



**THE BEGUM NUSRAT BHUTTO
WOMEN UNIVERSITY, SUKKUR
OFFICE OF THE PROJECT DIRECTOR**

NO.PD/BNB-WU-SKR/-0652 of 2026

Dated: 20-07-2026

RE-NOTICE INVITING TENDER

The Begum Nusrat Bhutto Women University Sukkur invites Bids (Tenders) from interested, eligible, qualified and experienced Bidder(s) through EPADS (E-Pak Acquisition & Disposal System) on a Single Stage - Two Envelope Procedure as per SPPRA's Rules for the following works:

#	Name of Work	Estimaed Cost Rs. In million	Tender Fee Rs.	Time for Completion	Bid Security Rs. In million	Date of Issuance	Date of Submission Of bids	Purchase from
1	Construction of Building for Bank	9.898	5000	6 Months	0.495	23-07-2026	07-08-2025	Through SPPRA EPADS

3. Eligibility and Qualification Criteria:

- a) Valid registration with Pakistan Engineering Council (PEC):
 - i. Category C-6 or above
- b) Valid registration with Sindh Revenue Board (SRB).
- c) NTN Certificate activated status in Federal Board of Revenue (FBR).
- d) Copy of CNIC of owners/proprietors.
- e) Experience in similar nature of work(s) executed during the last five years: i. At least one similar nature of work having minimum cost 80% of the estimated cost of the work; or ii. At least two similar nature works each having minimum cost 50% of the estimated cost.
- f) Average Annual Financial Turn-over not less than equivalent cost of the scheme/project during last five years.
- g) List of similar nature of building works with satisfactory Completion Certificates along with Letters of Award issued from the Procuring Agency for last five (05) years.
- h) Details of equipment, machinery and transport owned/leased/hired by the bidder related to the building construction with documentary evidence.
- i) Financial Statement (Summary), Income Tax Returns, Bank Statements and Audited Reports for last three (03) years.
- j) List of litigation (if any) their nature and status/outcomes.
- k) A separated Affidavit on original stamp paper of at least Rs.100/- (duly notarized) to the effect that the bidder is not black listed and not involved in any litigation and arbitration with any Government Procuring Agency and bidder has not abandoned any work.
- l) The bidders shall have to submit complete details of Engineering and Technical personnel along with CVs (duly signed by concerned person with attested copies of testimonials and having relevant experience).
- m) All documents required should be clearly legible and attested from any gazetted Govt. officer otherwise bid cannot be considered for qualification. Stamp without name of officer are not eligible.
- n) Bidders shall have to submit separated affidavit on original stamp paper of at least Rs.100/- (duly notarized) to the effect that:
 - i. All the documents' /particulars/ information furnished are absolutely true & correct.
 - ii. Declaring that there is no involvement in any corrupt, fraudulent and collusive practices.



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- iii. If, at any stage, the information is found to be bogus, fake, forged, or counterfeit, action shall be taken in accordance with the applicable rules.
5. Bidding/Tender Documents:
- i. Interested bidders are required to get registered themselves on EPAD system in the link <https://sindh.eprocure.gov.pk/#/supplier/registration> for submission of electronics bids. Bidding documents can be viewed/downloaded from <https://portalsindh.eprocure.gov.pk> and also available and viewed from, University's website: <https://bnbwu.edu.pk/tenders/>.
 - ii. The bids prepared in accordance with the instruction given in the bidding document must be submitted on EPADS. The original instruments of tender fee (non-refundable) and bid security, in shape of Call Deposit issued by any scheduled bank of Pakistan, in favour of, "The Begum Nusrat Bhutto Women University, Sukkur" must reach the Procuring Agency (the undersigned) in the sealed envelope prior to the deadline of submission of bids. The technical bids will be opened by the Procurement Committee on the same day at 11:00 am, in presence of the bidder(s) or their authorized representative who wish to be present. After completion of Technical Process, the Financial Bids of technically qualified bidders will be opened and uploaded on EPADS, accordingly.
6. The bidder must submit hard copies of the documents. Submission of hard copies is mandatory.
7. Un-responded tenders will be again issued/submitted/opened on the following dates: -
- | | | |
|-----------------|--------------------------|--|
| Attempt: | (a) Issue date | (b) Submission & opening date |
| 2 nd | 08-08-2026 to 18-06-2026 | 24-08-2026(10:30am) & 24-08-2026(11:00 am) |
7. Venue: through EPADS, office of the Project Director, BNBWU, Sukkur.
8. Un-foreseen situation: In case of such situation resulting in closure of office on the date of opening or if Government declares holiday, the tenders shall be submitted, opened on the next working day at the same time and venue.
9. Funding Position:
University from other resources.
10. Terms & Conditions:
- a) Under following conditions bid will be rejected: -
 - i. Conditional bid(s).
 - ii. Bid(s) without bid security of required amount and form.
 - iii. Bids received after specified date and time.
 - iv. Black listed firms.
 - b) Bid Validity Period:- 90 days (Ninety Days).
 - c) Evaluation Criteria:- The required documents (as per Eligibility and Qualification Criteria) attached with the application/bid shall be evaluated on Yes/No basis (check list).
 - d) Procuring Agency reserves the right to reject any or all bids subject to the relevant provisions of Sindh Public Procurement Rules 2010 (amended up to date)

Project Manager
The Begum Nusrat Bhutto Women
University, Sukkur



TENDER DOCUMENT

FOR

The Construction of Bank Building

THE BEGUM NUSRAT BHUTTO WOMEN UNIVERSITY SUKKUR

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**2. BIDDING DATA, CHECK LIST FOR
SUBMISSION OF BID, SUPERVISORY
STAFF.**

CONTRACT/BIDDING DATA

The following specific data for the Works to be tendered shall complement, amend, or supplement the provisions in the Instructions to Bidders. Wherever there is a conflict, the provisions herein shall prevail over those in the Instructions to Bidders.

Instructions to Bidders

Clause Reference

- 1.1 Name and address of the procuring agency:
Begum Nusrat Bhutto (BNB) Women University, Sukkur
- 1.2 Name of the Project & Summary of the Works:
Construction of Bank Building
- 2.1 Name of the Borrower/Source of Financing/Funding Agency:
Begum Nusrat Bhutto (BNB) Women University, Sukkur
- 2.1 Amount and type of financing/Scheme Cost & Allocated Funds:

- 3.1 Eligible Bidders
3.1 c. (i) is deleted and substituted as under:-
"3.1 c (i) Open to all bidders on single stage single envelopes basis for particular project/scheme"
- 8.1 Time limit for clarification: **(10) Ten days before tender opening**
- 10.1 Bid language: **English**
- 11.1 (a) Prequalification Information to be updated (where applicable): *N/A*
- 11.1 (b) Company Profile in single stage single envelope :
Documentary evidence of similar assignment and experience in respect of Personal/Machinery with cost under taken over the past 5 years and certificate of satisfactory completion showing date of start and completion from employer. Bidders are required to submit the minimum mandatory information/document mentioned in bidding documents on (Page BD-4) to meet the project requirement.
- 13.1 Bidders to quote entirely in Pak. rupees
- 14.1 Period of Bid Validity: **90 days**
- 15.1 Amount of Bid Security: **0.495 million of the Bid Amount**
- 17.1 Venue, time, and date of the pre-Bid meeting:
Project Director Office, BNBWU, Sukkur
- 18.4 Number of copies of the Bid to be completed and returned:
One Original plus two Copies
- 19.2 (a) *Procuring agency's address for the purpose of Bid submission: Office of the Project Director, Begum Nusrat Bhutto (BNB) Women University, Sukkur*

19.2 (b) Name and Identification Number of the Contract:

Project Manager, Asadullah Tel: 071-9311202, 0300 3299036, 0335 3941994
E-Mail project.director@bnbwu.edu.pk, project.manager@bnbwu.edu.pk
The Begum Nusrat Bhutto, Women University, National Highway, Rohri ByPass, Sukkur.
65170.

20.1 (a) Deadline for submission of bids: **07-08-2026 @ 10.30 A.M**

(b) Venue, time, and date of Bid opening:

Office of the Project Director, Begum Nusrat Bhutto
(BNB) Women University, Sukkur on **7-08-2026 @ 11:00 A.M**

32.1 Standard form and amount of Performance Security acceptable to the procuring agency:

The successful bidder shall furnish to the Employer a Performance Security in the form of unconditional Bank Guarantee from a Schedule Bank for an amount of Rs.5% (five percent) of the Contract Price stated in the Letter of Acceptance in accordance with the Conditions of Contract within a period of 14 (fourteen) days after the receipt of Letter of Acceptance.

32.3 Stamp duty

0.35 % will be paid by successful bidder as stamp duty.
 [% will depend upon the rules]

**3. FORM OF BID
AND
APPENDICES TO BID**

FORM OF BID

Bid Reference No. _____
(Name of Contract/Works)

To:

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Conditions of Contract. Specifications, Drawings and Bill of Quantities and Addenda Nos. _____ for the execution of the above-named Work, we/I, the undersigned, offer to execute and complete the Work and remedy any defects therein in conformity with the Conditions of Contract. Specifications, Drawings, Bill of Quantities and Addenda for the sum of Rs. _____ (Rupees _____) or such other sum as may be ascertained in accordance with the said conditions.
2. We/I understand that all the Appendices attached hereto form part of this Bid.
3. As security for due performance of the undertakings and obligations of this Bid, we/I submit herewith a Bid Security in the amount of Rupees _____ (Rs. _____) drawn in your favour or made payable to procuring agency and valid for a period of _____ days beginning from the date, Bid is opened.
4. We/I undertake, if our Bid is accepted, to commence the Works and to complete the whole of the Works comprised in the Contract within the time stated in Appendix-A to Bid.
5. We/I agree to abide by this Bid for the period of _____ days from the date fixed for opening the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
6. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
7. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other bidder for the Works.
8. We understand that you are not bound to accept the lowest or any Bid you may receive.
9. We undertake, if our/my bid is accepted, to execute the performance security referred to in clause 10 of Conditions of Contract for the due performance of the Contract.
10. We confirm, if our bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of

the procuring agency.

(please delete this in case of bid form a single bidder)

in the capacity of _____duly authorized to sign Bids for and on behalf of

Dated this _____day of _____20_____

Signature: _____

(Name of Bidder in Block Capitals)

(Seal)

Address:_____

Witness:

Signature: _____

Name: _____

Address. _____

Occupation_____

SPECIAL STIPULATIONS**Clause****Conditions of Contract**

1.	Engineer's representing Consulting Firm hired by the procuring agency to issue Variation in case emergency.	3.1	2% of the Contract Price stated in the Letter of Acceptance. Or as per Consultant agreement.
2.	Amount of Performance Security/ Guarantee	4.2	Bank Guarantee to be obtained from Scheduled Bank in Pakistan or insurance bond obtained from AA rating company for a sum equivalent to 5% of Contract Price stated in the Letter of Acceptance for the whole completion period and also for Defect Liability Period.
3.	Time for Furnishing Programme	8.3	Within 14 days from the date of receipt of Letter of Acceptance.
4.	Minimum amount of Third Party Insurance	18.3	Rs.500,000/- per occurrence with number of occurrences unlimited.
5.	Time for Commencement	8.1	Within 14 days from the date of receipt of Engineer's Notice to Commence this shall be issued within fourteen (14) days after signing of Contract Agreement.
6.	Time for Completion (work & sections)	8.2, 10.2	182 (One Hundred Eighty two) days from the date of receipt of Engineer's Notice to Commence.
7.	Amount of Liquidated Damages/Delay Damages/Penalties	8.7	0.05% (zero point zero five percent) Damages per day (are to be mentioned) but total amount will not be more than 10% of contract price.
8.	Defects Liability Period	11.1	365 (three hundred sixty five days from the effective date of Taking Over Certificate.
9.	Percentage of Retention Money	14.2	10% of the amount of Interim/ Running Payment Certificate.
10.	Limit of Retention Money	14.2	10 % of Contract Price stated in the Letter of Acceptance.
11.	Minimum amount of Interim/ Running Payment Certificates.	14.2	Rs. 10.00 (ten) million or Discretion of Employer.
12.	Time of Payment from delivery of Engineer's Interim/ Running Payment Certificate to the procuring agency.	14.7	Interim Payment Certificate issued by the Engineer (within 20 days of submission) pursuant to this Clause shall be paid by the Employer to the Contractor within 30 days after such Interim Payment Certificate has been delivered to the Employer.
13.	Mobilization Advance	14.2	10% (ten percent) of Contract Price stated in the Letter of Acceptance.

FOREIGN CURRENCY REQUIREMENTS

1. The Bidder may indicate herein below his requirements of foreign currency (if any), with reference to various inputs to the Works.
2. Foreign Currency Requirement as percentage of the Bid Price excluding Provisional Sums _____.%
3. Table of Exchange Rates

Unit of Currency	Equivalent in Pak. Rupees
Australian Dollar	_____
Euro	_____
Japanese Yen	_____
U.K. Pound	_____
U.S. Dollars	_____
_____	_____
_____	_____

NOT APPLICABLE

**PRICE ADJUSTMENT UNDER CLAUSE 70/13.8
OF CONDITIONS OF CONTRACT**

A. Weight ages or coefficients are used for price adjustment.

The source of indices and the weight ages or coefficients for use in the adjustment formula under Clause 13.8 shall be as follows:

(To be filled by the procuring agency)

Cost Element	Description	Weight ages	Applicable index
1	2	.3	4
(i)	Fixed Portion	0.45	
(ii)	Local Labour	0.17	Government of Pakistan (GoP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.
(iii)	Cement – in bags	0.1	“ “ “
(iv)	Reinforcing Steel	0.14	“ “ “
(v)	High Speed Diesel (HSD)	0.05	“ “ “
(vi)	Bricks	0.09	“ “ “
	Total	1.000	

Notes:

- Indices for “(ii)” to “(vii)” are taken from the Government of Pakistan Federal Bureau of Statistics, Monthly Statistical Bulletin. The base cost indices or prices shall be those applying 15 days prior to the latest day for submission of bids. Current indices or prices shall be those applying 28 days prior to the last day of the billing period.
- Any fluctuation in the indices or prices of materials other than those given above shall not be subject to adjustment of the Contract Price.
- Fixed portion shown here is for typical road project, procuring agency to determine the weight age of Fixed Portion considering only those cost elements having cost impact of seven (7) percent or more on his specific project.

B. When Escalation is allowed on the material only.

Price adjustment of following items shall be allowed:

Cost Element	Description	Base Price	Applicable index
1	2	3	4
(i)	Cement – in bags		Government of Pakistan (GoP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.
(ii)	Reinforcing Steel		“ “ “
(iii)	Bricks		“ “ “
(iv)	Bitumen		“ “ “
(v)	Wood (Composite item)		“ “ “
	Total five items.		

BILL OF QUANTITIES

A. Preamble

1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work executed and measured by the Contractor and verified by the Engineer and valued at the rates and prices entered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix as per the Contract (in case of item not mentioned in Bill of Quantities).
3. The rates and prices entered in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract include all costs of Contractor's plant, labour, supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract. Furthermore all duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 14 days prior to deadline for submission of Bids in case of ICB/NCB respectively, shall be included in the rates and prices and the total Bid Price submitted by the Bidder.
4. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the Contractor will have failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities and shall not be paid separately.
5. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Works.
6. General directions and description of work and materials are not necessarily repeated nor summarised in the Bill of Quantities. References to the relevant sections of the Bidding Documents shall be made before entering prices against each item in the priced Bill of Quantities.
7. Provisional sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer in accordance with Sub-Clause 13.5 of Part I, General Conditions of Contract.
8. Cartage on all items shall not be payable separately and that the bid offered or premium quoted by the bidder shall be included cost of cartage.
9. Additional excavation for working space shall not be payable.
10. Income Tax, Sales Tax and all other Liabilities to be paid by the Contractor as per latest orders/notification or as per law of Pakistan and that the bid offered or premium quoted by the bidder shall be included cost of such liabilities.
11. Besides PWD specification, specification attached with Contract Documents shall be applicable subject to discretion of the Engineer/Employer (wherever appropriate).

12. All formwork shall be used of steel plates and cost that must be included in the bid offered or premium quoted by the bidder. No separate payment shall be applicable.
13. Steel reinforcement used shall be Deform Steel Grade 40 & 60 as described in BOQ . The Contractor shall quote premium as per specified deformed grade 40 & 60 and no additional payment shall be permissible in this account.

BILL OF QUANTITIES

B. Work Items (Road/PHE Work)*

1. The Bill of Quantities contains the following Bills and items:

Bill No. 1	-	Earthworks
Bill No. 2	-	Hard Crust and Surface Treatment
Bill No. 3	-	Culverts and Bridges
Bill No. 4	-	Subsurface Drains, Pipe Laying and Man holes
Bill No. 5	-	Tube wells, Pump houses and Compound Wall
Bill No. 6	-	Miscellaneous Items

Daywork Schedule
Summary Bill of Quantities

2. Bidders shall price the Bill of Quantities in Pakistani Rupees only.

** procuring agency can add and delete the items as per its requirement.*

NOT APPLICABLE

BILL OF QUANTITIES

B. Work Items (Buildings)*

1. The Bill of Quantities contains the following Bills and items:

Bill No. 1	-	Plinth and Foundation
Bill No. 2	-	Ground Floor
Bill No. 3	-	First and Subsequent Floors
Bill No. 4	-	Internal Water Supply and Sanitary Fittings
Bill No. 5	-	Internal Electrification
Bill No. 6	-	Miscellaneous Items
Bill No. 7	-	External Development

Daywork Schedule
Summary Bill of Quantities

2. Bidders shall price the Bill of Quantities in Pakistani Rupees only.

** procuring agency can add and delete the items as per its requirement.*

NOT APPLICABLE

BILL OF QUANTITIES

C. Day work Schedule

General

1. Reference is made to Sub-Clause 13.6 of the General Conditions of Contract. Work shall not be executed on a day work basis except by written order of the Engineer. Bidders shall enter basic rates for day work items in the Schedules, which

rates shall apply to any quantity of day work ordered by the Engineer. Nominal quantities have been indicated against each item of day work, and the extended total for day work shall be carried forward to the Bid Price.

Day work Labour

2. In calculating payments due to the Contractor for the execution of day work, the actual time of classes of labour directly doing the day work ordered by the Engineer and for which they are competent to perform will be measured excluding meal breaks and rest periods. The time of gangers (charge hands) actually doing work with the gang will also be measured but not the time of foreman or other supervisory personnel.
3. The Contractor shall be entitled to payment in respect of the total time that labour is employed on Daywork, calculated at the basic rates entered by him in the Schedule of Daywork Rates for labour together with an additional percentage, payment on basic rates representing the Contractor's profit, overheads, etc., as described below:
 - a) the basic rates for labour shall cover all direct costs to the Contractor, including (but not limited to) the amount of wages paid to such labour, transportation time, overtime, subsistence allowances and any sums paid to or on behalf of such labour for social benefits in accordance with Pakistan law. The basic rates will be payable in local currency only; and
 - b) the additional percentage payment to be quoted by the Bidder and applied to costs incurred under (a) above shall be deemed to cover the Contractor's profit, overheads, superintendence, liabilities and insurances and allowances to labour timekeeping and clerical and office work; the use of consumable stores, water, lighting and power; the use and repair of stagings, scaffolding, workshops and stores, portable power tools, manual plant and tools; supervision by the Contractor's staff, foremen and other supervisory personnel; and charges incidental to the foregoing.

Appendix-D to Bid

SCHEDULE OF DAYWORK RATES

I. Labour

Item No.	Description	Unit	Nominal Quantity	Rate (Rs) in Figure	Rate (Rs) in Words	Extended Amount (Rs.)
1	2	3	4	5	6	7
D101	Ganger	Hr	500			
D102	Labourer	Hr	5,000			
D103	Brick layer	Hr	500			
D104	Mason	Hr	500			
D105	Carpenter	Hr	500			
D106	Steel work Erector	Hr	500			
	-----etc-----	Hr	500			
D113	Driver for vehicle up to 10 tons	Hr	1,000			
D114	Operator for excavator, dragline, shovel or crane	Hr	500			
D115	Operator for tractor, (tracked) with dozer blade or ripper	Hr	500			
D122	Sub Total Allow _____ percent of subtotal for Contractor's overhead, profit, etc, in accordance with Paragraph 3(b) of Daywork Schedule _____ Total for Daywork: Labour : _____ (Carried forward to Daywork Summary)					

Appendix-D to Bid

Day work Material

4. The Contractor shall be entitled to payment in respect of materials used for Daywork (except for materials for which the cost is included in the percentage addition to labour costs as detailed heretofore), at the basic rates entered by him in the Schedule of Daywork Rates for materials together with an additional percentage payment on the basic rates to cover overhead charges and profit, as follows:
 - a) the basic rates for materials shall be calculated on the basis of the invoiced price, freight, insurance, handling expenses, damage, losses, etc., and shall provide for delivery to store for stockpiling at the site. The basic rates shall be stated in local currency but payment will be made in the currency or currencies expended upon presentation of supporting documentation;
 - b) the additional percentage payment shall be quoted by the Bidder and applied to the equivalent local currency payments made under Sub-Para(a) above; and
 - c) the cost of hauling materials used on work ordered to be carried out as Day work from the store or stockpile on the site to the place where it is to be used will be paid in accordance with the terms for Labour and Constructional Plant in this Schedule.

Appendix-D to Bid

SCHEDULE OF DAYWORK RATES

II. Materials

Item No.	Description	Unit	Nominal Quantity	Rate (Rs) in Figure	Rate (Rs) in Words)	Extended Amount (Rs.)
1	2	3	4	5	6	7
D201	Cement, ordinary Portland or equivalent in bags	M:Ton	200			
D202	Mild Steel reinforcing bar upto 16mm diameter to BS 4449 or equivalent	M:Ton	100			
D203	Fine aggregate for concrete as specified in Clause _____	Cu:M	1,000			
D204	-----etc-----					
D222	Gelignite (Noble Special Gelatine 60 % or equivalent) including caps, fuse, wire and requisite accessories	M:Ton	10			
D223	Sub Total Allow _____ percent of subtotal for Contractor's overhead, profit, etc., in accordance with Paragraph 4(b) of Daywork Schedule _____ Total for Daywork: Materials _____ (Carried forward to Daywork Summary)					

Appendix-D to Bid

Daywork Constructional Plant

5. The Contractor shall be entitled to payments in respect of constructional plant already on Site and employed on Daywork at the basic rental rates entered by him in the Schedule of Daywork Rates for constructional plant. The said rates shall be deemed to include complete allowance for depreciation, interest, indemnity and insurance, repairs, maintenance, supplies, fuel, lubricants, and other consumables, and all overhead, profit and administrative costs related to the use of such equipment. The cost of drivers, operators and assistants will be paid for separately as described under the section on Day work labour.
6. In calculating the payment due to the Contractor for constructional plant employed on Daywork, only the actual number of working hours will be eligible for payment, except that where applicable and agreed with the Engineer, the travelling time from the part of the Site where the constructional plant was located when ordered by the Engineer to be employed on day work and the time for return journey thereto shall be included for payment.
7. The basic rental rates for constructional plant employed on Daywork shall be stated in Pakistani Rupees.

Appendix-D to Bid

SCHEDULE OF DAYWORK RATES

III. Constructional Plant

Item No.	Description	Unit	Nominal Quantity	Rate (Rs.) in Figure	Rate Rs.) in Words	Extended Amount (Rs.)
1	2	3	4		5	6
D301	Excavator ,face shovel or dragline:					
	1. Up-to and including 1 Cu.M.	Hr	500			
	2. Over 1 Cu.M to 2 Cu. M.	Hr	400			
	3. Over 2 Cu. M	Hr	100			
D302	Tractor (tracked) including bull or angle dozer:					
	1. Up-to and including 150 HP	Hr	500			
	2. Over 150 to 200 HP	Hr	400			
	3. Over 200 to 250 HP	Hr	200			
D303	Tractor with ripper:					
	1. Up-to and including 200 HP	Hr	400			
	2. Over 200 to 250 HP	Hr	200			
D304	-----etc-----					
	Total for Daywork: Constructional Plant _____ (Carried forward to Daywork Summary)					

Appendix-D to Bid

DAYWORK

Summary (Daywork)

		Amount (Rs.)
(I)	Total for day work: Labour	_____
(II)	Total for day work : Materials	_____
(III)	Total for day work: Constructional Plant	_____
Total for day work		_____
(Carried forward to Summary Page of Bill of Quantities)		

Appendix-D to Bid

BILL OF QUANTITIES**SUMMARY**

		Amount (Rs.)
Bill No. 1:	Earthworks/ Plinth and Foundation	
Bill No. 2:	Culverts and Bridges/ Ground Floor	
Bill No. 3:	Subsurface Drains/ Internal Water Supply and Sanitary Fittings	
Bill No. 4:	Subsurface Drains/Pipe Laying and Man holes/ Internal Water Supply and Sanitary Fittings	
Bill No. 5:	Tube wells and Pump Houses/ Internal Electrification	
Bill No. 6:	Miscellaneous Items	
Bill No. 7:	External Development	
Sub-Total of Bills		_____
Day work		_____
Bid Price		_____

Note: All Provisional Sums are to be expended in whole or, in part at the direction and discretion of the Engineer in accordance with Sub-Clauses 52.4 and 58.2 of the General Conditions of Contract Part- I.

Appendix-E to Bid

PROPOSED CONSTRUCTION SCHEDULE

Pursuant to Sub-Clause 43.1 of the General Conditions of Contract, the Works shall be completed on or before the date stated in Appendix-A to Bid. The Bidder shall provide as Appendix-E to Bid, the Construction Schedule in the bar chart (CPM, PERT or any other to be specified herein) showing the sequence of work items and the period of time during which he proposes to complete each work item in such a manner that his proposed programme for completion of the whole of the Works and parts of the Works may meet procuring agency's completion targets in days noted below and counted from the date of receipt of Engineer's Notice to Commence (Attach sheets as required for the specified form of Construction Schedule):

<u>Description</u>	<u>Time for Completion</u>
1) Whole Works	_____ days
2) Part-A	_____ days
3) Part-B	_____ days
4) _____	_____ days
5) _____	_____ days

Appendix-F to Bid

METHOD OF PERFORMING THE WORK

[The Bidder is required to submit a narrative outlining the method of performing the Work. The narrative should indicate in detail and include but not be limited to:

1. Organization Chart indicating head office and field office personnel involved in management and supervision, engineering, equipment maintenance and purchasing.
2. Mobilization in Pakistan, the type of facilities including personnel accommodation, office accommodation, provision for maintenance and for storage, communications, security and other services to be used.
3. The method of executing the Works, the procedures for installation of equipment and machinery and transportation of equipment and materials to the site.]

Appendix-G to Bid

LIST OF MAJOR EQUIPMENT – RELATED ITEMS

[The Bidder will provide on Sheet 2 of this Appendix a list of all major equipment and related items, under separate heading for items owned, to be purchased or to be arranged on lease by him to carry out the Works. The information shall include make, type, capacity, and anticipated period of utilization for all equipment which shall be in sufficient detail to demonstrate fully that the equipment will meet all requirements of the Specifications.]

