

CLIENT



STATE BANK OF PAKISTAN

PROJECT

RETROFITTING WORKS OF BUILDINGS
AT S.B.P B.S.C QUETTA

TITLE

MAIN BUILDING

DRAWING'S

PREPARED BY



ESS - I - AAR
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO.314, 3 -RD. FLOOR MASHRIQ CENTRE
SIR SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL
BLOCK NO. 14, KARACHI, P. O. BOX NO. 7608
PHONE NO.4852589 FAX NO.(92-21) 4941059



LIST OF DRAWINGS

S.NO	DRAWING TITLE	DRAWING NO.
1	Ground Floor Plan	A-01
2	First Floor Plan	A-02
3	General Notes	S-00
4	Basement Plan	S-01
5	Section Retrofit Wall W.1, W.2 & W.3	S-02
6	Ground Floor Plan	S-03
7	Mezzanine Floor Plan	S-04



Client



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Job

RETROFITTING WORK OF BUILDINGS AT SBP BSC
QUETTA
MAIN BUILDING

Consultant



ESS-I-AAR
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO. 314, 3RD FLOOR, MASHROQ CENTER, SHIR
SHAH SULAIMAN ROAD, GULSHAN-E-E IQBAL BLOCK
NO. 14, KARACHI, P. O. BOX NO. 7608

Title

LIST OF DRAWINGS

Ref. Rev.

SCALE

N.T.S

DATE

DATE

DATE

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DATE

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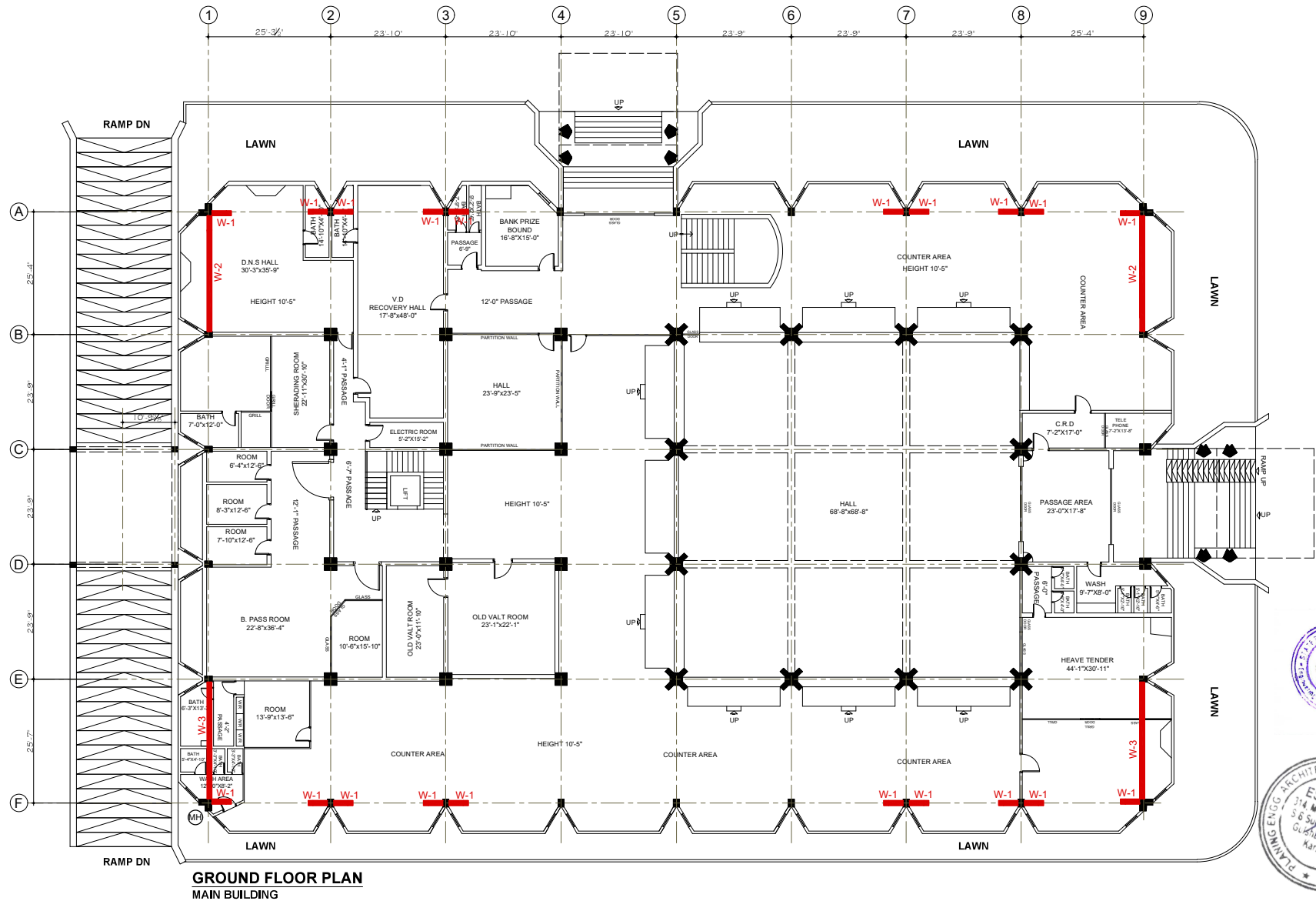
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Client



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QUETTA
MAIN BUILDING

Consultant



ESS I AAR
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO. 314, 3-RD FLOOR, MASHROO CENTER SHR
SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK
NO. 14, KARACHI, P. O. BOX NO. 7606

Title

GROUND FLOOR PLAN

Ref. Rev.

SCALE
N.T.S

DATE

DRAWN

COM. LOCATION:

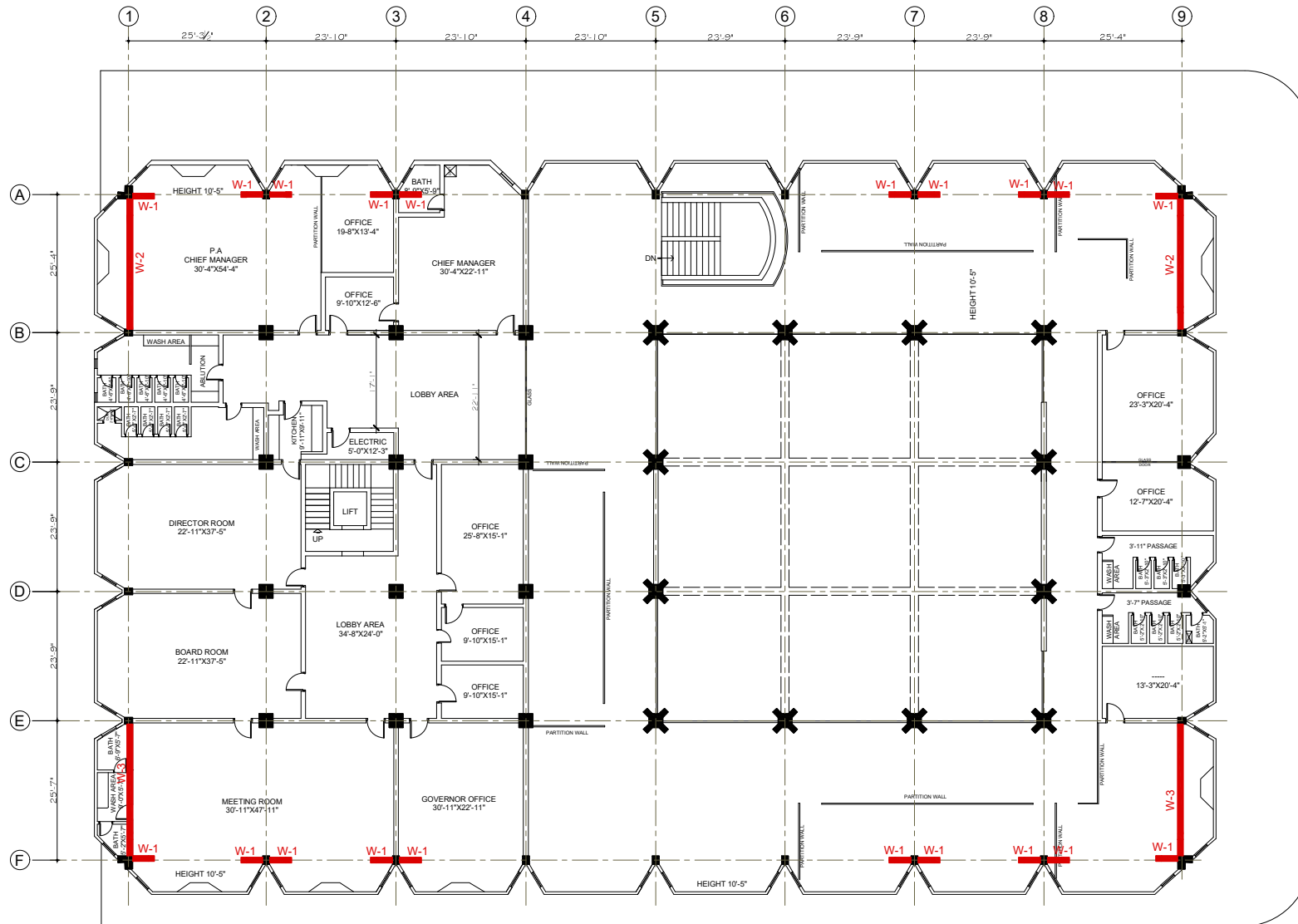
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JOB NO.

SHEET REF.

ARCH.

A-01



FIRST FLOOR PLAN
MAIN BUILDING



Client



STATE BANK OF PAKISTAN

Job

RETROFITTING WORK OF BUILDINGS AT SBP BSC
QUETTA
MAIN BUILDING

Consultant



ESS LAAR
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO. 314, 3RD FLOOR, MASHROQ CENTER, SHIR
SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK
NO. 14, KARACHI, P. O. BOX NO. 7606

Title

FIRST FLOOR PLAN

Ref. Rev.

SCALE

N.T.S

DATE



DRAWN

CHKD. BY

COM. LOCATION



CHKD. BY

JOB NO.

SHEET REF.

ARCH.

CHKD. BY

A-02

GENERAL NOTES.

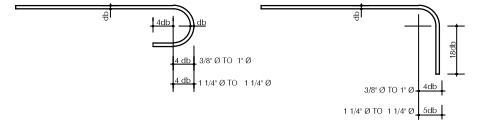
1. STRUCTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH SPECIFICATIONS, ALL DRAWINGS AND ALL CONTRACT DOCUMENTS.
2. CHECK ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND REPORT ANY INCONSISTENCIES TO THE CONSULTANTS AND PROJECT DIRECTOR BEFORE PROCEEDING WITH THE WORK.
3. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT DAMAGE TO EXISTING ADJACENT STRUCTURES.
5. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND DETAILS FOR LOCATION OF PITS, BASES, SUMPS, TRENCHES, DEPRESSIONS, GROOVES, CURBS, CHAMFERS AND SLOPES NOT SHOWN ON STRUCTURAL DRAWINGS.
6. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ALL REQUIREMENTS FOR SERVICES PENETRATIONS ETC. FOR CONSULTANTS APPROVAL, MODIFICATIONS NECESSITATED BY DETAILED PLANT INFORMATION SHALL BE SUBJECT TO THE CONSULTANTS AND PROJECT DIRECTOR APPROVAL.
7. THE CONTRACTOR TO INSTALL ALL PIPE SLEEVES, BOXED OPENINGS, ANCHOR BOLTS, LIFT RAIL INSERTS ETC. AS REQUIRED FOR THE VARIOUS TRADES, VERIFY AND OBTAIN PRIOR APPROVAL OF DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, SLOTS, TRENCH AND ELECTRICAL FLOOR DUCTS AS REQUIRED BY THE VARIOUS TRADES.
8. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL, PER SPECIFICATION REQUIREMENTS, THE CONTRACTOR SHALL SUBMIT RECORD DRAWINGS INCORPORATING ALL DESIGN TEAM COMMENTS.
9. ALL ELEVATIONS ARE REFERENCED TO THE PROJECT DATUM.
10. ALL CAST-IN-SITU CONCRETE SHALL HAVE MINIMUM STRENGTH CLASS AS SHOWN IN THE STRUCTURAL CONCRETE MATERIAL SCHEDULE ON THIS SHEET, UNLESS NOTED OTHERWISE ON THE DRAWINGS OR SPECIFICATION.
11. ALL REINFORCING STEEL BARS SHALL CONFORM TO ASTM A615, GRADE 60 DEFORMED HAVING 60,000 MIN. YIELD STRENGTH & MIN. ULTIMATE STRENGTH OF 90,000 PSI, UNLESS NOTED OTHERWISE, THE STEEL SUPPLIER SHALL PROVIDE THE CONSULTANT WITH AN AFFIDAVIT OF THE PRODUCER OF STEEL CERTIFYING THAT THE STEEL MEETS THE REQUIREMENTS OF ASTM A615.
12. PROVIDE STAGGERED FULL TENSION SPLICES FOR ALL WATER RESISTING CONSTRUCTION INCLUDING RAFT SLAB AND ALL PITS AND MANHOLES.
13. ADDITIONAL BARS SHALL BE PROVIDED AROUND ALL FLOOR AND WALL OPENINGS AS SHOWN IN THE DETAILS.
14. ALL LAPS OF 54 TIMES THE DIA OF THE BARS
15. CONCRETE BLINDING: FOUNDATION, GROUND BEAMS, GROUND SLABS SHALL BE PLACED ON A MINIMUM THICKNESS OF 6 INCH OF 1:4:8 CONCRETE BLINDING UNLESS NOTED OTHERWISE.
16. CONCRETE BACKFILL: MASS CONCRETE BACKFILL IS TO BE USED AS INSTRUCTED BY THE CONSULTANTS, ANY EXCAVATION BENEATH FOOTINGS AND FOUNDATIONS MUST BE MADE UP USING C20 MASS CONCRETE.
17. HOT WEATHER CONCRETING: REFER TO SPECIFICATIONS, THE INITIAL TEMPERATURE OF FRESH CONCRETE MUST NOT EXCEED 30°C, CONCRETING SHALL NOT TAKE PLACE IN AMBIENT SHADE TEMPERATURE EXCEEDING 43°C.
18. ANY EMBEDDED ITEM PIPES / CONDUITS, PLATES, SLEEVES FOR UTILITIES ETC. MUST BE COORDINATES RELEVANT DRAWINGS BE FOR CONCRETING OF BEAMS/COLUMNS/SLABS
19. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SLEEVES IN SLAB, ROOF SLAB, BEAMS, RETAINING WALLS FOR COLD WATER, HOT WATER PIPES EMBEDDED SPECIFIED ITEM AND TO WASTE WATER, SOIL & VENT PIPES RAIN WATER PIPES AIR CONDITIONING PIPES & ELECTRICAL CABLES AS PER PLUMBING, ELECTRICAL & MECHANICAL DRAWINGS
20. ALL CONDUITS AND PIPES TO BE LAID IN CONCRETE SHALL BE ABOVE MAIN REINFORCEMENT OF SLABS AND BEAM AND WITH THE APPROVAL OF THE CONSULTANTS AND PROJECT DIRECTOR.
21. BACK FILLING OF EXCAVATION BEHIND RETAINING WALL AND OTHER AREAS SHALL BE DONE IN EQUAL LAYER NOT EXCEEDING 6" THICKNESS, EACH LAYER IS TO ACHIEVE MINIMUM 95% MAX DRY DENSITY
22. NO CONCRETE SHALL BE POURED UNTIL ITS FORM WORK AND REINFORCEMENT HAS BEEN INSPECTED AND APPROVED BY THE CONSULTANTS, AND PROPER PRE-CAMBER IS PROVIDED
23. SEQUENCE OF REMOVAL OF FORM WORK SHALL BE AS SPECIFIED AND APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR

