STREET TO MAJ. SANTOS DIZON STREET)



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED REHABILITATION OF ROAD AND DRAINAGE
AT TOPSIDE STREET, VARIOUS ALLEYS AND PORTION
OF MAJOR DIZON STREET (LIBRA STREET TO TOPSIDE
STREET) IN BARRANGAY ESCOPA 2 AND ESCOPA 4,
DISTRICT 3, QUEZON CITY

DATE: Oct 21, 2022

DESIGNED BY: [Signature]

REVIEWED BY: [Signature]

SUBMITTED BY:

ENGR. LEO S. DEL ROSARIO
HEAD, BARRANGAY ENGINEERING DIVISION

RECOMMENDING APPROVAL:

ENGR. RAGANI R. VERZOSA, JR.
DEPUTY CITY ENGINEERING DIVISION CHIEF

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
CITY MAYOR, QUEZON CITY

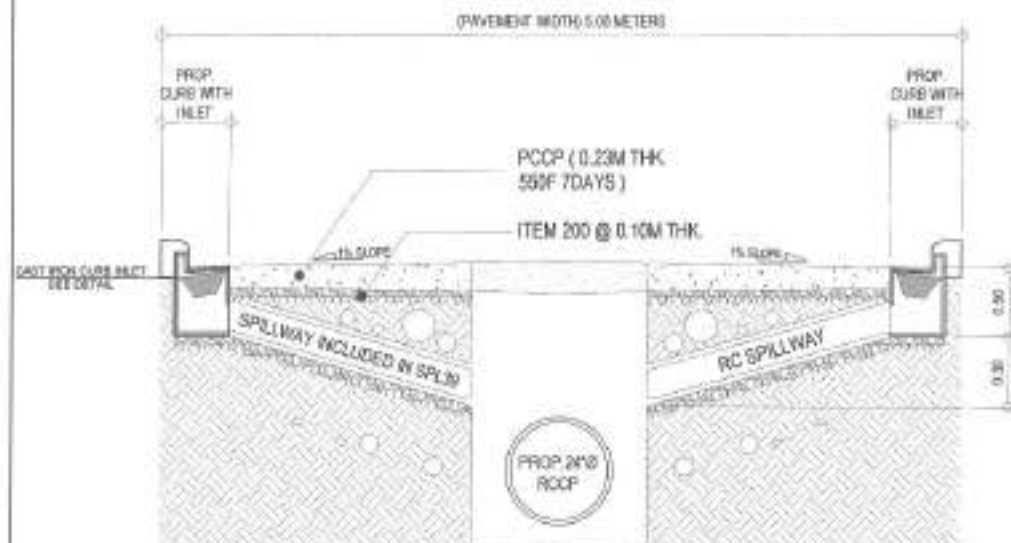
SHEET CONTENT

ROADWAY PLAN WITH
THERMOPLASTIC
MARKINGS

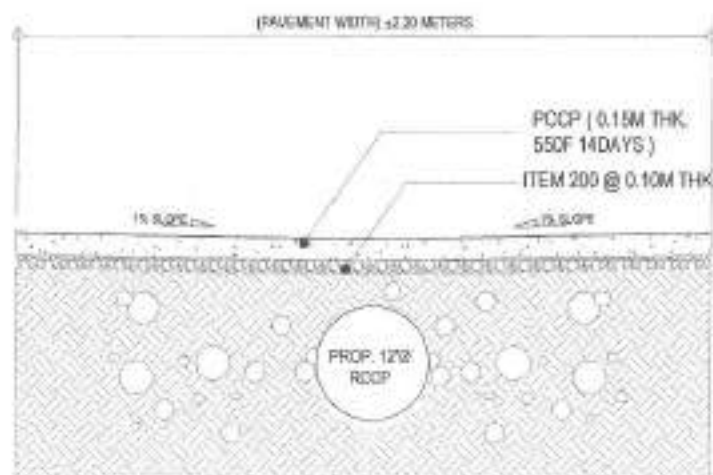
SHEET NO.

CW
513

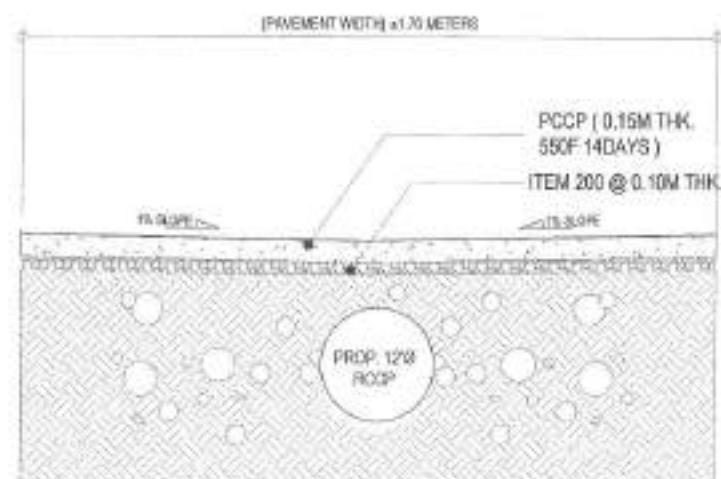
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SCALE: NOT TO SCALE



1 TYPICAL CROSS-SECTION OF ALLEYS (W = ± 2.50 M) SCALE: NOT TO SCALE



SCALE: NOT TO SCALE



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PRODUCT TITLE:

Overall fit: $\chi^2 = 11.03$, $df = 1$, $p < 0.001$

PROPOSED REHABILITATION OF ROAD AND DRAINAGE AT TOPSIDE STREET, VARIOUS ALLEYS AND PORTION OF MAJOR DIXON STREET (LIBRA STREET TO TOPSIDE STREET) IN BARANGAY ESCOPA 2 AND ESCOPA 4

15. *Leptothorax* *leptothorax* *leptothorax*

SUBMITTED BY:

ENGR. LEON B. DEL ROSARIO
1960, CLASIFICACION Y PROGRAMACION

RECOMMENDING APPRAISAL:

ENGR. ISACNI R. VERZOSA, JR.
INC. CITY AND COUNCIL OF ENGINEERS

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
DEPARTMENT OF JUSTICE

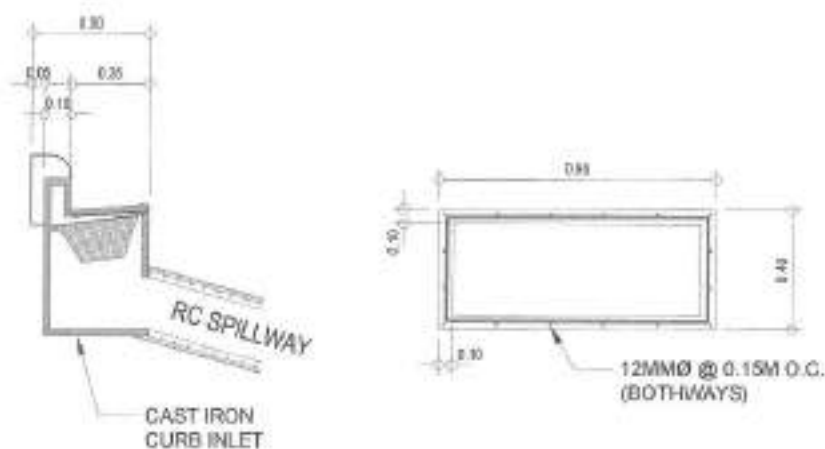
SWEET CONTENT

ROADWAY CROSS SECTION
ROADWAY CROSS SECTION
TYPICAL ROADWAY CROSS SECTION
REFTS(0) = 2.500
TYPICAL ROADWAY CROSS SECTION
REFTS(0) = 2.500

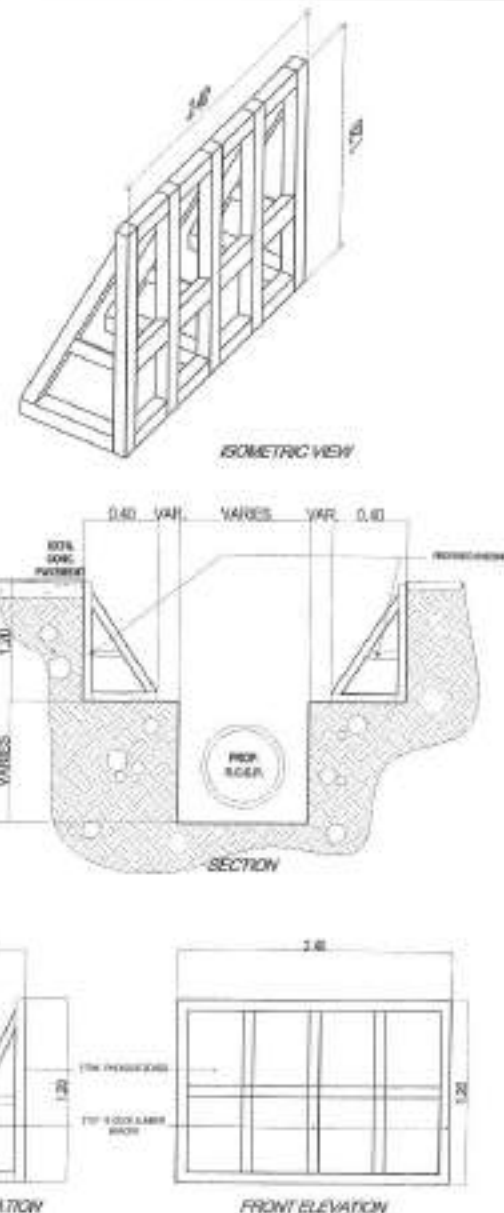
SHEET NO.



SCALE NOT TO SCALE



SCALE : NOT TO SCALE



SCALE: NTS



Republika ng Pilipinas
Lungsod ng Cuzon
CITY ENGINEERING DEPARTMENT

PROPOSED REHABILITATION OF ROAD AND DRAINAGE AT TOPSIDE STREET, VARIOUS ALLEYS AND PORTION OF MAJOR DION STREET (LIBRA STREET TO TOPSIDE STREET) IN BARANGAY ESCOPA 3 AND ESCOPA 4

DATE: _____

COMPARISON

LOCATIONS:

--	--

ENGR. LEO S. DEL ROSARIO

	0.5
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ENGR. ISABELLI R. VERZOSA, JR.

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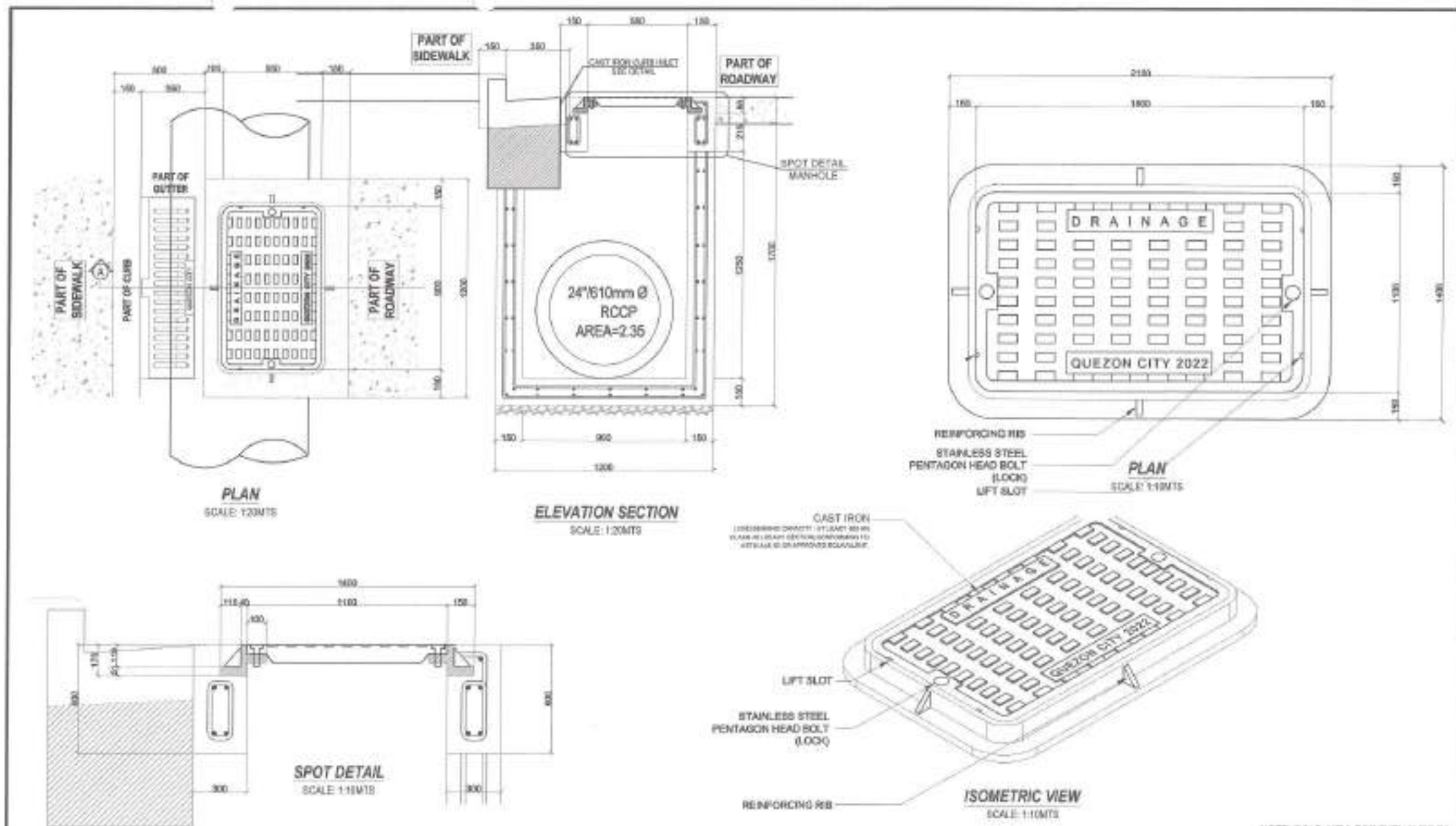
HON. MA. JOSEFINA G. BELMONTE