Appendix-G to Bid

LIST OF MAJOR EQUIPMENT

Owned Purchased or Leased	Description of Unit (Make, Model, Year)	Capacity HP Rating	Condition	Present Location or Source	Date of Delivery at Site	Period of Work on Project
1	2	3	4	5	6	7
a. Owned						
b. To be Purchased						
c. To be arranged on Lease						

**Appendix-H to Bid
BH-1**

Category	Facilities / Requirements	Remarks / Responsibility
A. Site Offices (Client & Consultant)	- Weatherproof and air-conditioned site offices for Client and Consultant, including meeting room, drawing area, and toilets. - Fully equipped with electrical, water, and drainage utilities. - Minimum facilities: tables, chairs, filing cabinets, conference table, computers (Core i7+), printer, fax, projector (2000 lumens), and complete stationery.	Contractor to provide, maintain, and keep operational throughout construction and defect liability period.
B. Transport Facilities	- One (01) brand new 1000CC (AC) vehicle and one (01) brand new 800CC (AC) or equivalent rental car for site supervision. - Vehicles to be right-hand drive, brand new, and fully insured. - Contractor to provide qualified drivers, fuel (200Liters per amount or amount per month), lubricants, tires, maintenance, and replacement vehicle if unserviceable. - Vehicles to remain under control of the Engineer(Client) and revert to Contractor after DLP completion.	Prior to Ordering Vehicle, Approval will be taken from Client / Engineer after sharing detailed Specification, Model, Make, Color. After Approval, Vehicle will be supplied within 2 weeks of Engineer Work Order to Client. If not provided, Rs. 80,000/month per vehicle will be deducted and paid to Consultant by Client.
C. Camp Office (Constructor's Camp)	- Contractor to construct, operate, and maintain project camp including site office, staff accommodation, storage, workshops, and utilities as approved by Consultant. - Camp to include first-aid station, clean sanitary facilities, and follow Pakistan Labour Camp Rules. - No payment will be given to contractors—. - On completion, camp to be dismantled or not, decision will be made by Client via Consultant.	Contractor responsible for compliance, maintenance, and sanitation throughout project period.
D. Laboratory & Testing Facilities	- Field control lab with cube testing machine, sieve sets, soil and concrete testing apparatus, and weighing equipment. - Testing of concrete cubes (7 & 28 days), soils, water, and aggregates. - All tests must be approved and witnessed by Consultant before billing.	Contractor to bear all costs; Consultant to verify compliance.
E. Temporary Works & Utilities	- Temporary roads, scaffolding, hoardings, ramps, and signboards (2 Nos.) displaying project title and stakeholders. - Electrical, water, and drainage connections for site use.	To be maintained and removed by Contractor after completion.
F. Welfare & Safety Facilities	- First-aid facilities, fire extinguishers, safety signage, and PPE. - Clean latrines and drinking water for all staff. - Watch & ward and overall site safety arrangements.	Contractor responsible for maintaining hygienic and safe conditions at all times.
G. Accommodation for Client & Consultant	Furnished residential rooms (with attached bath & kitchen) for Client & Consultant representatives.	Full insurance and maintenance are mandatory.

DETAILS OF CONSTRUCTION CAMP AND HOUSING FACILITIES

The Contractor in accordance with Clause 6 of the Conditions of Contract shall provide description of his construction camp's facilities and staff housing requirements.

The Contractor shall be responsible for pumps, electrical power, water and electrical distribution systems, and sewerage system including all fittings, pipes and other items necessary for servicing the Contractor's construction camp.

The Bidder shall list or explain his plans for providing these facilities for the service of the Contract as follows:

1. Site Preparation (clearing, land preparation, etc.).
2. Provision of Services.
 - a) Power (expected power load, etc.).
 - b) Water (required amount and system proposed).
 - c) Sanitation (sewage disposal system, etc.).
 - d) Generator and Solar System
3. Construction of Facilities
 - a) Client, Consultant and Contractor's Office. Workshop and Work Areas (areas required and proposed layout, type of construction of buildings, etc.).
 - b) Warehouses and Storage Areas (area required, type of construction and layout).
 - c) Housing and Staff Facilities (Plans for housing for proposed staff, layout, type of construction, etc.).
4. Construction Equipment Assembly and Preparation (detailed plans for carrying out this activity).
5. Other Items Proposed (Security services, etc.).
6. Payments: No payment will be made for this work.

LIST OF SUBCONTRACTORS

I/We intend to subcontract the following parts of the Work to subcontractors. In my/our opinion, the subcontractors named hereunder are reliable and competent to perform that part of the work for which each is listed.

Enclosed are documentation outlining experience of subcontractors, the curriculum vitae and experience of their key personnel who will be assigned to the Contract, equipment to be supplied by them, size, location and type of contracts carried out in the past.

Part of Works (Give Details)	Subcontractor (With Complete Address)
1	2

Appendix-J to Bid

ESTIMATED PROGRESS PAYMENTS

Bidder's estimate of the value of work which would be executed by him during each of the periods stated below, based on his Programme of the Works and the Rates in the Bill of Quantities, expressed in thousands of Pakistani Rupees:

Quarter/ Year/ Period	Amounts (1,000 Rs.)
1	2
Ist Quarter	
2 nd Quarter	
3 rd Quarter	
4 th Quarter	
5 th Quarter	
6 th Quarter	
7 th Quarter	
8 th Quarter	
9 th Quarter	
Bid Price	

BK-1

Appendix-K to Bid

**ORGANIZATION CHART
FOR THE
SUPERVISORY STAFF AND LABOUR**

(To be filled in by the bidder)

(INTEGRITY PACT)

**DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC.
PAYABLE BY CONTRACTORS**

(For CONTRACTS WORTH RS. 10.00 MILLION OR MORE)

Contract No. _____ Dated _____

Contract Value: _____

Contract Title: _____

..... [name of Contractor] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative subdivision or agency thereof or any other entity owned or controlled by (GoS) through any corrupt business practice.

Without limiting the generality of the foregoing, [name of Contractor] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from procuring agency, except that which has been expressly declared pursuant hereto.

[name of Contractor] accept full responsibility and strict liability that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with procuring agency and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[name of Contractor] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to procuring agency under any law, contract or other instrument, be voidable at the option of procuring agency.

Notwithstanding any rights and remedies exercised by procuring agency in this regard, [name of Supplier/Contractor/Consultant] agrees to indemnify procuring agency for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to procuring agency in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Contractor] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from procuring agency.

.....
[Procuring agency]

[Contractor]

4. FORMS

**BID SECURITY
PERFORMANCE SECURITY
CONTRACT AGREEMENT
MOBILIZATION ADVANCE GUARANTEE/BOND**

BID SECURITY
(Bank Guarantee)

Security Executed on _____
(Date)

Name of Surety (Bank) with Address: _____
(Scheduled Bank in Pakistan)

Name of Principal (Bidder) with Address _____

Penal Sum of Security Rupees . _____ (Rs. _____)

Bid Reference No. _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bid and at the request of the said Principal (Bidder) we, the Surety above named, are held and firmly bound unto _____

(hereinafter called the 'procuring agency ') in the sum stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Bidder has submitted the accompanying Bid dated _____ for Bid No. _____ for _____ (Particulars of Bid) to the said procuring agency; and

WHEREAS, the procuring agency has required as a condition for considering said Bid that the Bidder furnishes a Bid Security in the above said sum from a Scheduled Bank in Pakistan or from a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan, to the procuring agency, conditioned as under:

- (1) that the Bid Security shall remain in force up to and including the date 28 days after the deadline for validity of bids as stated in the Instructions to Bidders or as it may be extended by the procuring agency, notice of which extension(s) to the Surety is hereby waived;
- (2) that the Bid Security of unsuccessful Bidders will be returned by the procuring agency after expiry of its validity or upon signing of the Contract Agreement; and
- (3) that in the event of failure of the successful Bidder to execute the proposed Contract Agreement for such work and furnish the required Performance Security, the entire said sum be paid immediately to the said procuring agency pursuant to Clause 15.6 of the Instruction to Bidders for the successful Bidder's failure to perform.

NOW THEREFORE, if the successful Bidder shall, within the period specified therefor, on the prescribed form presented to him for signature enter into a formal Contract with the said procuring agency in accordance with his Bid as accepted and furnish within twenty eight (28) days of his being requested to do so, a Performance Security with good and sufficient surety, as may be required, upon the form prescribed by the said procuring agency for the faithful performance and proper fulfilment of the said Contract or in the event of non-withdrawal of the said Bid within the time specified for its validity then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

PROVIDED THAT the Surety shall forthwith pay the procuring agency the said sum upon

first written demand of the procuring agency (without cavil or argument) and without requiring the procuring agency to prove or to show grounds or reasons for such demand, notice of which shall be sent by the procuring agency by registered post duly addressed to the Surety at its address given above.

PROVIDED ALSO THAT the procuring agency shall be the sole and final judge for deciding whether the Principal (Bidder) has duly performed his obligations to sign the Contract Agreement and to furnish the requisite Performance Security within the time stated above, or has defaulted in fulfilling said requirements and the Surety shall pay without objection the said sum upon demand from the procuring agency forthwith and without any reference to the Principal (Bidder) or any other person.

IN WITNESS WHEREOF, the above bounden Surety has executed the instrument under its seal on the date indicated above, the name and seal of the Surety being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

SURETY (Bank)

WITNESS:

1.

Corporate Secretary (Seal)

2.

Name, Title & Address

Signature

Name

Title

Corporate Guarantor (Seal)

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FORM OF PERFORMANCE SECURITY
(Bank Guarantee)

Guarantee No. _____
Executed on _____
Expiry date _____

[Letter by the Guarantor to the procuring agency]

Name of Guarantor (Bank) with address: _____
(Scheduled Bank in Pakistan)

Name of Principal (Contractor) with address: _____

Penal Sum of Security (express in words and figures) _____

Letter of Acceptance No. _____ Dated _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bidding Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal we, the Guarantor above named, are held and firmly bound unto the _____ (hereinafter called the procuring agency) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said procuring agency, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has accepted the procuring agency's above said Letter of Acceptance for _____
_____ (Name of Contract) for the _____
_____ (Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the procuring agency, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause 49, Defects Liability, of Conditions of Contract are fulfilled.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, _____ (the Guarantor), waiving all objections and defences under the Contract, do hereby irrevocably and independently guarantee to pay to the procuring agency without delay upon the procuring agency's first written demand without cavil or arguments and without requiring the procuring agency to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above,

against the procuring agency 's written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to procuring agency's designated Bank & Account Number.

PROVIDED ALSO THAT the procuring agency shall be the sole and final judge for deciding whether the Principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the procuring agency forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above-bounden Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Witness:

1. _____

Corporate Secretary (Seal)

2. _____

Name, Title & Address

Guarantor (Bank)

Signature _____

Name _____

Title _____

Corporate Guarantor (Seal)

CA-1

FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the _____ day of _____ (month) 20____ between

_____ (hereafter called the "procuring agency") of the one part and _____ (hereafter called the "Contractor") of the other part.

WHEREAS the procuring agency is desirous that certain Works, viz _____ should be executed by the Contractor and has accepted a Bid 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 after incorporating addenda, if any, except those parts relating to Instructions to Bidders shall be deemed to form and be read and construed as part of this Agreement, viz:
 - (a) The Contract Agreement;
 - (b) The Letter of Acceptance;
 - (c) The completed Form of Bid;
 - (d) Special Stipulations (Appendix-A to Bid);
 - (e) The Special Conditions of Contract – Part II;
 - (f) The General Conditions – Part I;
 - (g) The priced Bill of Quantities (Appendix-D to Bid);
 - (h) The completed Appendices to Bid (B, C, E to L);
 - (i) The Drawings;
 - (j) The Specifications.
 - (k) _____ (any other)
3. In consideration of the payments to be made by the procuring agency to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the procuring agency to execute and complete the Works and remedy defects therein in conformity and in all respects with the provisions of the Contract.

CA-2

4. Procuring agency hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

Signature of the Contactor

Signature of Procuring agency

(Seal)

(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

Witness:

(Name, Title and Address)

(Name, Title and Address)

MOBILIZATION ADVANCE GUARANTEE/BOND

Guarantee No. _____ Date _____

WHEREAS _____ (hereinafter called the 'procuring agency ') has entered into a Contract for _____
 _____ (Particulars of Contract)
 with _____ (hereinafter called the "Contractor").

AND WHEREAS, the procuring agency has agreed to advance to the Contractor, at the Contractor's request, an amount of Rupees _____ (Rs _____) which amount shall be advanced to the Contractor as per provisions of the Contract.

AND WHEREAS, the procuring agency has asked the Contractor to furnish Guarantee to secure the mobilization advance for the performance of his obligations under the said Contract.

AND WHEREAS, _____
 _____ (Scheduled Bank in Pakistan or Insurance Company acceptable to the Employer)
 (hereinafter called the "Guarantor") at the request of the Contractor and in consideration of the procuring agency agreeing to make the above advance to the Contractor, has agreed to furnish the said Guarantee.

NOW, THEREFORE, the Guarantor hereby guarantees that the Contractor shall use the advance for the purpose of above mentioned Contract and if he fails and commits default in fulfilment of any of his obligations for which the advance payment is made, the Guarantor shall be liable to the procuring agency for payment not exceeding the aforementioned amount.

Notice in writing of any default, of which the procuring agency shall be the sole and final judge, on the part of the Contractor, shall be given by the procuring agency to the Guarantor, and on such first written demand, payment shall be made by the Guarantor of all sums then due under this Guarantee without any reference to the Contractor and without any objection.

This Guarantee shall remain in force until the advance is fully adjusted against payments from the Interim Payment Certificates of the Contractor or until _____ whichever is earlier.

(Date)

The Guarantor's liability under this Guarantee shall not in any case exceed the sum of Rupees _____ (Rs _____).

This Guarantee shall remain valid up to the aforesaid date and shall be null and void after the aforesaid date or earlier if the advance made to the Contractor is fully adjusted against payments from Interim Payment Certificates of the Contractor provided that the Guarantor agrees that the aforesaid period of validity shall be deemed to be extended if on the above mentioned date the advance payment is not fully adjusted.

GUARANTOR

1.

Signature

2.

Name

3.

Title

WITNESS

1.

Corporate Secretary (Seal)

2.

(Name Title & Address)
- _____

Corporate Guarantor(Seal)

[Notes on the Conditions of Contract]

The Conditions of Contract comprise two parts:

(a) Part I - General Conditions of Contract

(b) Part II - Special Conditions of Contract

Over the years, a number of “model” General Conditions of Contract have evolved. The one used in these Standard Bidding Documents was prepared by the International Federation of Consulting Engineers (Federation Internationale des Ingenieurs-Conseils, or FIDIC), and is commonly known as the FIDIC Conditions of Contract. (The used version is the fourth edition March 2006).

The FIDIC Conditions of Contract have been prepared for an ad measurement (unit price or unit rate) type of contract, and cannot be used without major modifications for other types of contract, such as lump sum, turnkey, or target cost contracts.

The standard text of the General Conditions of Contract chosen must be retained intact to facilitate its reading and interpretation by bidders and its review by the procuring agency. Any amendments and additions to the General Conditions, specific to the contract in hand, should be introduced in the Particular Conditions of Contract.

The use of standard conditions of contract for all civil Works will ensure comprehensiveness of coverage, better balance of rights or obligations between procuring agency and Contractor, general acceptability of its provisions, and savings in time and cost for bid preparation and review, leading to more economic prices.

The FIDIC Conditions of Contract are copyrighted and may not be copied, faxed, or reproduced. Without taking any responsibility of its being accurate, Pakistan Engineering Council with prior consent of FIDIC Secretariat, has reproduced herein the FIDIC General Conditions of Contract for reference purpose only which cannot be used by the users for preparing their bidding documents. The bidding document may include a purchased copy, the cost of which can be retrieved as part of the selling price of the bidding document. Alternatively, the FIDIC Conditions of Contract can be referred to in the bidding documents, and the bidders are advised to obtain copies directly from FIDIC.*

* Add the following text if the bidding documents, as issued, do not include a copy:

“Copies of the FIDIC Conditions of Contract can be obtained from:

FIDIC Secretariat

P.O. Box 86

1000 Lausanne 12

Switzerland

e-mail: fidic.pub@fidic.org – FIDIC.org/bookshop]

5. PART- I : GENERAL CONDITIONS OF CONTRACT

**6. PART-II: SPECIAL/PARTICULAR CONDITIONS OF
CONTRACT**

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PART II - SPECIAL/PARTICULAR CONDITIONS OF CONTRACT

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- 20.4 Obtaining Dispute Board's Decision
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- 20.6 Arbitration
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PART II - PARTICULAR CONDITIONS OF CONTRACT

1.1 Definitions

1.1.1.4 "Form of Bid" is synonymous with "Letter of Tender".

1.1.1.5 "Bid" is synonymous with "Tender".

1.1.1.10 "Bidding" is synonymous with "contract".

The following paragraph is added:

1.1.1.11 "Programme" means the programme to be submitted by the contractor in accordance with Sub-Clause 8.3 and any approved revisions thereto.

1.12.2 "Employer" is synonymous with "Procuring Agency"

1.1.2.9 "DB" is synonymous with "Committee".

1.1.3.1 Replace 28 days by 7 days in LCB and 15 days in ICB..

1.1.3.7 "Defects notification Period" is synonymous with "Defects liability Period".

1.15 Inspections and Audit by the Bank

Deleted

Procuring Agency can retain this clause with or without changes, in case of contracts under Project, Bank and donor's programme.

1.5 Priority of Documents

Delete the documents listed at (a) to (i) of the Sub-Clause and substitute with the following:

- a) The Contract Agreement;
- b) The Letter of Acceptance;
- c) Special Stipulations (Appendix-A to Bid);
- d) The Particular Conditions of Contract – Part II;
- e) Special Provisions;
- f) The General Conditions of Contract – Part I;
- g) The completed Form of Bid
- h) The completed Appendices to Bid
- i) The Specifications, Technical Provisions;
- j) The Drawings;
- k) The Estimates; (Schedule -B)

If an ambiguity or discrepancy is found in the documents, the Engineer shall issue any

necessary clarification or instruction.

1.6 Contract Agreement.

The Text is deleted and replaced with following:

The Contract Agreement, Performance Security/Guarantee, Insurance Policies / Bonds and other Bond/Guarantees/Sureties shall be prepared and completed at the cost of the Contractor. The Contractor shall prepare six (6) copies of the Contract Document (including all the volumes / documents listed in the Contract Agreement) along-with copies of all the bonds/Guarantees/Sureties, at his cost and shall submit four (04) of the same to the Employer and two (02) to the Engineer.

3.1 Engineer's Duties and Authority.

The following paragraph is added after Sub-Clause 3.1 (d) the Engineer shall obtain the specific approval of the Employer before carrying out his duties in accordance with the following Clauses:

- i. Consenting to the sub-letting of any part of the Works under Sub-Clause 4.4 "Subcontracting".
- ii. Certifying additional cost determined under Sub-Clause 4.12 "Not Foreseeable Physical Obstructions or Conditions".
- iii. Any action under Clause 4.2 "Performance Security" and Sub-Clauses 18.1, 18.2, 18.3, 18.4 "Insurance" of sorts.
- iv. Any action under Sub-Clause 8.8 "Suspension".
- v. Any action under Sub-Clause 8.4 "Extension of Time for Completion."
- vi. Any action under Sub-Clause 8.7 "Delay Damages.
- vii. Issuance of "Taking Over Certificate" under Clause 10.
- viii. Issuing a Variation Order and Fixing rates or prices under Clause 13,except:
 - a) in an emergency* situation, as stated here below, or
 - b) if such variation would increase the Contract Price by less than the amount stated in the Appendix-A to bid.
- ix. Extra payment as a result of Contractor's claims under Sub-Clause 20.1.
- x. Release of Retention Money to the Contractor under Sub-Clause 14.9 "Payment of Retention Money".
- xi. Issuance of "Final Payment Certificate" under Sub-Clause 14.13.
- xii. Issuance of "Performance Certificate" under Sub-Clause 11.9.
- xiii. Approval of all materials to be used at the Project or approval of sample submittals and source

4.2 Performance Security

The following Sub-Clause is added:

The Contractor shall provide Performance Security to the Employer in the prescribed form. The said Security shall be furnished or caused to be furnished by the Contractor within fourteen (14) days after the receipt of the Letter of Acceptance. The Performance Security shall be of an amount equal to 5% of the Contract Price stated in the Letter of Acceptance. Such Security shall be in the form of bank guarantee from Scheduled Bank in Pakistan acceptable to the employer. The cost of complying with requirements of this Sub-Clause shall be borne by the Contractor.

4.21 Progress Report

The following Sub-Clause is added:

- a) For purposes of Sub-Clause 14.1, the Contractor shall submit to the Engineer detailed programme for the following:
 - (1) Execution of Works (Detailed Methodology);
 - (2) Labour Employment and Induction;
 - (3) Material Procurement;
 - (4) Plant, Machinery and Equipment (including formwork) Procurement and Induction;
 - (5) Schedules for submittals of shop drawings/bar-bending drawings, samples of material/literature for approval, any additional or supplementary details/drawings to be provided by the Engineer;
 - (6) Site Safety Plan and Measures; and
 - (7) Other details as required by the Engineer;
- (b) During the period of the Contract, the Contractor shall submit to the Engineer not later than the 8th day of the following month, five (05) copies each of Monthly Progress Reports covering:
 - (1) A Construction Schedule indicating the monthly progress in percentage (Planned verses Actual);
 - (2) Description of all work carried out since the last report;
 - (3) Description of the work planned for the next sixty three (63) days sufficiently detailed to enable the Engineer to determine his programme of inspection and testing;

- (4) Monthly summary of daily job record;
 - (5) Photographs to illustrate progress;
 - (6) Information about problems and difficulties encountered, if any, and proposals to overcome the same;
 - (7) Variance in planned progress versus actual achieved progress to be explained with reasons;
 - (8) Measures and additional resources to be taken/deployed to make-up the delay if any; and
 - (9) Site safety Report.
- (c) During the period of the Contract, the Contractor shall keep a daily record of the work progress, which shall be made available to the Engineer as and when requested. The daily record shall include particulars of weather conditions, number of men working, deliveries of materials, quantity, location and assignment of Contractor's equipment and items of work undertaken.

4.3 Contractor's Representative

The following text is to be added after last line:

The contractor's authorized representative and his other professional engineers working at site shall register themselves with the Pakistan Engineering Council.

The Contractor's authorized representative shall be fluent in the English language. Alternately an interpreter with ability of English language shall be provided by the Contractor on full time basis.

The Contractor's authorized representative at Site shall be authorized to exercise adequate administrative and financial powers on behalf of the Contractor so as to achieve completion of the Works as per the Contract.

6.10 Records of Contractor's Personnel and Equipment

The following paragraph is added:

The Contractor shall, upon request by the Engineer at any time in relation to any item of hired Contractor's Equipment, forthwith notify the Engineer in writing the name and address of the Owner of the equipment and shall certify that the agreement for the hire thereof contains a provision in accordance with the requirements set forth above.

The following sub-clause 7.9 is added in (GCC):

7.9 Use of Pakistani Materials and Services

The contractor shall, so far as may be consistent with the contract, make the maximum use of materials, supplies, plant and equipment indigenous to or produced or fabricated in Pakistan and services, available in Pakistan provided such materials, supplies, plant, equipment and services shall be of required standard.

8.1 Commencement of Works

The last para is deleted and substituted with the following:

The contractor shall commence the works on site within the period named in Appendix-A to Bid from the date of receipt by him from the Engineer of a written Notice to Commence. Thereafter, the contractor shall proceed with the works with due expedition and without delay.

8.11 Prolonged Suspension

Replace 84 days by 120 days.

8.3 Programme

The following text is to be added after [Commencement of Works]

The Contractor shall prepare and submit the programme of the work as per cash flow provided by the Employer and which shall be acceptable to the Engineers within fourteen (14) days of the receipt of Letter of Acceptance for agreement of the Engineer and approval of the Employer. This programme shall identify and highlight those activities which are on the critical path.

The time schedule may be adjusted from time to time but the contractual completion date shall remain un-changed in accordance with the bid documents unless extensions of time are approved in accordance with the contract.

The programme should be computerized and drawn-up on the critical path method. Progress reporting by the Contractor should be supported, on a monthly basis with an update analysis of the progress including a statement on items, which are or are to become critical to the progress of the Work, along with the proposal on how the Contractor intends to alleviate the situation. Programme should include complete sequence of activities along with the detailed Cash Flow..

OR

The programme shall be submitted in the either form of:

- a) Bar Chart identifying the critical activities.
- b) Critical Path Method (CPM) identifying the critical path/activities.
- c) Program Evaluation and Review Techniques (PERT).

(Procuring Agency to select appropriate one)

12.3 Evaluation

The para 12.3 (a)(i) is deleted and substituted with the following:

The measured quantity of the item is changed by more than 35% from

the quantity of this item in the Bill of Quantities.

The following Sub-Clause 12.3(c) & (d) is added

- (c) *If at the end of the project, it is found that the variations amount to more than 25% of the contract price (as adjusted), an addition or omission to the contract sum may be agreed or determined by the Engineer in respect of the Contractor's overheads.*
- (d) *The approval/finalization of rates of all variations shall not relieve the Contractor of his obligations under the Contract. The Contractor shall neither stop the work nor slow down the progress of the Works in awaiting the approval of rates of all variations.*

13.1 Right to vary

In the last line of Para, after the word "Variation", the word "in writing" is added.

13.3 Variation procedure

In the tenth line, after the words "as soon as practicable" following is added: "and within a period not exceeding one-eighth of the completion time"

13.7 Adjustment for changes in Legislation

Deleted

13.8 Adjustment for changes in cost

This clause will be applicable for Foreign funded Project/ Schemes or ICB Contracts (locally & foreign funded) only.

The following provision is added for Local funded Project/ Schemes/National Competitive Bidding Contracts:

The amounts payable to the Contractor, pursuant to Sub-Clause 14.6, shall be adjusted in respect of the rise or fall in the cost of materials only, and will be paid to the contractor on those items mentioned in the Appendix –C (B).

Similarly reduction in the cost of these materials will also be recovered from the contractor accordingly .

14.1 The Contract Price

Sub-para (d) is deleted.

14.2 Advance Payment

The Text is deleted and replaced with following:

Advance Payment/Mobilization Advance shall be made available to the Contractor by the procuring agency on following conditions: Mobilization Advance/Advance Payment (i)

Mobilization advance up to 10 % of the Contract Price may be paid by the procuring agency to the Contractor on the works costing Rs2.5 million or above on following conditions:

a. on submission by the Contractor of a mobilization advance guarantee for the full amount of the advance in the specified form, from a Scheduled Bank in Pakistan, acceptable to the procuring agency;

b. contractor shall pay interest on the mobilization advance at the rate of 10% per annum on the advance; and

(ii) This Advance including the interest shall be recovered in 5 equal installments from the 5 R.A bills and in case the number of bills is less than 5 then 1/5 of the advance inclusive of the interest thereon shall be recovered from each bill and the balance together with interest be recovered from the final bill. It may be insured that there is sufficient amount in the final bill to enable recovery of the Mobilization Advance.