24. CONSTRUCTION JOINTS: VERTICAL CONSTRUCTION JOINTS IN ALL WALLS SHALL BE USED ONLY IF UNAVOIDABLE, OR UNLESS OTHERWISE NOTED, AND TO BE LOCATED AT LEAST 5 FT. FROM ANY SUPPORTING COLUMN OR WALL OPENING. DISTANCE BETWEEN JOINTS IN WALL SHALL BE ALLOWED AS PER SPECIFICATIONS, NO HORIZONTAL CONSTRUCTION JOINTS WILL BE ALLOWED IN GRADE BEAMS, ALL MEMBERS IN THE FLOOR SYSTEM INCLUDING BEAMS, BRACKETS, COLUMN CAPITALS AND HAUNCHES SHALL BE PLACED MONOLITHICALLY, HORIZONTAL CONSTRUCTION JOINTS NECESSARY MAY BE MADE AT CENTRE OF BEAM OR SLAB
25. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWING FOR CONCRETE POURING SEQUENCE FOR ALL FLOOR AND SUBMIT IT FOR THE APPROVAL OF CONSULTANTS AND PROJECT DIRECTOR BEFORE START OF WORK.
26. DESIGN OF R.C.C HAS BEEN DONE IN ACCORDANCE WITH AQ-318 CODE SPECIFICATIONS, SEISMIC DESIGN IS BASED ON UBC-1997 CODE (ZONE 4)
27. FOR CONCRETE CYLINDER STRENGTH IN DIFFERENT STRUCTURAL MEMBERS, PLEASE REFER TO TABLE-A
28. DESIGN OF SPECIFIED CONCRETE MIX SHALL BE SUBMITTED BY THE CONTRACTOR AND SHALL BE GOT APPROVED FROM THE CONSULTANTS AND PROJECT DIRECTOR WELL BEFORE CONCRETING OF RELEVANT STRUCTURES ALONG WITH RESULT OF TEST SPECIMEN TESTED AS PER ASTM C-39, TEST SPECIMENS SHALL BE MADE AND CURED IN ACCORDANCE WITH ASTM C-31.
29. SULPHATE RESISTING CEMENT SHALL BE USED INSTEAD OF ORDINARY PORTLAND CEMENT IN R.C.C WORKS UPTO GROUND FLOOR COMPLETE IN ALL RESPECTS AS PER INSTRUCTIONS OF THE CONSULTANTS AND PROJECT DIRECTOR
30. CEMENT FROM DIFFERENT SOURCES SHALL NOT BE MIXED FOR THE STRUCTURE, UNLESS APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR
31. SAND FROM APPROVED QUARRIES/SOURCES SHALL BE USED AND IT SHALL CONFORM TO SPECIFICATIONS.
32. WELL GRADED CRUSHED STONE FROM APPROVED QUARRIES/SOURCES SHALL BE USED AS COARSE AGGREGATE, MAXIMUM NOMINAL SIZE OF THE COARSE AGGREGATE SHALL BE 3/4" AND DOWN GAUGE FOR ALL R.C.C WORKS. IT SHALL CONFORM TO THE SPECIFICATIONS.
33. POTABLE WATER SHALL BE USED FOR CONCRETE & SHALL BE FREE OF ORGANIC & OTHER IMPURITIES.
34. PRECAST CEMENT CONCRETE SPACER BLOCKS OF PROPER SIZE SHALL BE USED, SPACED NOT MORE THAN 36 INCH C/C FOR PROVISION OF REQUIRED COVER TO MAIN REINFORCEMENT, THICKNESS OF THESE BLOCKS SHALL BE EQUAL TO THE REQUIRED COVER.
35. ALL DIMENSIONS ARE GIVEN IN FEET & ALL LEVELS ARE IN FEET, UNLESS NOTED OTHERWISE DRAWING SHALL NOT BE SCALED, ONLY WRITTEN DIMENSIONS ARE BE FOLLOWED
36. CONCRETE COVER PROVIDED FOR REINFORCEMENT SHALL BE AS FOLLOWS:
 - (a) FOOTING (TOP) 2"
 - (b) FOOTING (BOTTOM) 3"
 - (c) FOOTING (SIDES) 2"
 - (d) SLAB 3/4"
 - (e) BEAMS & COLUMNS 1 1/2"
 - (f) CONCRETE FACE IN CONTACT WITH EARTH 3"
 - (g) CONCRETE FACE IN CONTACT WITH WATER 1 1/2"
 - (h) R.C.C WALLS 1 1/2"
 - (i) SLAB ON GRADE (TOP) 3/4"
 - (j) SLAB ON GRADE (BOTTOM) 3"
37. ALL LAYOUT, CONFIGURATION, DIMENSIONS & LEVEL SHALL BE VERIFIED BEFORE PROCEEDING WITH THE WORK.
38. ALL REINFORCING BARS SHALL BE HELD FIRMLY IN PLACE BEFORE AND DURING THE POURING OF CONCRETE BY MEANS OF ADEQUATE NUMBER OF WIRES, CHAIRS AND SUPPORTS TO PREVENT DISLOCATION DURING THE COURSE OF CONSTRUCTION.
39. DURING CONSTRUCTION, SAFETY AND STABILITY OF THE STRUCTURE AND ALL TEMPORARY WORKS SHALL BE GIVEN PRIME IMPORTANCE, UTMOST CARE AND PRECAUTION SHALL BE EXERCISED BY THE CONTRACTOR DURING THE WORK AGAINST ANY MISHAP OR ACCIDENT.
40. BARS IN BEAMS SHALL BE JOGGLED IN VERTICAL PLANE FOR LAPS.
41. LAPS SHALL NOT BE PROVIDED WITHIN LOCATION OF COLUMN, BEAM JOINTS, OR WITHIN TWICE THE MEMBER DEPTH FROM THE FACE OF A JOINT.
42. BAR IN COLUMN SHALL BE JOGGLED FOR LAPS WITH STARTER BARS & PLACED WITHIN MIDDLE THIRD OF THE FLOOR HEIGHT
43. POSITION OF BARS IN BEAMS SHALL BE ADJUSTED KEEPING IN VIEW THE POSITION OF VERTICAL BARS OF THE COLUMNS.
44. STIRRUPS SHALL BE PLACED IN SUCH A WAY THAT THEIR HOOKS SHALL BE STAGGERED AND LOCATED IN COMPRESSION FACE, WITH A 135° HOOK.
45. CONCRETE TEST CYLINDERS / CUBES SHALL BE CURED WITH THE SAME METHOD AND UNDER CONDITIONS AS THOSE FOR THE CONCRETE WORK THEY REPRESENT.
46. HIGH STRENGTH DEFORMED BAR 60,000 psi FIELD SHALL BE USED

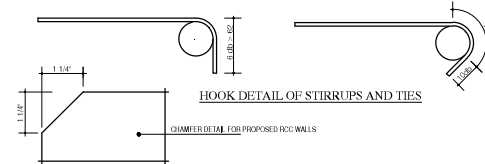
CONCRETE.

1. ALL CONCRETE TO BE AS PER SPECIFICATIONS, CONTRACTOR TO SUBMIT MIX DESIGN FOR APPROVAL PRIOR TO STARTING THE WORKS.
2. CONTRACTOR TO SUBMIT CONCRETE WORK REPORTS/ INCLUDING TIME OF CASTING, VOLUME OF EACH POUR OF CONCRETE AND FRESH CONCRETE TESTS.
3. TACK WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR.
4. ALL RECOMMENDATIONS AND PRECAUTIONS GIVEN IN SOIL REPORT ARE TO BE CONSIDERED.

FOUNDATION		
STRUCTURAL CONCRETE SCHEDULE		
NO.	LOCATION	MINIMUM STRENGTH CLASS (CONCRETE)
1	FOUNDATION	4000
2	SHEAR WALLS, LINK BEAMS	4000
3	RETAINING WALLS	4000
4	SLABS	3000
5	COLUMNS	4000
6	BEAMS	3000
7	RAINFALL DRAIN	3000



HOOK DETAIL OF MAIN REINFORCEMENT



HOOK DETAIL OF STIRRUPS AND TIES

CHAMFER DETAIL FOR PROPOSED R.C.C WALLS



Client



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Job

RETROFITTING WORK OF BUILDINGS AT SBP BSC
QUETTA
MAIN BUILDING

Consultant



ESS-I-AAR
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO. 314, 3RD, FLOOR MASHROO, CENTER SIR
SHAH SULAIMAN ROAD, GULSHAN-E-IQBAL BLOCK
NO. 14, KARACHI - P. O. BOX NO. 7608

TITLE

GENERAL NOTES

Rev. No.

SCALE
N.T.S

DATE

04/04/2023

DRAWN

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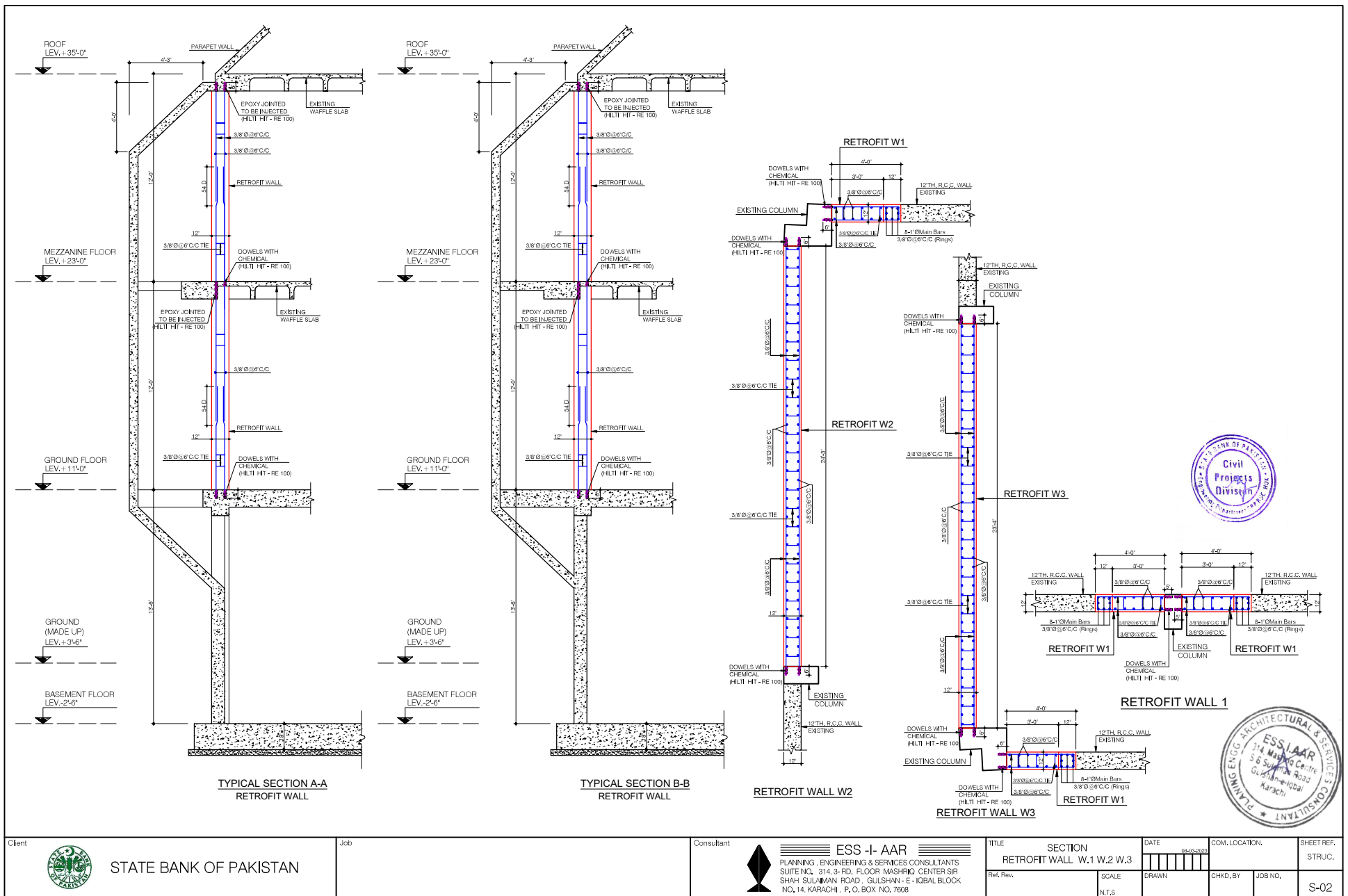
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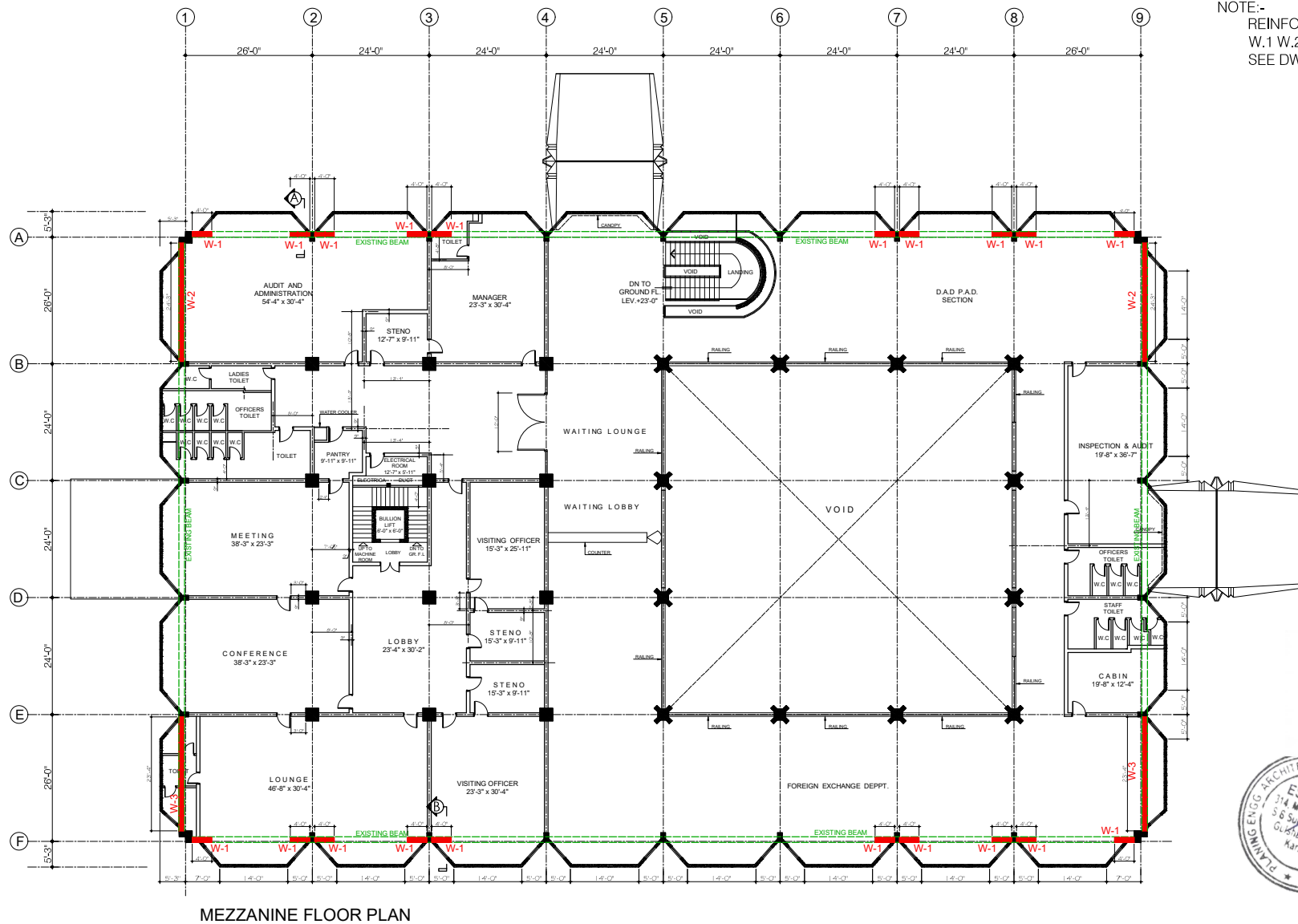
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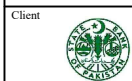
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S-00