100

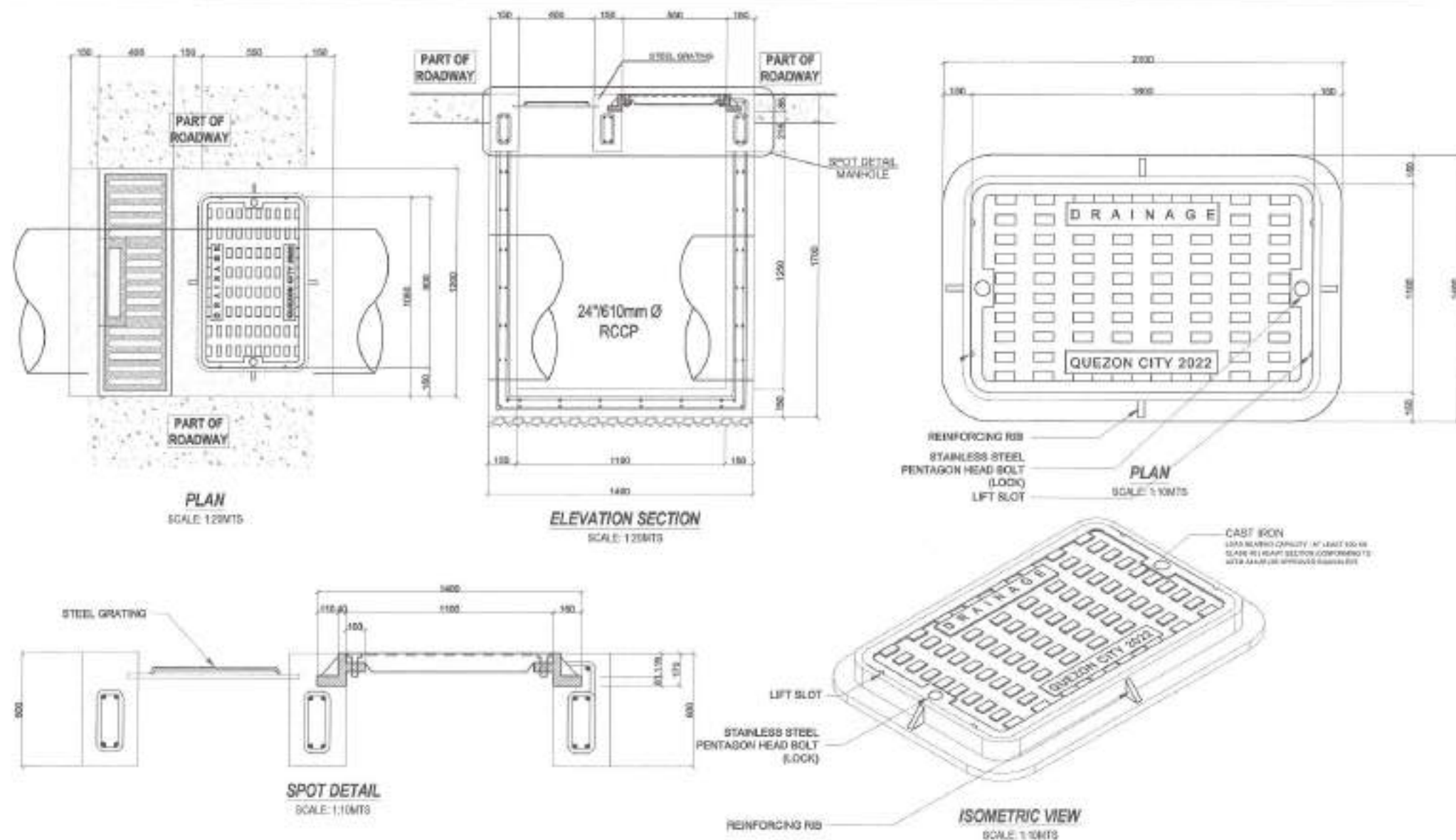
TYPICAL ROADWAY CROSS
SECTION (W-12) 12'6"
FOR FORDS CONCRETE
SPILLWAY DETAIL
DETAIL
EACH SIDE DETAIL