14.5 Plants and Materials intended for Works

Add the following paragraph as sub-clause 14.5 (d) for Secured Advance on non – perishable materials and sub-clauses (a), (b) and (c) will be applicable for plants only :-

(I) The Contractor shall be entitled to receive from the procuring agency Secured Advance against an INDENTURE BOND in Public Works Account Form No.31 (Fin. R. Form No. 2) acceptable to the procuring agency of such sum as the Engineer may consider proper in respect of non-perishable materials brought at the site but not yet incorporated in the Permanent Works provided that:

(i) The materials are in accordance with the specifications for the permanent works; (ii) Such materials have been delivered to the site and are properly stored and protected against loss or damage or deterioration to the satisfaction and verification of the Engineer/Assistant Engineer but at the risk and cost of the Contractor;

(iii) The Contractor's records of the requirements, orders, receipts and use of materials are kept in a form approved by the Engineer, and such records shall be available for inspection by the Engineer;

(iv) The Contractor shall submit with his monthly statement the estimated value of the materials on site together with such documents as may be required by the Engineer for the purpose of valuation of materials and providing evidence of ownership and payment therefore;

(v) Ownership of such materials shall be deemed to vest in the procuring agency and these materials shall not be removed from the site or otherwise disposed of without written permission of the procuring agency;

(vi) The sum payable for such materials on site shall not exceed 75 % of the (i) landed cost of imported materials, or (ii) ex-factory / ex-warehouse price of locally manufactured or produced materials, or (iii) market price of stands other materials;

(vii) Secured Advance shall not be allowed unless and until the previous advance, if any, is fully recovered;

(viii) Detailed account of advances must be kept in part II of running account bill or a separate statement; and

(ix) Secured Advance may be permitted only against materials/quantities anticipated to be consumed / utilized on the work within a period of 3 months from the date of issue of secured advance and in no case for full quantities of materials for the entire work/contract.

(II) Recovery of Secured Advance:

Secured Advance paid on non-perishable materials to the Contractor under the above provisions shall be effected from the monthly payments on actual consumption basis, but not later than period specified in the rules not more than three months (even if unutilized)

14.8 Delayed Payment

Second Para is replaced with following text:

In the event of the failure of the Procuring Agency to make the payment within the time stated, the procuring agency shall pay to the contractor in case of ICB contracts only, the compensation at rate of KIBOR+2% per annum in local currency and Libor+1% for foreign currency, upon all sums to be paid from the date of which the same would have been paid.

14.16 Withholding of Payment

The following Sub-Clause 14.16 is added

- a) The Employer on the recommendations of the Engineer may withhold the whole or a part of any payment due to the Contractor if it is necessary in Employer's opinion to protect himself against losses on account of the following reasons.
 - i) Defective work not rectified.
 - ii) Non-fulfillment of any due demand and guarantee or renewal of any guarantee or surety.
 - iii) Claims of third parties raised against the Employer caused through the fault of the Contractor in connection with the Works.
 - iv) Damage caused by the Contractor or his personnel or any sub-contractor, to the Employer, or to a third party on the site.
 - v) Non-fulfillment of the Contract by the Contractor.
 - vi) Non-fulfillment of Contractual Obligation towards providing facilities for the Employer or the Engineer, submittal of Shop Drawings, Bar-bending drawings/schedules, Samples, erection of Mock-up samples, As-built drawings, etc.
- b) After the reasons for withholding of payments have been eliminated, to the satisfaction of the Employer and the Engineer, payments to the Contractor will be made by the Employer on the recommendations of the Engineer.
- c) In case of non-performance of Contractor, the employer may execute the work at the Contractor's risk and cost.

15.2 Termination by Employer

The following Para is added at the end of the sub-clause:

Provided further, that in addition to the action taken by the procuring agency against the Contractor under this Clause, the procuring agency may also refer the case of default of the Contractor to Pakistan Engineering Council for punitive action under the Construction and Operation of Engineering Works Bye-Laws 1987, as amended from time to time.

15.6 Corrupt and fraudulent Practices.

The following text is to be added as 3rd paragraph:

Successful Contractor has to provide Integrity Pact (for contracts worth Rs.10.0 million and above). If the Contractor or any of his Subcontractors, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Contractor as Appendix-L to his Bid, then the procuring agency shall be entitled to:

(a) recover from the Contractor an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by the Contractor or any of his Subcontractors, agents or servants;

(b) terminate the Contract; and

(c) recover from the Contractor any loss or damage to the procuring agency as a result of such termination or of any other corrupt business practices of the Contractor or any of his Subcontractors, agents or servants.

The termination under sub-para (b) of this Sub-Clause shall proceed in the manner prescribed under sub-clauses 15.2 & 15.5 and the payment under Sub-Clause 15.4 shall be made after having deducted the amounts due to the procuring agency under Sub-Para (a) and (c) of this Sub-Clause.

16.4 Payment on Termination

Sub-paragraph (c) is deleted.

17.3 Employer's/ Procuring Agency's Risks

Sub-Clause 17.3 (h) is deleted.

The following text is added in Clause 18.1 (GCC):

18.1 General Requirements for Insurance

The contractor shall be obliged to place all insurances relating to the contract (including works, equipment, persons and property , third party insurance, accident or injury to workmen, C.A.R,

but not limited to, the insurances referred to in Clauses 18.1,18.2,18.3,18.4) with Insurance Company having at least AA rating from PACRA/JCR in favour of the Employer//Procuring Agency valid for a period 28 days after beyond the Bid Validity date/Defect's liability Certificate. Costs of such insurances shall be borne by the contractor.

19.6 Optional Termination, Payment and release by the Employer

Sub-clauses (c), (d) and (e) are deleted.

20.6 Arbitration

Text will be replaced as under;

Any dispute in respect of which:

(a) the decision, of the Dispute Board has not become final and binding pursuant to sub clause 20.2, and (b) amicable settlement has not been reached within the period stated in sub-clause 20.5, shall be finally settled, under the provisions of the Arbitration Act, 1940 as amended or any statutory modification/Rules of Conciliation And Arbitration PEC Islamabad or re-enactment thereof for the time being in force.

The place of arbitration shall be **Karachi** in Sindh Province.

7. SPECIAL PROVISIONS

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SPECIAL PROVISIONS

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SPECIFICATIONS – SPECIAL PROVISIONS

1. GENERAL

- 1.1 Specifications – Special Provisions shall form an integral part of Bidding & Contract documents.
- 1.2 The Contractor shall notify all sub-contractors of the provisions of these Special Provisions

2. SITE

The Employer will give to the Contractor possession of the area designated and defined as the Site and shown on the drawing as may be required to implement as much of the Works, when the Engineer's Notice to Commence the Works is given.

3. CODES, STANDARDS AND CERTIFICATES

A. Applicable Standards

Except as otherwise provided by these Specifications or the Drawings, all materials, equipment and fabrication and testing thereof shall conform to the latest applicable standards and codes referred in the Specifications by use of the abbreviations explained below:

ACI	-	American Concrete Institute (USA)
AISI	-	American Iron and Steel Institute (USA)
AISC	-	American Institute of Steel Construction (USA)
ASTM	-	American Society for Testing and Materials (USA)
AASHTO	-	American Association of State Highway & Transportation Officials.
BS	-	British Standards (UK)
PS	-	Pakistan Standards (Pak)

If the Contractor, at any time and for any reason, wishes to deviate from the above standards or desires to use material or equipment not covered by the above standards, he shall state the exact nature of the changes, the reason for making the change and shall submit complete specifications of the materials and equipment to the Engineer for approval.

B. Standards other than those Specified

Where requirements for materials or equipment are specified by reference to a standard which has its origin in one country, it is not the intention to restrict the requirements solely to that standard and that country. Other standards, including standards of other countries, will be accepted provided the requirements thereof, in the sole opinion of the Engineer, are at least equal to the requirements of the standard specified. The Contractor may propose to the Engineer an equivalent standard other than that specified, in which case he shall submit the proposed standard and all other information required and shall submit written proof that his proposed standard is equivalent in all significant respects to the standard specified. All submissions must be made in the English language.

C. Codes and Standards at Site

The Contractor shall supply and have at his site office:-

- a) Copies of all latest editions of codes and standards referred to in these Specifications or equivalent codes and standards as approved by the Engineer.
- b) Catalogues and published recommendations from manufacturers supplying products and materials for the project.

- c) The Contractor shall provide manufacturer's or supplier's materials which must meet the requirements of a specific code or standard as stated in these Specifications.

4. UNITS OF MEASUREMENTS

The FPS System of Units shall be used throughout the Project.

5. EQUIPMENT AND TOOLS

The Contractor shall provide at his cost equipment and tools, adequate and befitting to the nature, magnitude and size of this Contract, in strict compliance with the requirements of the General Conditions of Contract, Conditions of Particular Applications and Technical Specifications.

6. STORAGE & HANDLING FACILITIES

The Contractor shall make his own arrangements for providing the necessary space for the storage of plant, equipment and materials and for Contractor's temporary office, in and around the site of works, during the currency of the Contract.

7. FIELD LABORATORY AND TESTING

7.1 General

The Contractor shall provide and maintain a field laboratory equipped with approved equipment to perform all the tests required by the Engineer. The quality control testing shall be performed by the Contractor's competent personnel in accordance with a site testing and quality control programme to be established by the Contractor and approved by the Engineer. The Engineer may however, require certain tests to be performed in any other laboratory designated by him.

The Contractor shall provide laboratory helpers to the Engineer for testing. The laboratory shall be run by a qualified material Engineer and Laboratory Technician to be employed by the Contractor.

The Field Laboratory, including all equipment and staff shall be placed at the disposal and direction of the Engineer during the Contract.

The Contractor shall keep a complete record of all quality tests performed on site.

All quality control and tests shall be carried out in accordance with applicable standards and codes.

7.2. Field Laboratory Equipment Requirements

The Laboratory shall be equipped with new unused and latest Equipment to perform tests as per Technical Specifications and General Conditions of Contract. Additional equipment/materials shall be supplied by the Contractor as and when required by the Engineer to perform any specified test, at no additional cost to the Employer.

The laboratory shall also be equipped with new unused furniture, fittings and fixtures. If any equipment, furniture, fitting or fixture becomes unserviceable for any reason what so ever, the Contractor shall promptly replace the same as and when directed by the Engineer.

7.3. Testing Laboratory Certificates

The Engineer may accept a certificate from a commercial testing laboratory, satisfactory to him, certifying that the product has been tested within a period acceptable to the Engineer and that it conforms to the requirements of these Specifications.

7.4. Method of Payment

The cost of providing running and maintenance of the laboratory, equipment, materials and staff and all other tests to be performed in any other laboratory designated by the Engineer shall be deemed to be included in the price quoted by the Contractor including transport for engineer and no separate claim for payment on this account shall be entertained by the Engineer. Further more the cost of any additional laboratory, field and shop tests required through the resubmission of samples because of failure of compliance with Specifications shall be borne by the Contractor.

In case the Contractor does not provide the specified equipment and testing facility, cost of testing plus 100 percent overheads shall be recovered from his bills.

8. SURVEYING INSTRUMENTS

8.1 General

The minimum quantity of survey equipment is stated below which shall be available with the Contractor at site of Works along with qualified Surveyors and Survey Helpers. The equipment shall be maintained throughout the Contract Period and replaced by the Contractor in case of damage or loss. The survey equipment shall be made available to the Engineer when requested. All surveying equipment shall be in good working condition.

8.2 Surveying Equipment Required

The Contractor shall provide and maintain the following surveying equipment at site.

- | | | |
|----|---|--------|
| a) | Electronic distance measuring device complete with (400 grades) Universal Theodolite with data logger, aiming head and standard equipment supplied by the manufacturer, including tripod, control unit stand, batteries, charging unit, pole reflector, single prism reflector, three, six and nine prism reflectors complete with tripods and Traverse Equipment for Theodolite. | 1 No. |
| b) | Automatic Levels with tripods | 2 Nos. |
| c) | Steel measuring tapes 50 m long | 2 Nos. |
| d) | Steel measuring tapes 20 m long | 2 Nos. |
| e) | Staff | 2 Nos. |
| f) | All other miscellaneous tools, equipment and materials required in surveying. | |

9. APPROVAL OF MATERIALS

9.1 Submission of Samples and Data

- 9.1.1 The Contractor shall furnish for approval of the Engineer with reasonable promptness all samples as directed by the Engineer or specifically called for in the Specifications and in accordance with the time schedule provided in the schedule of submittals. The Engineer shall check and approve such samples with reasonable promptness only for conformance with the design concept of the Works and for compliance with the information given in the Contract Documents. All work shall be in accordance with approved samples.
- 9.1.2 Samples shall be furnished so as not to delay fabrication, allowing the Engineer reasonable time for consideration of the sample submitted.
- 9.1.3 The Contractor shall erect Mock-up samples of finished items where specifically called for in the documents or as directed by the Engineer.

The Mock-up samples shall be preserved/protected by the Contractor till the end of the project or as directed by the Engineer.

- 9.1.4 No acceptance or approval of any Shop Drawings or sample, or any indication or request by the Engineer on any Shop Drawings shall constitute an authorization for any increase in the Contract Sum.

10.1 Inspection

All material and all work performed under this Contract will be subject to inspection by the Engineer at all times and in all states of completion both off-Site and on-Site. The Contractor shall furnish promptly without additional charge, all facilities, labour and materials reasonably needed for performing such inspection and testing as may be required by the Engineer.

The Owner reserve the right to enter upon the site at all times and the contractor or his representatives shall extend them all the cooperation for inspection of the quality and the progress of the Construction works

10.2 Approved Sample at Site

The Contractor shall, at all times, keep on the Site approved samples. All such samples shall be made available to the Engineer/Employer as and when required.

11. BAR BENDING DRAWINGS/SCHEDULE

Bar bending (reinforcement bars) drawings with schedule of all structural drawings shall be prepared by the Contractor and submitted in triplicate to the Engineer for approval.

12.1 Drawings to Be Furnished By the Contractor

The Contractor shall submit to the Engineer for review, such drawings as are required under the Contract, sufficiently in advance of the work intended to be executed.

12.2.1 Reinforcement Drawings

Reinforcement placement drawings and bar bending schedules (to be provided by the Contractor as per clause 11 above) of all RCC work shall be prepared by the Contractor and submitted in triplicate to the Engineer for approval, sufficiently in advance of the works in which they are intended to be used.

12.3.2 Shop Drawings

- (a) The Contractor shall submit to the Engineer for review three (3) copies of all drawings to be issued for construction; based on data, requirements, dimensions, details, and design provided in the drawings issued by the Engineer. Such drawings shall be submitted at least twenty-eight (28) days before they are required for use.

12.3.3 As-Built Drawings

The Contractor shall, at all times, keep on Site a separate set of prints of all drawings on which all significant changes between the work shown on the Drawings and that which is actually constructed, shall be noted neatly, accurately and promptly as the work progresses.

The Contractor shall furnish to the Engineer 6 copies, one reproducible and a soft copy on CD of all drawings amended to comply with the Works as built. The price of such Drawings and copies (including CD) shall be deemed to be included in the Contract Price.

13. PROTECTION OF THE WORKS

The Contractor shall whenever necessary cover up and protect the works from damage by his own or other workmen performing subsequent operation.

14. RESTORATION AND CLEANING

Upon completion of the works the Contractor shall restore all items covered by the Contract to the satisfaction of the Engineer. Special care shall be taken by the Contractor that the roads and right of ways around the Site are not damaged or blocked to traffic during the period of Construction activities at Site. Should any of the roads are damaged due to any operation of the Contractor or his Sub-contractors, the same shall be immediately repaired by the Contractor. If the traffic on the roads is blocked due to any movement of Contractors machinery or equipment, the Contractor shall make alternate arrangement/diversions for the flow of traffic and maintain necessary personnel to control/monitor the same.

The Contractor shall do regular cleaning and clear away all rubbish and excess materials that may accumulate from time to time on completion and before handing over.

15. SITE OFFICE AND TEMPORARY FACILITIES TO BE PROVIDED BY THE CONTRACTOR

15.1 Contractor's Office, Facilities Etc.

The Contractor shall establish and maintain a Site office. The Contractor shall provide all facilities in connection with the execution, completion, of the Works, remedying defects therein and maintenance of the utilities services. The facilities shall not be limited to the Contractor's Site Office, labour camps, work yard and storage areas, temporary water supply, waste water disposal, temporary electricity, medical unit, temporary roads, fire protection and fire fighting equipment etc. The Contractor shall be solely responsible for arranging all utilities and the Contractor shall setup, maintain and operate an architectural and engineering facility at site with adequate number of technical and support staff as well as equipment required for particular nature of job covered under the Contract to prepare drawings/shop drawings for approval of the Engineer.

The Contractor shall make arrangements for his own camp, workshops, yards, storage areas, and areas for erection of equipment, offices within the site area available at site.

15.2 Temporary Roads

The Contractor shall prepare and maintain such temporary roads as may be necessary, from the site to the nearest road and also within the plot. Such roads shall be positioned strictly in accordance with the Engineer's instructions and the Contractor shall reduce or control any dust nuisance by regularly spraying water and compaction as directed.

15.3 Temporary Services

The Contractor shall make all the necessary arrangements for a temporary electricity service, pay all expense in connection with the installation, operation and removal thereof and pay the costs of electricity consumed by all trades, such as Electricity, water, gas, etc. The Contractor shall take all responsibility for their maintenance, upkeep, further connections for his use, etc. and shall bear all costs in this regard. Furthermore the Contractor shall also be responsible for the payment of consumption charges directly to the concerned authority/agency/department. If the Contractor requires the connection(s) to be up-graded or enhanced he shall do so on his own and all charges in this regard shall be borne by the Contractor.

15.3.1 Temporary Water Supply

The Contractor shall supply in sufficient quantity all necessary potable and other water for construction purposes for all trades at points within a reasonable distance of any building being constructed. The Contractor shall make

arrangements and pay charges for water service installation, maintenance and removal thereof, and pay the costs of water for all trades.

At completion of the work, the temporary water services equipment and piping shall be removed by the Contractor at his own expense.

15.3.2 Temporary Electricity

The Contractor shall make all the necessary arrangements for a temporary electricity service, pay all expense in connection with the installation, operation and removal thereof and pay the costs of electricity consumed by all trades. If the Contractor is un-able to arrange a temporary electrical connection then he shall arrange and furnish an Electric Power Generating set at site and maintain the generating set in perfect working condition through-out the duration of Contract. The generating power of the set shall be sufficient to operate all plant and equipment as well as the camps and offices of the Contractor and the offices of the Engineer/Employer, during construction at site. Should the set fail to meet the required demand at site or fail to function or operate, the Contractor shall immediately replace the same with other generating set/sets to the satisfaction of the Employer as well as the Engineer.

A temporary lighting system shall be furnished, installed and maintained by the Contractor as required to satisfy the minimum requirements for safety and security and to the satisfaction of the Engineer.

At completion of construction work, temporary electricity services shall be removed by the Contractor at his own expense.

15.3.3 Waste Disposal

The Contractor shall make such temporary provisions as may be required in order to dispose of any chemicals, fuels, oils, grease, bituminous materials, waste and soil waste and the like without causing pollution to either the site or the environment. Disposal of any materials, wastes, effluent, garbage, oil, grease, chemicals and the like shall be in areas specified by the concerned local authority proposed by the Contractor and subject to the approval of the Engineer. If any waste material is dumped in unauthorized areas the Contractor shall remove the material and restore the area to the condition of the adjacent undisturbed area. If necessary, contaminated ground shall be excavated, disposed off as directed by the Engineer and replaced with suitable fill material compacted and finished with topsoil all at the expense of the Contractor.

15.4 Sign Board

The Contractor shall erect and maintain at the Site in a location to be approved by the Engineer three (3) Sign Boards of dimensions approved by the Engineer. The Sign Boards shall be made of metal. It shall be mounted on steel posts securely anchored and braced. The Contractor shall paint on the Sign Boards, the name of the Works, and the names of the Employer, Engineer and the Contractor both in English and Urdu Languages.

No payment shall be made to the Contractor for the works involved under this Sub-Clause.

15.5 Site Office for Employer, Engineer and Engineer's Staff

The Contractor shall provide a telephone and internet connection each for the Employer and the Engineer at site up-to an average billing of Rs. 5,000/- per month for each, one (01) latest model computer for Engineer and one latest model touch screen Laptop Employer with two flash drives of at-least 32 GB capacity each, an A3 size colour printer, plain paper photocopier A3 size, a digital camera (32 pixel minimum with 32 Gb SD/MMC storage card) etc.

The Contractor shall provide replacement of the equipment(s), if any of the above mentioned equipment(s) is temporarily or permanently rendered unserviceable for any reason(s) or declared to be beyond repair by the Engineer/Engineer's staff at no additional cost to the Employer.

The said offices shall be provided by the Contractor within TWO WEEKS of the receipt by the Contractor of Engineer's Notice to Commence.

No payment shall be made to the Contractor for the works involved under this Sub-Clause.

15. 52 OTHER FACILITIES FOR ENGINEER'S PERSONNEL TO BE PROVIDED BY THE CONTRACTOR

Transport for Engineer/Employer

- a. One (01) brand new 1000CC (AC) vehicle and one (01) bike 125CC or equivalent rental vehicles for site supervision. • Vehicles to be right-hand drive, brand new, and fully insured. • Contractor to provide qualified drivers, fuel (200Liters per amount or amount per month), lubricants, tires, maintenance, and replacement vehicle if unserviceable. • Vehicles to remain under control of the Engineer(Client) and revert to Contractor after DLP completion.
- b. Prior to Ordering Vehicle, Approval will be taken from Client / Engineer after sharing detailed Specification, Model, Make, Color. After Approval, Vehicle will be supplied within 2 weeks of Engineer Work Order to Client.
- c. If not provided, Rs. 80,000/month per vehicle will be deducted.
- d. No separate payment shall be made to the Contractor for the facilities involved under this clause. The cost thereof shall be deemed to have been included in the price quoted by the Contractor for the works.

15.5 Site Facilities to Be Provided By the Contractor

15.6.1 General

Without prejudice to the generality of the various clauses of the Contract, particular attention is drawn to the obligation of the Contractor to make his own arrangement at his own expense for the following.

15.6.2 Labour Camps and Staff Residences

The Contractor shall provide, operate and maintain labour camps and staff residences and are required for the proper and efficient progress of the work to house his own employees. For the purposes of operation and maintenance of the Camps and Residences, the Contractor shall comply with the rules of Pakistan Labour Camp Rules 1960 and all other applicable provisions of the Pakistan Labour Laws.

15.6.3 Administrative and Field Office

The Contractor shall provide, operate and maintain administrative and field offices required for his staff and would be responsible for Operation and

Maintenance, furniture, equipment, appliances, janitor services and security of the same.

15.6.4 Work yards and Storage Areas

The Contractor shall provide, operate and maintain all sheds, fencing, foundations and all above ground structures required to store material or equipment brought on to the site by him. The Contractor shall be responsible for the security of his entire camps, residence, site and field offices work yard and storage area.

15.6.5 Water Supply, Sewerage System and Electricity

The Contractor shall make his own arrangement, at his own expense for provision, operation and maintenance of electric supply, reasonable supplies of raw and potable water and sewerage system at the site of works and his labour camps, staff residences and offices. The Contractor shall pay all fees, and charges (including bills) of whatsoever nature to the concerned departments (if any) in order to procure connections of the above facilities and thereafter using these facilities. If the Contractor is un-able to arrange a temporary electrical connection then he shall arrange and furnish an Electric Power Generating set (with sufficient generating capacity to meet the required demand of electricity) at site and maintain the generating set in perfect working condition through-out the duration of Contract.

15.6.6 Medical Care

The Contractor shall arrange provision of adequate medical facilities for his employees.

Adequately equipped and properly staffed first aid stations or dispensaries shall be provided by the Contractor at camps and other strategic locations, to administer first aid treatment at all times free of charge to all persons on the Site, including personnel of the Engineer and the Employer. The nature, number and location of facilities furnished and the Contractor's staff for administering first-aid treatment shall meet the requirements of the Health Services of the Government of Pakistan and of Section III of the Manual "Safety Requirements for Construction by Contract", published by the Employer, and shall be subject to approval by the Engineer.

15.6.7 Other Facilities

The Contractor shall also be responsible for providing at his own cost other facilities for his own staff and labour such as educational, recreational, transport, telephone and catering if required.

16. CONSTRUCTION PROCEDURES

The Contractor shall advise the Engineer of proposed construction procedures in accordance with the General Conditions of Contract.

If the Engineer shall see that the work progress is slow in such a way that the work will not be completed in the time specified, then he shall order the Contractor to work overtime or in more shifts or to deploy /employ additional resources and the Contractor shall obey these orders without any additional payments and without any objections or request for compensation.

17. NOTIFICATION TO ENGINEER

The Engineer shall be notified daily in writing of the nature and location of the Works the Contractor intends to perform the next day so as to enable necessary inspection and measurement to be carried out. The Engineer may, if necessary, direct that longer notice be given of certain operations.

18. NIGHT WORK

When work is done at night the Contractor shall maintain from sunset to sunrise such lights on or about his work and plant as the Engineer may deem necessary for the proper observations of the work and the efficient execution thereof.

19. WEATHER

No work is to be undertaken when, in the opinion of the Engineer, the weather is so unsuitable that proper protection of the work cannot be ensured.

20. SETTING OUT OF WORK AND SURVEY**20.1 Reference Points, Lines**

The Contractor shall establish benchmarks and / or reference line at the Site in accordance with the instructions of the Engineer. The Contractor shall set out its work from these benchmarks and lines. The Contractor shall supply plant, equipment, materials and labour for checking if required of the survey control by the Engineer. Slope stakes will be set by the Contractor before commencement of excavation and will be re-established as required during progress of work using established benchmarks and reference points.

20.2 Verification

The Engineer may make checks as the work progress to verify lines and grades established by the Contractor and to determine the conformance of the work as it progresses with the requirements of the Drawings and Specifications. Such checking by the Engineer shall not relieve the Contractor of his responsibility to perform all work in accordance with the Drawings and Specifications and the lines and grades given therein.

Based upon the basic control, the Contractor shall provide his own primary control points, as needed for the Works, and shall preserve and maintain them until otherwise authorized.

The Contractor shall be responsible for maintaining all survey markers/monuments, and property corners. If any markers/monuments are destroyed by the Contractor, the Contractor shall arrange, at his own cost, to retrace and replace them to the entire satisfaction of the Engineer. If a monument cannot be replaced in its original position, the Contractor shall install a witness corner. The Contractor shall complete and file monument reference cards on all monuments as per instructions of the Engineer.

The Contractor shall provide experienced construction surveyors with adequate experience in the construction surveys similar in nature as required by this Contract.

Based upon established basic control monuments the Contractor shall establish all lines and grades necessary to control the Works, and shall be responsible for all measurements that may be required for execution of the Works to the tolerance prescribed below.

The Contractor shall perform such surveys and computations as are necessary to determine quantities of work performed or placed during each progress payment period, and shall also perform all surveys necessary for the Engineer to determine final quantities of work in place. The Engineer will determine final quantities based on original ground levels determined by the Contractor and agreed by the Engineer.

The Contractor shall notify the Engineer at least 24 hours before performing a quantity survey and, unless specifically waived, quantity surveys shall be performed in the presence of an authorized representative of the Engineer.

Degree of accuracy for the survey works shall satisfy the following specified tolerances:

- (a) Structure points shall be set within 0.01 foot accuracy from point to point, except where tighter tolerances are required.
- (b) Cross-section points shall be located within 0.10 foot, horizontally and 0.01 foot vertically.
- (c) Permissible closing error for a levelling line meant for establishing Temporary Bench Mark (TBMs) shall not exceed $0.045 \times \sqrt{M}$ foot, where M is in miles. The permissible closing error shall be duly adjusted.