NOTE:-
REINFORCEMENT DETAILS
W.1 W.2 W.3
SEE DWG. NO. S-02



STATE BANK OF PAKISTAN

Job

Consultant



ESS-I-AAR
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO. 314, 5TH FLOOR MASHRIQ CENTER SIR
SHAH SULAIMAN ROAD, GULSHAN-E-IQBAL BLOCK
NO. 14, KARACHI, P. O. BOX NO. 7608

TITLE
**MEZZANINE FLOOR PLAN
RETROFIT WALL**

Ref. Rev.

SCALE

N.T.S

DATE

09.03.2023

DRAWN

CHKD. BY

COM. LOCATION.

JOB NO.

SHEET REF.

STRUC.

S-04

CLIENT



STATE BANK OF PAKISTAN

PROJECT

RETROFITTING WORKS OF BUILDINGS
AT S.B.P B.S.C QUETTA

TITLE

ANNEXE BUILDING

DRAWING'S

PREPARED BY



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PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO.314, 3 -RD. FLOOR MASHRIQ CENTRE
SIR SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL
BLOCK NO. 14, KARACHI, P. O. BOX NO. 7608
PHONE NO.4852589 FAX NO.(92-21) 4941059



LIST OF DRAWINGS

S.NO	DRAWING TITLE	DRAWING NO.
1	Ground Floor Plan	A-01
2	First Floor Plan	A-02
3	Second Floor Plan	A-03
4	General Notes	S-00
5	Foundation Plan & Column	S-01
6	Plinth Beam Framing Plan	S-02
7	Ground Floor Beam Framing Plan	S-03
8	First Floor Beam Framing Plan	S-04
9	Roof Beam Framing Plan	S-05



Client



STATE BANK OF PAKISTAN

Job

RETROFITTING WORK OF BUILDINGS AT SBP BSC
QUETTA
ANNEXE BUILDING

Consultant



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PLANNING , ENGINEERING & SERVICES CONSULTANTS
SUITE NO. 314, 3- RD. FLOOR, MASHRIQ CENTER, SIR
SHAH SULAIMAN ROAD , GULSHAN - E - IQBAL BLOCK
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Title

LIST OF DRAWING

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SCALE

N.T.S

DATE



COM. LOCATION

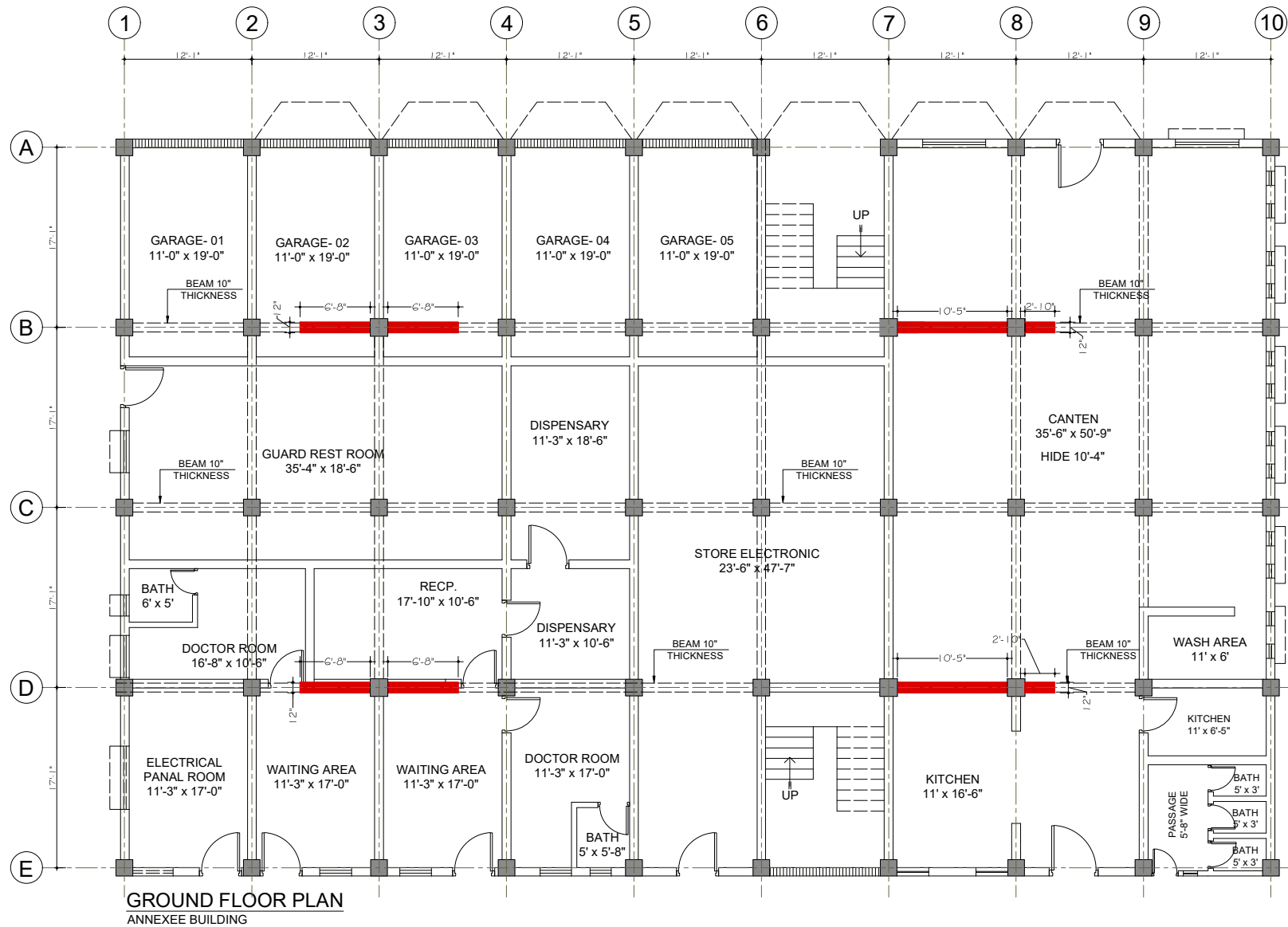
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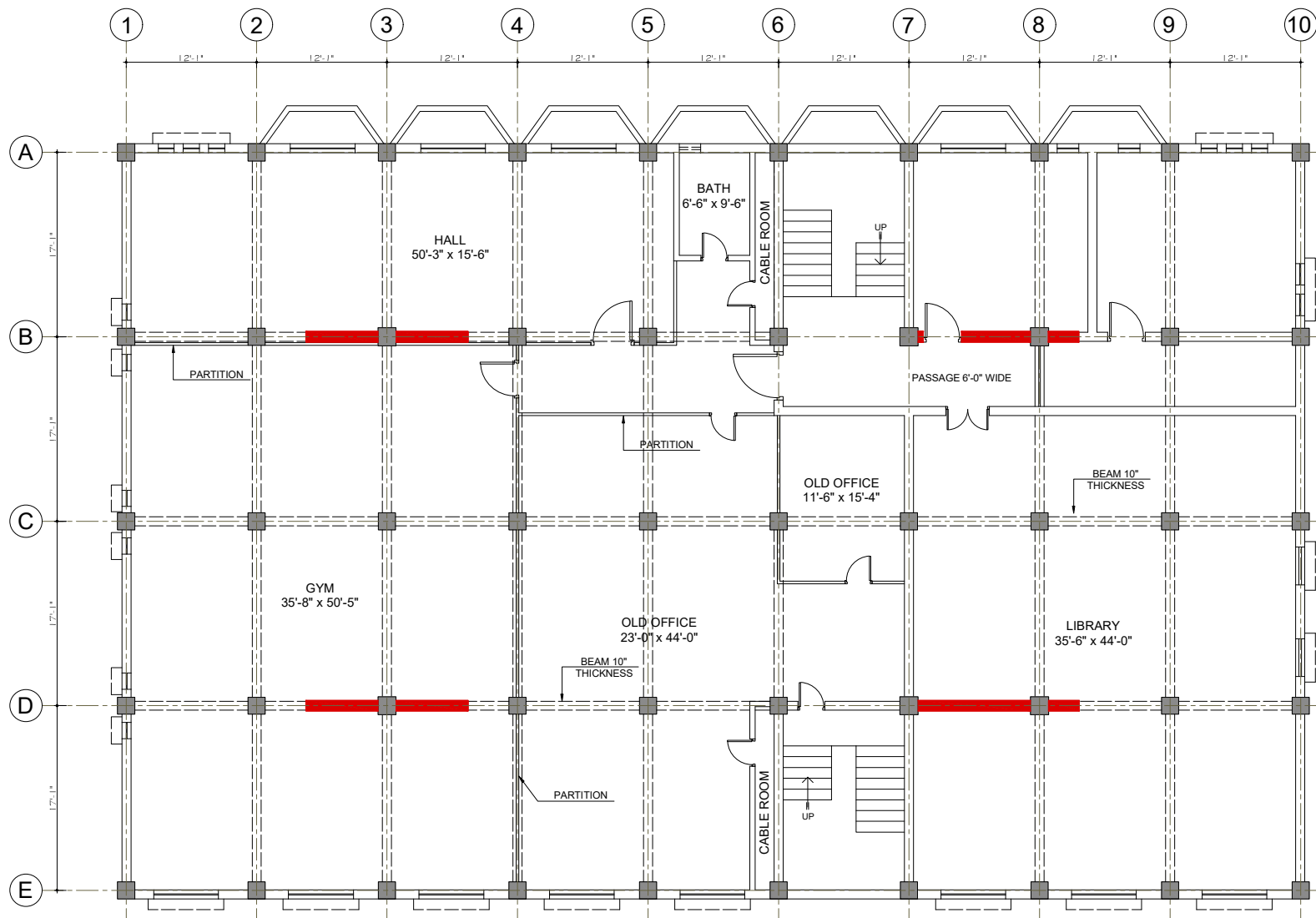
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A-01



Client  STATE BANK OF PAKISTAN	Job RETROFITTING WORK OF BUILDINGS AT SBP BSC QUETTA ANNEXE BUILDING	Consultant  ESS-I-AAR PLANNING, ENGINEERING & SERVICES CONSULTANTS SUITE NO. 314, 3-RD. FLOOR, MASHRIQ CENTRE, SIR SHAH SULAIMAN ROAD, GULSHAN-E-IQBAL BLOCK NO. 14, KARACHI - 7. P. O. BOX NO. 7608	TITLE GROUND FLOOR PLAN Ref. Rev.	DATE 	COM. LOCATION SHEET REF. ARC01 A-01
			SCALE N.T.S.	DRAWN CHKD. BY JOB NO.	



Client



STATE BANK OF PAKISTAN

Job

RETROFITTING WORK OF BUILDINGS AT SBP BSC
QUETTA
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PLANNING, ENGINEERING & SERVICES CONSULTANTS
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SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK
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Title

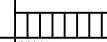
FIRST FLOOR PLAN

Ref. Rev.

SCALE

N.T.S.