1000







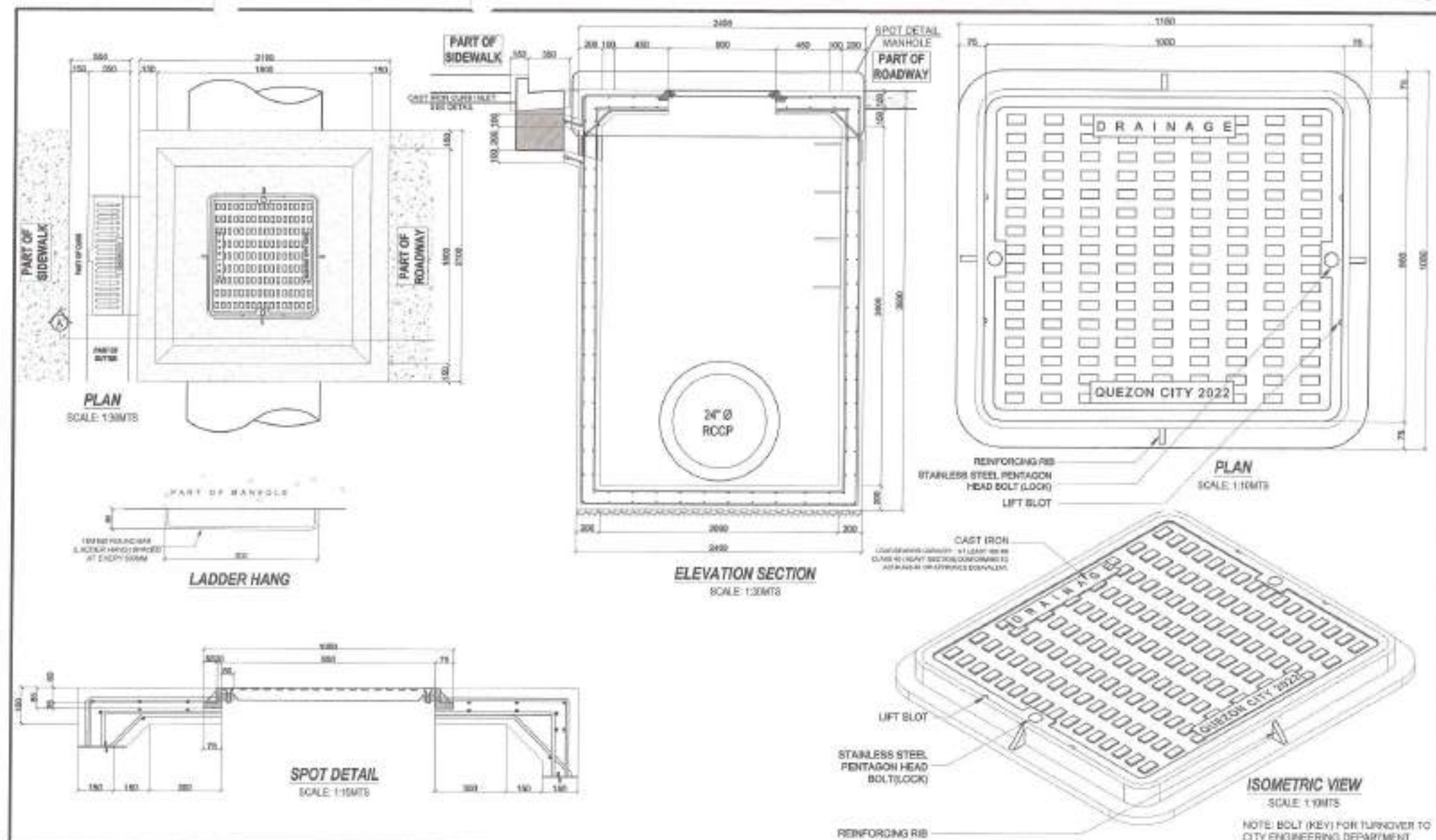
1 CAST IRON MANHOLE FOR 24"Ø RCP AT ROADWAY (SPL1a)							
 <div>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</div>	PROJECT TITLE:	DRAWN BY: NAG	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
	PROPOSED REHABILITATION OF ROAD AND DRAINAGE AT TOPSIDE STREET, VARIOUS ALLEYS AND PORTION OF MAJOR ORION STREET (LIBRA STREET TO TOPSIDE STREET) IN BARANGAY ESCOPA 2 AND ESCOPA 4	DATE: Sep 22, 2021 CHECKED BY: 	 ENGR. LEON S. DEL ROSARIO HEAD PLANNING & PROGRAMS DIVISION	 ENGR. ISAGANI R. VERZOSA, JR. CH. CIV. ENGINEERING DIVISION	 HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	CAST IRON MANHOLE FOR 24"Ø RCP (SPL1a)	
	LOCATION: (BARANGAY ESCOPA 2 AND ESCOPA 4, DISTRICT 2, QUEZON CITY) (SECTION NO.)						