The Contractor shall provide all materials, equipment and labour required for surveying work, including, but not limited to, instruments, stakes, spikes, steel pins, templates, platforms, and tools, and except as required to be incorporated in the work or left in place, all such materials and equipment, shall remain the property of the Contractor. Surveying instruments shall be in perfect working condition and shall be subject to rigid inspection for proper operation at least after every two weeks of use. Defective instruments shall be promptly replaced or repaired and adjusted to the satisfaction of the Engineer.

Survey data shall be recorded in accordance with recognized professional surveying standards. Original field notes, computations, and other surveying data shall be recorded in the Contractor furnished field books. Notes or data not in accordance with standard formats will be rejected. Illegible notes or data, or use of erasures on any page of a field book will be considered sufficient cause for rejection of part or the entire field book. Copied notes or data will not be permitted; therefore, rejection of part or all of a field book may necessitate re-surveying. Corrections by ruling or lining out errors will be satisfactory.

The cost of all materials, equipment, surveyors and labour required for surveys for the Works and quantity surveys required by this clause shall be deemed to be included in the rates and prices of the various items in the Estimates and no separate measurement and payment in their respect shall be made.

20.3 Survey Instruments

The Contractor shall maintain at the Site the requisite surveying instruments in perfect working conditions to enable the Engineer's Representative to check levels and lines of the work at all times.

21. PAYMENT OF WORK

No payment shall be made for the works involved within the scope of this section of specification unless otherwise specifically stated in the Estimates or herein.

The cost thereof shall be deemed to have been included in the total price quoted by the Contractor.

22. DRAWINGS

22.1 Bid Drawings

Bid Drawings issued with the Bidding Documents, called the Bid Drawings, show scope of the work to be performed by the Contractor. The Drawings are generally in sufficient detail so as to be used as a basis for construction, fabrication and for placing orders for materials subject to corrections based on the future issue of supplementary Drawings as provided under Sub-Clause 12.2 hereof.

22.2 Construction Drawings, Supplementary Drawings

After award of Contract, the Bid Drawings will automatically become Construction Drawings.

The Engineer shall have authority to issue to the Contractor, from time to time, such supplementary Drawings and instructions as shall be necessary for the purpose of the proper and adequate execution and completion of the Works and the remedying of any defects therein. The Contractor shall follow these drawings.

The Contractor shall study the details and drawings provided in the Bid for their sufficiency to carry out the Construction works and shall provide along-with the Programme a schedule of requirement for any further detail/drawing/information which he may require during the Construction activities.

22.3 Definition of Term Drawings

The term Drawings as used in the Specifications means the Drawings referred in Clauses 12.1 and 12.2 above.

22.4 Checking of Drawings

The Contractor shall check all Drawings carefully as soon as practicable after receipt thereof, and shall promptly notify the Engineer of any errors discovered.

22.5 Copies of Drawings

Drawings will be issued to the Contractor as described below.

22.5.1 Bid Drawings (at Construction stage)

Three (3) sets of the Bid Drawings will be issued to the Contractor at the time of Construction free of charge. Additional sets will be provided at cost of reproduction upon written request of the Contractor.

22.5.2 Supplementary Drawings

Three (3) prints of each supplementary Drawing will be issued to the Contractor free of charge. Additional sets will be provided at cost of reproduction upon written request of the Contractor.

8. TECHNICAL SPECIFICATIONS

9. LIST SPECIFIED MATERIAL

LIST OF SPECIFIED MATERIAL

(to be signed by the Bidder)

The Contractor should note that material from recommended manufacturers shall be used on this Project. The Contractor shall submit literature/catalogue/samples to the Engineer for review and approval.

Equipment and materials specified below are to establish a standard of quality indicate a preference for a particular source . Other material can also be approved, provided that the quality of such materials is at least equal to or better than the recommended manufacturer or make/brand can also be used if specified in BOQ. It shall be responsibility of the Contractor to submit comparative analysis & pertinent data in relation to such materials, for review and approval of the Engineer/Employer.

Onus lies with the Contractor for establishing the genuineness of any material sources or Make for its make and origin as specified below:

A. Civil

S.NO	Item/Equipment / Material	Make/Manufacturer
1.	Cement	Luck Cement only or equivalent
2.	Crushed Stone	Kot Banglow / UbanShah
3.	Sand	Bolhari
4.	Steel	Amreeli or equivalent
5.	Bricks	Karambad
6.	Fair Faced Bricks	Lahore or Selected as per base rate.
7.	Construction Chemicals	1. Sika 2. Ultra or equivalent
8.	Anti Termite Treatment	1. Biflex 2. Termidor 3. Dursbin 4. Mirage 5. or equivalent

9.	Anchors for Concrete (Chemical and Mechanical)	1. HILTI 2. SPIT 3. SIKA 4. FISCHER 5. or equivalent
10.	Aluminum Sections	1. Pakistan Cables 2. Chawla Aluminium 3. Prime Aluminium or equivalent
11.	Paints & Varnishes	1. Berger 2. ICI or equivalent
12.	Ceramic Tiles	1. RAK 2. NIRO Granite 3. MML or equivalent
13.	Porcelain Tiles	1. RAK 2. NIRO Granite 3. MML or equivalent
14.	Concrete Floor Tile & Pavers	1. Envicrete 2. TUFF or equivalent
15.	False Ceiling (Metallic)	1. OWA (Germany) 2. DAMPA (Denmark) or equivalent
16.	False Ceiling (Gypsum)	1. Elephant 2. or approved Equivalent
17.	Glass	1. Pilkington 2. AGC 3. Guardian or equivalent

Authority Signature
and official seal

Name

Date

B. Electrical Works

Sr. #	Equipment / Material	Make/Manufacturer	Country of Origin
1	Diesel Generator Set	Caterpillar FG Wilson	USA/UK
2	Synchronizing, Load Sharing & AMF Panel	Siemens Schneider Electric (AREVA) R A Electronics	Pakistan Pakistan Pakistan
3	Indoor Power Transformers	Siemens P.E.L.	Pakistan Pakistan
4	H.T Switch Boards	Siemens Schneider Electric (AREVA) P.E.L.	Pakistan Pakistan Pakistan
5	L.T. Switch Boards / Main LT Outdoor Distributors / L.T. Distribution Boards/Motor Control Centre (MCC)	Siemens Schneider Electric (AREVA) P.E.L.	Pakistan Pakistan Pakistan
6	Air Circuit Breakers (ACBs) Moulded Case Circuit Breakers (MCCBs)/ Miniature Circuit Breakers (MCBs)	Siemens M.G ABB Terasaki	Germany France Italy Japan
7	Light Fixtures	Philips Faeber	Holland Italy
8	15 kV H.T Cables	Pakistan Cables Newage Cables	Pakistan Pakistan
9	Single & Multi Core LT Cables	Pakistan Cables Newage Cables AGE Cables FAST Cables	Pakistan Pakistan Pakistan Pakistan
10	I P Panel	Schneider Electric- Square-D	France

ABB

Germany

Sr. #	Equipment / Material	Make/Manufacturer	Country of origin
11	Uninterruptible Power Supply	APC MG	USA France
13	Voltmeter / Ammeter	Revalco Pantace Saci	Italy Italy Spain
14	Auto-Off-Manual Selector Switch/ASS/VSS	Breter Kraus & Naimer	Italy New Zealand
15	CTs/PTs (HT)	Revalco FICO	Italy Pakistan
16	CTs (LT)	Revalco FICO	Italy Pakistan
17	Air Break Magnetic Contactors	Telemecanique Fuji Panasonic Siemens	France Japan Japan Germany
18	Power Factor Relay	Nokian Lovato	Finland Italy
19	PFI Capacitors	Nokian Shizuki	Finland Japan
20	H.T indoor Termination Kits	3M Raychem	USA Germany
21	Light Control Switch / Switch Socket Outlets	Clipsal M.K Legrand	Australia U.K France

Sr. #	Equipment / Material	Make/Manufacturer	Country of origin
22	Back Boxes	Hussain & Co. or Approved Equivalent	Pakistan
23	PVC Conduits & Accessories/uPVC Pipes & accessories	Dadex Beta Jeddah Polymer	Pakistan Pakistan Pakistan
24	Earthing System	Furse ERICO	U.K USA
25	G.I. Cable Tray, Trunking	Ashraf Industries Ezzi JEI	Pakistan Pakistan Pakistan
26	Ceiling / Wall Bracket / Exhaust Fans	Pak Fan Royal Fan Millat Fan	Pakistan Pakistan Pakistan
27	Structured Cabling Network	3M Panduit	USA USA
28	Fire Alarm System	Simplex Gent by Honeywell Esser by Honeywell Notifier by Honeywell	USA UK Germany USA
29	CCTV System	Pelco Sony Bosch	USA Japan EU
32	CATV System	Wisi or Approved Equivalent	Germany

Authority Signature
and official seal

Name

Date

C. Plumbing Works

S. #	Equipment / Material	Make/ Manufacturer	Origin
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1.	G.I. PIPE	i.	M/S INTERNATIONAL INDUSTRIES LTD. (IIL)	PAKISTAN
		ii.	M/S JAMAL PIPE INDUSTRIES (PVT.) LTD.	PAKISTAN
		iii.	M/S BASHIR PIPE INDUSTRIES (PVT.) LTD.	PAKISTAN
2.	G.I.PIPE FITTING	i.	M/S HE	CHINA
		ii.	M/S TG	CHINA
3.	C.I. PIPE AND FITTINGS	i.	M/S SUPER ALPINE	PAKISTAN
		ii.	M/S SANDAL ENGINEERING (PVT.) LTD. (TEEPU SUPREME SPUN PIPES)	PAKISTAN
4.	SANITARY FIXTURES	i.	M/S PORTA	CHINA
		ii.	M/S ASIAN STANDARD	CHINA
		iii.	M/S ZUN LONG	CHINA
5.	KITCHEN SINKS	i.	M/S RASHAD	PAKISTAN
		ii.	M/S ATLAS	PAKISTAN
		iii.	M/S SUPER ASIA	PAKISTAN
6.	SANITARY FITTINGS	i.	M/S MASTER	PAKISTAN
		ii.	M/S SONEX	PAKISTAN
7.	BATHROOM ACCESSORIES	i.	M/S MASTER	PAKISTAN
		ii.	M/S SONEX	PAKISTAN
		iii.	M/S KENT	PAKISTAN
8.	BRONZE/BRASS VALVES	i.	M/S KITZ	JAPAN
		ii.	M/S ECONOSTO	ITALY
9.	C.I. VALVES	i.	M/S SCON	PAKISTAN
		ii.	M/S GMD	PAKISTAN
		iii.	M/S MHS	PAKISTAN
10.	GAS WATER HEATERS	i.	M/S NAS GAS	PAKISTAN
		ii.	M/S SINGER	PAKISTAN
		iii.	M/S CORONA	PAKISTAN
11.	ELECTRIC WATER HEATERS	i.	M/S NAS GAS	PAKISTAN
		ii.	M/S HEATEX	PAKISTAN
		iii.	M/S CANON	PAKISTAN

12.	WATER COOLER	i.	M/S MECCO	PAKISTAN
		ii.	M/S CARAVELL	PAKISTAN
		iii.	M/S CANON	PAKISTAN
13.	C.I. COVERS WITH FRAME FLOOR DRAINS & FLOOR CLEANOUTS	i. ii.	M/S SUPER ALPINE M/S SANDAL ENGINEERING (PVT) LTD. (TEEPU)	PAKISTAN PAKISTAN
14.	FIRE HOSE CABINET AND EXTINGUISHERS	i. ii. iii.	M/S HASEEN HABIB (PVT.) LTD. M/S ADAMS FIRETECH M/S TECHNO FIRE (ARMOUR U.K.)	PAK/FOREIGN PAK/FOREIGN PAK/FOREIGN
15.	uPVC PIPES AND FITTINGS	i.	M/S DADEX (NIKASI)	PAKISTAN
		ii.	M/S SHAFISONS ENGINEERING (PVT.) LTD. (BETA PIPES)	PAKISTAN
16.	PPR PIPES & FITTINGS	i. ii.	M/S DADEX (POLYDEX) M/S SHAFISONS ENGINEERING (PVT.) LTD. (BETA PIPES)	PAKISTAN PAKISTAN
17.	HDPE PIPES & FITTINGS	i. ii. iii.	M/S INTERNATIONAL INDUSTRIES LTD. (IIL) M/S DADEX (T-FLEX) M/S NEW TECH PIPES	PAKISTAN PAKISTAN PAKISTAN
18.	MS PIPES & FITTINGS	i. ii. iii.	M/S BASHIR PIPE INDUSTRIES (PVT.) LTD. M/S JAMAL PIPE INDUSTRIES (PVT.) LTD. M/S HAFFAZ PIPES	PAKISTAN PAKISTAN PAKISTAN
19.	PRESSURE REDUCING VALVES	i. ii.	M/S HONEYWELL M/S ITAP	USA ITALY
20.	FLEXIBLE JOINTS	i. ii.	M/S ECONOSTO M/S TOZEN	ITALY JAPAN
21.	WATER FILTERS	i. ii. iii.	M/S SO-SAFE M/S ENVIRO PAK M/S AQUA SAFE	PAKISTAN PAKISTAN PAKISTAN
22.	HANGERS & SUPPORTS	i. ii.	M/S FISCHER M/S SIKLA	GERMANY GERMANY
		iii. iv.	M/S HILTI M/S SPIT	FOREIGN FRANCE

23.	PUMPING MACHINERY	i.	M/S HMA GRUNDFOS	DENMARK
		ii.	M/S KSB	GERMANY

Other terms & conditions

i. Only Cement from Lucky Cement factory of approved quality or equivalent will be used with the approval of Engineer In-charge.

ii. Only Bholhari Hill Sand of approved quality from Bholhari quarry will be used.

iii. Only Crush Stone of approved quality from Ubhan shah quarry will be used.

iv. Only Stone metal of approved quality from Ubhan shah quarry will be used.

V. Only burnt bricks of approved quality from Karamabad or equivalent will be used.

Vi. Only Amreli Steel of approved quality or equivalent will be used of required strength.

vii. No cartage of any material arranged by the contractor himself/themselves will be paid in any shape.

viii. Only palatable water of approved quality will be used and Contractors shall have to make their own arrangement of palatable water for use in work at his/their own cost.

ix. Concrete shall be mixed with mechanically operated Concrete Mixer with due concentration to aggregate and water ratio.

X. If any wherever nomenclature or any item is elaborated or not clear or any typographical error occurs in the schedule for the tender it should be read strictly as per composite schedule of rates issued by standing rates committee Govt. of Sindh.

xi. All material shall confirm the standard specifications.

xii. No any premium shall be allowed on non-scheduled items/offered rates..

xiii. All the debries and surplus stuff shall be removed from the site/disposed off by the contractor for which no any extra cost of cartage ete shall be paid.

xiv. All RCC/PCC cost in Situ shall be mechanically vibrated by the contractor for which no any extra cost will be paid.

XV. Work will be carried out as per P.W.D. specification.

xvi. All materials/mixes used in structure shall be tested from recognized laboratory and test report shall be submitted without any delay for which no any extra cost ete shall be paid.

xvii. Electricity used shall be the responsibility of contractor for which no any extra cost ete shall be paid.

xviii. Camp office/stock/go-down constructed at site shall be the responsibility of contractor for which no any extra cost etc shall be paid.

xix. All workers within the execution area should wear protection helmets and full boots and ensure all safety & security measures for lives of labours / inhabitants shall be the responsibility of contractor for which no any extra cost etc shall be paid.

XX. Deployment of full time engineer at site shall be the responsibility of contractor for which no any extra cost etc shall be paid.

xxi. Inspection request shall be submitted before 24 hrs of execution of any new trade/activity.

xxii. Pour slip to be submitted for approval of any CC and RCC work well before execution of pouring.

xxiii. The contractor shall have to visit the site before filling the bidding documents.

Project Director

Contractor's Signature

Contractor's Name

Stamp

10. BILL OF QUANTITIES (SCHEDULE -B)

NAME OF WORK:-

**CONSTRUCTION OF GREY STRUCTURE OF BANK AT BNB UNIVERSITY,
SUKKUR**

GENERAL ABSTRACT

	Description	Cost	
A	Cost Summary of Work		
	Civil Works		
	Schedule Items	Rs.	
	TOTAL OF A	Rs.	
	SRB 5 %	Rs.	
	TOTAL AMOUNT	Rs.	

NAME OF WORK:-

CONSTRUCTION OF GREY STRUCTURE OF BANK AT BNB UNIVERSITY, SUKKUR

ABSTRACT OF QUANTITIES

Ref. No.	S.No	DESCRIPTION	UNIT	RATE	QUANTITY	AMOUNT
		(A) Schedule Item.				
S.I.No: 18 (c) P/17	1	Excavation in foundation of building bridges and other structure i/c dag belling dressing refilling around the structure with excavated earth watering and ramming lead upto 5 ft. (c) In hard soil or soft murum.	P.CFT	11.88	3048.88	36220.71
S.No. 21/P-17	2	Filling, watering and ramming earth in floor with surplus earth from foundation lead upto the one chain and lift upto 5 ft. (for plinth)	P.CFT	6.5	32357.25	210322.15
S.No 92A /P-84	4	Providing Anti -termite treatment by spraying /sprinkling /spreading Neptachlar 0.5% Emulsion as an overall pre - construction treatment in slab type construction under the slab and along attached perches or entrances etc, complete as per directions of Engineer Incharge.	SFT	9.74	2795.05	27223.83
S.No. 5(i)/P-25	5	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing of stone aggregate without shuttering). (a) Ratio 1:4:8	P.CFT	348.83	1086.75	379091.00
S.No. 6(a)(i) / P-23	6	Reinforcement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kind of forms, moulds, lifting shuttering, curing, rendering and finishing the exposed surface (including Screening and washing of shingle) R.C.C work in roof slab beams columns rafts lintels staircases and other structural members laid in situ or pre-cast laid in position complete in all respects.				
		(i) Ratio 1:2:4	P.CFT	717.59	2772.41	1989451.90
S.No. 6(a)(ii) / P-23	7	Reinforcement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kind of forms, moulds, lifting shuttering, curing, rendering and finishing the exposed surface (including Screening and washing of shingle) R.C.C work in roof slab beams columns rafts lintels staircases and other structural members laid in situ or pre-cast laid in position complete in all respects.				
		(ii) Ratio 1: 1-1/2 :3	P.CFT	787.71	369.00	290664.99
S.No 16(c) / P-45	8	Providing and laying 1" thick topping of cement concrete (1:2:4) including Surface finishing and dividing into panels:				
		(c) 2" thick	P.SFT	108.75	2528.40	274963.50
S.No 9 /P-63	9	Bitumen coating to plastered or cement concrete surface.	P.SFT	21.83	2754.15	60123.09
S.No 2 /P-24	10	Dry rammed brick or stone ballast 1 1/2" to 2" gauge.	P.CFT	104.97	2634.45	276538.22
S.No 5 (e) P-30	11	Pacca brick work in ground floor in (e) Cement sand mortar. 1:6	P.CFT	381.18	5231.25	1994047.88
S.No 11 (b) /P-52	12	Cement plaster 1:4 upto 12' height (b) 1/2" thick (For Internal Side)	P.SFT	37.01	6632.85	245481.78
S.No 11 (a) /P-52	13	Cement plaster 1:4 upto 12' height (a) 3/8" thick	P.SFT	37.78	6632.85	250589.07
S.No 38 (a) /P-29	14	Providing and laying single layer of polythene sheet 0.13 m.m thick for water proofing as per specification and instructions of Engineer Incharge.	P.SFT	24.01	189.00	4537.89
S NO 8 (ai) P-26	15	Fabrication of deformed steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) Deformed Bar Grade 60	P.CWT	18934.02	213.84	4048785.58
						7,155,067.01
		Premium -----%above/below				
			Total			

CONSTRUCTION OF ALLIED BANK

BAGUM NUSRAT BHUTTO UNIVERSITY

AT
SUKKUR DISTRICT

WORKING DRAWINGS

VOLUME - I

MARCH, 2026

FARAZ ARCHITECTS AND CONSULTANT SERVICES
PAKISTAN (PVT) LIMITED, SUKKUR

ARCHITECTURE DRAWINGS

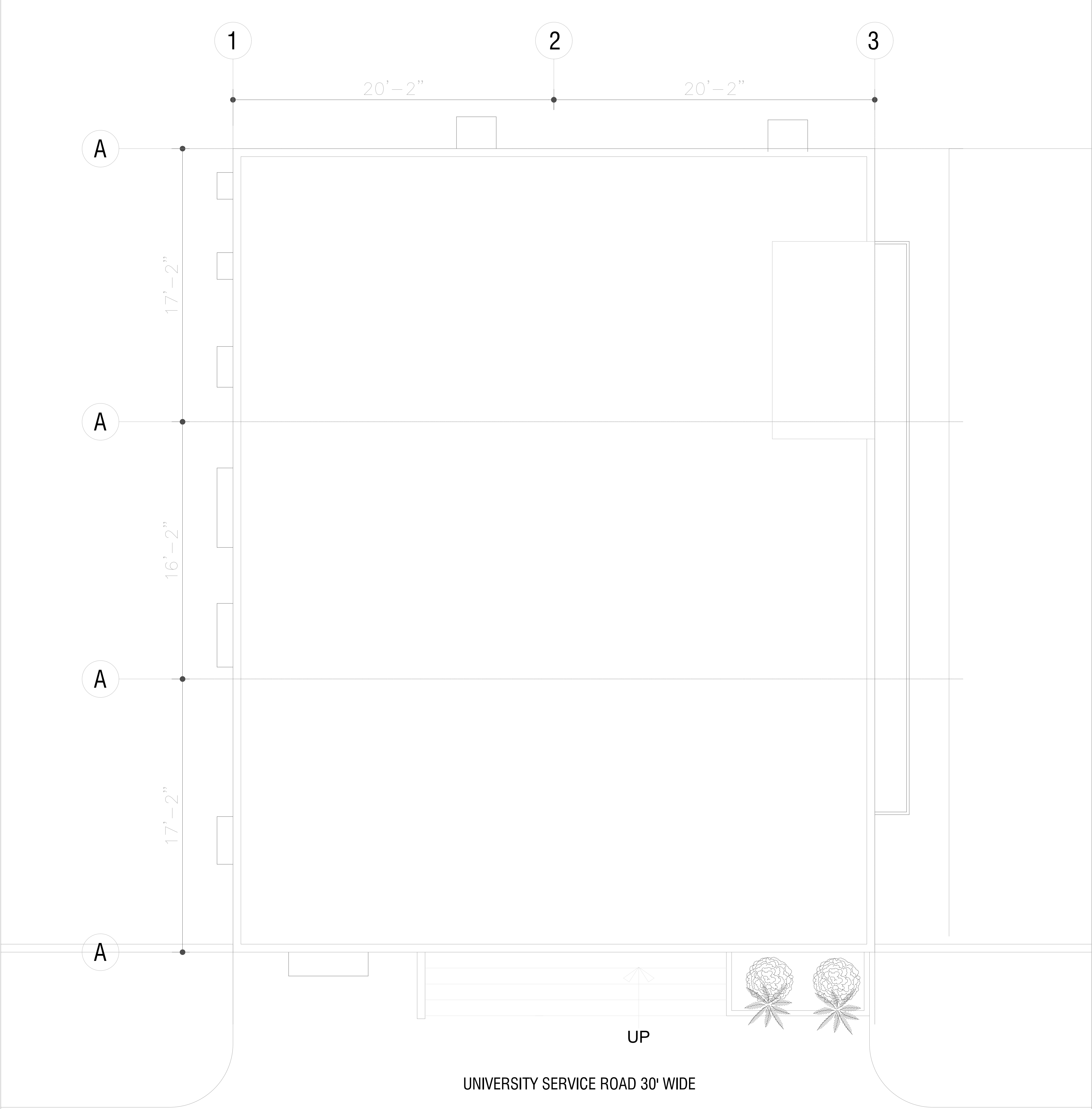
50'-0"

40'-0"

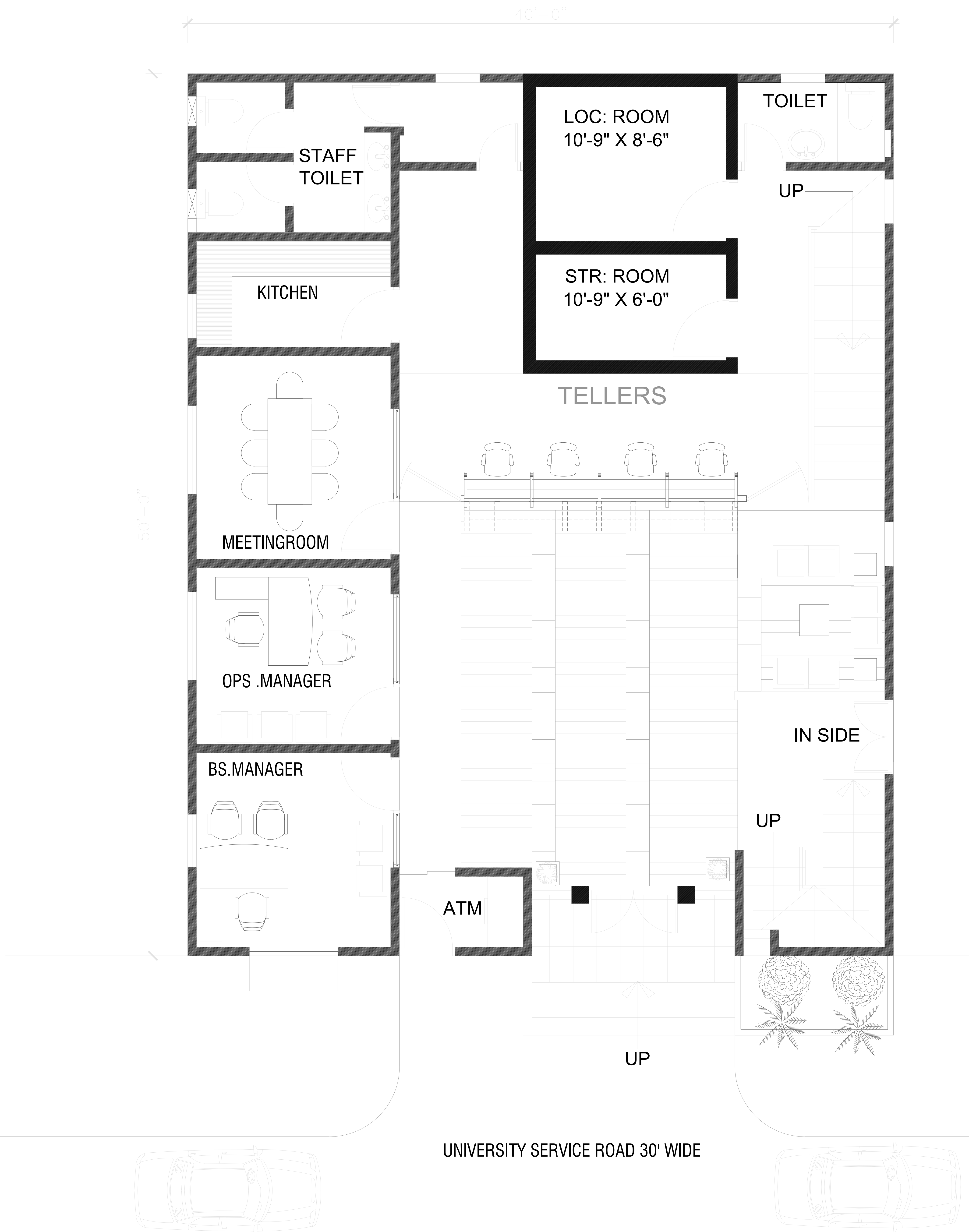
SITE PLAN
40'X50'