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DRAWN

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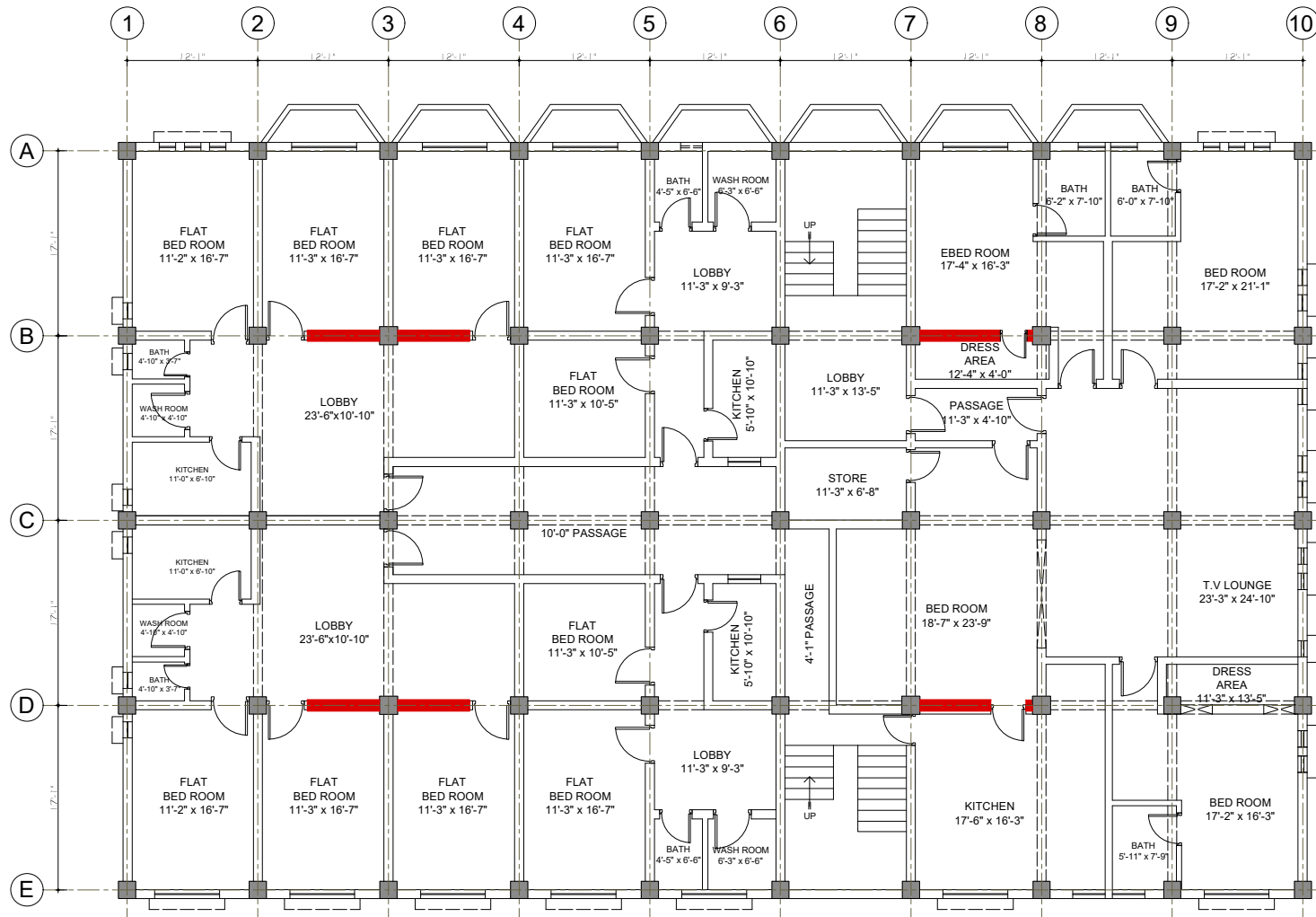
CHKD. BY

JOB NO.

SHEET REF.

ARC1.

A-02



Client  STATE BANK OF PAKISTAN	Job RETROFITTING WORK OF BUILDINGS AT SBP BSC QUETTA ANNEX E BUILDING	Consultant  ESS-I-AAR PLANNING, ENGINEERING & SERVICES CONSULTANTS SUITE NO. 314, 3-RD. FLOOR, MASHRIQ CENTRE, SIR SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK NO. 14, KARACHI - 1, P. O. BOX NO. 7608	TITLE SECOND FLOOR PLAN Ref. Rev.	DATE 	COM. LOCATION SHEET REF. ARC1. CHD. BY JOB NO. A-03
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GENERAL NOTES.

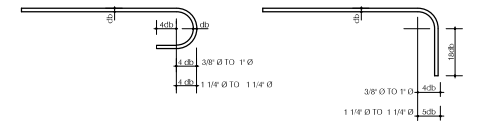
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- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SLEEVES IN SLAB, ROOF SLAB, BEAMS, RETAINING WALLS FOR COLD WATER HOT WATER PIPES, EMBEDDED SPECIFIED ITEM AND TO WASTE WATER, SOIL & VENT PIPES RAIN WATER PIPES AIR CONDITIONING PIPES & ELECTRICAL CABLES AS PER PLUMBING, ELECTRICAL & MECHANICAL DRAWINGS
- ALL CONDUITS AND PIPES TO BE LAID IN CONCRETE SHALL BE ABOVE MAIN REINFORCEMENT OF SLABS AND BEAM AND WITH THE APPROVAL OF THE CONSULTANTS AND PROJECT DIRECTOR.
- BACK FILLING OF EXCAVATION BEHIND RETAINING WALL AND OTHER AREAS SHALL BE DONE IN EQUAL LAYER NOT EXCEEDING 6" THICKNESS. EACH LAYER IS TO ACHIEVE MINIMUM 95% MAX.DRY DENSITY
- NO CONCRETE SHALL BE POURED UNTIL ITS FORM WORK AND REINFORCEMENT HAS BEEN INSPECTED AND APPROVED BY THE CONSULTANTS, AND PROPER PRE-CAMBER IS PROVIDED
- SEQUENCE OF REMOVAL OF FORM WORK SHALL BE AS SPECIFIED AND APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR

- CONSTRUCTION JOINTS: VERTICAL CONSTRUCTION JOINTS IN ALL WALLS SHALL BE USED ONLY IF UNAVOIDABLE, OR UNLESS OTHERWISE NOTED, AND TO BE LOCATED AT LEAST 5 FT. FROM ANY SUPPORTING COLUMN OR WALL OPENING. DISTANCE BETWEEN JOINTS IN WALL SHALL BE ALLOWED AS PER SPECIFICATIONS. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE ALLOWED IN GRADE BEAMS, ALL MEMBERS IN THE FLOOR SYSTEM INCLUDING BEAMS, BRACKETS, COLUMN CAPITALS AND HAUNCHES SHALL BE PLACED MONOLITHICALLY. HORIZONTAL CONSTRUCTION JOINTS NECESSARY MAY BE MADE AT CENTRE OF BEAM OR SLAB
- THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWING FOR CONCRETE POURING SEQUENCE FOR ALL FLOOR AND SUBMIT IT FOR THE APPROVAL OF CONSULTANTS AND PROJECT DIRECTOR BEFORE START OF WORK.
- DESIGN OF R.C.C HAS BEEN DONE IN ACCORDANCE WITH ACI-318 CODE SPECIFICATIONS. SEISMIC DESIGN IS BASED ON UBC-1997 CODE (ZONE 4)
- FOR CONCRETE CYCLINDER STRENGTH IN DIFFERENT STRUCTURAL MEMBERS, PLEASE REFER TO TABLE-A
- DESIGN OF SPECIFIED CONCRETE MIX SHALL BE SUBMITTED BY THE CONTRACTOR AND SHALL BE GOT APPROVED FROM THE CONSULTANTS AND PROJECT DIRECTOR WELL BEFORE CONCRETING OF RELEVANT STRUCTURES ALONG WITH RESULT OF TEST SPECIMEN TESTED AS PER ASTM C-39. TEST SPECIMENS SHALL BE MADE AND CURED IN ACCORDANCE WITH ASTM C-31.
- SULPHATE RESISTING CEMENT SHALL BE USED INSTEAD OF ORDINARY PORTLAND CEMENT IN R.C.C WORKS UPTO GROUND FLOOR COMPLETE IN ALL RESPECTS AS PER INSTRUCTIONS OF THE CONSULTANTS AND PROJECT DIRECTOR
- CEMENT FROM DIFFERENT SOURCES SHALL NOT BE MKED FOR THE STRUCTURE, UNLESS APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR
- SAND FROM APPROVED QUARRIES/SOURCES SHALL BE USED AND IT SHALL CONFORM TO SPECIFICATIONS.
- WELL GRADED CRUSHED STONE FROM APPROVED QUARRIES/SOURCES SHALL BE USED AS COARSE AGGREGATE, MAXIMUM NOMINAL SIZE OF THE COARSE AGGREGATE SHALL BE 3/4" AND DOWN GAUGE FOR ALL R.C.C WORKS. IT SHALL CONFORM TO THE SPECIFICATIONS.
- POTABLE WATER SHALL BE USED FOR CONCRETE & SHALL BE FREE OF ORGANIC & OTHER IMPURITIES.
- PRECAST CEMENT CONCRETE SPACER BLOCKS OF PROPER SIZE SHALL BE USED, SPACED NOT MORE THAN 36 INCH C/C FOR PROVISION OF REQUIRED COVER TO MAIN REINFORCEMENT, THICKNESS OF THESE BLOCKS SHALL BE EQUAL TO THE REQUIRED COVER.
- ALL DIMENSIONS ARE GIVEN IN FEET & ALL LEVELS ARE IN FEET, UNLESS NOTED OTHERWISE DRAWING SHALL NOT BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED
- CONCRETE COVER PROVIDED FOR REINFORCEMENT SHALL BE AS FOLLOWS:
 - FOOTING (TOP) 2"
 - FOOTING (BOTTOM) 3"
 - FOOTING (SIDES) 2"
 - SLAB 3/4"
 - BEAMS & COLUMNS 1 1/2"
 - CONCRETE FACE IN CONTACT WITH EARTH 3"
 - CONCRETE FACE IN CONTACT WITH WATER 1 1/2"
 - R.C.C WALLS 1 1/2"
 - SLAB ON GRADE (TOP) 3/4"
 - SLAB ON GRADE (BOTTOM) 3"
- ALL LAYOUT, CONFIGURATION, DIMENSIONS & LEVEL SHALL BE VERIFIED BEFORE PROCEEDING WITH THE WORK.
- ALL REINFORCING BARS SHALL BE HELD FIRMLY IN PLACE BEFORE AND DURING THE POURING OF CONCRETE BY MEANS OF ADEQUATE NUMBER OF WIRES, CHAIRS AND SUPPORTS TO PREVENT DISLOCATION DURING THE COURSE OF CONSTRUCTION.
- DURING CONSTRUCTION, SAFETY AND STABILITY OF THE STRUCTURE AND ALL TEMPORARY WORKS SHALL BE GIVEN PRIME IMPORTANCE. UTMOST CARE AND PRECAUTION SHALL BE EXERCISED BY THE CONTRACTOR DURING THE WORK AGAINST ANY MISHAP OR ACCIDENT.
- BARS IN BEAMS SHALL BE JOGGLED IN VERTICAL PLANE FOR LAPS.
- LAPS SHALL NOT BE PROVIDED WITHIN LOCATION OF COLUMN, BEAM JOINTS, OR WITHIN TWICE THE MEMBER DEPTH FROM THE FACE OF A JOINT.
- BAR IN COLUMN SHALL BE JOGGLED FOR LAPS WITH STARTER BARS & PLACED WITHIN MIDDLE THIRD OF THE FLOOR HEIGHT
- POSITION OF BARS IN BEAMS SHALL BE ADJUSTED KEEPING IN VIEW THE POSITION OF VERTICAL BARS OF THE COLUMNS.
- STIRRUPS SHALL BE PLACED IN SUCH A WAY THAT THEIR HOOKS SHALL BE STAGGERED AND LOCATED IN COMPRESSION FACE, WITH A 135° HOOK.
- CONCRETE TEST CYLINDERS / CUBES SHALL BE CURED WITH THE SAME METHOD AND UNDER CONDITIONS AS THOSE FOR THE CONCRETE WORK THEY REPRESENT.
- HIGH STRENGTH DEFORMED BAR 60,000 psi FIELD SHALL BE USED

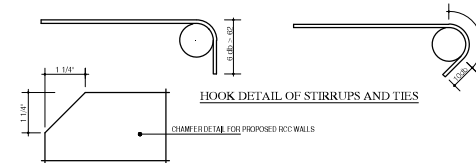
CONCRETE.

- ALL CONCRETE TO BE AS PER SPECIFICATIONS, CONTRACTOR TO SUBMIT MIX DESIGN FOR APPROVAL PRIOR TO STARTING THE WORKS.
- CONTRACTOR TO SUBMIT CONCRETE WORK REPORTS INCLUDING TIME OF CASTING, VOLUME OF EACH POUR OF CONCRETE AND FRESH CONCRETE TESTS.
- TACK WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR.
- ALL RECOMMENDATIONS AND PRECAUTIONS GIVEN IN SOIL REPORT ARE TO BE CONSIDERED.

FOUNDATION		
STRUCTURAL CONCRETE SCHEDULE		
NO.	LOCATION	STRENGTH CLASS
1		
2	FOUNDATION	4000
3	GEAR WALLS, LINK BEAMS	4000
4	RETAINING WALLS	4000
5	SLABS	3000
6	COLUMN	4000
7	BEAMS	3000
8	RAMP/STAIRS	3000



HOOK DETAIL OF MAIN REINFORCEMENT



HOOK DETAIL OF STIRRUPS AND TIES



Client



STATE BANK OF PAKISTAN

Job

RETROFITTING WORK OF BUILDINGS AT
SBP BSC QUETTA
ANNEXE BUILDING

Consultant



ESS-I-AAR
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO. 314, 3-RD. FLOOR, MASHRIQ CENTER SIR
SHAH SULAIMAN ROAD, GULSHAN-E-IQBAL BLOCK
NO. 14, KARACHI, P. O. BOX NO. 7608

Title

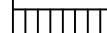
GENERAL NOTES

Rev. Rev.