NOTE: BOLT (KEY) FOR TURNOVER TO
CITY ENGINEERING DEPARTMENT

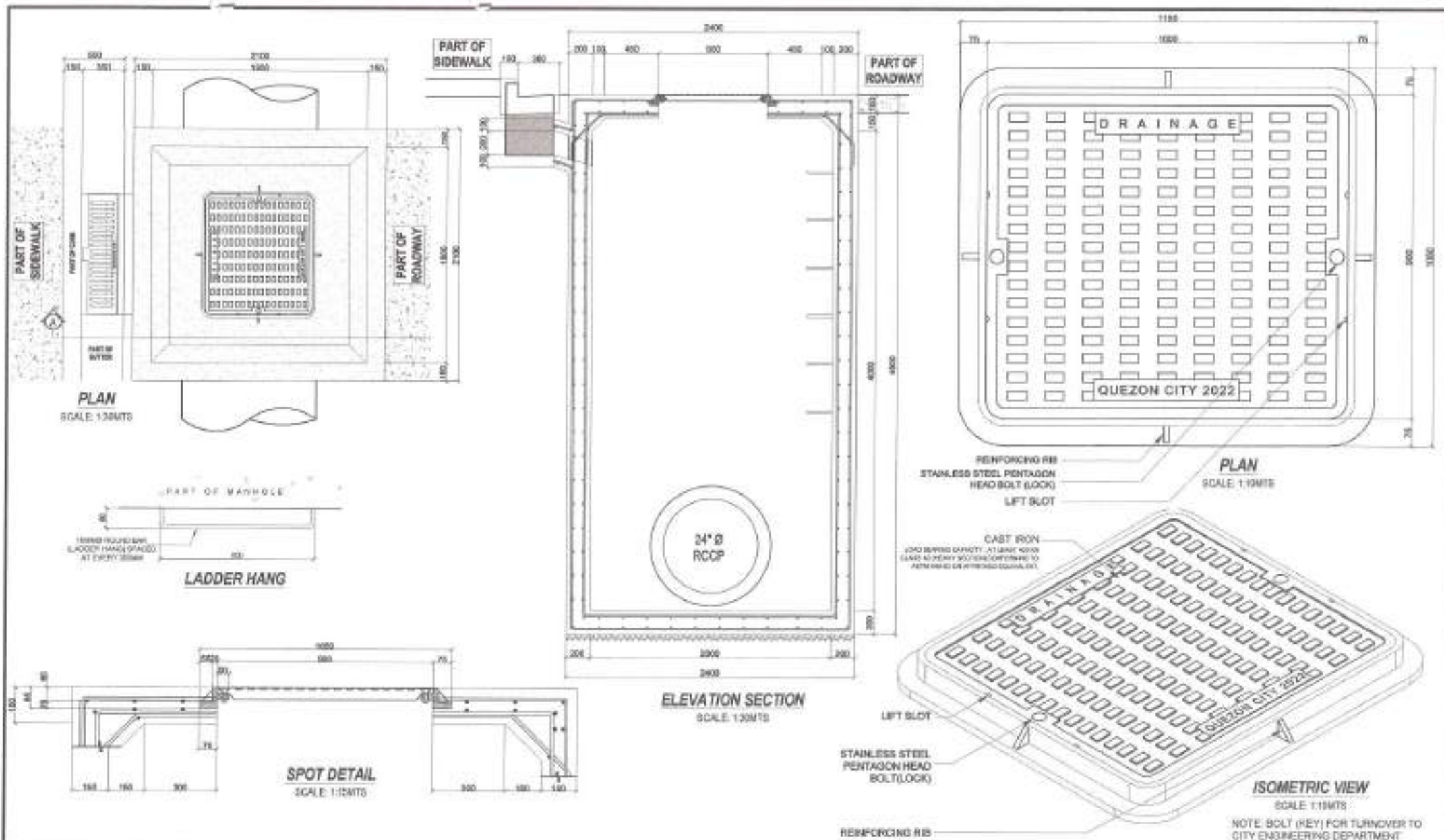
1 CAST IRON MANHOLE FOR 24"Ø RCP AT ROADWAY (SPL1g)

 <p>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p>	<p>PROJECT TITLE: PROPOSED REHABILITATION OF ROAD AND DRAINAGE AT TOPSIDE STREET, VARIOUS ALLEYS AND PORTION OF MAJOR DIZON STREET (JUBRA STREET TO TOPSIDE STREET) IN BARANGAY ESCOPA 2 AND ESCOPA 4 BARANGAY ESCOPA 2 AND ESCOPA 4, DISTRICT 3, QUEZON CITY</p>	<p>DRAWN BY: RUC DATE: April 12, 2021 CHECKED BY: [Signature] PROJECT NO.:</p>	<p>SUBMITTED BY: [Signature] ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMS DIVISION</p>	<p>RECOMMENDING APPROVAL: [Signature] ENGR. ISAGANI R. VERZOSA, JR. DEPUTY ENGINEER-IN-CHARGE</p>	<p>APPROVED BY: [Signature] HON. NA. JOSEFINA G. BELMONTTE CITY MAYOR, QUEZON CITY</p>	<p>SHEET CONTENT: CAST IRON MANHOLE FOR 24"Ø RCP (SPL1g)</p>	<p>SHEET NO. </p>
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1 CAST IRON MANHOLE FOR 24"Ø RCP AT ROADWAY (SPL39b)

 <p>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p>	<p>PROJECT TITLE: PROPOSED REHABILITATION OF ROAD AND DRAINAGE AT TOPSIDE STREET, VARIOUS ALLEYS AND PORTION OF MAJOR DIGN STREET (LIBRA STREET TO TOPSIDE STREET) IN BARANGAY ESCOPA 2 AND ESCOPA 4</p> <p>DATE: Sept. 22, 2022</p> <p>DESIGNED BY: [Signature]</p> <p>REVIEWED BY:</p>	<p>DRAWN BY: MJB</p>	<p>SUBMITTED BY:</p> <p>ENGR. LEO S. DEL ROSARIO HEAD PLANNING & PROJECT MANAGEMENT</p>	<p>RECOMMENDING APPROVAL:</p> <p>ENGR. ISABAN R. VERZOSA, JR. CITY ENGINEERING DEPARTMENT</p>	<p>APPROVED BY:</p> <p>HON. NA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY</p>	<p>SHEET CONTENT:</p> <p>CAST IRON MANHOLE FOR 24"Ø RCP AT ROADWAY (SPL39b)</p>	<p>SHEET NO.:</p> <p>CW 1013</p>
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1 CAST IRON MANHOLE FOR 24"Ø RCP AT ROADWAY (SPL39c)



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
PROPOSED REHABILITATION OF ROAD AND DRAINAGE
AT TOPSIDE STREET, VARIOUS ALLEYS AND PORTION
OF MAJOR DIZON STREET (LIBRA STREET TO TOPSIDE
STREET) IN BARANGAY ESCOPA 2 AND ESCOPA 4
ADDRESS:
BARANGAY ESCOPA 2 AND ESCOPA 4, DISTRICT 3, QUEZON CITY

DRAWN BY: **AGD**
DATE: Sep 27, 2021
CHECKED BY: **[Signature]**
REVISION:

SUBMITTED BY:
ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING AND DESIGN DIVISION

RECOMMENDING APPROVAL:
ENGR. ISAGANI R. VERZOSA, JR.
DEPUTY CITY ENGINEER IN CHARGE

APPROVED BY:
HON. MA. JOSEFINA G. BELMORTE
CITY MAYOR, QUEZON CITY

SHEET CONTENT:
CAST IRON
MANHOLE FOR 24"Ø
RCP AT ROADWAY
(SPL39c)

SHEET NO.:
CW
1113

Technical drawing of a rectangular structure. The overall width is 1000 and the overall height is 800. A horizontal line is drawn at a height of 100 from the top. Below this line, there is a row of 12 small circles. The vertical distance from the top line to the first circle is 100, and the distance between the first and second circle is 275. The bottom of the structure is at a height of 800. A vertical line is drawn at a width of 250 from the left. The distance from the left edge to the vertical line is 250. The distance from the vertical line to the right edge is 750.

SECTION "A"

SCALE : 1:10METS

THK. HILD
L PLATE

STAINLESS STEEL PERFORATED PLATE (S.S. 7608)

20mm X 25mm
STAINLESS STEEL
MATTEG


S.T.A.I.N.L.E.S.S. S.T.E.E.L.