UNIVERSITY SERVICE ROAD 30' WIDE

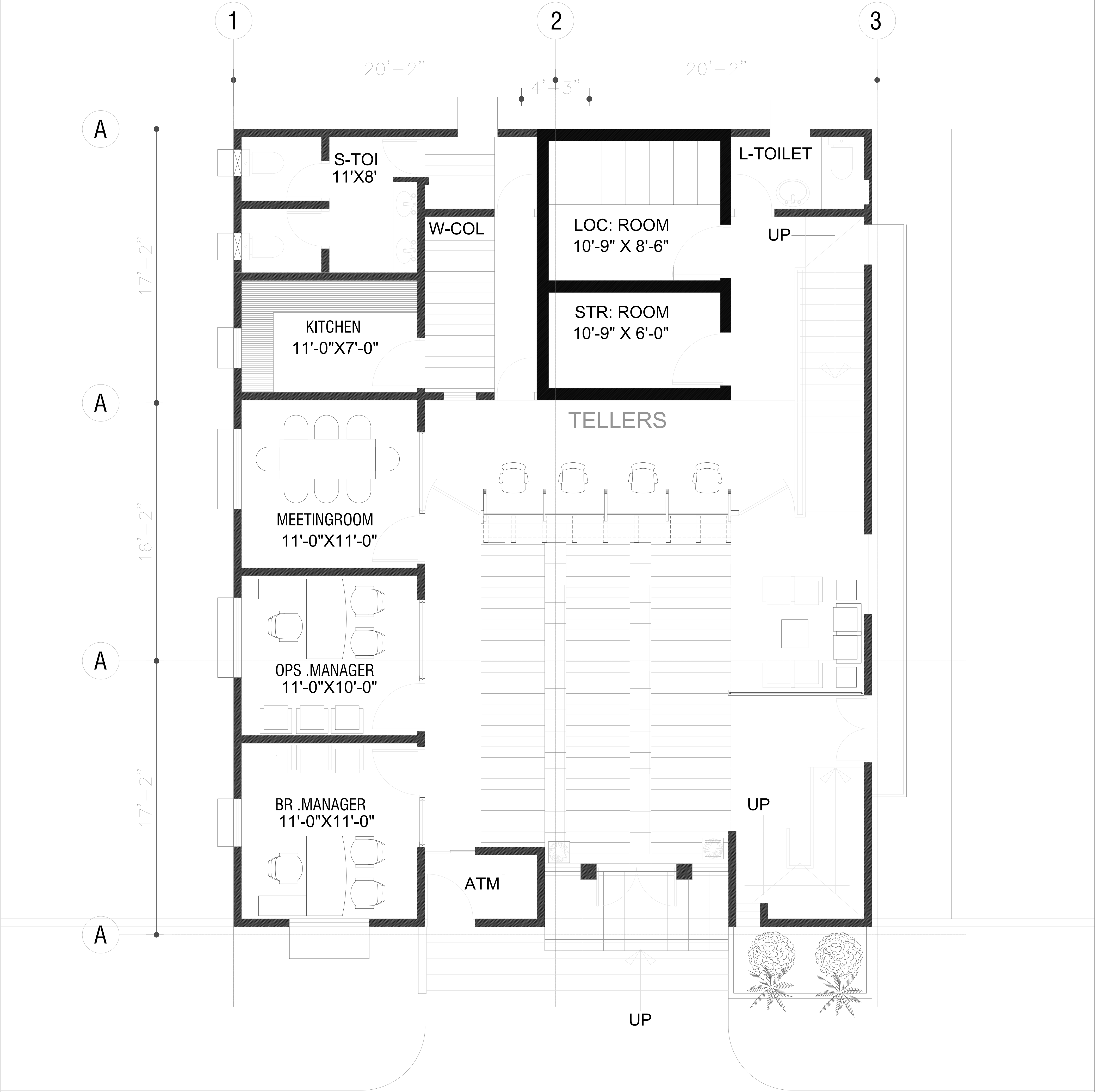
REVISIONS	B			
	A	BASIT	24-02-26	REVISED AS SHOWN
		NAME	DATE	NOTES
CLIENT: BNB UNIVERSITY				
PROJECT: ALLIED BANK BRANCH BNB				
SHEET TITLE: SITE PLAN				
FARAZ ARCHITECTS				
DESIGNER: Saeed Ahmed		RECOMMENDED	VER./CKD.	APPROVED
DATE		DRAWING NO.	SCALE	REV.
SUBMITTER:		3103/50T/C/06G108	1/8"=1'-0"	A



REVISIONS	B			
	A	BASIS	24-02-2024	REVISED AS SHOWN
		NAME	DATE	NOTES
CLIENT				
BNB UNIVERSITY				
PROJECT				
ALLIED BANK BRANCH BNB				
SHEET TITLE				
ROOF PLAN				
FARAZ ARCHITECTS				
DESIGN		RECOMMENDED	VER./CKD	
DWN.		Saeed Ahmed		APPROVED
CKD		DATE		DRAWING NO.
SUBM				3103/50T/C/06G108
SCALE				REV.
1/8"=1'-0"				A



GROUND FLOOR PLAN FIRST PROPOSAL



UNIVERSITY SERVICE ROAD 30' WIDE

GROUND FLOOR PLAN FIRST PROPOSAL

REVISIONS	B				
	A	BASIS	24-02-2024	REVISED AS SHOWN	
		NAME	DATE	NOTES	
CLIENT		BNB UNIVERSITY			
PROJECT		ALLIED BANK BRANCH BNB			
SHEET TITLE		GRID FLOOR PLAN			
		FARAZ ARCHITECTS			
DESIGN		RECOMMENDED	VER./CKD		APPROVED
OWN		Saeed Ahmed			
CKD		=			
SUBM		=			
		DATE	DRAWING NO.		SCALE
			3103/50T/C/06G108		1/8"=1'-0"
					REV
					A

GENERAL NOTES

A. GENERAL

- 1-
- NOTES GIVEN ON THIS DRAWING ARE APPLICABLE TO ALL STRUCTURAL DRAWINGS UNLESS OTHERWISE NOTED. NOTES WRITTEN ON ANY OTHER DRAWING SHALL BE APPLICABLE TO THAT PARTICULAR DRAWING ONLY UNLESS OTHERWISE CROSS REFERRED.
- 2-
- SYSTEM OF UNITS IS FPS. ALL DIMENSIONS AND LEVELS ARE GIVEN IN FEET.
- 3-
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND STABILITY OF THE STRUCTURE AND ALL TEMPORARY WORKS DURING CONSTRUCTION.
- 4-
- THE CONTRACTOR SHALL INFORM THE ENGINEER ABOUT ANTICIPATED CONSTRUCTION LOADS ON THE STRUCTURE AND OBTAIN ENGINEER'S APPROVAL THEREOF BEFORE COMMENCING WORK.
- 5-
- THE CONTRACTOR SHALL CO-ORDINATE ALL DRAWINGS OF ALL DISCIPLINES FOR ALL ITEMS INCLUDING BUT NOT LIMITED TO SIZES AND LOCATION OF ALL OPENINGS REQUIRED FOR DUCTS, PIPES AND PIPE SLEEVES, ELECTRICAL CONDUITS AND OTHER ITEMS TO BE EMBEDDED IN CONCRETE OR OTHERWISE INCORPORATED IN STRUCTURAL WORK AND SHALL BRING TO THE NOTICE OF THE ENGINEER DISCREPANCIES, IF ANY, FOR HIS INSTRUCTIONS, PRIOR TO THE START OF WORK.
- 6-
- THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS AND BAR BENDING SCHEDULES FOR ENGINEER'S APPROVAL AND OBTAIN HIS APPROVAL BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY OF SHOP DRAWINGS AND BAR BENDING SCHEDULES. THE ENGINEER'S APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY.
- 7-
- THE CONTRACTOR SHALL VERIFY LAYOUT, CONFIGURATION, ALL DIMENSIONS AND LEVELS PERTAINING TO EXISTING WORKS BEFORE PROCEEDING WITH THE WORK.
- 8-
- CONTRACTOR SHALL COORDINATE SCHEDULE OF CONSTRUCTION WITH SUPPLY AND INSTALLATION OF EQUIPMENT, IF ANY.
- 9-
- TENDER DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION.
- 10-
- ALL LEVELS MARKED ON THE DRAWINGS ARE LEVELS OF STRUCTURAL ELEMENTS.
- 11-
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO SPECIFICATIONS OF THE CONTRACT. IN ABSENCE OF ANY EXPRESS OR IMPLIED SPECIFICATION IN THE CONTRACT, ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO RELEVANT AMERICAN STANDARDS.
- 12-
- ANY DESIRED DEPARTURES/DEVIATIONS FROM THE DESIGN OR SPECIFICATION OR SOLUTIONS TO ANY PROBLEMS ENCOUNTERED, SHALL BE GOT APPROVED FROM THE ENGINEER PRIOR TO IMPLEMENTATION. UNAPPROVED DEPARTURES/ DEVIATIONS MAY LEAD TO REJECTION/ REPLACEMENT OF THE ENTIRE WORK AT THE CONTRACTOR'S COST.
- 13-
- THE CONTRACTOR SHALL EXERCISE UTMOST CARE AND PRECAUTION DURING THE WORKS, AGAINST ANY MISHAPS OR ACCIDENTS, FOR WHICH THE CONTRACTOR SHALL BE WHOLLY AND SOLELY RESPONSIBLE. THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ANY ACCIDENTS AND ANY LOSSES THEREFROM AND SHALL REPAIR AND RECTIFY THEM AT HIS OWN COST AND TIME.
- 14-
- THE CONTRACTOR SHALL ADOPT ADEQUATE AND APPROPRIATE MEASURES SO AS NOT TO DAMAGE THE EXISTING WORKS.

B. FOUNDATION AND EARTHWORK

- 1-
- THE CONTRACTOR SHALL STUDY AVAILABLE SOIL REPORT BEFORE COMMENCING WORK.
FOUNDATION DESIGN IS BASED ON THE FOLLOWING PARAMETERS:

i) ALLOWABLE NET BEARING CAPACITY IS 0.45 Ton/sq.ft. AT 7'-0' BELOW N.G.L.
ii) GROUND WATER TABLE IS LOW BELOW THE FOUNDATION BEARING LEVEL TO AFFECT THE FOUNDATION DESIGN.
- 2-
- THE TYPE AND COMPACTION OF SOIL BELOW GRADE SLAB SHALL BE AS PER JOB SPECIFICATIONS.
- 3-
- NO FOOTING SHALL BE PLACED ON FILL. HOWEVER, AREAS WHERE FILLING BELOW THE FOOTINGS BECOME INEVITABLE OR OVER-EXCAVATION, IF ANY, SHALL BE FILLED WITH CONCRETE CLASS 'E' WITH PRIOR APPROVAL OF THE ENGINEER.
- 4-
- ALL CONCRETE SURFACES AGAINST WHICH EARTH IS TO BE FILLED SHALL BE COATED WITH TWO COATS OF SPECIAL INDUSTRIAL BITUMEN (10/20 GRADE) APPLIED HOT AT THE RATE OF 0.20 lb/sft. PER COAT.
- 5-
- EXISTING UNDERGROUND SERVICES, REQUIRED TO BE LEFT IN POSITION, SHALL BE CAREFULLY PROTECTED DURING EXCAVATION AND BACKFILLING OPERATIONS.
- 6-
- EXCAVATIONS ADJACENT TO EXISTING STRUCTURES AND/OR UNDERGROUND SERVICES SHALL BE MADE BY HAND.
- 7-
- TERMITE CONTROL TREATMENT SHALL BE CARRIED OUT IN THE BUILDING AS PER SPECIFICATIONS.
- 8-
- BACK FILLING AND COMPACTION SHALL BE CARRIED OUT EQUALLY ON BOTH SIDES OF PLINTH BEAMS.
- 9-
- THE CONTRACTOR SHALL SUPPLY AND ERECT ADEQUATE SHORING TO SUPPORT THE SIDES OF ALL EXCAVATIONS WHERE REQUIRED TO SAFEGUARD WORKMEN AND PROTECT ADJACENT STRUCTURES.
- 10-
- WALLS OF UNDERGROUND TANK AND BASEMENT SHALL NOT BE BACKFILLED UNTIL TOP SLAB IS CAST AND CURED.
- 11-
- THE UPPER 12 INCHES THICK LAYER OF NATURAL SOIL MUST BE SCARIFIED AND COMPACTED AS PER JOB SPECIFICATIONS BEFORE PLACING ANY FILL ON IT FOR GROUND FLOOR OR BASEMENT FLOOR CONSTRUCTION.
- 12-
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING SYSTEM IF AND WHERE SO REQUIRED DURING CONSTRUCTION.

C. REINFORCED CONCRETE.

- 1-
- ALL CONCRETE SHALL BE TESTED IN ACCORDANCE WITH BRITISH STANDARD SPECIFICATIONS AND SHALL COMPLY WITH THE FOLLOWING REQUIREMENT. TESTING OF CLASS D & E CONCRETE SHALL BE PERFORMED IF SO DIRECTED BY THE ENGINEER.

CLASS	MIN. CUBE CRUSHING STRENGTH AT 28 DAYS (PSI)
A	4500
B	3750
C	3000
D	1500
E	1000
- 2-
- CONCRETE CLASS 'B' WITH ORDINARY PORTLAND CEMENT SHALL BE USED FOR ALL STRUCTURAL WORKS UNLESS OTHERWISE MENTIONED.
- 3-
- SULPHATE RESISTANT CEMENT SHALL BE USED FOR ALL CONCRETE WORKS UPTO PLINTH LEVEL ABOVE WHICH ORDINARY PORTLAND CEMENT SHALL BE USED.
- 4-
- ALL DETAILING SHALL BE DONE AS PER ACI STANDARDS ACI-315 AND ACI-318.
- 5-
- ALL REINFORCEMENT SHALL BE HOT ROLLED DEFORMED BILLET STEEL BARS CONFORMING TO ASTM A615 GRADE 60 WITH SPECIFIED YIELD STRENGTH OF NOT LESS THAN 60,000 PSI.
- 6-
- DIAMETER OF GRADE 60 STEEL IS REPRESENTED BY #.
- 7-
- ALL REINFORCING STEEL AND STUB SHALL BE HELD FIRMLY IN PLACE BEFORE AND DURING THE PLACING OF CONCRETE BY MEANS OF WIRES AND SUPPORTS ADEQUATE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION.
- 8-
- NO CONCRETE SHALL BE POURED UNTIL ITS FORMWORK AND REINFORCEMENT HAVE BEEN INSPECTED AND APPROVED BY THE ENGINEER.
- 9-
- CONCRETE CLEAR COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

STRUCTURAL MEMBERS	COVER (inches)
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
CONCRETE EXPOSED TO EARTH OR WEATHER:	
BAR DIA > 3/4 inch	2
BAR DIA < 5/8 inch	1 1/2
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS/WALLS	3/4
BEAMS, COLUMNS :	
PRIMARY REINFORCEMENT,TIES, STIRRUPS.	1 1/2

- 10-
- WATER CEMENT RATIO FOR WATER TIGHT STRUCTURES SHALL BE 0.45 AND FOR ALL OTHER STRUCTURES SHALL BE 0.55,UNLESS NOTED OTHERWISE.
- 11-
- CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS SHALL BE SO MADE AND LOCATED AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE AND SHALL NEED PRIOR APPROVAL OF THE ENGINEER. IN GENERAL THEY SHALL BE LOCATED NEAR THE MIDDLE OF THE SPAN OF SLABS AND BEAMS. JOINTS IN COLUMNS SHALL BE AT THE UNDERSIDE OF FLOORS, SLABS OR BEAMS AND AT THE TOP OF FOOTINGS OR FLOOR SLABS. JOINTS SHALL BE PERPENDICULAR TO MAIN REINFORCEMENT. ALL REINFORCING STEEL SHALL BE CONTINUED ACROSS JOINTS.
- 12-
- SEQUENCE OF REMOVAL OF FORMWORK SHALL BE AS APPROVED BY THE ENGINEER.
- 13-
- BEFORE CASTING OF ANY STRUCTURAL MEMBER, THE CONTRACTOR SHALL ENSURE THAT ALL EMBEDDED ITEMS FOR ELECTRICAL, MECHANICAL, HVAC, PLUMBING, STRUCTURAL STEEL AND OTHER WORKS, AND DOWELS FOR STRUCTURAL MEMBERS AND/OR MASONARY ARE PROPERLY LOCATED IN PLACE.

D. MASONARY WORKS.

1.
- ALL DESIGN, DETAILING, MATERIALS AND WORKMANSHIP SHALL CONFORM TO ACI 530 MASONRY CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES.
2.
- ALL MASONRY WALLS SHALL BE ANCHORED TO THE SUPPORTING STRUCTURAL ELEMENT AS PER UBC, USING BARS CONFORMING TO ASTM A-615 GRADE 60/40.
3.
- ALL BRICK MASONRY WALLS SHALL HAVE COMPRESSIVE STRENGTH OF NOT LESS THAN 8.60 MPa AND SHALL CONFORM TO ASTM C62 STANDARD.
4.
- MORTAR USED FOR MASONRY SHALL HAVE COMPRESSIVE STRENGTH OF NOT LESS THAT OF THE MASONRY UNITS FOR WHICH THEY ARE USED, AND SHALL CONFORM TO THE REQUIRMENTS OF ASTM C270 STANDARDS.
5.
- TESTING OF COMPRESSIVE STRENGTH OF MASONRY PRISMS SHALL BE DONE, IF SO DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH ASTM E 447 STANDARD.

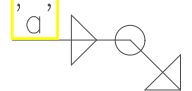
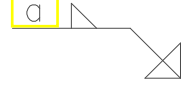
E. PROPS, FORMWORK AND CURING.

1.
- SEQUENCE OF REMOVAL OF FORMWORK SHALL BE AS APPROVED BY THE ENGINEER.
2.
- ALL PROPS, BRACINGS, GUY WIRE PROPS, ETC. REQUIRED FOR STRENGTH AND STABILITY OF THE STRUCTURE AND THE FORMWORK DURING CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR.
3.
- AT LEAST ONE LOWER FLOOR SHALL REMAIN PROPPED UNTIL THE UPPER FLOOR IS CAST AND CURED.

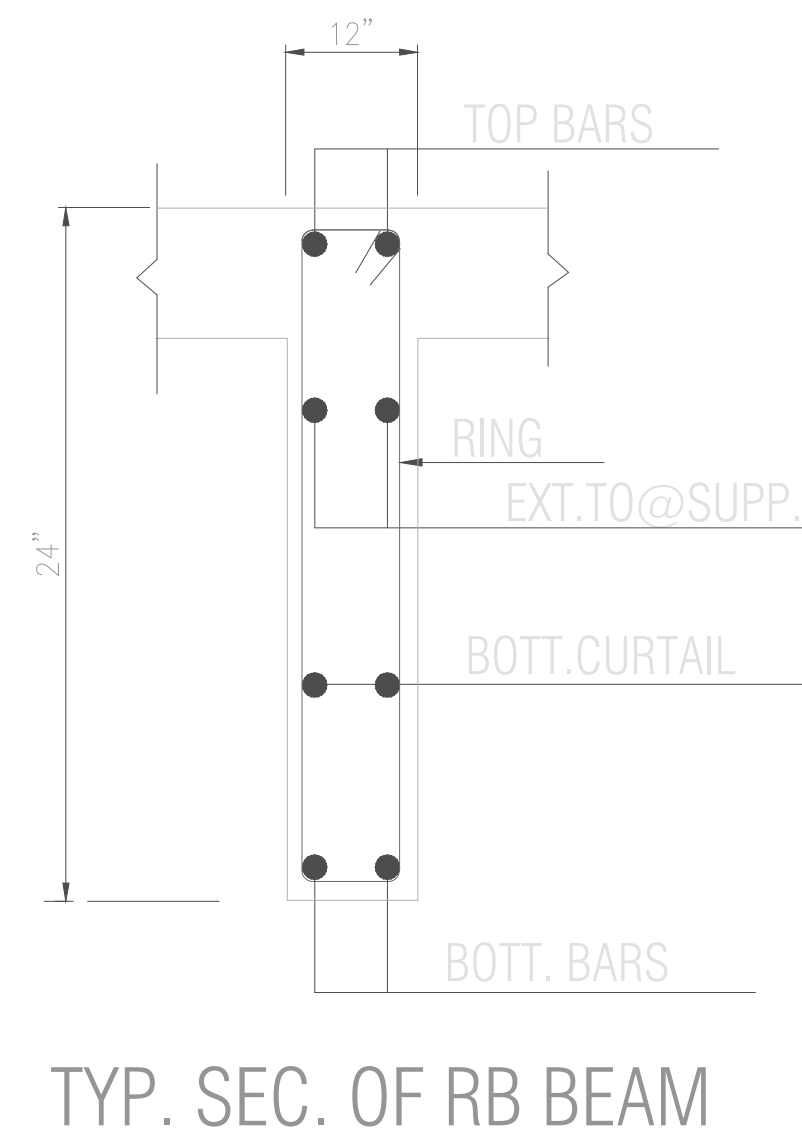
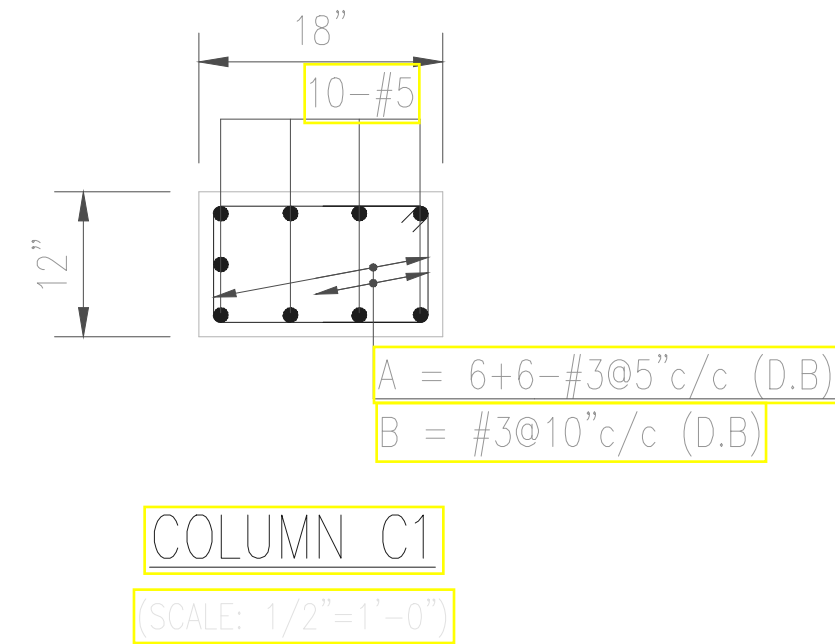
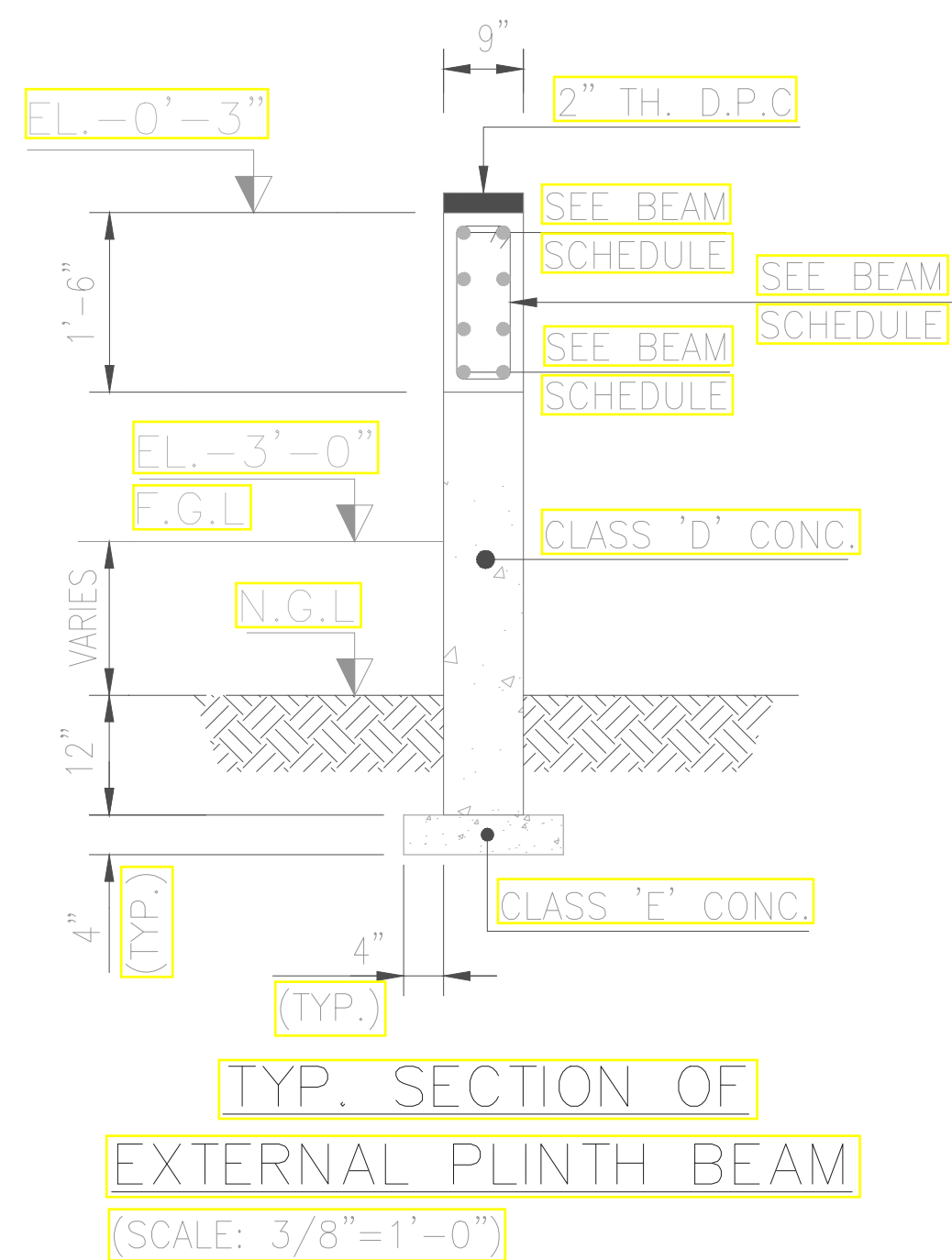
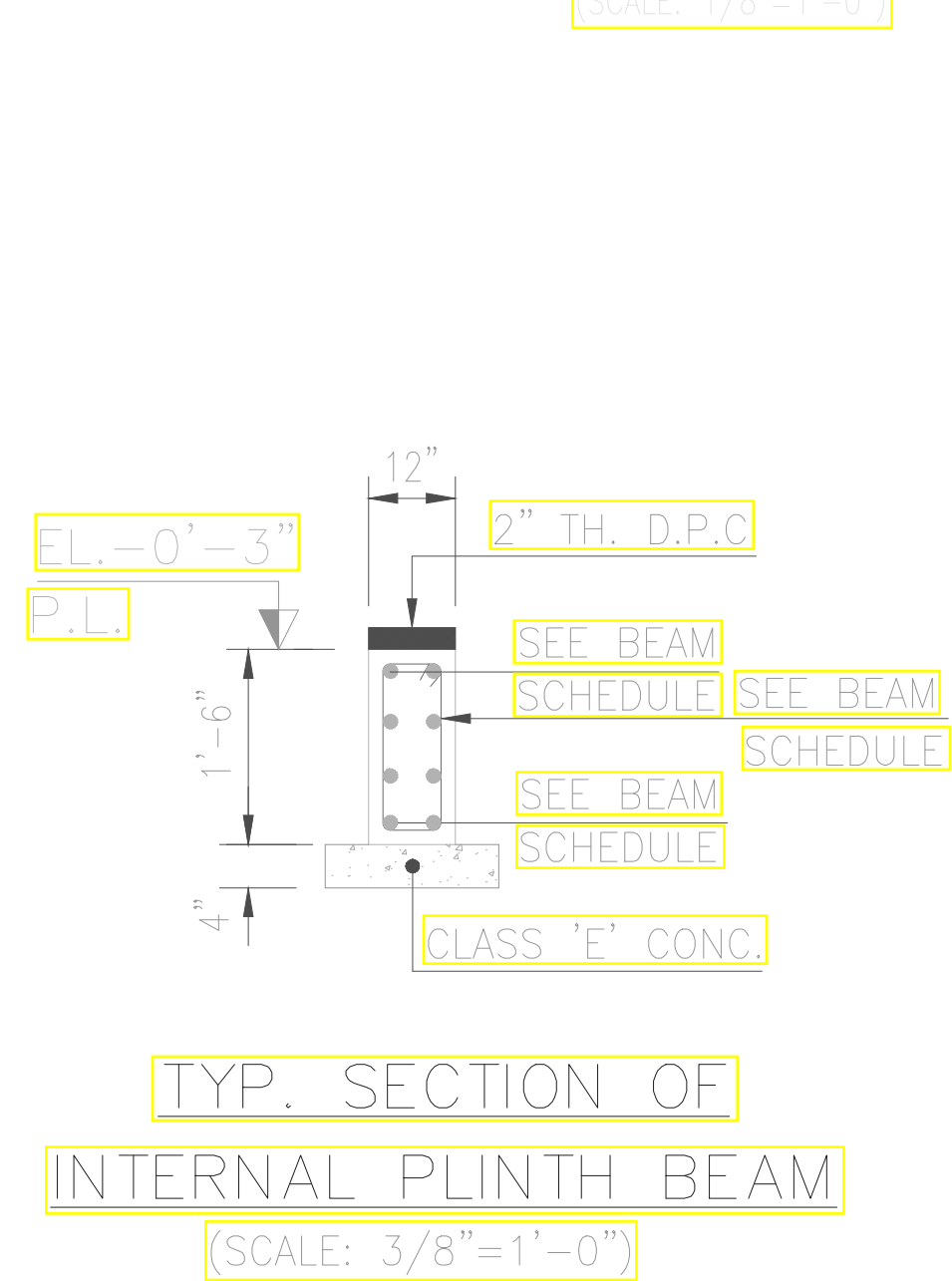
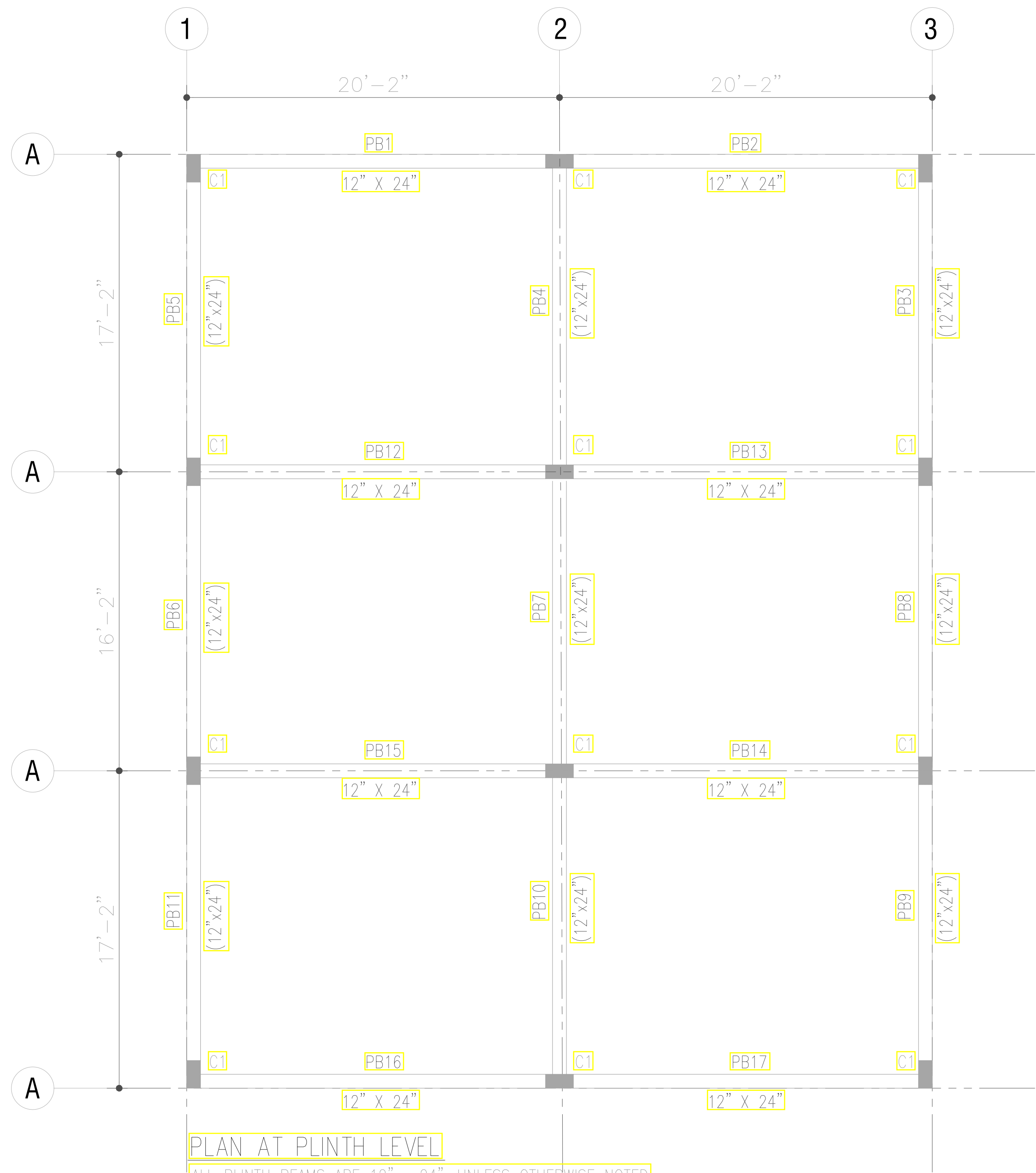
F. STRUCTURAL STEEL