SCALE

N.T.S

Date



DRAWN

COM. LOCATION

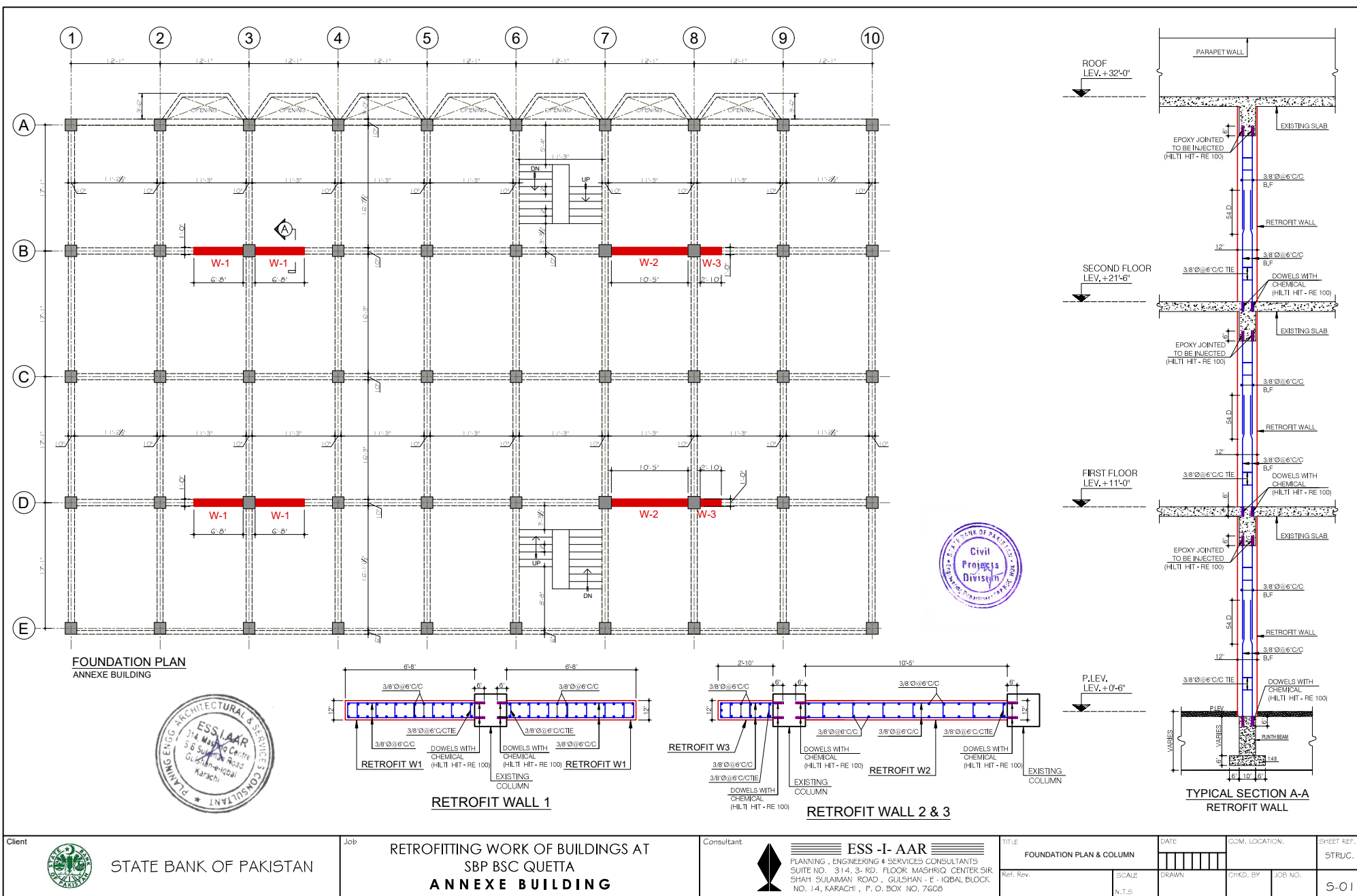
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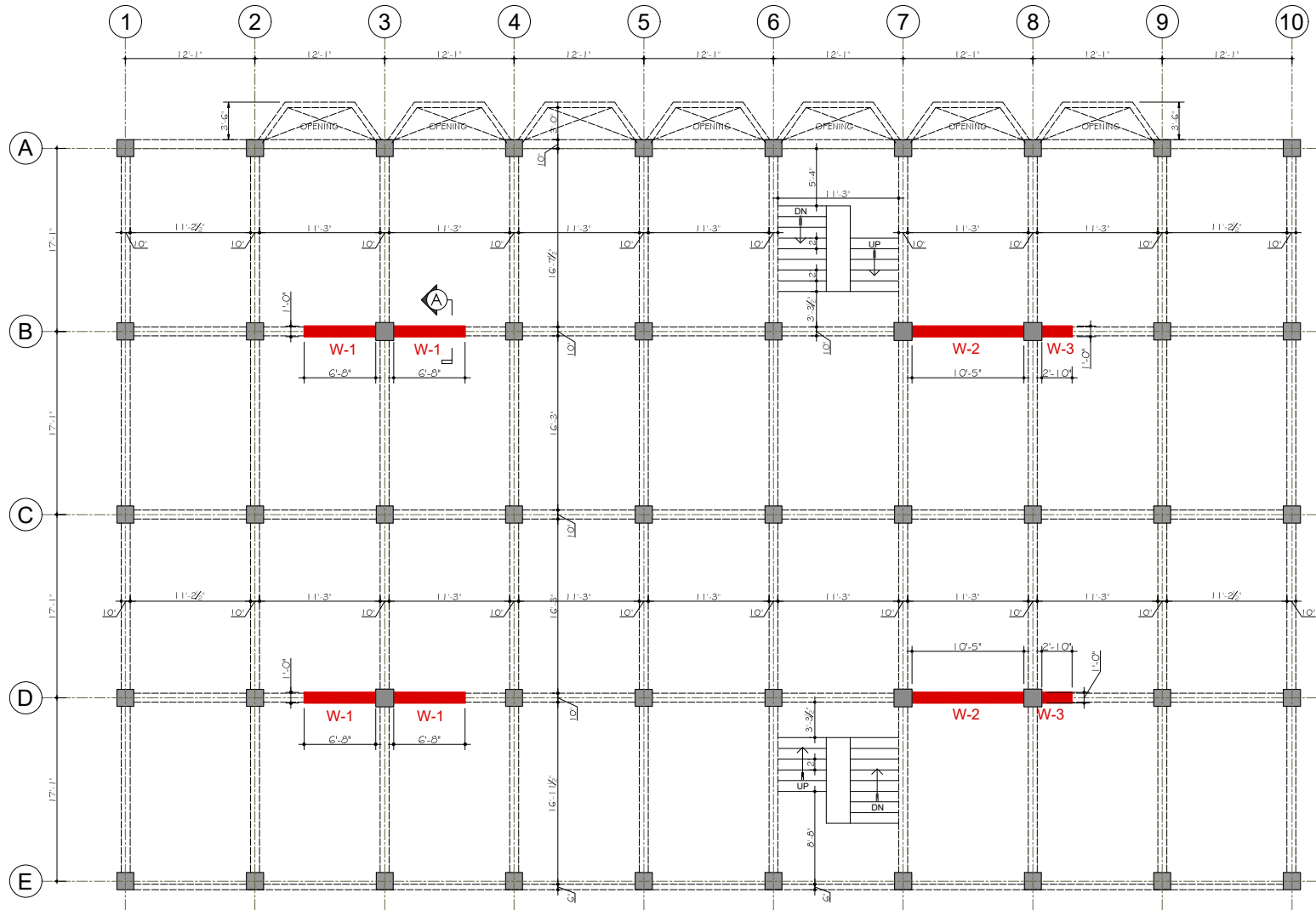
JOB NO.

SHEET REF.

STRUC.

5-00





PLINTH BEAM FRAMING PLAN
ANNEXE BUILDING



Client



STATE BANK OF PAKISTAN

Job

RETROFITTING WORK OF BUILDINGS AT
SBP BSC QUETTA
ANNEXE BUILDING

Consultant



ESS -I- AAR
PLANNING , ENGINEERING & SERVICES CONSULTANTS
SUITE NO. 314, 3- RD. FLOOR, MASHRIQ CENTER 51R
SHAH SULAIMAN ROAD , GULSHAN - E - IQBAL BLOCK
NO. 14, KARACHI , P. O. BOX NO. 7608

Title

PLINTH BEAM FRAMING PLAN
& SCHEDULE

Rev. Rev.

SCALE

N.T.S

DATE

11/11/2020

DRAWN

CHKD. BY

COM. LOCATION

314 Mashriq Centre

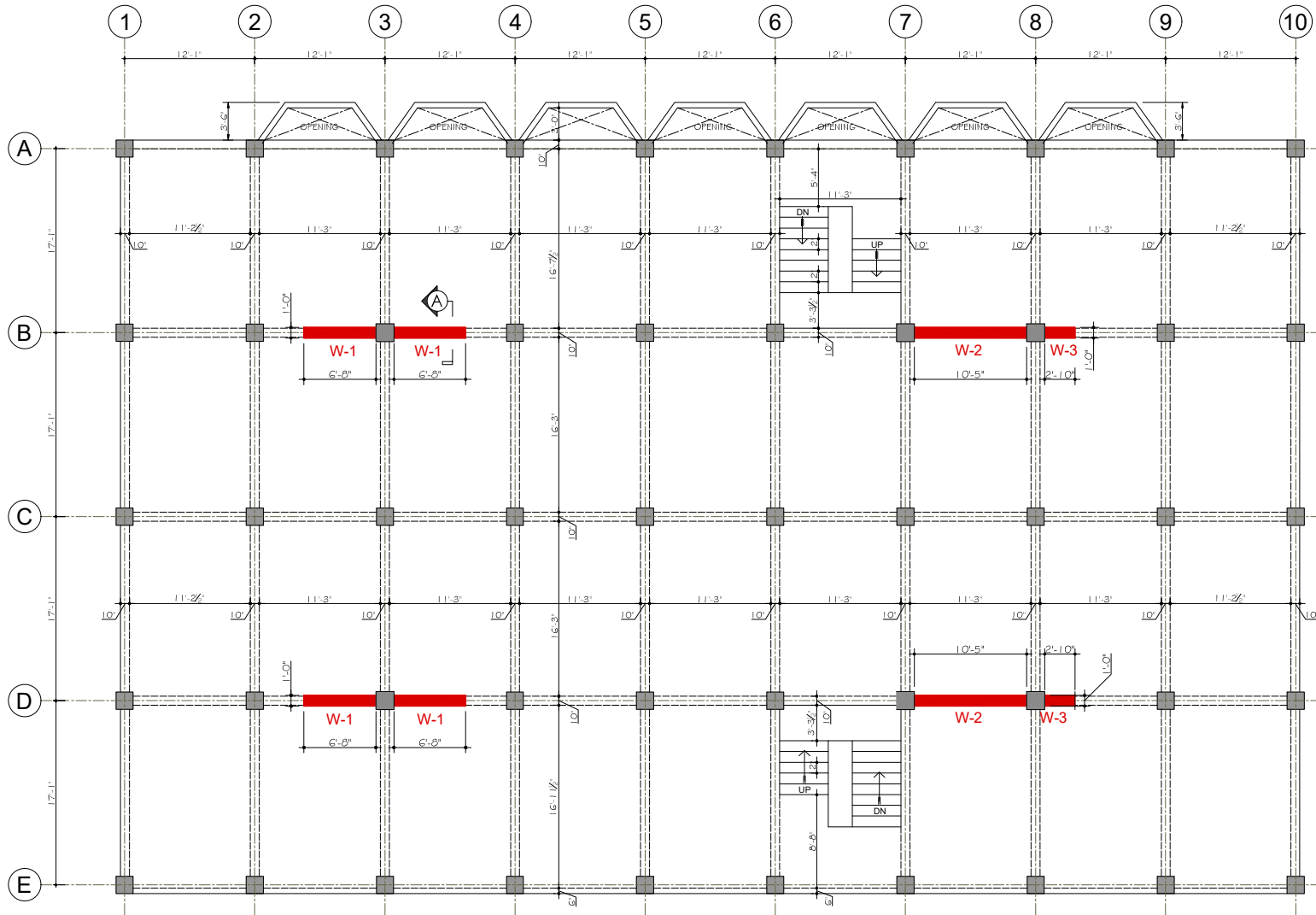
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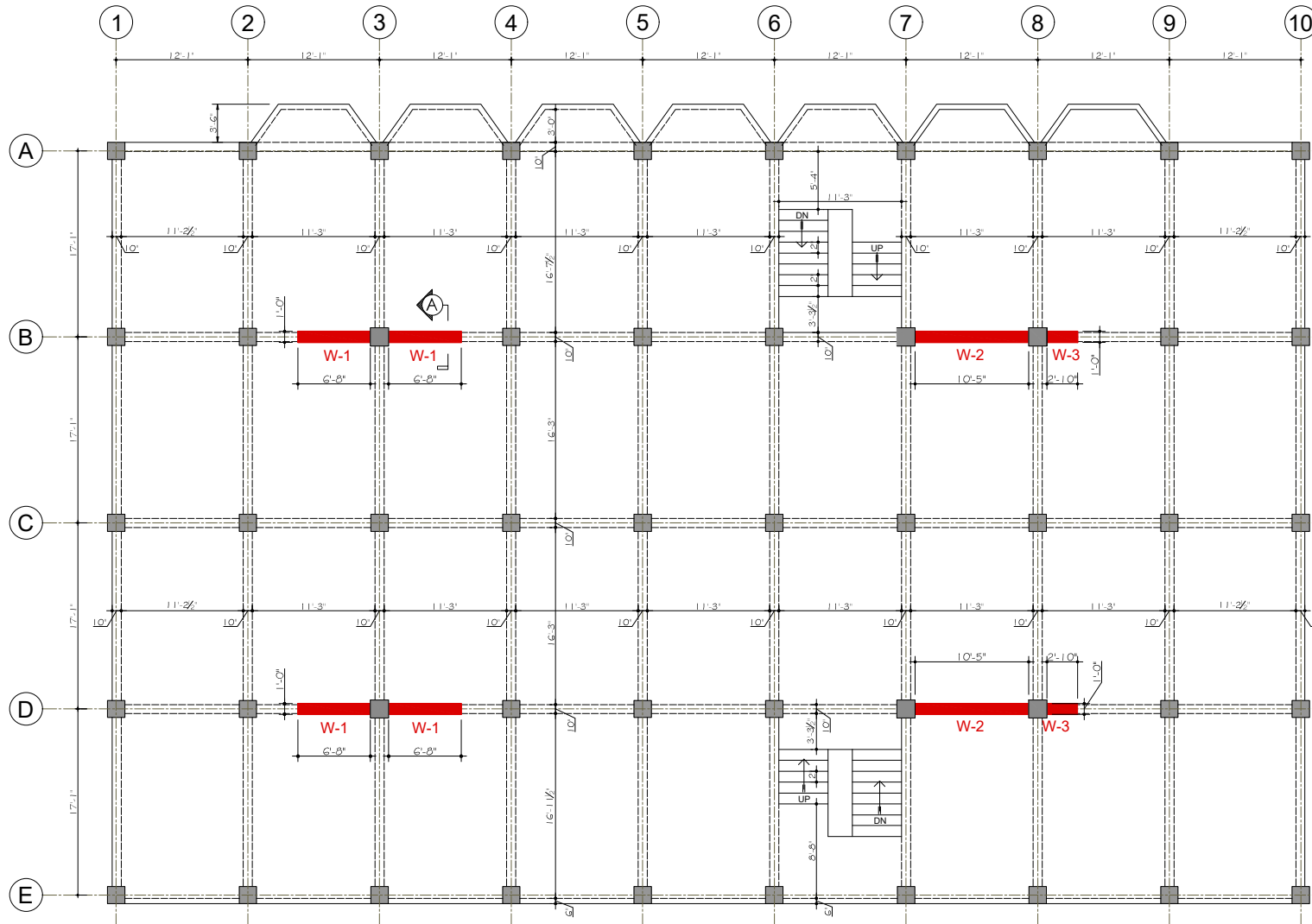
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GROUND FLOOR BEAM FRAMING PLAN
ANNEXE BUILDING



Client  STATE BANK OF PAKISTAN	Job RETROFITTING WORK OF BUILDINGS AT SBP BSC QUETTA ANNEXE BUILDING	Consultant  ESS-I-AAR PLANNING, ENGINEERING & SERVICES CONSULTANTS SUITE NO. 314, 3-RD. FLOOR, MASHROU' CENTER 51R SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK NO. 14, KARACHI, P. O. BOX NO. 7608	Titile GROUND FLOOR BEAM FRAMING PLAN & SCHEDULE Rev. Rev.	DATE SCALE N.T.S.	COM. LOCATION CHKD. BY JOB NO. SHEET REF. STRUC. 5-03
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FIRST FLOOR BEAM FRAMING PLAN
ANNEXE BUILDING



Client



STATE BANK OF PAKISTAN

Job

RETROFITTING WORK OF BUILDINGS AT
SBP BSC QUETTA
ANNEXE BUILDING

Consultant



ESS-I-AAR
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO. 314, 3-RD. FLOOR, MASHRIQ CENTER SIR
SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK
NO. 14, KARACHI, P. O. BOX NO. 7608

TITLE
**FIRST FLOOR BEAM FRAMING PLAN
& SCHEDULE**

Rev. Rev.