CAST IRON
LONGBRIDGE TOPPOFF - AT L
CLASS 4000 S&T MODIFICATION
ASTM A536 FOR IMPROVED SILENCE

300
600
100

NOTE:
BOLT (KEY) FOR TURN OVER TO
CITY ENGINEERING DEPARTMENT


PROJECT TITLE:
PROPOSED REHABILITATION OF ROAD AND DRAINAGE
AT TOPSIDE STREET, VARIOUS ALLEYS AND PORTION
OF MAJOR OZON STREET (LIBRA STREET TO TOPSIDE
STREET) IN BANGANGY ESCOPA 2 AND ESCOPA 4
BANGANGY ESCOPA 2 AND ESCOPA 4, DISTRICT 3, QUEZON CITY

ORIGIN: USA	
DATE: Sept 22, 2002	
GEOGRAPHY: 	
PERSONNEL:	

SUBMITTED BY:

 ENGR. LEO S. DEL ROSARIO
 REG. PROFESSIONAL ENGINEER 104872

RECOMMENDING APPROVAL:


ENGR. ISAGANI R. VERZOSA, JR.
SEC. CITY ENGINEERING DEPARTMENT

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
CITY MAYOR, QUINCY CITY

SHEET CONTENT
CASE FOR GLITTER CRYAL

SHEET NO.

CW

12/13

Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

- a. to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and
- b. when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

Daywork Schedule

A Daywork Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Entity of the realism of rates quoted by the Bidders, the Daywork Schedule should normally comprise the following:

- a. A list of the various classes of labor, materials, and Constructional Plant for which basic daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a daywork basis.
- b. Nominal quantities for each item of Daywork, to be priced by each Bidder at Daywork rates as Bid. The rate to be entered by the Bidder against each basic Daywork item should include the Contractor's profit, overheads, supervision, and other charges.

Provisional Sums

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the SCC should state the manner in which they will be used, and under whose authority (usually the Procuring Entity's Representative's).

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized contractors. To provide an element of competition among the Bidders in respect of any facilities, amenities, attendance, etc., to be provided by the successful Bidder as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Bidder to quote a sum for such amenities, facilities, attendance, etc.

Signature Box

A signature box shall be added at the bottom of each page of the Bill of Quantities where the authorized representative of the Bidder shall affix his signature. Failure of the authorized representative to sign each and every page of the Bill of Quantities shall be a cause for rejection of his bid.

These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final documents.

PROJECT TITLE: **PROPOSED REHABILITATION OF ROAD AND DRAINAGE AT TOPSIDE STREET, VARIOUS ALLEYS AND PORTION OF MAJOR DIZON STREET (LIBRA STREET TO TOPSIDE STREET)**

LOCATION **:** **BARANGAY ESCOPA 2 AND ESCOPA 4, DISTRICT 3, QUEZON CITY**

PROJECT NO. **:** **23 - 00026**

DURATION **:** **One Hundred Eighty (180) Calendar Days**

BREAKDOWN OF COST

ITEM CODE:	ITEM OF WORK (DESCRIPTION)	MATERIAL COST	LABOR COST	INDIRECT COST	
GR	GENERAL REQUIREMENTS				
OGR	OTHER GENERAL REQUIREMENTS				
SW	SITE WORKS				
CWS	CIVIL/STRUCTURAL WORKS				

TOTAL COST **P** _____

LUMP SUM BID IN WORDS : _____

Contractor : _____

BILL OF QUANTITIES
(Road Construction/Rehabilitation Project)

PROJECT TITLE : PROPOSED REHABILITATION OF ROAD AND DRAINAGE AT TOPSIDE STREET, VARIOUS ALLEYS AND PORTION OF MAJOR DIZON STREET (LIBRA STREET TO TOPSIDE STREET)

LOCATION : BARANGAY ESCOPA 2 AND ESCOPA 4, DISTRICT 3, QUEZON CITY

PROJECT NO. : 23 - 00026

DURATION : One Hundred Eighty (180) Calendar Days

ROAD DETAILS:

NAME	LIMITS	LENGTH	WIDTH	TYPE
MAJOR SANTOS DIZON STREET	STA 0+000A TO STA 0+084A (TOPSIDE STREET)	84 M	3.5 M	24"Ø RCCP
TOPSIDE STREET	STA 0+084A (MAJOR SANTOS DIZON) TO STA 0+264A (END)	180 M	5 M	24"Ø RCCP
ALLEY 2	STA 0+000B (TOPSIDE STREET) TO STA 0+022B (END)	22 M	2.5 M	12"Ø RCCP
ALLEY 3	STA 0+000C (CREEK) TO STA 0+016C (END)	16 M	2.5 M	12"Ø RCCP
ALLEY 4	STA 0+000D (TOPSIDE STREET) TO STA 0+011D (END)	11 M	1.5 M	12"Ø RCCP
ALLEY 5	STA 0+000E (TOPSIDE STREET) TO STA 0+011E (END)	11 M	1.5 M	12"Ø RCCP
ALLEY 6	STA 0+000F (TOPSIDE STREET) TO STA 0+013F (END)	13 M	2 M	12"Ø RCCP
ALLEY 7	STA 0+000G (TOPSIDE STREET) TO STA 0+018G (END)	18 M	2 M	12"Ø RCCP
ALLEY 8	STA 0+000H (TOPSIDE STREET) TO STA 0+022H (END)	22 M	2 M	12"Ø RCCP
ALLEY 9	STA 0+000I (TOPSIDE STREET) TO STA 0+025I (END)	25 M	2 M	12"Ø RCCP

SCOPE OF WORKS:

- GR** General Requirements includes billboard.
- OGR** Other General Requirements (Non - O.C.M.) includes, but not limited to:
 - 1 Steel Barricade
- SW** Site Works (Horizontal Infrastructure):
 - 1 Removal works includes removal of existing asphalt and concrete pavement.
 - 2 Excavation for roadway and drainage.
- CWS** Civil / Structural Works:
 - 1 Painting Works include thermoplastic lane markings (white)
 - 2 Earthworks includes aggregate base course.
 - 3 Construction of drainage system includes concrete manholes, tapping drainage and leak repair.
 - 4 Laying of concrete cylindrical pipes.
 - 5 Concreting of pavement, curb and gutter.
 - 6 Concreting of pavement, curb and gutter.
- O** Others (included in O.C.M.):

- 1 Provision of Construction Health and Safety such as safety gears, medical kit, etc.
- 2 Mobilization of construction materials and equipment.
- 3 Testing and Commissioning Works shall be performed as per standard procedure.