1.
- FABRICATION, PAINTING, ERECTION AND QUALITY CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH AISC SPECIFICATIONS.
2.
- ALL STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-36 AND A-6 OR EQUIVALENT.
3.
- ERECTION BOLTS SHALL CONFORM TO ASTM A307.
4.
- ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF AMERICAN WELDING SOCIETY SPECIFICATIONS USING ELECTRODES E70XX.
5.
- SURFACE PREPARATION OF ALL STRUCTURAL STEEL FOR PAINTING SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF "STEEL STRUCTURES PAINTING COUNCIL " SPECIFICATIONS SSPC-SP6 FOR COMMERCIAL BLAST CLEANING.
6.
- ALL STEEL SHALL BE SHOP PAINTED WITH TWO COATS OF RED LEAD OXIDE PRIMER AND TWO COATS OF SYNTHETIC ENAMEL OF APPROVED COLOUR IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. LAST COAT SHALL BE APPLIED AFTER ERECTION. STEEL SURFACE IN CONTACT WITH CONCRETE SHALL NOT BE PAINTED.

G. ABBREVIATIONS & SYMBOLS

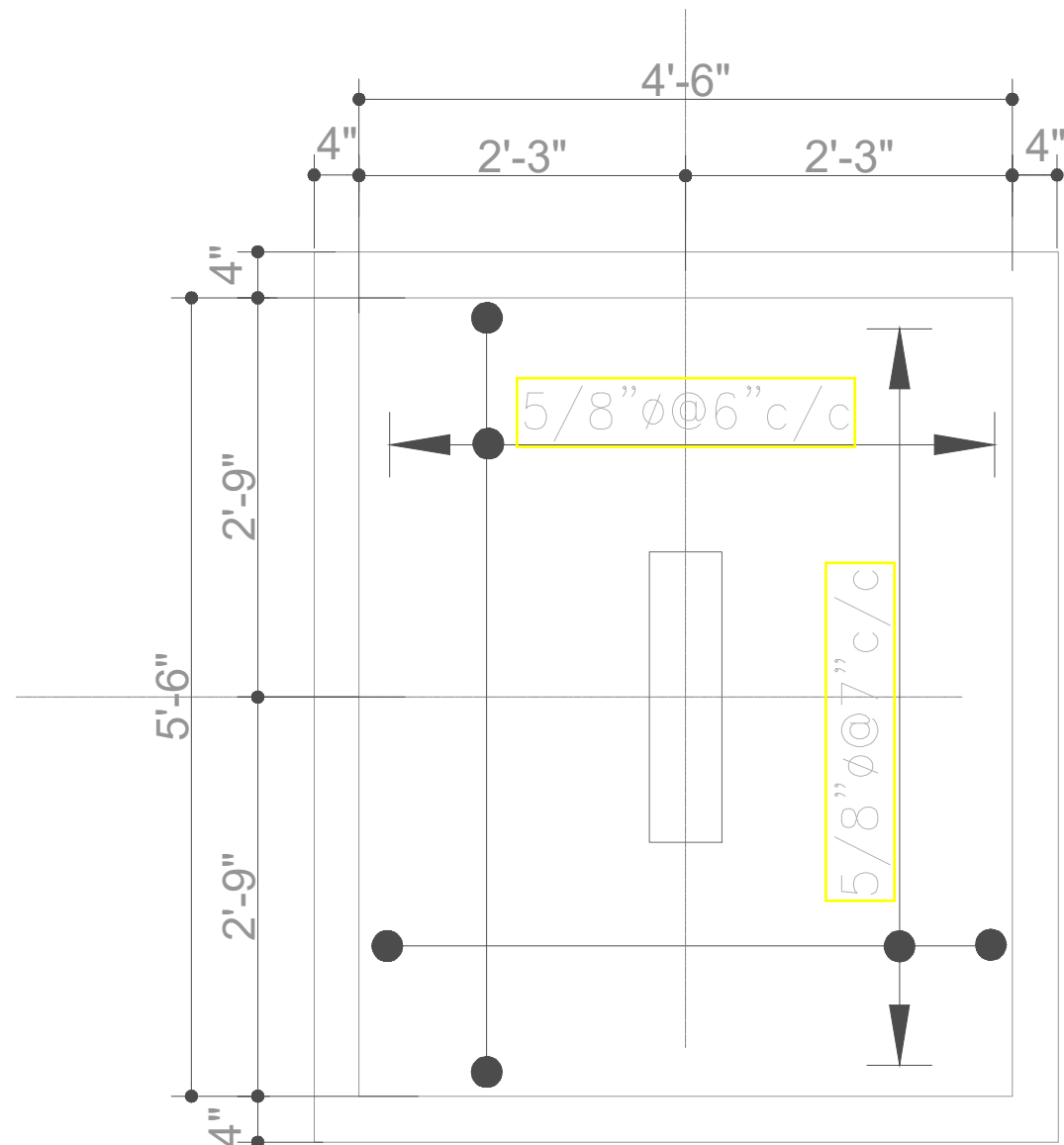
@	AT THE RATE OF
B	BOTTOM
BW	BOTHWAYS
C/C	CENTRE TO CENTRE
CL	CLEAR
D,d	DEPTH, THICKNESS
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
EQ	EQUAL
FF	FAR FACE
FFL	FINISHED FLOOR LEVEL
FGL	FINISHED GROUND LEVEL
GS	SLAB ON GRADE
H	HORIZONTAL
NF	NEAR FACE
EGL	EXISTING GROUND LEVEL.
NGL	NATURAL GROUND LEVEL
NSP	NOT SHOWN IN PLAN
NTS	NOT TO SCALE
SOP	SURVEY OF PAKISTAN
ST	STIRUPPS
T	TOP
OF	OUTER FACE
TH	THICKNESS
IF	INNER FACE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VERTICAL
≥	EQUAL TO OR GREATER THAN
≤	EQUAL TO OR LESS THAN
Ø	DIAMETER
	LEVEL IN PLAN
P	PLATE
	PLATE + TWO ANGLES
L	ANGLE
C	CHANNEL
	FLAT PLATE
	'a' mm THICK FILLET WELD ON BOTH SIDES
	'a' mm THICK FILLET WELD ON ONE SIDE
	'a' mm THICK FILLET WELD ALL AROUND
N.I.C.	NOT IN CONTRACT
BL	BEARING LEVEL

REVISIONS	C			
	B			
	A			
	NAME	DATE	NOTES	
CLIENT: BNB UNIVERSITY				
PROJECT: ALLIED BANK BRANCH BNB				
SHEET TITLE: GENERAL NOTES				
FARAZ ARCHITECTS AND CONSULTANT SERVICES				
PAKISTAN (PVT) LIMITED, SUKKUR				
DESN.	RECOMMENDED		VER./CKD.	APPROVED
DWN.	Seed Ahmed			
CKD.	=		DATE	DRAWING NO.
SUBM.	=		FEB, 2010	3103/50T/C/06G101
			SCALE	1/8"=1'-0"

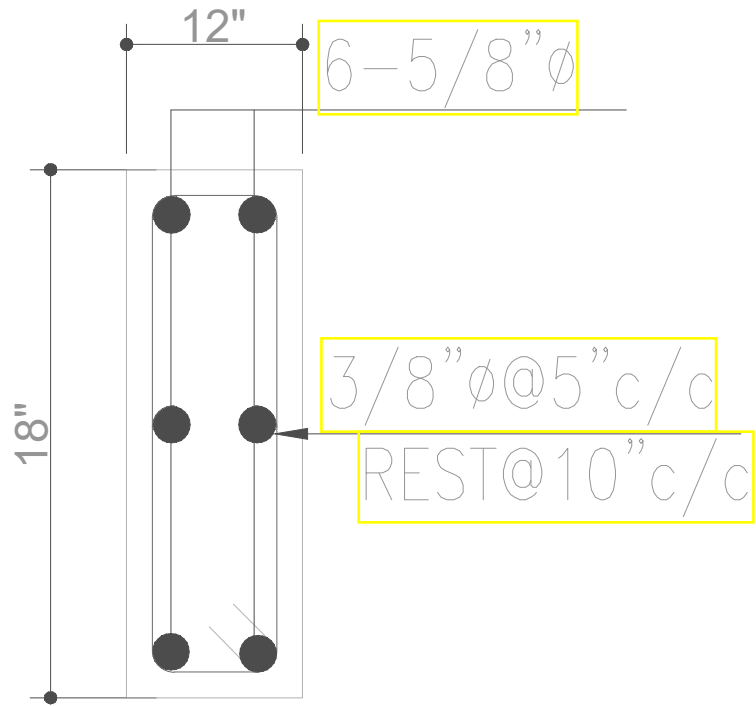


- NOTES
- FOR GENERAL NOTES REFER DWG. NO.//...//.....
 - FOR MSCCELLANEOUS DETAILS REFER DWG. NO. 3103/50T/TD/06G102.

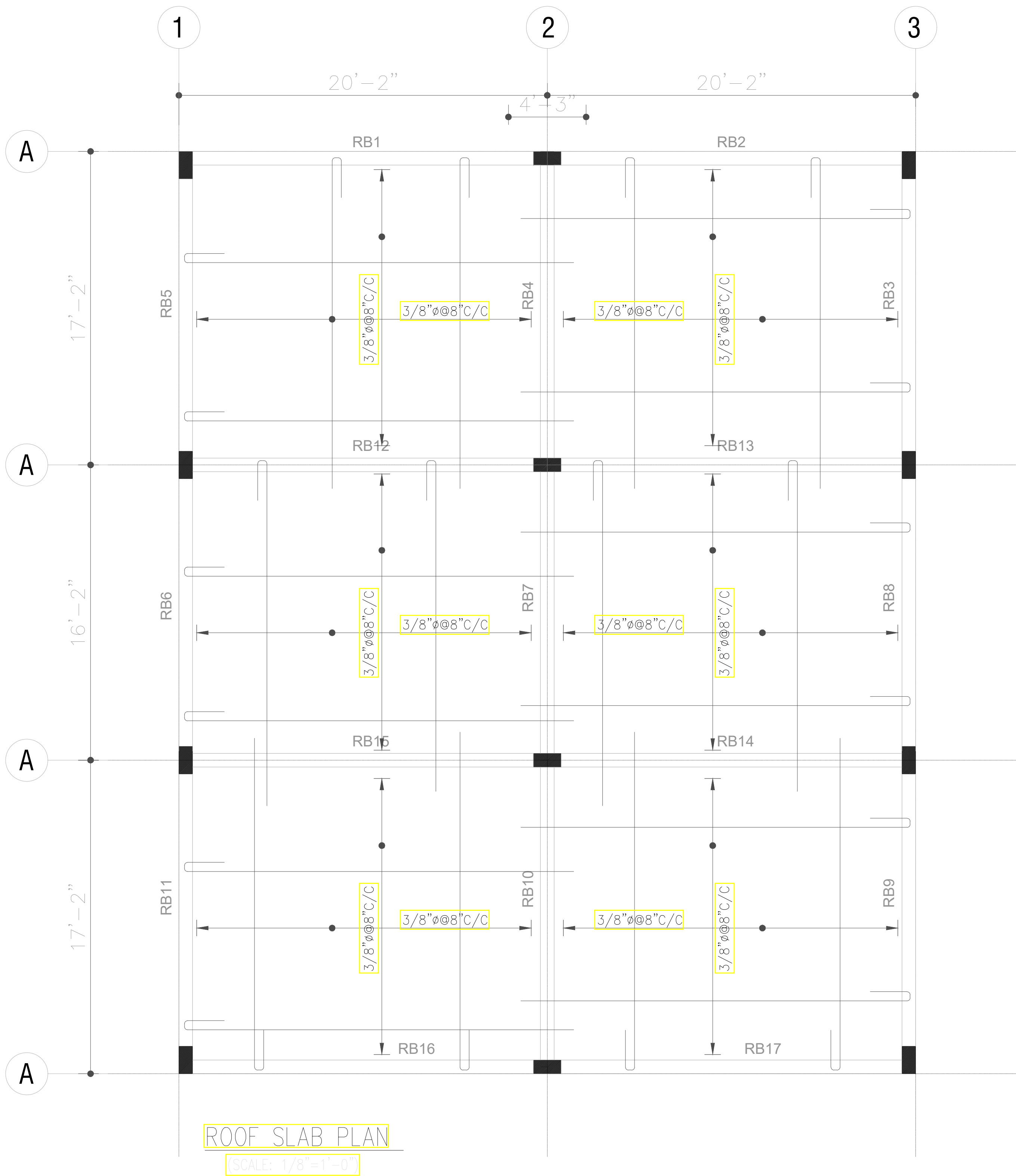
PROJECT	DATE	REVISED AS SHOWN	NOTES
CLIENT	NAME	DATE	
BNB UNIVERSITY			
ALLIED BANK BRANCH BNB			
PLAN AT PLINTH LEVEL			
UNITED ENGINEERING SERVICES			
PAKISTAN (PVT) LIMITED, NAWAB SHAH			
DESIGN	RECOMMENDED	VER./CHKD.	APPROVED
DRAWN	Soeed Ahmed		
CHKD.		DATE	DRAWING NO.
SUBM.		OCT, 2025	3103/50T/C/06G108
		SCALE	REV.
		1/8"=1'-0"	A