SCALE

N.T.S

DATE

DATE

DRAWN

CHKD. BY

COM. LOCATION

COM. LOCATION

JOB NO.

JOB NO.

SHEET REF.

STRUC.

S-04

S-04

CLIENT



STATE BANK OF PAKISTAN

PROJECT

RETROFITTING WORKS OF BUILDINGS
AT S.B.P B.S.C QUETTA

TITLE

NIBAF BUILDING

DRAWING'S

PREPARED BY



ESS - I - AAR
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO.314, 3 -RD. FLOOR MASHRIQ CENTRE
SIR SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL
BLOCK NO. 14, KARACHI, P. O. BOX NO. 7608
PHONE NO.4852589 FAX NO.(92-21) 4941059

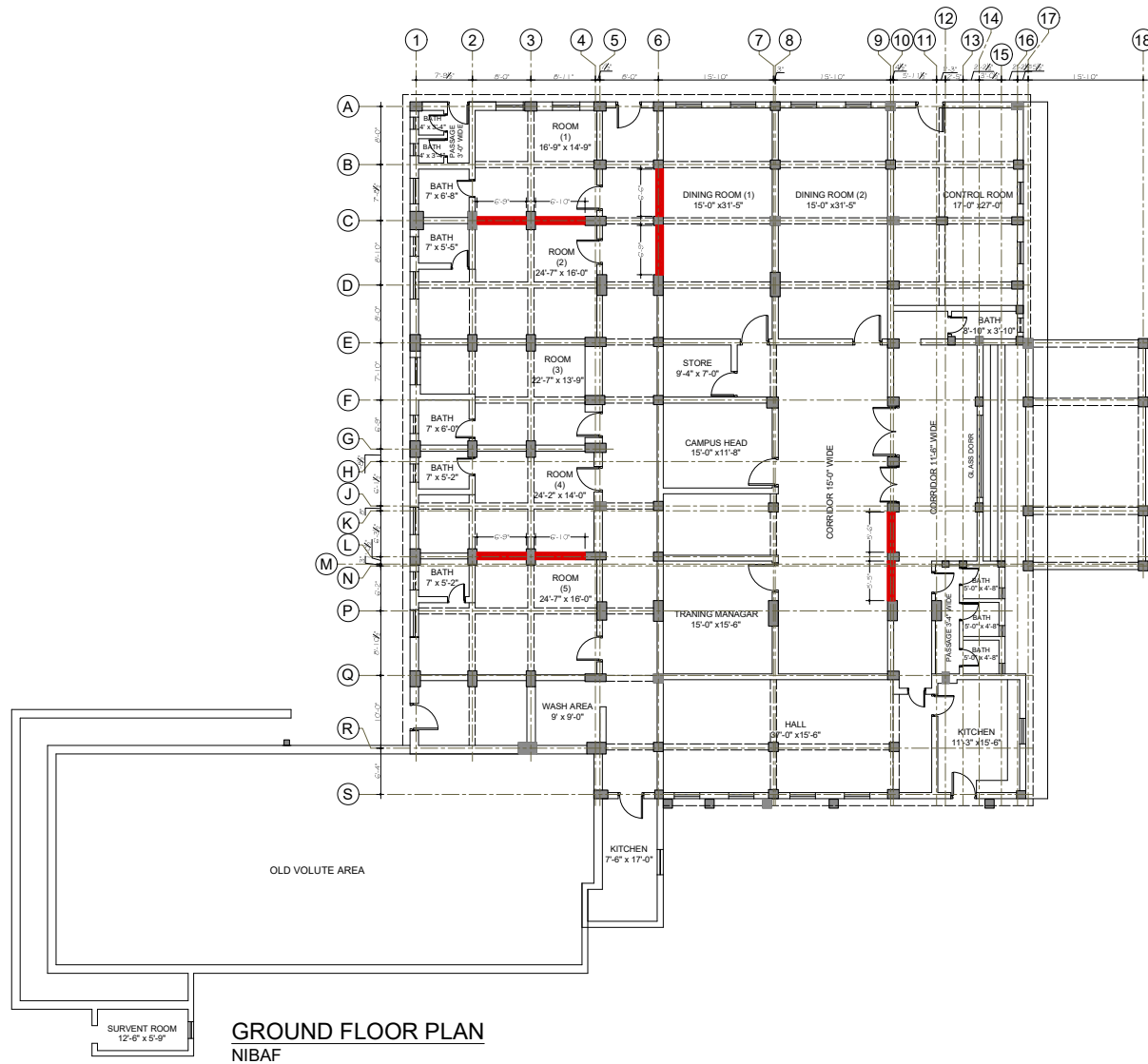


LIST OF DRAWINGS

S.NO	DRAWING TITLE	DRAWING NO.
1	Ground Floor Plan	A-01
2	General Notes	S-00
3	Foundation Plan	S-01



Client	 STATE BANK OF PAKISTAN	Job	RETROFITTING WORK OF BUILDINGS AT SBP BSC QUETTA NIBAF	Consultant	 ESS-I-AAR PLANNING, ENGINEERING & SERVICES CONSULTANTS SUITE NO. 314, 3-RD. FLOOR, MASHROQ CENTER SIR SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK NO. 14, KARACHI, P. O. BOX NO. 7608	TITLE		DATE	COM. LOCATION	SHEET REF.				
						LIST OF DRAWINGS		<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						
						Ref. Rev.	SCALE	DRAWN	CHKD. BY	JOB NO.				
							N.T.S							



Client  STATE BANK OF PAKISTAN	Job RETROFITTING WORK OF BUILDINGS AT SBP BSC QUETTA NIBAF	Consultant  ESS-I-AAR PLANNING, ENGINEERING & SERVICES CONSULTANTS SUITE NO. 314, 3RD FLOOR WASHROQ CENTER SHR SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK NO. 14, KARACHI - I, P. O. BOX NO. 7608	TITLE GROUND FLOOR PLAN Ref. Rev.	DATE [] [] [] [] [] []	COM. LOCATION CHKD. BY JOB NO.	SHEET REF. ARCH. A-01
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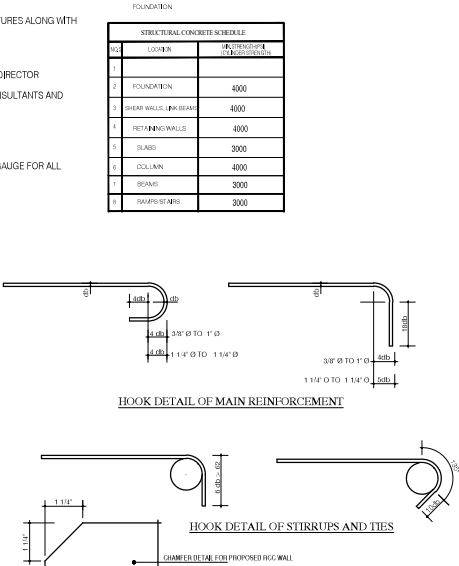
GENERAL NOTES.

1. STRUCTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH SPECIFICATIONS, ALL DRAWINGS AND ALL CONTRACT DOCUMENTS,
2. CHECK ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND REPORT ANY INCONSISTENCIES TO THE CONSULTANTS AND PROJECT DIRECTOR BEFORE PROCEEDING WITH THE WORK,
3. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED,
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT DAMAGE TO EXISTING ADJACENT STRUCTURES,
5. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND DETAILS FOR LOCATION OF PITS, BASES, SUMPS, TRENCHES, DEPRESSIONS, GROOVES, CURBS, CHAMFERS AND SLOPES NOT SHOWN ON STRUCTURAL DRAWINGS,
6. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ALL REQUIREMENTS FOR SERVICES PENETRATIONS ETC, FOR CONSULTANTS APPROVAL, MODIFICATIONS NECESSITATED BY DETAILED PLANT INFORMATION SHALL BE SUBJECT TO THE CONSULTANTS AND PROJECT DIRECTOR APPROVAL,
7. THE CONTRACTOR TO INSTALL ALL PIPE SLEEVES, BOXED OPENINGS, ANCHOR BOLTS, LIFT RAIL INSERTS ETC, AS REQUIRED FOR THE VARIOUS TRADES, VERIFY AND OBTAIN PRIOR APPROVAL OF DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, SLOTS, TRENCH AND ELECTRICAL FLOOR DUCTS AS REQUIRED BY THE VARIOUS TRADES,
8. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PER SPECIFICATION REQUIREMENTS, THE CONTRACTOR SHALL SUBMIT RECORD DRAWINGS INCORPORATING ALL DESIGN TEAM COMMENTS,
9. ALL ELEVATIONS ARE REFERENCED TO THE PROJECT DATUM,
10. ALL CAST-IN-SITU CONCRETE SHALL HAVE MINIMUM STRENGTH CLASS AS SHOWN IN THE STRUCTURAL CONCRETE MATERIAL SCHEDULE ON THIS SHEET, UNLESS NOTED OTHERWISE ON THE DRAWINGS OR SPECIFICATION,
11. ALL REINFORCING STEEL BARS SHALL CONFORM TO ASTM A615, GRADE 60 DEFORMED HAVING 60,000 MIN. YIELD STRENGTH & MIN. ULTIMATE STRENGTH OF 90000 PSI, UNLESS NOTED OTHERWISE, THE STEEL SUPPLIER SHALL PROVIDE THE CONSULTANT WITH AN AFFIDAVIT OF THE PRODUCER OF STEEL CERTIFYING THAT THE STEEL MEETS THE REQUIREMENTS OF ASTM A615,
12. PROVIDE STAGGERED FULL TENSION SPLICES FOR ALL WATER RESISTING CONSTRUCTION INCLUDING RAFT SLAB AND ALL PITS AND MAINHOLES,
13. ADDITIONAL BARS SHALL BE PROVIDED AROUND ALL FLOOR AND WALL OPENINGS AS SHOWN IN THE DETAILS,
14. ALL LAPS OF 54 TIMES THE DIA OF THE BARS
15. CONCRETE BUNDING: FOUNDATION, GROUND BEAMS, GROUND SLABS SHALL BE PLACED ON A MINIMUM THICKNESS OF 6 INCH OF 1:4:8 CONCRETE BUNDING UNLESS NOTED OTHERWISE,
16. CONCRETE BACKFILL: MASS CONCRETE BACKFILL IS TO BE USED AS INSTRUCTED BY THE CONSULTANTS, ANY EXCAVATION BENEATH FOOTINGS AND FOUNDATIONS MUST BE MADE UP USING C20 MASS CONCRETE,
17. HOT WEATHER CONCRETING: REFER TO SPECIFICATIONS, THE INITIAL TEMPERATURE OF FRESH CONCRETE MUST NOT EXCEED 30°C, CONCRETING SHALL NOT TAKE PLACE IN AMBIENT SHADE TEMPERATURE EXCEEDING 43°C,
18. ANY EMBEDDED ITEM PIPES / CONDUITS/PLATES, SLEEVES FOR UTILITIES ETC, MUST BE COORDINATES REVELENT DRAWINGS BE FOR CONCRETING OF BEAMS/COLUMNS/SLABS
19. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SLEEVES IN SLAB, ROOF SLAB, BEAMS, RETAINING WALLS FOR COLD WATER, HOT WATER PIPES, EMBEDDED SPECIFIED ITEM AND TO WASTE WATER, SOIL & VENT PIPES RAIN WATER PIPES AIR CONDITIONING PIPES & ELECTRICAL CABLES AS PER PLUMBING ELECTRICAL & MECHANICAL DRAWINGS
20. ALL CONDUITS AND PIPES TO BE LAID IN CONCRETE SHALL BE ABOVE MAIN REINFORCEMENT OF SLABS AND BEAM AND WITH THE APPROVAL OF THE CONSULTANTS AND PROJECT DIRECTOR,
21. BACK FILLING OF EXCAVATION BEHIND RETAINING WALL AND OTHER AREAS SHALL BE DONE IN EQUAL LAYER NOT EXCEEDING 6" THICKNES, EACH LAYER IS TO ACHIEVE MINIMUM 90% MAX DRY DENSITY
22. NO CONCRETE SHALL BE POURED UNTIL ITS FORM WORK AND REINFORCEMENT HAS BEEN INSPECTED AND APPROVED BY THE CONSULTANTS, AND PROPER PRE-CAMBER IS PROVIDED
23. SEQUENCE OF REMOVAL OF FORM WORK SHALL BE AS SPECIFIED AND APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR

24. CONSTRUCTION JOINTS: VERTICAL CONSTRUCTION JOINTS IN ALL WALLS SHALL BE USED ONLY IF UNAVOIDABLE, OR UNLESS OTHERWISE NOTED, AND TO BE LOCATED AT LEAST 5 FT, FROM ANY SUPPORTING COLUMN OR WALL OPENING, DISTANCE BETWEEN JOINTS IN WALL SHALL BE ALLOWED AS PER SPECIFICATIONS, NO HORIZONTAL CONSTRUCTION JOINTS WILL BE ALLOWED IN GRADE BEAMS, ALL MEMBERS IN THE FLOOR SYSTEM INCLUDING BEAMS, BRACKETS, COLUMN CAPITALS AND HAUNCHES SHALL BE PLACED MONOLITHICALLY, HORIZONTAL CONSTRUCTION JOINTS NECESSARY MAY BE MADE AT CENTRE OF BEAM OR SLAB
25. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWING FOR CONCRETE POURING SEQUENCE FOR ALL FLOOR AND SUBMIT IT FOR THE APPROVAL OF CONSULTANTS AND PROJECT DIRECTOR BEFORE START OF WORK,
26. DESIGN OF R.C.C HAS BEEN DONE IN ACCORDANCE WITH ACI-318 CODE SPECIFICATIONS, SEISMIC DESIGN IS BASED ON UBC-1997 CODE (ZONE 4)
27. FOR CONCRETE CYLINDER STRENGTH IN DIFFERENT STRUCTURAL MEMBERS, PLEASE REFER TO TABLE-A
28. DESIGN OF SPECIFIED CONCRETE MIX SHALL BE SUBMITTED BY THE CONTRACTOR AND SHALL BE GOT APPROVED FROM THE CONSULTANTS AND PROJECT DIRECTOR WELL BEFORE CONCRETING OF RELEVANT STRUCTURES ALONG WITH RESULT OF TEST SPECIMEN TESTED AS PER ASTM C-39, TEST SPECIMENS SHALL BE MADE AND CURED IN ACCORDANCE WITH ASTM C-31,
29. SULPHATE RESISTING CEMENT SHALL BE USED INSTEAD OF ORDINARY PORTLAND CEMENT IN R.C.C WORKS UP TO GROUND FLOOR COMPLETE IN ALL RESPECTS AS PER INSTRUCTIONS OF THE CONSULTANTS AND PROJECT DIRECTOR
30. CEMENT FROM DIFFERENT SOURCES SHALL NOT BE MIXED FOR THE STRUCTURE, UNLESS APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR
31. SAND FROM APPROVED QUARRIES/SOURCES SHALL BE USED AND IT SHALL CONFORM TO SPECIFICATIONS,
32. WELL GRADED CRUSHED STONE FROM APPROVED QUARRIES/SOURCES SHALL BE USED AS COARSE AGGREGATE, MAXIMUM NOMINAL SIZE OF THE COARSE AGGREGATE SHALL BE 3/4" AND DOWN GAUGE FOR ALL R.C.C WORKS, IT SHALL CONFORM TO THE SPECIFICATIONS,
33. POTABLE WATER SHALL BE USED FOR CONCRETE & SHALL BE FREE OF ORGANIC & OTHER IMPURITIES,
34. PRECAST CEMENT CONCRETE SPACER BLOCKS OF PROPER SIZE SHALL BE USED, SPACED NOT MORE THAN 36 INCH C/C FOR PROVISION OF REQUIRED COVER TO MAIN REINFORCEMENT, THICKNESS OF THESE BLOCKS SHALL BE EQUAL TO THE REQUIRED COVER,
35. ALL DIMENSIONS ARE GIVEN IN FEET & ALL LEVELS ARE IN FEET, UNLESS NOTED OTHERWISE DRAWINGS SHALL NOT BE SCALED, ONLY WRITTEN DIMENSIONS ARE BE FOLLOWED
36. CONCRETE COVER PROVIDED FOR REINFORCEMENT SHALL BE AS FOLLOWS:
 - (a) FOOTING (TOP) 2"
 - (b) FOOTING (BOTTOM) 3"
 - (c) FOOTING (SIDES) 2"
 - (d) SLAB 3/4"
 - (e) BEAMS & COLUMNS 1 1/2"
 - (f) CONCRETE FACE IN CONTACT WITH EARTH 3"
 - (g) CONCRETE FACE IN CONTACT WITH WATER 1 1/2"
 - (h) R.C.C WALLS 1 1/2"
 - (i) SLAB ON GRADE (TOP) 3/4"
 - (j) SLAB ON GRADE (BOTTOM) 3"
37. ALL LAYOUT, CONFIGURATION, DIMENSIONS & LEVEL SHALL BE VERIFIED BEFORE PROCEEDING WITH THE WORK,
38. ALL REINFORCING BARS SHALL BE HELD FIRMLY IN PLACE BEFORE AND DURING THE POURING OF CONCRETE BY MEANS OF ADEQUATE NUMBER OF WIRES, CHAIRS AND SUPPORTS TO PREVENT DISLOCATION DURING THE COURSE OF CONSTRUCTION,
39. DURING CONSTRUCTION, SAFETY AND STABILITY OF THE STRUCTURE AND ALL TEMPORARY WORKS SHALL BE GIVEN PRIME IMPORTANCE, UTMOST CARE AND PRECAUTION SHALL BE EXERCISED BY THE CONTRACTOR DURING THE WORK AGAINST ANY MISHAP OR ACCIDENT,
40. BARS IN BEAMS SHALL BE JOGGLED IN VERTICAL PLANE FOR LAPS,
41. LAPS SHALL NOT BE PROVIDED WITHIN LOCATION OF COLUMN, BEAM JOINTS, OR WITHIN TWICE THE MEMBER DEPTH FROM THE FACE OF A JOINT,
42. BAR IN COLUMN SHALL BE JOGGLED FOR LAPS WITH STARTER BARS & PLACED WITHIN MIDDLE THIRD OF THE FLOOR HEIGHT
43. POSITION OF BARS IN BEAMS SHALL BE ADJUSTED KEEPING IN VIEW THE POSITION OF VERTICAL BARS OF THE COLUMNS,
44. STIRRUPS SHALL BE PLACED IN SUCH A WAY THAT THEIR HOOKS SHALL BE STAGGERED AND LOCATED IN COMPRESSION FACE WITH A 135° HOOK,
45. CONCRETE TEST CYLINDERS / CUBES SHALL BE CURED WITH THE SAME METHOD AND UNDER CONDITIONS AS THOSE FOR THE CONCRETE WORK THEY REPRESENT,
46. HIGH STRENGTH DEFORMED BAR 60,000 psi FIELD SHALL BE USED

CONCRETE.

1. ALL CONCRETE TO BE AS PER SPECIFICATIONS, CONTRACTOR TO SUBMIT MIX DESIGN FOR APPROVAL PRIOR TO STARTING THE WORKS,
2. CONTRACTOR TO SUBMIT CONCRETE WORK REPORTS INCLUDING TIME OF CASTING, VOLUME OF EACH POUR OF CONCRETE AND FRESH CONCRETE TESTS,
3. TACK WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR,
4. ALL RECOMMENDATIONS AND PRECAUTIONS GIVEN IN SOIL REPORT ARE TO BE CONSIDERED,



Client



STATE BANK OF PAKISTAN

Job

RETROFITTING WORK OF BUILDINGS AT SBP BSC
QUETTA
NIBAF

Consultant



ESS-I-AAR
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO. 314, 3- RD. FLOOR, MASHROOQ CENTER, SIR
SHAH SULAIMAN ROAD, GULSHAN-E-IQBAL BLOCK
NO. 14, KARACHI, P. O. BOX NO. 7600

Title

GENERAL NOTES

Ref. Rev.

SCALE

N.T.S

DATE



COM. LOCATION.

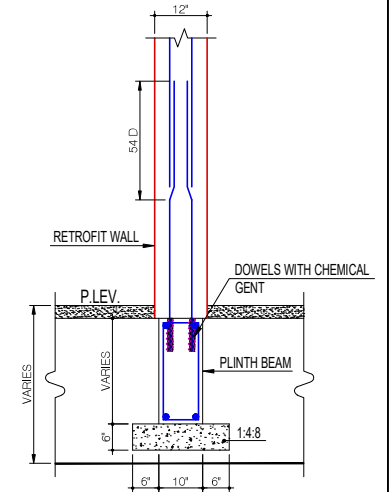
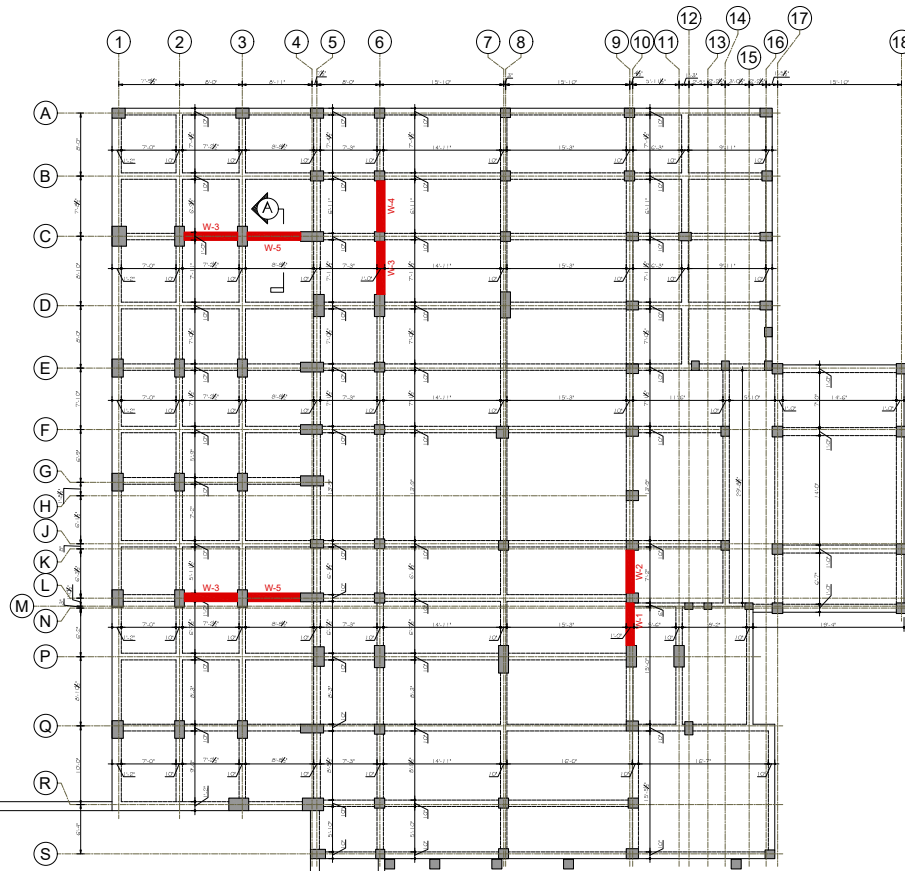
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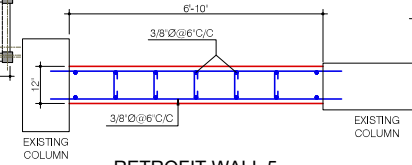
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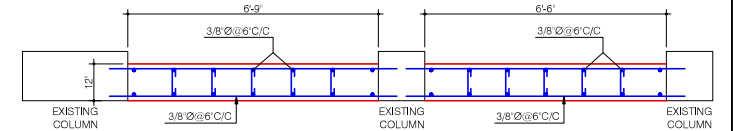
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TYPICAL SECTION A-A
RETROFIT WALL

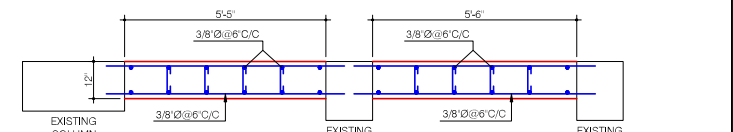


RETROFIT WALL 5



RETROFIT WALL 3

RETROFIT WALL 4



RETROFIT WALL 1

RETROFIT WALL 2

FOUNDATION PLAN
NIBAF



Client
 STATE BANK OF PAKISTAN
NIBAF

Job
RETROFITTING WORK OF BUILDINGS AT SBP BSC
QUETTA
NIBAF

Consultant
 **ESS-I-AAR**
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO. 314, 3- RD. FLOOR MASHREQ CENTER 5/B
SHAH SULEIMAN ROAD, GULSHAN - E - IQBAL BLOCK
NO. 14, KARACHI, P. O. BOX NO. 7600

TITLE		DATE		COM. LOCATION		SHEET REF.
FOUNDATION PLAN NIBAF						STR.
Ref. Rev.	SCALE	DRAWN	CHKD. BY	JOB NO.		
	N.T.S				S-01	

CLIENT



STATE BANK OF PAKISTAN

PROJECT

RETROFITTING WORKS OF BUILDINGS
AT S.B.P B.S.C QUETTA

TITLE

POLICE REST HOUSE

DRAWING'S

PREPARED BY



ESS - I - AAR
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO.314, 3 -RD. FLOOR MASHRIQ CENTRE
SIR SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL
BLOCK NO. 14, KARACHI, P. O. BOX NO. 7608
PHONE NO.4852589 FAX NO.(92-21) 4941059



LIST OF DRAWINGS

S.NO	DRAWING TITLE	DRAWING NO.
1	Ground Floor Plan (Existing)	A-01
2	General Notes	S-00
3	Existing Plan Showing Rehabilitation Work and Sections	S-01
4	Elevation and Sec. of Rehabilitation Work	S-02



Client



STATE BANK OF PAKISTAN

Job

RETROFITTING WORK OF BUILDINGS AT SBP BSC
QUETTA
POLICE REST HOUSE

Consultant



ESS-I-AAR
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO. 314, 3-RD. FLOOR, MASHRIQ CENTER SHR
SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK
NO. 14, KARACHI, P. O. BOX NO. 7608

Title

LIST OF DRAWINGS

Date

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COM. LOCATION:

SHEET REF.

STR.

Ref. Rev.

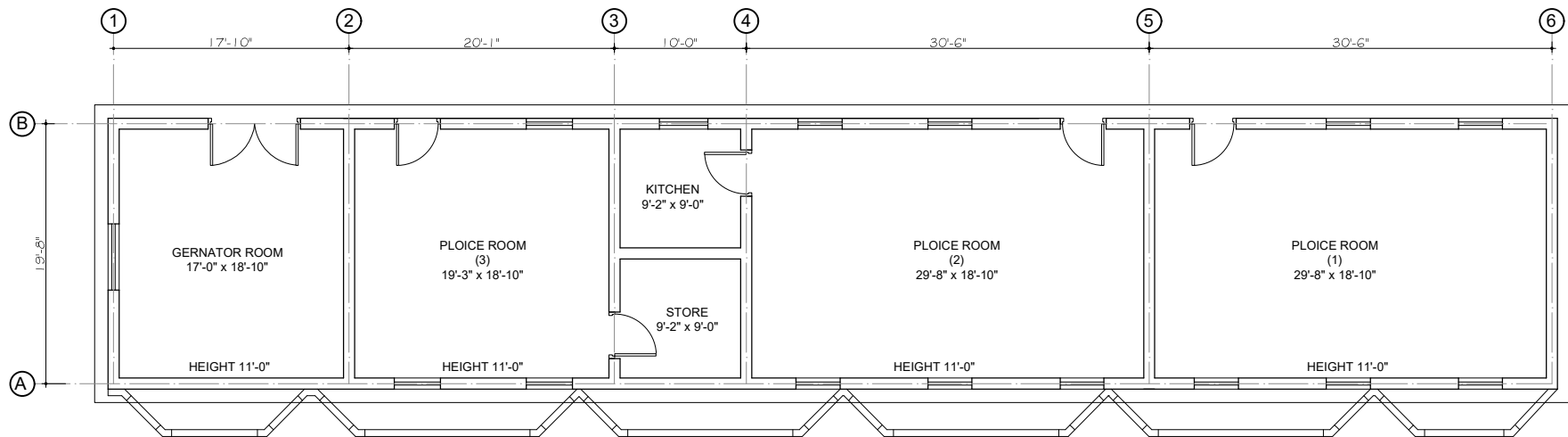
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N.T.S

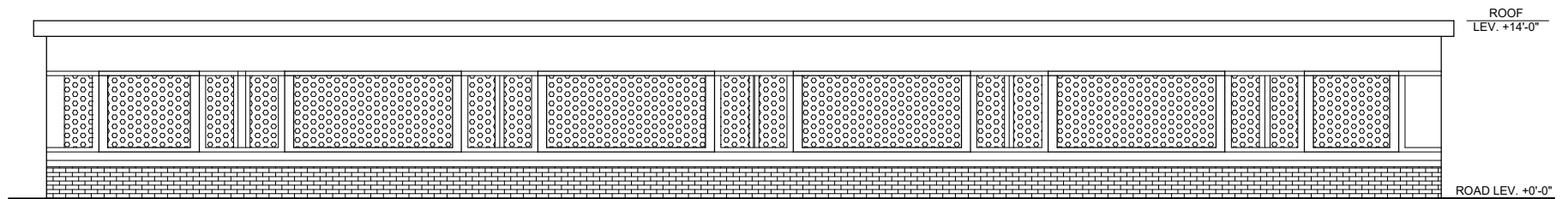
DRAWN

CHKD. BY

JOB NO.