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	AMOUNT
GR	GENERAL REQUIREMENTS				
SPL7	Billboard (1.20m x 2.40m in Plywood)	2	unit	P	P
				MATERIAL COST	P
				LABOR COST GR	
				DIRECT COST GR	P
OGR	OTHER GENERAL REQUIREMENTS (NON-O.C.M.)				
OGR04	Permits and Miscellaneous				
SPL10c	Mobilization of Equipment (for Surface Improvement < 200 MT only)	1	unit	P	P
SPL 13b	Steel Barricade (Rental)	41	unit		
		DIRECT COST OGR (MATERIAL)			P
SW	SITE WORKS (HORIZONTAL INFRASTRUCTURE)				
105	Roadway Excavation	148	cu.m.	P	P
104b	Removal of Existing Asphalt Pavement	1,488	sq.m.		
104c	Removal of Existing Concrete Pavement	1,478	sq.m.		
106	Excavation for Structures (Drainage)	1,921	cu.m.		
			DIRECT COST SW (LABOR)		P
CWS	CIVIL / STRUCTURAL WORKS				
CWSMS	Markings and Signages				
SPL 10a	Thermoplastic Markings White	60	sq.m.		
SPL 10b	Thermoplastic Markings Yellow	9	sq.m.		
CWSE	Earthworks				
200	Aggregate Base Course	148	cu.m.		
CWSMH	Manhole				
SPL1a	RC Manhole with C.I. Cover and Curb Inlet for 610 mm Diam. (24"Ø)	2	unit		
SPL1g	RC Manhole with C.I. Cover and Cast Iron Grating	2	unit		
SPL5	Tapping Drainage	41	unit		
SPL6	MWSS Leak Repair / 20 meters	21	unit		
SPL39b	RC Manhole with C.I. Cover and Curb Inlet (H = 3.00 m)	4	unit		
SPL39c	RC Manhole with C.I. Cover and Curb Inlet (H = 4.00 m)	5	unit		
SPL60b	Reinforced Concrete Spillway with Curb Inlet Interceptor	9	unit		
CWSRCCP	Reinforced Concrete Cylindrical Pipes				
413a	310 mm. diam./12" diam. R.C.C.P.	122	l.m.		
413c	610 mm. diam./24" diam. R.C.C.P.	259	l.m.		
CWSPCCP	Portland Cement Concrete Pavement				
316c	P.C.C.P.,0.23 m. thk., 550 F, 7 days	1,014	sq.m.		
316h	P.C.C.P.,0.15 m. thk., 550 F, 14 days	243	sq.m.		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	AMOUNT
502a	Concrete Curb & Gutter (Type A)	636	l.m.		
CWSAH	Asphalting				
302	Bituminous Prime Coat	0.6	m.t.		
310	Bituminous Concrete Surface Course	70	m.t.		
CWSF	Formworks, Scaffoldings and Shoring				
SPL33	Shoring for Horizontal/Waterways (Depth >2m)	206	l.m.		
				MATERIAL COST CWS	P
				LABOR COST CWS	
				DIRECT COST CWS	P

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	AMOUNT
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SUMMARY

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS		TOTAL COST
OGR	OTHER GENERAL REQUIREMENTS (NON - O.C.M.)		P
	TOTAL ESTIMATED COST A		P
GR SW CWS	GENERAL REQUIREMENTS SITE WORKS (HORIZONTAL INFRASTRUCTURE) CIVIL / STRUCTURAL WORKS		P
NOTE: • Strictly enforce health protocols relative to latest applicable DPWH Memorandum. • Bolt (key) for turnover to City Engineering Department.	TOTAL DIRECT COST B		P
	Overhead, Contingencies and Miscellaneous Expenses (OCM)		
	Profit		
	TOTAL ESTIMATED COST B		P
	TOTAL ESTIMATED COST A		P
	TOTAL ESTIMATED COST B		
	TOTAL ESTIMATED COST		P
	VAT		
TOTAL APPROVED BUDGET FOR THE CONTRACT			P

Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary “pass/fail” criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

- ☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
and
- ☐ (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;
and
- ☐ (c) Mayor’s or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
and
- ☐ (e) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Technical Documents

- ☐ (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid (*please see attached prescribed forms required by the QC – BAC for Infrastructure and Consultancy*); **and**
- ☐ (g) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules with an attached Notice of Award, Notice to Proceed, Contract and Certificate of Acceptance (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*); **and**
- ☐ (h) Philippine Contractors Accreditation Board (PCAB) License;
or
Special PCAB License in case of Joint Ventures;
and registration for the type and cost of the contract to be bid; **and**
- ☐ (i) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
Original copy of Notarized Bid Securing Declaration; **and**
- ☐ (j) Project Requirements, which shall include the following:
 - ☐ a. Organizational chart for the contract to be bid;
 - ☐ b. List of contractor’s key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*);
 - ☐ c. List of contractor’s major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment

lessor/vendor for the duration of the project, as the case may be (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*); **and**

- ☐ (k) Original duly signed Omnibus Sworn Statement (OSS); **and** if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Additional Technical Requirements:

- ☐ • Certificate of Site Inspection or Affidavit of Site Inspection as part of Omnibus Sworn Statement
- ☐ • Affidavit of Undertaking for Key Personnel and Equipment (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*)
- ☐ • Equipment Utilization Schedule
- ☐ • Manpower Schedule
- ☐ • Construction Schedule and S-Curve
- ☐ • PERT-CMP
- ☐ • Construction Methods

Financial Documents

- ☐ (l) The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; **and**
- ☐ (m) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*).

Class "B" Documents

- ☐ (n) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence; **or** duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

- ☐ (o) Original of duly signed and accomplished Financial Bid Form; **and**

Other documentary requirements under RA No. 9184

- ☐ (p) Original of duly signed Bid Prices in the Bill of Quantities; **and**
- ☐ (q) Duly accomplished Detailed Estimates Form, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; **and**
- ☐ (r) Cash Flow by Quarter.