FOOTING F-1



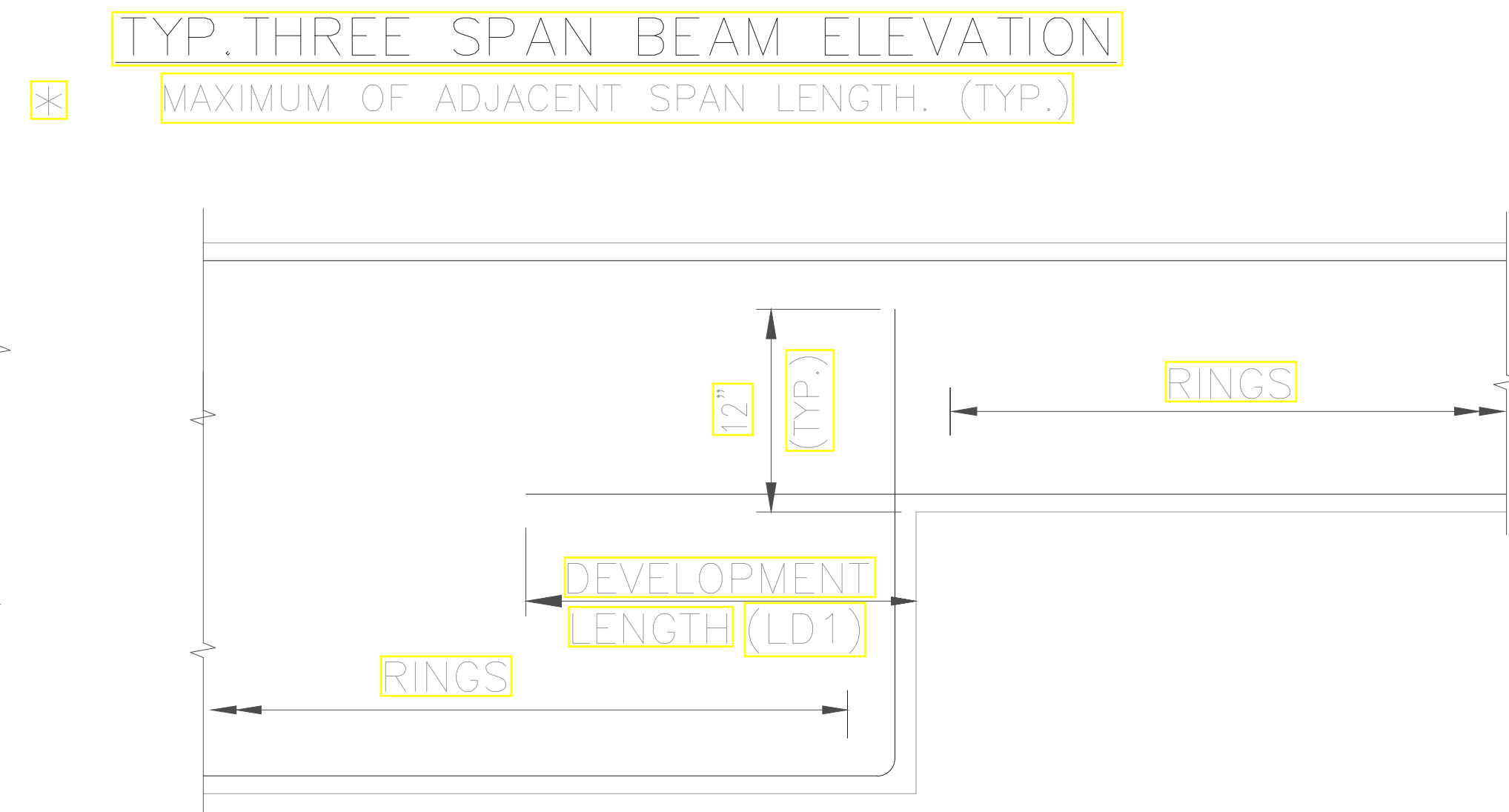
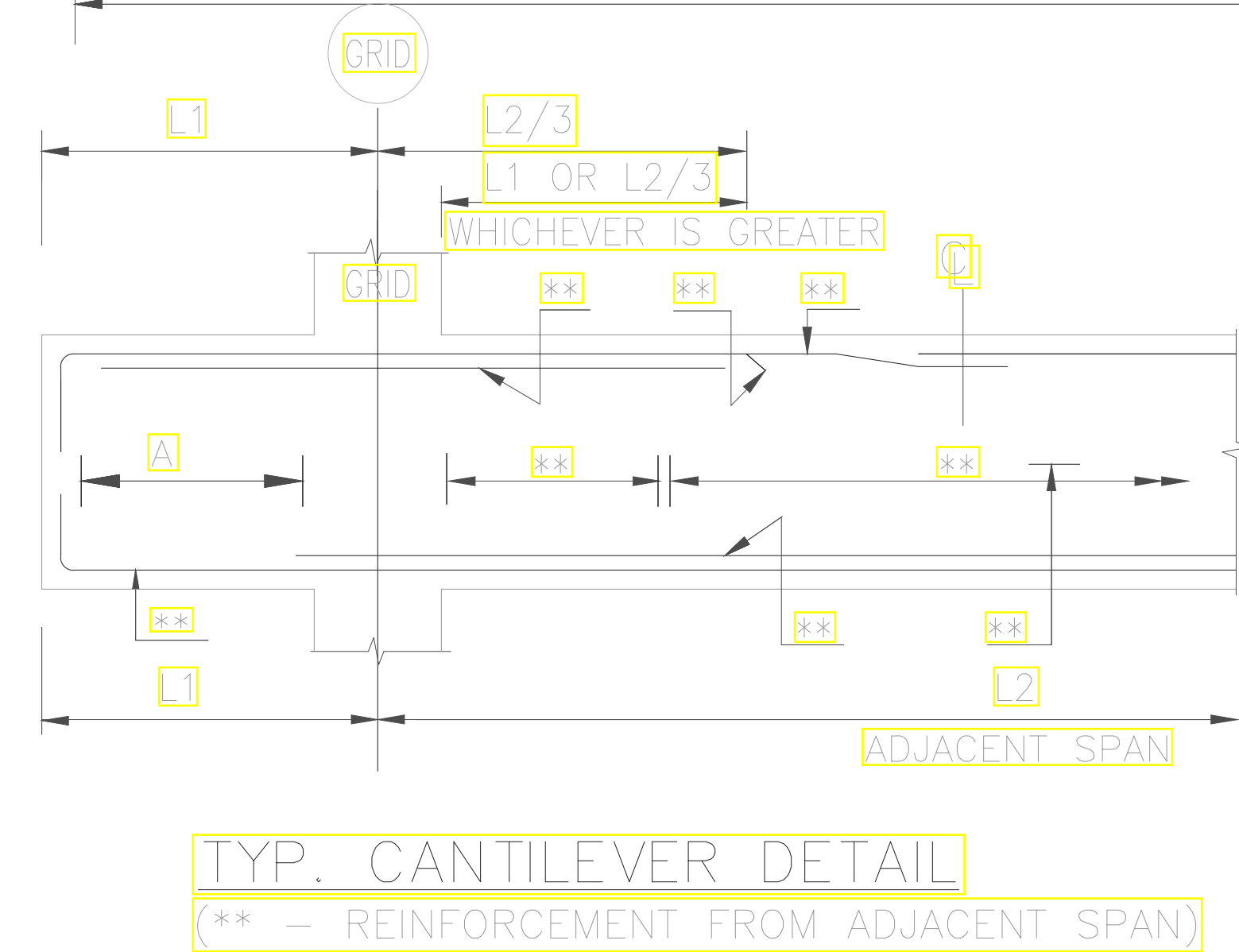
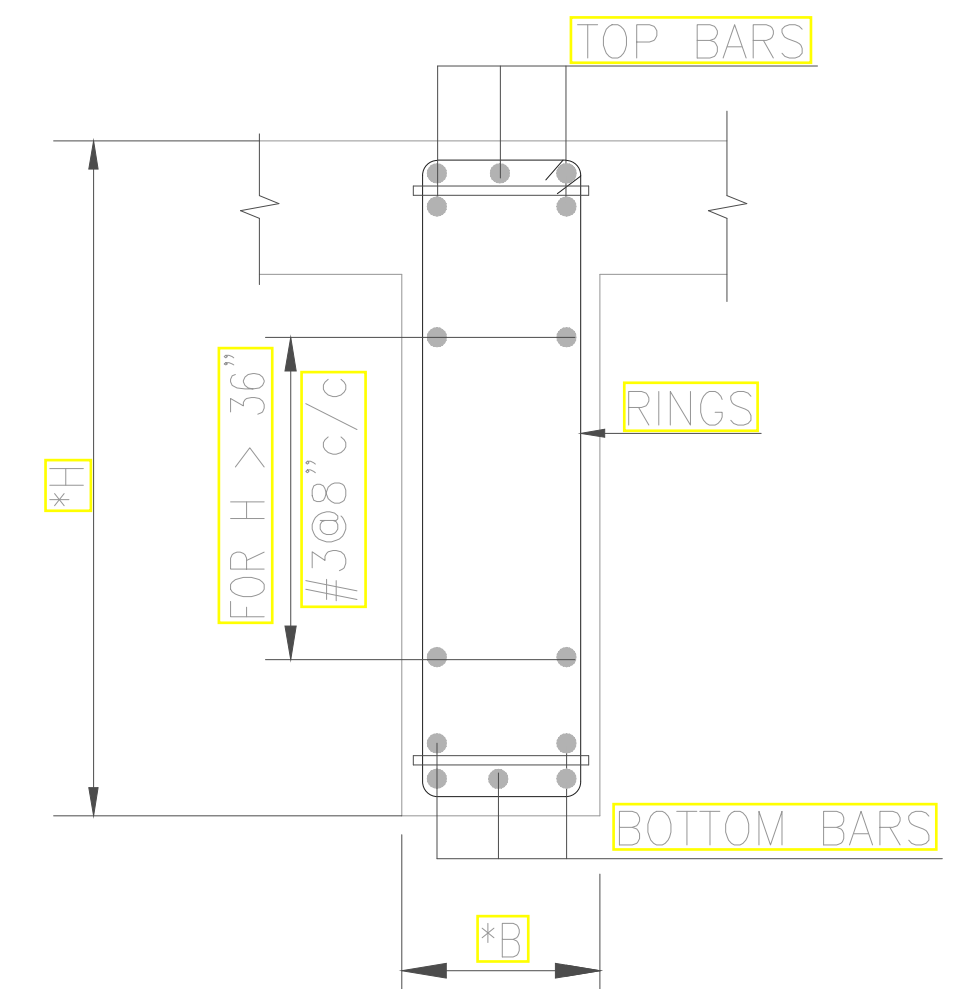
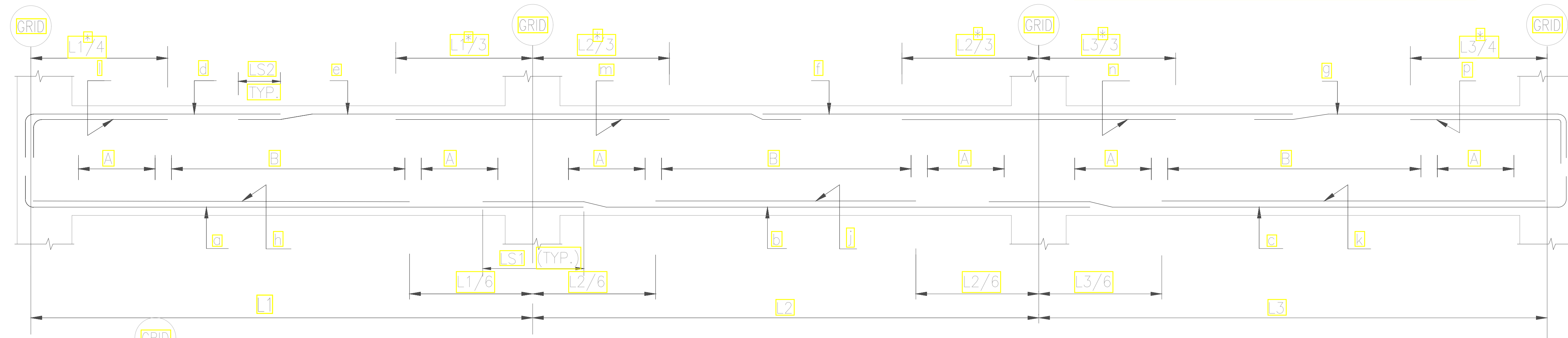
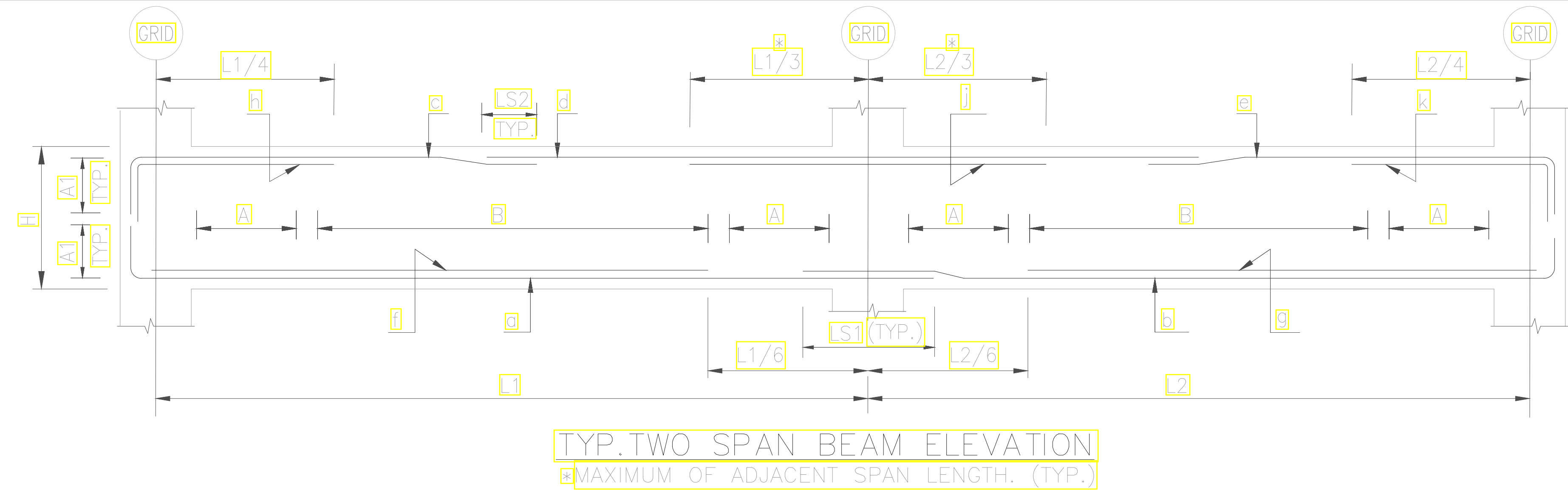
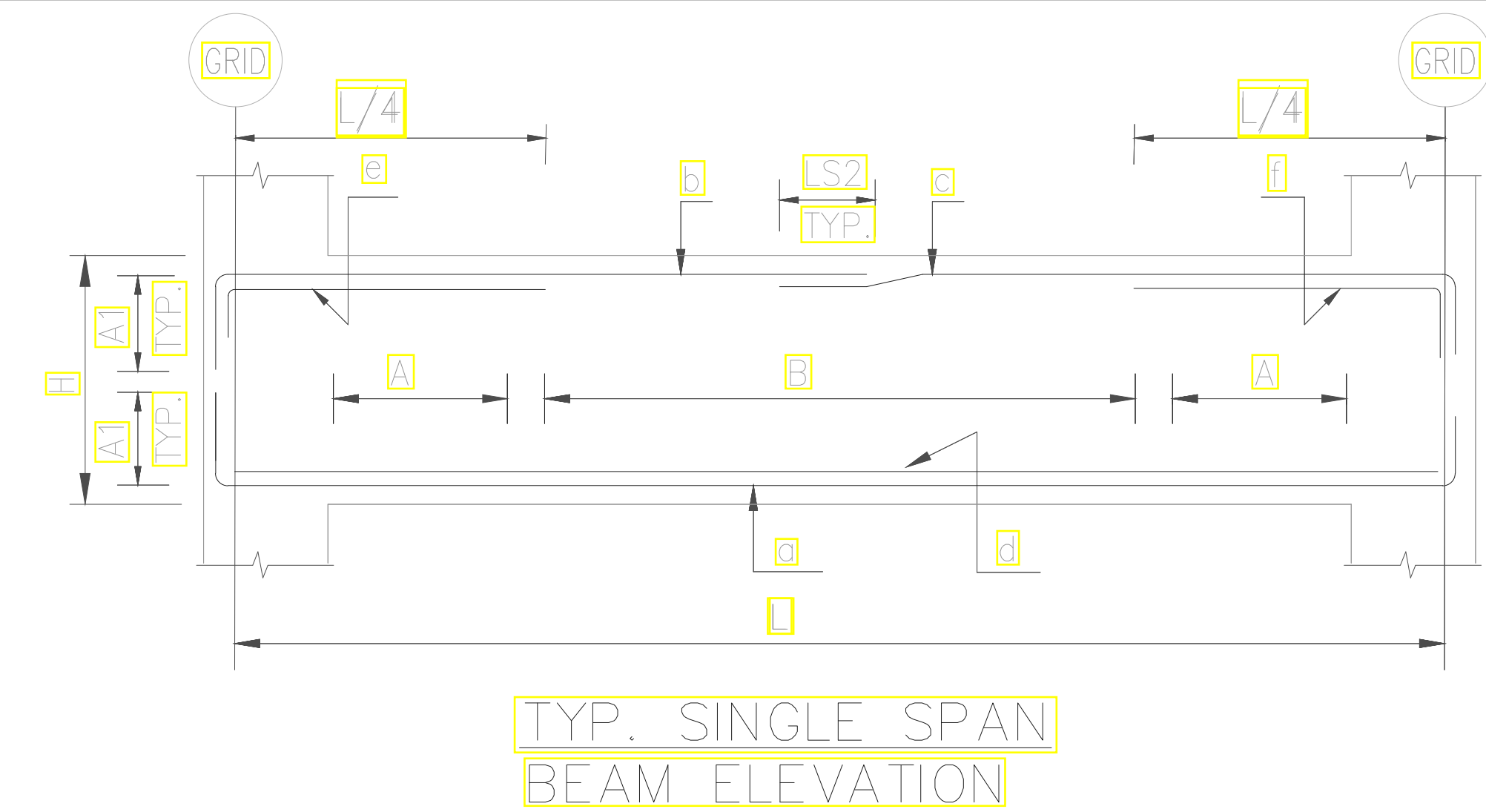
COLUMN C-1



NOTES

- 1- FOR GENERAL NOTES REFER DWG. NO. 3103/50T/C/06G101.
- 2- ALL BEAMS IN PLAN ARE TO BE READ FROM BOTTOM TO TOP AND LEFT TO RIGHT.
- 3- SPLICE, DEVELOPMENT & STANDARD HOOK LENGTH FOR ALL BEAM REINF. SHALL BE AS PER TABLE-1, UNLESS NOTED OTHERWISE.
- 4- THE LOCATION OF LAP SHOWN IN BEAM ELEVATION IS INDICATIVE. IT MAY BE RELOCATED, ELIMINATED OR ADDED AS PER ACTUAL BEAM LENGTH.
- 5- THE DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT FRAMING PLAN & BEAM SCHEDULE.

REVISIONS	☐					
	☐	REASON	24-02-25	REVISED AS SHOWN		
		NAME	DATE	NOTES		
	CLIENT		BAGUM NUSRAT BHUTTO UNIVERSITY			
	PROJECT		ALLIED BANK BRANCH BNB			
SHEET TITLE		PLAN AT PLINTH LEVEL				
UNITED ENGINEERING SERVICES PAKISTAN (PVT) LIMITED, NAWAB SHAH						
DESIGN			RECOMMENDED	VER./CHKD	APPROVED	
DWN	Saeed Ahmed					
CHKD			DATE	DRAWING NO.	SCALE	
SUBM			OCT, 2025	3103/50T/C/06G108	1/8"=1'-0"	
					REV A	



NOTES

- 1- FOR GENERAL NOTES REFER DWG. NO. 3103/50T/C/06G101.
- 2- ALL BEAMS IN PLAN ARE TO BE READ FROM BOTTOM TO TOP AND LEFT TO RIGHT.
- 3- SPLICE, DEVELOPMENT & STANDARD HOOK LENGTH FOR ALL BEAM REINF. SHALL BE AS PER TABLE-1, UNLESS NOTED OTHERWISE.
- 4- THE LOCATION OF LAP SHOWN IN BEAM ELEVATION IS INDICATIVE, IT MAY BE RELOCATED, ELIMINATED OR ADDED AS PER ACTUAL BEAM LENGTH.
- 5- THE DRAWING IS TO BE READ IN CONJUNCTION WITH RELAVANT FRAMING PLAN & BEAM SCHEDULE.

TABLE-1

SIZE OF BAR	DEVELOPMENT LENGTHS		SPLICE LENGTHS		STANDARD HOOK LENGTH A1
	OTHER BARS "LD1"	TOP BARS "LD2"	OTHER BARS "LS1"	TOP BARS "LS2"	
#3	1'-5"	1'-10"	1'-10"	1'-0"	0'-8"
#4	1'-10"	2'-6"	2'-6"	1'-3"	0'-10"
#5	2'-4"	3'-0"	3'-0"	1'-8"	1'-0"
#6	2'-9"	3'-7"	3'-7"	2'-0"	1'-2"
#8	4'-3"	5'-0"	5'-0"	2'-6"	1'-6"

TYPICAL DETAIL

WHERE X- SECTION CHANGES

REVISIONS			
	BASIS	18-02-25	REVISED AS SHOWN
	NAME	DATE	NOTES
CLIENT	BAGUM NUSRAT BHUTTO UNIVERSITY		
PROJECT	ALLIED BANK BRANCH BNB		
SHEET TITLE	TYPICAL BEAM ELEVATIONS (SHEET I)		
UNITED ENGINEERING SERVICES PAKISTAN (PVT) LIMITED, NAWAB SHAH			
DESIGN	RECOMMENDED	VER./CHKD.	APPROVED
DWN	Saeed Ahmed		
CHKD		DATE	SCALE
SUBV		FEB, 2026	1/8"=1'-0"
DRAWING NO.		SCALE	REV.
			A

CONSTRUCTION OF ALLIED BANK

BAGUM NUSRAT BHUTTO WOMEN UNIVERSITY

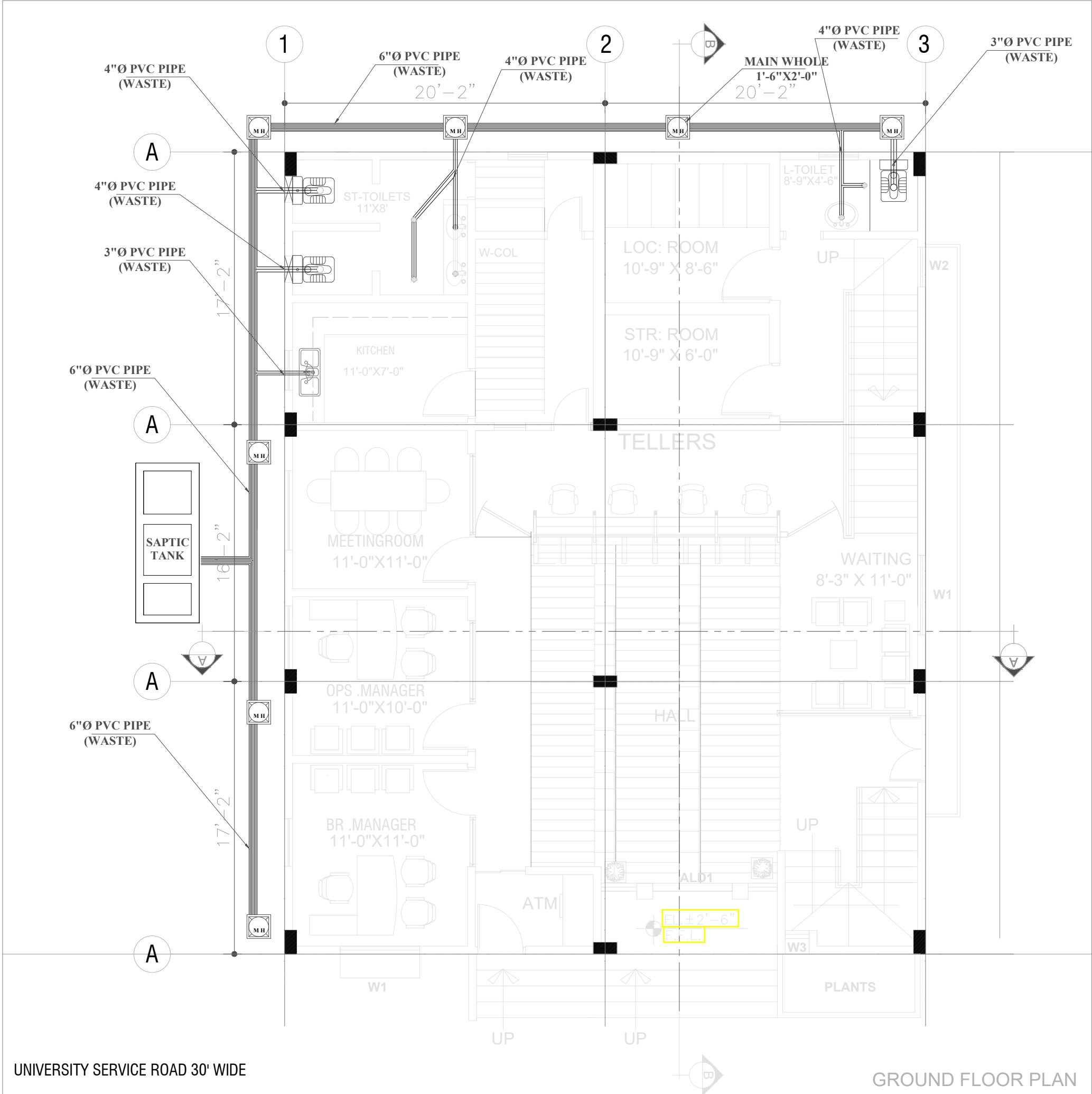
AT
SUKKUR DISTRICT

WORKING DRAWINGS
VOLUME - I

APRIL, 2026

FARAZ ARCHITECTS AND CONSULTANT SERVICES
PAKISTAN (PVT) LIMITED

PLUMBING DRAWINGS



NOTES:

- 1- ALL DIMENSIONS ARE IN FEET & INCHES
- 2- READ THIS DRAWING IN CONJUNCTION WITH RELEVANT STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- 3- LOCATION OF PUMPS, VALVES AND FITTINGS ARE TENTATIVE. ACTUAL LOCATION AND POSITION WILL DEPEND ON SELECTED EQUIPMENT AND PIPING.
- 4- SIZES AND DETAILS OF PUMP FOUNDATIONS AND OTHER EQUIPMENT SHALL BE ACCORDANCE WITH SPECIFICATIONS OF THE MANUFACTURER.
- 5- CONTRACTOR SHALL PREPARE SHOP DRAWINGS AND SUBMIT FOR APPROVAL, INDICATING EXACT LENGTH AND DIMENSIONS OF PIPE HANGERS AND SUPPORTS.
- 6- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN, FABRICATION & INSTALLATION OF GIRDER & PULLY BLOCK ARRANGEMENT AND SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO SUPPLY AND INSTALLATION.
- 7- THE DIMENSION OF UNDER-GROUND & PUMP-HOUSE CHANGE WITH THE CHANGE IN LOCATION.

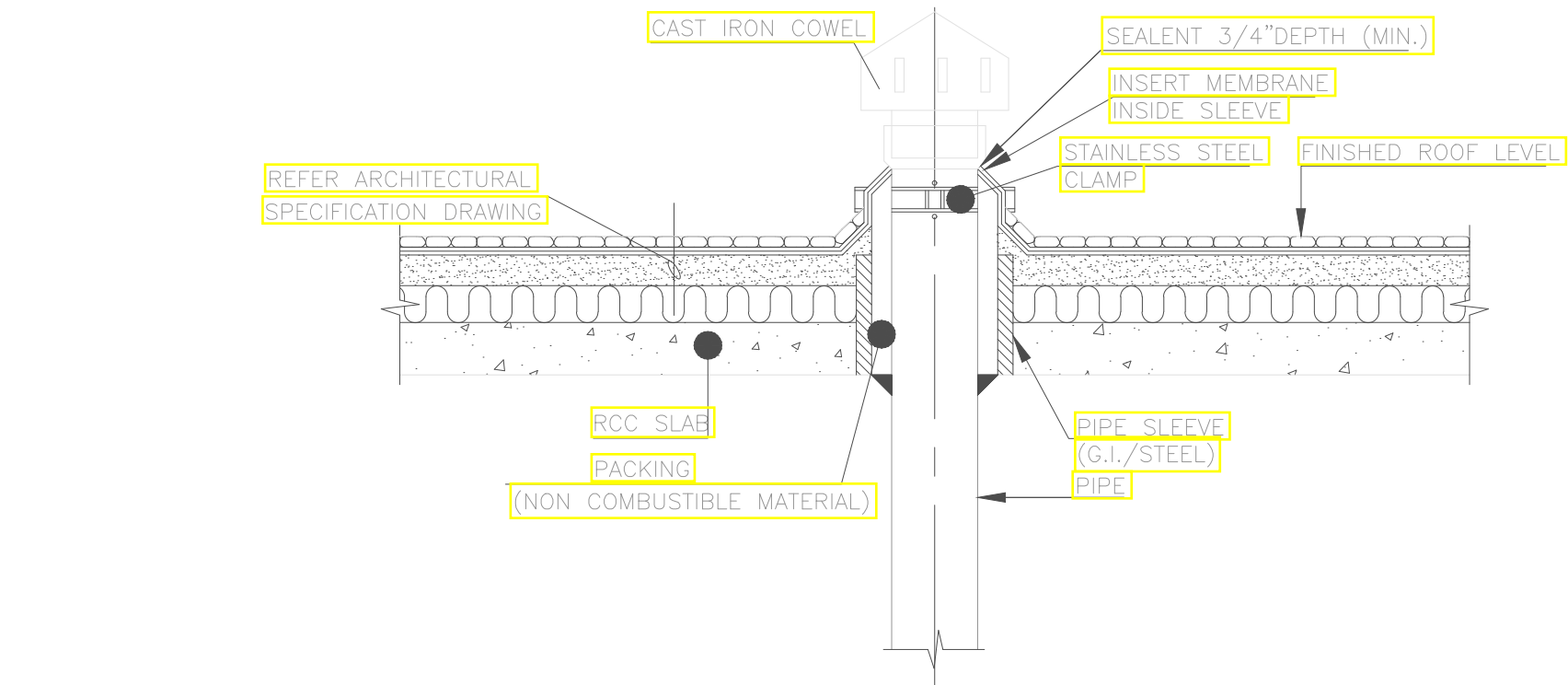
POTABLE WATER PUMP AND MOTOR:

- 1- ONE PUMP SHALL BE DUTY AND ONE SHALL BE STANDBY.
- 2- DUTY PUMP WILL BE AUTOMATICALLY SELECTABLE.
- 3- DUTY SHALL CHANGE BETWEEN THE PUMPS ON EACH START/STOP CYCLE OF THE PUMP.
- 4- THE PUMPS SHALL BE PROTECTED FROM DRY RUNNING BY LOW WATER LEVEL CUT OFF SWITCH.
- 5- THE PUMPS SHALL BE CONTROLLED BY HIGH AND LOW WATER LEVEL SWITCHES IN OVERHEAD TANK.
- 6- THE LEVEL SWITCHES SHALL BE PROVIDED FOR OVERHEAD & UNDER GROUND TANK AS PER REQUIRED LEVEL OR AS APPROVED BY ENGINEER.

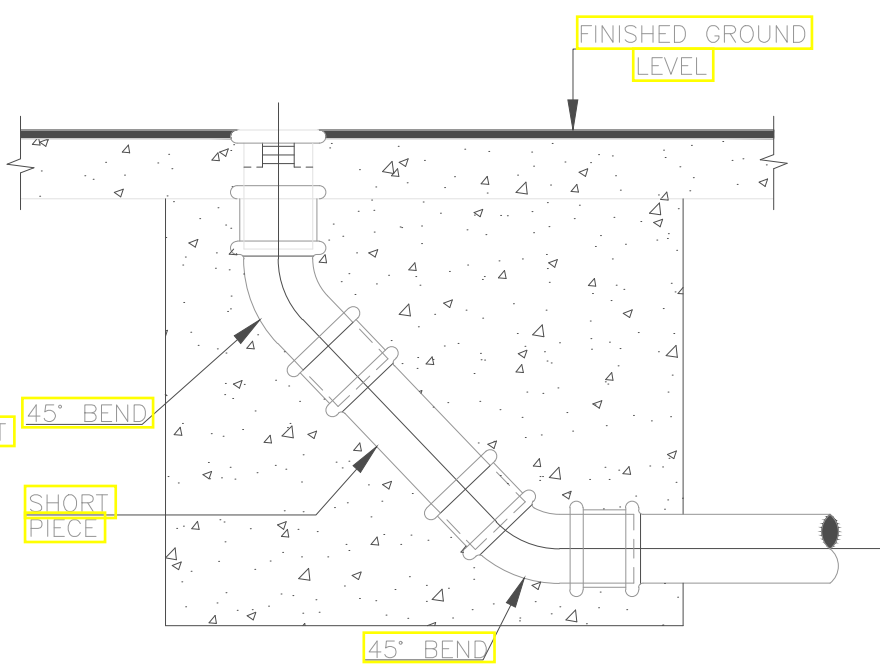
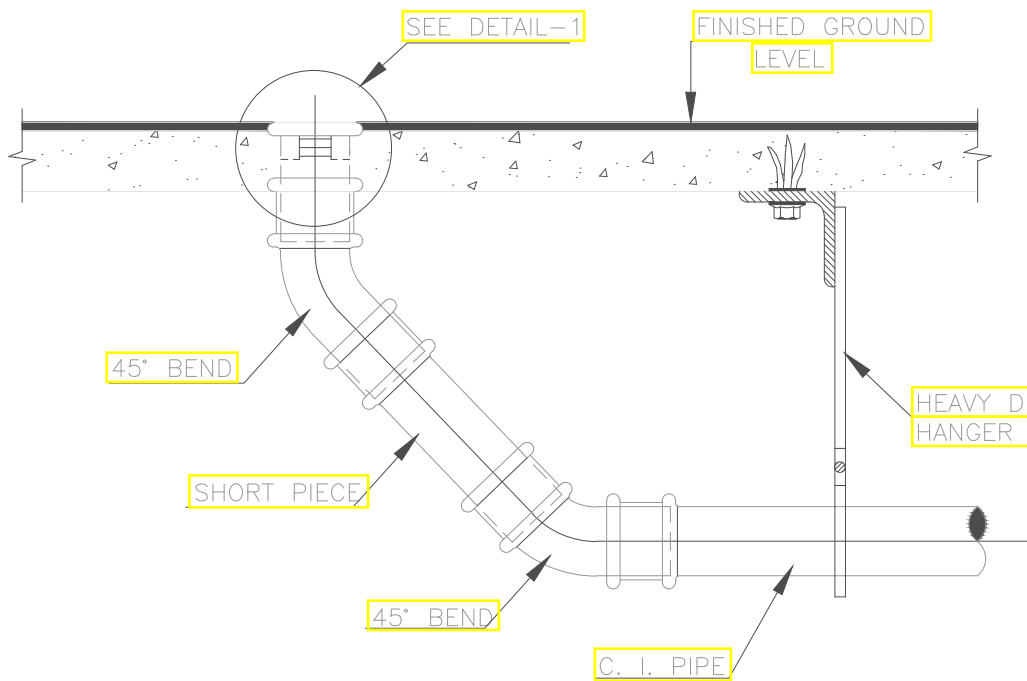
LEGENDS:

- GATE VALVE
- CHECK VALVE
- REDUCER ON PUMP DISCHARGE
- PUMP AND MOTOR IN PLAN
- P-1 POTABLE WATER PUMP AND MOTOR
- PIPE LINE SUPPORT
- PS PRESSURE SWITCH
- PG PRESSURE GAUGE
- SURGE RELIEF VALVE

REVISIONS	B			
	A	BASIT	13-04-26	REVISED AS SHOWN
		NAME	DATE	NOTES
	CLIENT:			
BNB UNIVERSITY				
PROJECT:				
ALLIED BANK BRANCH BNB				
SHEET TITLE:				
PLUMBING DRAWING				
FARAZ ARCHITECTS AND CONSULTANT				
DESN.		RECOMMENDED	VER./CKD.	APPROVED
DWN.		Saeed Ahmed		
CKD.		=	DATE	DRAWING NO.
SUBM.		=		SCALE
			3103/50T/C/06G108	1/8"=1'-0"
				REV. A



VENT PIPE DETAILS



FLOOR CLEANOUT DETAILS

CLEANOUT INSTALLATION DETAILS (FOR PIPE RUNNING IN FALSE CEILING)

NOTES:

- ALL DIMENSIONS ARE IN FEET & INCHES
- READ THIS DRAWING IN CONJUNCTION WITH RELEVANT STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- LOCATION OF PUMPS, VALVES AND FITTINGS ARE TENTATIVE. ACTUAL LOCATION AND POSITION WILL DEPEND ON SELECTED EQUIPMENT AND PIPING.
- SIZES AND DETAILS OF PUMP FOUNDATIONS AND OTHER EQUIPMENT SHALL BE ACCORDANCE WITH SPECIFICATIONS OF THE MANUFACTURER.
- CONTRACTOR SHALL PREPARE SHOP DRAWINGS AND SUBMIT FOR APPROVAL INDICATING EXACT LENGTH AND DIMENSIONS OF PIPE HANGERS AND SUPPORTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN, FABRICATION & INSTALLATION OF GIRDER & PULLEY BLOCK ARRANGEMENT AND SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO SUPPLY AND INSTALLATION.
- THE DIMENSION OF UNDER-GROUND & PUMP-HOUSE CHANGE WITH THE CHANGE IN LOCATION.

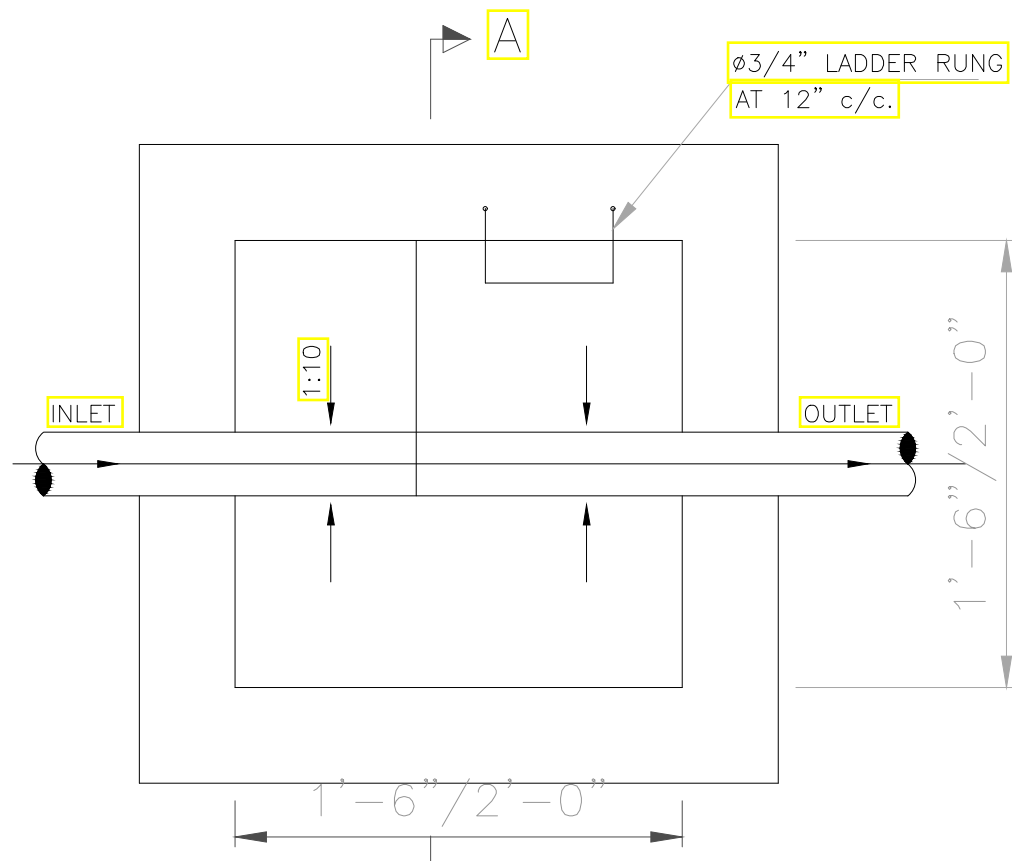
POTABLE WATER PUMP AND MOTOR:

- ONE PUMP SHALL BE DUTY AND ONE SHALL BE STANDBY.
- DUTY PUMP WILL BE AUTOMATICALLY SELECTABLE.
- DUTY SHALL CHANGE BETWEEN THE PUMPS ON EACH START/STOP CYCLE OF THE PUMP.
- THE PUMPS SHALL BE PROTECTED FROM DRY RUNNING BY LOW WATER LEVEL CUT OFF SWITCH.
- THE PUMPS SHALL BE CONTROLLED BY HIGH AND LOW WATER LEVEL SWITCHES IN OVERHEAD TANK.
- THE LEVEL SWITCHES SHALL BE PROVIDED FOR OVERHEAD & UNDER GROUND TANK AS PER REQUIRED LEVEL OR AS APPROVED BY ENGINEER.

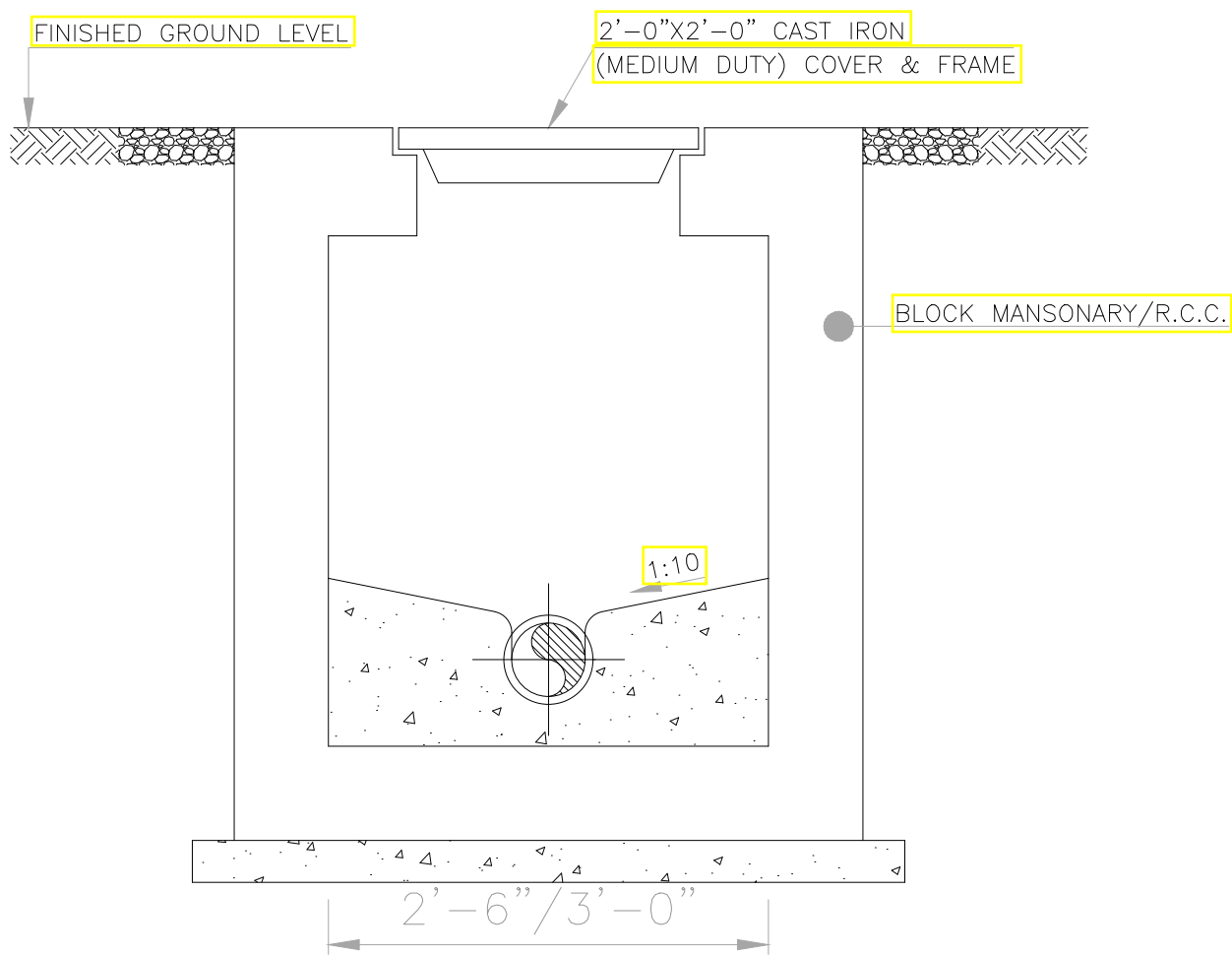
LEGENDS:

	GATE VALVE
	CHECK VALVE
	REDUCER ON PUMP DISCHARGE
	PUMP AND MOTOR IN PLAN
	POTABLE WATER PUMP AND MOTOR
	PIPE LINE SUPPORT
	PRESSURE SWITCH
	PRESSURE GAUGE
	SURGE RELIEF VALVE

REVISIONS	B			
	A	BASIT	13-04-26	REVISED AS SHOWN
		NAME	DATE	NOTES
CLIENT: BNB UNIVERSITY				
PROJECT: ALLIED BANK BRANCH BNB				
SHEET TITLE: MISLENIUS DETAILS DRAWING FOR PLUMBING				
FARAZ ARCHITECTS AND CONSULTANT				
DESN.	RECOMMENDED		VER./CKD.	APPROVED
DWN.	Saeed Ahmed			
CKD.	—		DATE	DRAWING NO.
SUBM.	—			SCALE
			3103/50T/C/06G108	1/8"=1'-0"
				REV. A



PLAN-MANHOLE



SECTION A-A

NOTES:

- 1- ALL DIMENSIONS ARE IN FEETS & INCHES
- 2- READ THIS DRAWING IN CONJUNCTION WITH RELEVANT STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- 3- LOCATION OF PUMPS, VALVES AND FITTINGS ARE TENTATIVE. ACTUAL LOCATION AND POSITION WILL DEPEND ON SELECTED EQUIPMENT AND PIPING.
- 4- SIZES AND DETAILS OF PUMP FOUNDATIONS AND OTHER EQUIPMENT SHALL BE ACCORDANCE WITH SPCIFICATIONS OF THE MANUFACTURER.
- 5- CONTRACTOR SHALL PREPARE SHOP DRAWINGS AND SUBMIT FOR APPROVAL. INDICATING EXACT LENGTH AND DIMENSIONS OF PIPE HANGERS AND SUPPORTS.
- 6- THE COTRACTOR SHALL BE RESPONSIBLE FOR DESIGN,FABRICATION & INSTALLATION OF GIRDER & PULLEY BLOCK ARRANGEMENT AND SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO SUPPLY AND INSTALLATION.
- 7- THE DIMENSION OF UNDER-GROUND & PUMP-HOUSE CHANGE WITH THE CHANGE IN LOCATION.

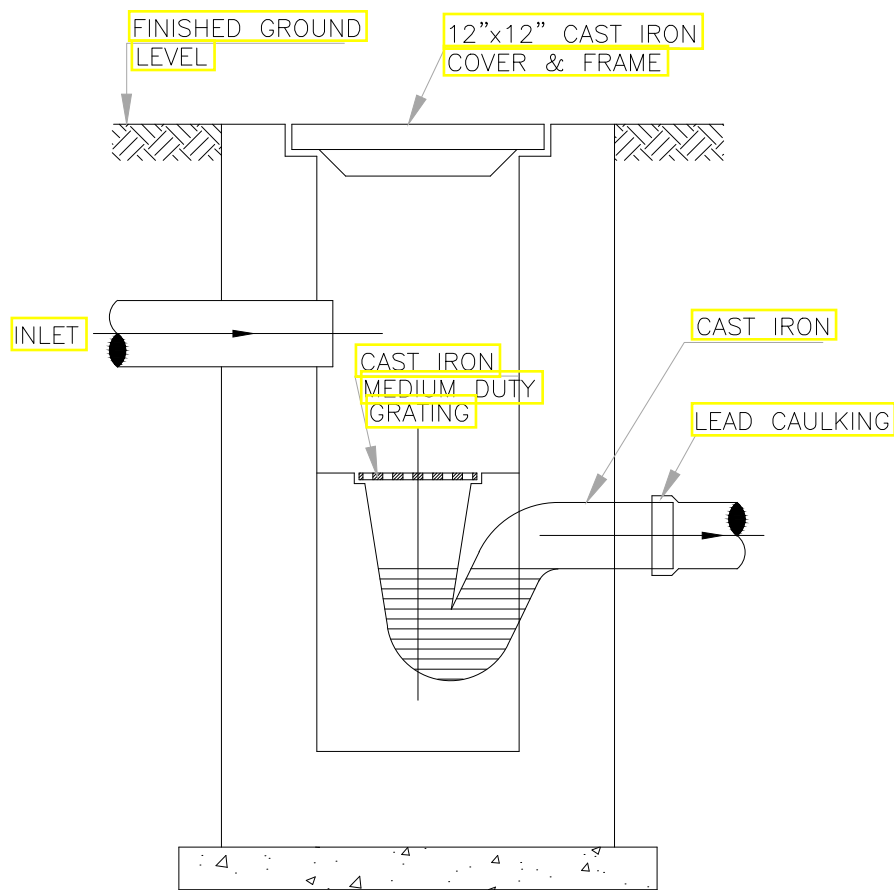
POTABLE WATER PUMP AND MOTOR:

- 1- ONE PUMP SHALL BE DUTY AND ONE SHALL BE STANDBY.
- 2- DUTY PUMP WILL BE AUTOMATICALLY SELECTABLE.
- 3- DUTY SHALL CHANCE BETWEEN THE PUMPS ON EACH START/STOP CYCLE OF THE PUMP.
- 4- THE PUMPS SHALL BE PROTECTED FROM DRY RUNNING BY LOW WATER LEVEL CUT OF SWITCH.
- 5- THE PUMPS SHALL BE CONTROLLED BY HIGH AND LOW WATER LEVEL SWITCHES IN OVERHEAD TANK.
- 6- THE LEVEL SWITCHES SHALL BE PROVIDED FOR OVERHEAD & UNDER GROUND TANK AS PER REQUIRED LEVEL OR AS APPROVED BY ENGINEER.

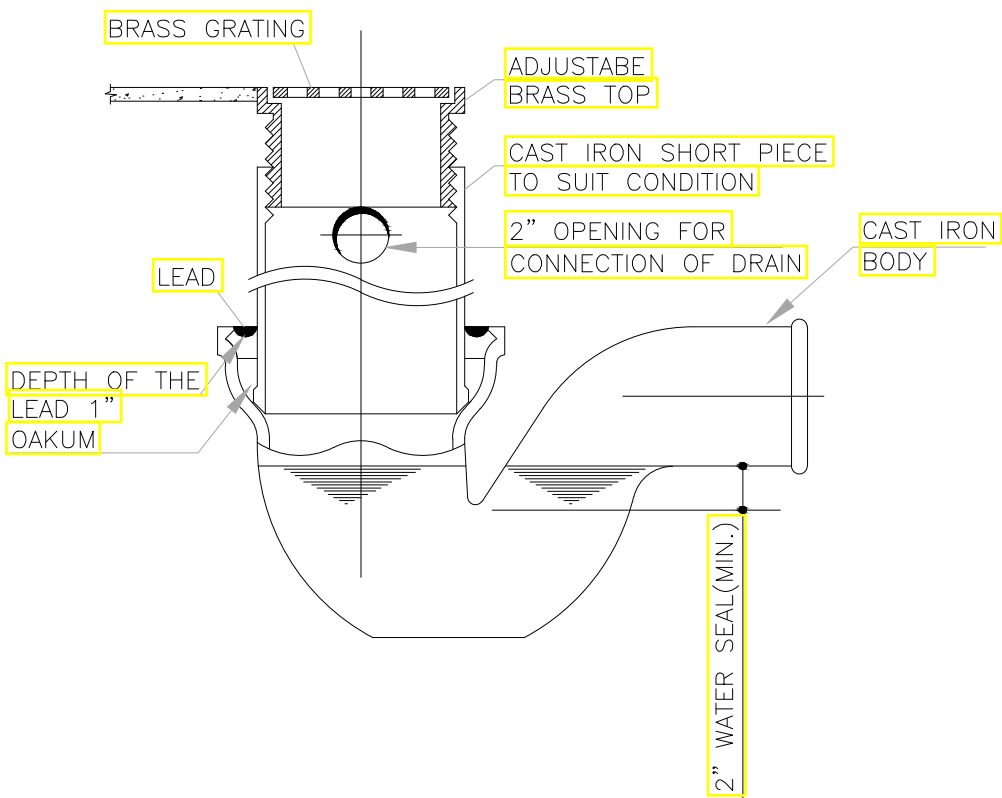
LEGENDS:

- GATE VALVE
- CHECK VALVE
- REDUCER ON PUMP DISCHARGE
- PUMP AND MOTOR IN PLAN
- P-1 POTABLE WATER PUMP AND MOTOR
- PIPE LINE SUPPORT
- PS PRESSURE SWITCH
- PG PRESSURE GAUGE
- SURGE RELIEF VALVE

REVISIONS	B			
	A	BASIT	13-04-26	REVISED AS SHOWN
		NAME	DATE	NOTES
CLIENT: BNB UNIVERSITY				
PROJECT: ALLIED BANK BRANCH BNB				
SHEET TITLE: MISLENIOUS DETAILS DRAWING FOR PLUMBING				
FARAZ ARCHITECTS AND CONSULTANT				
DESIGNER		RECOMMENDED	VER./CHKD.	APPROVED
DWN. Saeed Ahmed				
CKD.		DATE	DRAWING NO.	SCALE
SUBM.			3103/50T/C/06G108	1/8"=1'-0"
				REV. A



SECTIONAL DETAILS OF GULLY TRAP



DETAIL-FLOOR DRAIN WITH TRAP

NOTES:

- 1- ALL DIMENSIONS ARE IN FEETS & INCHES
- 2- READ THIS DRAWING IN CONJUNCTION WITH RELEVANT STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- 3- LOCATION OF PUMPS, VALVES AND FITTINGS ARE TENTATIVE. ACTUAL LOCATION AND POSITION WILL DEPEND ON SELECTED EQUIPMENT AND PIPING.
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- 7- THE DIMENSION OF UNDER-GROUND & PUMP-HOUSE CHANGE WITH THE CHANGE IN LOCATION.

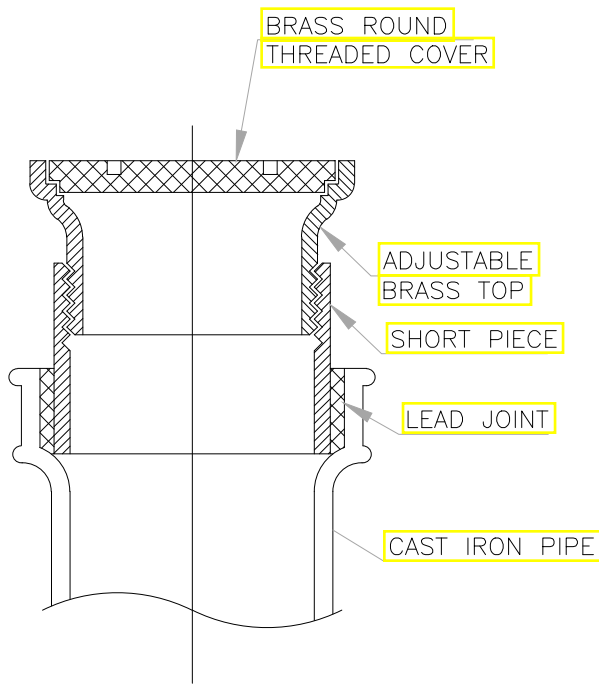
POTABLE WATER PUMP AND MOTOR:

- 1- ONE PUMP SHALL BE DUTY AND ONE SHALL BE STANDBY.
- 2- DUTY PUMP WILL BE AUTOMATICALLY SELECTABLE.
- 3- DUTY SHALL CHANGE BETWEEN THE PUMPS ON EACH START/STOP CYCLE OF THE PUMP.
- 4- THE PUMPS SHALL BE PROTECTED FROM DRY RUNNING BY LOW WATER LEVEL CUT OFF SWITCH.
- 5- THE PUMPS SHALL BE CONTROLLED BY HIGH AND LOW WATER LEVEL SWITCHES IN OVERHEAD TANK.
- 6- THE LEVEL SWITCHES SHALL BE PROVIDED FOR OVERHEAD & UNDER GROUND TANK AS PER REQUIRED LEVEL OR AS APPROVED BY ENGINEER.

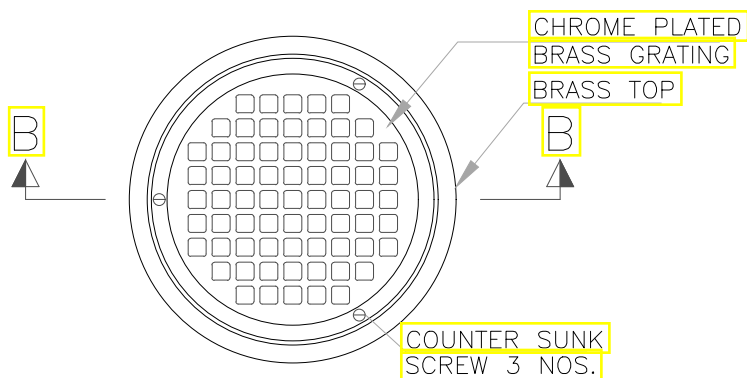
LEGENDS:

- GATE VALVE
- CHECK VALVE
- REDUCER ON PUMP DISCHARGE
- PUMP AND MOTOR IN PLAN
- P-1 POTABLE WATER PUMP AND MOTOR
- PIPE LINE SUPPORT
- PS PRESSURE SWITCH
- PG PRESSURE GAUGE
- SURGE RELIEF VALVE

REVISIONS			
	NAME	DATE	NOTES
B			
A	BASIT	13-04-26	REVISED AS SHOWN
CLIENT: BNB UNIVERSITY			
PROJECT: ALLIED BANK BRANCH BNB			
SHEET TITLE: MISLENIIOUS DETAILS DRAWING FOR PLUMBING			
FARAZ ARCHITECTS AND CONSULTANT			
DESN.	RECOMMENDED		VER./CKD.
DWN. Saeed Ahmed			APPROVED
CKD.	DATE	DRAWING NO.	SCALE
SUBM.		3103/50T/C/06G108	1/8"=1'-0"
			REV. A

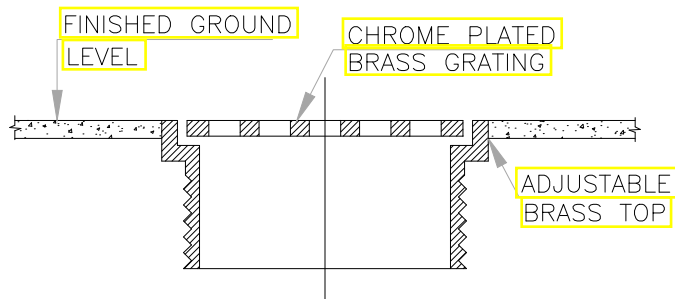


DETAIL-1



PLAN

CHROME PLATED BRASS GRATING COVER



SECTION B-B

NOTES:

- 1- ALL DIMENSIONS ARE IN FEET & INCHES
- 2- READ THIS DRAWING IN CONJUNCTION WITH RELEVANT STRUCTURAL AND ARCHITECTURAL DRAWINGS.
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- 7- THE DIMENSION OF UNDER-GROUND & PUMP-HOUSE CHANGE WITH THE CHANGE IN LOCATION.

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- 6- THE LEVEL SWITCHES SHALL BE PROVIDED FOR OVERHEAD & UNDER GROUND TANK AS PER REQUIRED LEVEL OR AS APPROVED BY ENGINEER.

LEGENDS:

	GATE VALVE
	CHECK VALVE
	REDUCER ON PUMP DISCHARGE
	PUMP AND MOTOR IN PLAN
	POTABLE WATER PUMP AND MOTOR
	PIPE LINE SUPPORT
	PRESSURE SWITCH
	PRESSURE GAUGE
	SURGE RELIEF VALVE

REVISIONS	B			
	A	BASIT	13-04-26	REVISED AS SHOWN
		NAME	DATE	NOTES
CLIENT: BNB UNIVERSITY				
PROJECT: ALLIED BANK BRANCH BNB				
SHEET TITLE: MISLENIIOUS DETAILS DRAWING FOR PLUMBING				
FARAZ ARCHITECTS AND CONSULTANT				
DESN.	RECOMMENDED		VER./CKD.	APPROVED
DWN.	Saeed Ahmed			
CKD.	—		DATE	DRAWING NO.
SUBM.	—			3103/50T/C/06G108
			SCALE	REV.
			1/8"=1'-0"	A