Bid Form for the Procurement of Infrastructure Projects
[shall be submitted with the Bid]

BID FORM

Date : _____
Project Identification No. : _____

To: *[name and address of Procuring Entity]*

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: *[insert name of contract]*;
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: *[insert information]*;
- d. The discounts offered and the methodology for their application are: *[insert information]*;
- e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the a period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines¹ for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

¹ currently based on GPPB Resolution No. 09-2020

- k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity].
- l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

Bid Securing Declaration Form

[shall be submitted with the Bid if bidder opts to provide this form of bid security]

REPUBLIC OF THE PHILIPPINES)

CITY OF _____) S.S.

BID SECURING DECLARATION **Project Identification No.: *[Insert number]***

To: *[Insert name and address of the Procuring Entity]*

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of *[month]* *[year]* at *[place of execution]*.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

Omnibus Sworn Statement (Revised)
[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. *[Select one, delete the other:]*

[If a sole proprietorship:] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

[If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. *[Select one, delete the other:]*

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. *[Select one, delete the rest:]*

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a partnership or cooperative:] None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project

Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a corporation or joint venture:] None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and
8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.
9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**
11. We pledge that the project will be completed in accordance and congruency with the approved plans and programs.

IN WITNESS WHEREOF, I have hereunto set my hand this ___ day of _____ 20__ at _____, Philippines.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]
Affiant

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

Contract Agreement Form for the Procurement of Infrastructure Projects (Revised)

[not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]

CONTRACT AGREEMENT

THIS AGREEMENT, made this *[insert date]* day of *[insert month]*, *[insert year]* between *[name and address of PROCURING ENTITY]* (hereinafter called the "Entity") and *[name and address of Contractor]* (hereinafter called the "Contractor").

WHEREAS, the Entity is desirous that the Contractor execute *[name and identification number of contract]* (hereinafter called "the Works") and the Entity has accepted the Bid for *[contract price in words and figures in specified currency]* by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, viz.:

- a. Philippine Bidding Documents (PBDs);
 - i. Drawings/Plans;
 - ii. Specifications;
 - iii. Bill of Quantities;
 - iv. General and Special Conditions of Contract;
 - v. Supplemental or Bid Bulletins, if any;
- b. Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (e.g., Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;

- c. Performance Security;
 - d. Notice of Award of Contract and the Bidder's conforme thereto; and
 - e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.**
3. In consideration for the sum of *[total contract price in words and figures]* or such other sums as may be ascertained, *[Named of the bidder]* agrees to *[state the object of the contract]* in accordance with his/her/its Bid.

4. The *[Name of the procuring entity]* agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

[Insert Name and Signature] [Insert Name and Signature]

[Insert Signatory's Legal Capacity] [Insert Signatory's Legal Capacity]

for: for:

[Insert Procuring Entity] [Insert Name of Supplier]

Acknowledgment

[Format shall be based on the latest Rules on Notarial Practice]

LIST OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS

NAME OF CONTRACTOR: _____

PROJECT TITLE (Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE (SOLE CONTRACTOR, SUBCONTRACTOR, PARTNER IN A JV) and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION or ESTIMATED COMPLETION TIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE	PERCENTAGE		VALUE OF OUTSTANDING WORKS (IN PHP)
									ACTUAL ACCOMPLISHMENT	PLANNED ACCOMPLISHMENT	
									TOTAL AMOUNT (Php) OF OUTSTANDING WORKS		

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page _____ of _____

SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE BID

NAME OF CONTRACTOR: _____

PROJECT TITLE: _____

PROJECT TITLE (Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE (SOLE CONTRACTOR, SUBCONTRACTOR, PARTNER IN A JV) and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION or ESTIMATED COMPLETION TIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page _____ of _____

LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT

NAME OF CONTRACTOR: _____

PROJECT TITLE: _____

TYPE	DESCRIPTION / CAPACITY	SERIAL NO.	YEAR ACQUIRED	PRESENT LOCATION (SPECIFIC ADDRESS)	STATUS OF AVAILABILITY (OWNED/LEASED)

A. LIST OF KEY CONSTRUCTION PERSONNEL TO BE ASSIGNED TO THE PROJECT

NAME OF CONTRACTOR: _____

PROJECT TITLE: _____

NAME	POSITION	AGE	EDUCATIONAL ATTAINMENT	TYPE OF CONSTRUCTION EXPERIENCE	NO.OF YEARS WITH THE CONTRACTOR	PROFESSION	PRC NO.

COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

NAME OF BIDDER: _____

CURRENT ASSETS*		PHP	_____
(LESS) CURRENT LIABILITIES*	(LESS)	PHP	_____
NETWORTH		PHP	_____
NETWORTH x 15	x 15	PHP	_____
(LESS) VALUE OF ALL OUTSTANDING ON-GOING CONTRACTS**	(LESS)	PHP	_____
(LESS) VALUE OF ALL AWARDED BUT NOT YET STARTED CONTRACTS AS OF DATE**	(LESS)	PHP	_____
NET FINANCIAL CONTRACTING CAPACITY		PHP	_____

NOTES: * CURRENT ASSETS AND LIABILITIES BASED ON AUDITED FINANCIAL STATEMENT FOR THE PRECEDING CALENDAR YEAR SUBMITTED TO B.I.R.

 ** BASED ON LIST OF ON-GOING AND AWRDED BUT NOT VEY STARTED CONTRACTS SUBMITTED

REPUBLIC OF THE PHILIPPINES)

_____) S.S.

AFFIDAVIT OF UNDERTAKING

I, _____ of legal age, Filipino, _____ **[OFFICER OR REPRESENTATIVE]**

with office address at _____ after having been duly sworn to in accordance with law, hereby voluntary depose and state:

That I am duly authorized representative of the **[Name of Bidder]** to execute this undertaking as evidenced by Secretary's Certificate and Board Resolution.

That **[Name of Bidder]** bidding for the (Name of Project)

That relative to the aforementioned Project, the **[Name of Bidder]** hereby undertake that the equipment to be use and the key personnel to be assign shall exclusively be used and will only perform to the said project until its completion.

That I am executing this affidavit to attest to the truth of the foregoing and in compliance with the submission of the technical requirements for the public bidding of the said project.

IN WITNESS HEREOF, I have hereunto signed my name below this _____ day of _____ at _____.

AFFIANT FURTHER SAYETH NAUGHT.

Affiant

SUBSCRIBED AND SWORN TO BEFORE ME this _____ day of _____
in _____

affiant exhibiting to me his/her _____ issued at _____
on _____.

Doc. No. ;
Page No. ;
Book No. ;
Series of 2020

Notary Public