GROUND FLOOR PLAN
POLICE REST HOUSE



FRONT ELEVATION



Client  STATE BANK OF PAKISTAN	Job RETROFITTING WORK OF BUILDINGS AT SBP BSC QUETTA POLICE REST HOUSE	Consultant  ESS-I-AAR PLANNING, ENGINEERING & SERVICES CONSULTANTS SUITE NO. 314, 3- RD. FLOOR, MASHROO CENTER SHR SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK NO. 14, KARACHI - 1, P. O. BOX NO. 7608	TITLE GROUND FLOOR PLAN (EXISTING) Ref. Rev.	DATE SCALE N.T.S.	DRAWN CHKD. BY JOB NO.	COM. LOCATION: SHEET REF. ARCH. A-01
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GENERAL NOTES.

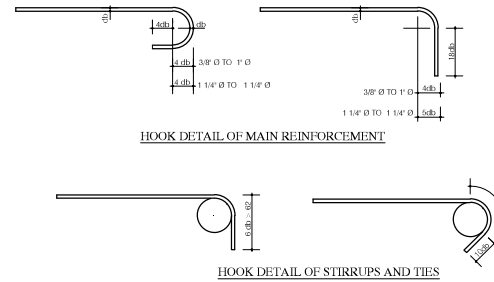
- STRUCTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH SPECIFICATIONS, ALL DRAWINGS AND ALL CONTRACT DOCUMENTS.
- CHECK ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND REPORT ANY INCONSISTENCIES TO THE CONSULTANTS AND PROJECT DIRECTOR BEFORE PROCEEDING WITH THE WORK.
- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT DAMAGE TO EXISTING ADJACENT STRUCTURES.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND DETAILS FOR LOCATION OF FITS, BASES, SLUMPS, TRENCHES, DEPRESSIONS, GROOVES, CURBS, CHAMFERS AND SLOPES NOT SHOWN ON STRUCTURAL DRAWINGS.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ALL REQUIREMENTS FOR SERVICES PENETRATIONS ETC, FOR CONSULTANTS APPROVAL, MODIFICATIONS NECESSITATED BY DETAILED PLANT INFORMATION SHALL BE SUBJECT TO THE CONSULTANTS AND PROJECT DIRECTOR APPROVAL.
- THE CONTRACTOR TO INSTALL ALL PIPE SLEEVES, BOXED OPENINGS, ANCHOR BOLTS, LIFT RAIL INSERTS ETC, AS REQUIRED FOR THE VARIOUS TRADES, VERIFY AND OBTAIN PRIOR APPROVAL OF DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, SLOTS, TRENCH AND ELECTRICAL FLOOR DUCTS AS REQUIRED BY THE VARIOUS TRADES.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PER SPECIFICATION REQUIREMENTS, THE CONTRACTOR SHALL SUBMIT RECORD DRAWINGS INCORPORATING ALL DESIGN TEAM COMMENTS.
- ALL ELEVATIONS ARE REFERENCED TO THE PROJECT DATUM.
- ALL CAST-IN-SITU CONCRETE SHALL HAVE MINIMUM STRENGTH CLASS AS SHOWN IN THE STRUCTURAL CONCRETE MATERIAL SCHEDULE ON THIS SHEET, UNLESS NOTED OTHERWISE ON THE DRAWINGS OR SPECIFICATION.
- ALL REINFORCING STEEL BARS SHALL CONFORM TO ASTM A615, GRADE 60 DEFORMED HAVING 60,000 MIN. YIELD STRENGTH & MIN. ULTIMATE STRENGTH OF 90000 PSI, UNLESS NOTED OTHERWISE, THE STEEL SUPPLIER SHALL PROVIDE THE CONSULTANT WITH AN AFFIDAVIT OF THE PRODUCER OF STEEL CERTIFYING THAT THE STEEL MEETS THE REQUIREMENTS OF ASTM A615.
- PROVIDE STAGGERED FULL TENSION SPLICES FOR ALL WATER RESISTING CONSTRUCTION INCLUDING RAFT SLAB AND ALL FITS AND MANHOLES.
- ADDITIONAL BARS SHALL BE PROVIDED AROUND ALL FLOOR AND WALL OPENINGS AS SHOWN IN THE DETAILS.
- ALL LAPS OF 54 TIMES THE DIA OF THE BARS
- CONCRETE BUNDING: FOUNDATION, GROUND BEAMS, GROUND SLABS SHALL BE PLACED ON A MINIMUM THICKNESS OF 6 INCH OF 1:4:8 CONCRETE BUNDING UNLESS NOTED OTHERWISE.
- CONCRETE BACKFILL: MASS CONCRETE BACKFILL IS TO BE USED AS INSTRUCTED BY THE CONSULTANTS, ANY EXCAVATION BENEATH FOOTINGS AND FOUNDATIONS MUST BE MADE UP USING C20 MASS CONCRETE.
- HOT WEATHER CONCRETING: REFER TO SPECIFICATIONS, THE INITIAL TEMPERATURE OF FRESH CONCRETE MUST NOT EXCEED 30°C, CONCRETING SHALL NOT TAKE PLACE IN AMBIENT SHADE TEMPERATURE EXCEEDING 43°C.
- ANY EMBEDDED ITEM PIPES / CONDUITS/PLATES, SLEEVES FOR UTILITIES ETC, MUST BE COORDINATES REVEALING DRAWINGS BE FOR CONCRETING OF BEAMS/COLUMNS/SLABS
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SLEEVES IN SLAB, ROOF SLAB, BEAMS, RETAINING WALLS FOR COLD WATER /HOT WATER PIPES, EMBEDDED SPECIFIED ITEM AND TO WASTE WATER / SOIL & VENT PIPES RAIN WATER PIPES AIR CONDITIONING PIPES & ELECTRICAL CABLES AS PER PLUMBING/ELECTRICAL & MECHANICAL DRAWINGS
- ALL CONDUITS AND PIPES TO BE LAID IN CONCRETE SHALL BE ABOVE MAIN REINFORCEMENT OF SLABS AND BEAM AND WITH THE APPROVAL OF THE CONSULTANTS AND PROJECT DIRECTOR.
- BACK FILLING OF EXCAVATION BEHIND RETAINING WALL AND OTHER AREAS SHALL BE DONE IN EQUAL LAYER NOT EXCEEDING 6" THICKNESS, EACH LAYER IS TO ACHIEVE MINIMUM 95% MAX.DRY DENSITY
- NO CONCRETE SHALL BE POURED UNTIL ITS FORM WORK AND REINFORCEMENT HAS BEEN INSPECTED AND APPROVED BY THE CONSULTANTS, AND PROPER PRE-CAMBER IS PROVIDED
- SEQUENCE OF REMOVAL OF FORM WORK SHALL BE AS SPECIFIED AND APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR

- CONSTRUCTION JOINTS: VERTICAL CONSTRUCTION JOINTS IN ALL WALLS SHALL BE USED ONLY IF UNAVOIDABLE, OR UNLESS OTHERWISE NOTED, AND TO BE LOCATED AT LEAST 5 FT. FROM ANY SUPPORTING COLUMN OR WALL OPENING, DISTANCE BETWEEN JOINTS IN WALL SHALL BE ALLOWED AS PER SPECIFICATIONS, NO HORIZONTAL CONSTRUCTION JOINTS WILL BE ALLOWED IN GRADE BEAMS, ALL MEMBERS IN THE FLOOR SYSTEM INCLUDING BEAMS, BRACKETS, COLUMN CAPITALS AND HAUNCHES SHALL BE PLACED MONOLITHICALLY, HORIZONTAL CONSTRUCTION JOINTS NECESSARY MAY BE MADE AT CENTRE OF BEAM OR SLAB
- THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWING FOR CONCRETE POURING SEQUENCE FOR ALL FLOOR AND SUBMIT IT FOR THE APPROVAL OF CONSULTANTS AND PROJECT DIRECTOR BEFORE START OF WORK.
- DESIGN OF R.C.C HAS BEEN DONE IN ACCORDANCE WITH ACI-318 CODE SPECIFICATIONS, SEISMIC DESIGN IS BASED ON UBC-1997 CODE (ZONE 4)
- FOR CONCRETE CYLINDER STRENGTH IN DIFFERENT STRUCTURAL MEMBERS, PLEASE REFER TO TABLE-A
- DESIGN OF SPECIFIED CONCRETE MIX SHALL BE SUBMITTED BY THE CONTRACTOR AND SHALL BE GOT APPROVED FROM THE CONSULTANTS AND PROJECT DIRECTOR WELL BEFORE CONCRETING OF RELEVANT STRUCTURES ALONG WITH RESULT OF TEST SPECIMEN TESTED AS PER ASTM C-39, TEST SPECIMENS SHALL BE MADE AND CURED IN ACCORDANCE WITH ASTM C-31.
- SULPHATE RESISTING CEMENT SHALL BE USED INSTEAD OF ORDINARY PORTLAND CEMENT IN R.C.C WORKS UP TO GROUND FLOOR COMPLETE IN ALL RESPECTS AS PER INSTRUCTIONS OF THE CONSULTANTS AND PROJECT DIRECTOR
- CEMENT FROM DIFFERENT SOURCES SHALL NOT BE MIXED FOR THE STRUCTURE, UNLESS APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR
- SAND FROM APPROVED QUARRIES/SOURCES SHALL BE USED AND IT SHALL CONFORM TO SPECIFICATIONS.
- WELL GRADED CRUSHED STONE FROM APPROVED QUARRIES/SOURCES SHALL BE USED AS COARSE AGGREGATE, MAXIMUM NOMINAL SIZE OF THE COARSE AGGREGATE SHALL BE 3/4" AND DOWN GAUGE FOR ALL R.C.C WORKS, IT SHALL CONFORM TO THE SPECIFICATIONS.
- POTABLE WATER SHALL BE USED FOR CONCRETE & SHALL BE FREE OF ORGANIC & OTHER IMPURITIES.
- PRECAST CEMENT CONCRETE SPACER BLOCKS OF PROPER SIZE SHALL BE USED, SPACED NOT MORE THAN 36 INCH C/C FOR PROVISION OF REQUIRED COVER TO MAIN REINFORCEMENT, THICKNESS OF THESE BLOCKS SHALL BE EQUAL TO THE REQUIRED COVER.
- ALL DIMENSIONS ARE GIVEN IN FEET & ALL LEVELS ARE IN FEET, UNLESS NOTED OTHERWISE DRAWING SHALL NOT BE SCALED, ONLY WRITTEN DIMENSIONS ARE BE FOLLOWED
- CONCRETE COVER PROVIDED FOR REINFORCEMENT SHALL BE AS FOLLOWS:
 - FOOTING (TOP) 2"
 - FOOTING (BOTTOM) 3"
 - FOOTING (SIDES) 2"
 - SLAB 3/4"
 - BEAMS & COLUMNS 1 1/2"
 - CONCRETE FACE IN CONTACT WITH EARTH 3"
 - CONCRETE FACE IN CONTACT WITH WATER 1 1/2"
 - R.C.C WALLS 1 1/2"
 - SLAB ON GRADE (TOP) 3/4"
 - SLAB ON GRADE (BOTTOM) 3"
- ALL LAYOUT, CONFIGURATION, DIMENSIONS & LEVEL SHALL BE VERIFIED BEFORE PROCEEDING WITH THE WORK.
- ALL REINFORCING BARS SHALL BE HELD FIRMLY IN PLACE BEFORE AND DURING THE POURING OF CONCRETE BY MEANS OF ADEQUATE NUMBER OF WIRES, CHAIRS AND SUPPORTS TO PREVENT DISLOCATION DURING THE COURSE OF CONSTRUCTION.
- DURING CONSTRUCTION, SAFETY AND STABILITY OF THE STRUCTURE AND ALL TEMPORARY WORKS SHALL BE GIVEN PRIME IMPORTANCE, UTMOST CARE AND PRECAUTION SHALL BE EXERCISED BY THE CONTRACTOR DURING THE WORK AGAINST ANY MISHAP OR ACCIDENT.
- BARS IN BEAMS SHALL BE JOGGLED IN VERTICAL PLANE FOR LAPS.
- LAPS SHALL NOT BE PROVIDED WITHIN LOCATION OF COLUMN, BEAM JOINTS, OR WITHIN TWICE THE MEMBER DEPTH FROM THE FACE OF A JOINT.
- BAR IN COLUMN SHALL BE JOGGLED FOR LAPS WITH STARTER BARS & PLACED WITHIN MIDDLE THIRD OF THE FLOOR HEIGHT
- POSITION OF BARS IN BEAMS SHALL BE ADJUSTED KEEPING IN VIEW THE POSITION OF VERTICAL BARS OF THE COLUMNS.
- STIRRUPS SHALL BE PLACED IN SUCH A WAY THAT THEIR HOOKS SHALL BE STAGGERED AND LOCATED IN COMPRESSION FACE, WITH A 135° HOOK.
- CONCRETE TEST CYLINDERS / CUBES SHALL BE CURED WITH THE SAME METHOD AND UNDER CONDITIONS AS THOSE FOR THE CONCRETE WORK THEY REPRESENT.
- HIGH STRENGTH DEFORMED BAR 60,000 psi FIELD SHALL BE USED

CONCRETE.

- ALL CONCRETE TO BE AS PER SPECIFICATIONS, CONTRACTOR TO SUBMIT MIX DESIGN FOR APPROVAL PRIOR TO STARTING THE WORKS.
- CONTRACTOR TO SUBMIT CONCRETE WORK REPORTS INCLUDING TIME OF CASTING, VOLUME OF EACH POUR OF CONCRETE AND FRESH CONCRETE TESTS.
- TACK WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR.
- ALL RECOMMENDATIONS AND PRECAUTIONS GIVEN IN SOIL REPORT ARE TO BE CONSIDERED.

FOUNDATION		
STRUCTURAL CONCRETE SCHEDULE		
NO.	LOCATION	QUANTITY (CU. FEET)
1		
2	FOUNDATION	4000
3	SHEARWALL LINK BEAMS	4000
4	RETAINING WALLS	4000
5	SLABS	3000
6	COLUMN	4000
7	BEAMS	3000
8	MANHOLE	3000



Client



STATE BANK OF PAKISTAN

Job

RETROFITTING WORK OF BUILDINGS AT SBP BSC
QUETTA
POLICE REST HOUSE

Consultant

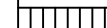


ESS-I-AAR
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO. 314, 3RD FLOOR, MASHROOF CENTER SHR
SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL, BLOCK
NO. 14, KARACHI, P. O. BOX NO. 7608

Title

GENERAL NOTES

Date



COM. LOCATION:

SHEET REF.

STR.

Ref. Rev.

SCALE

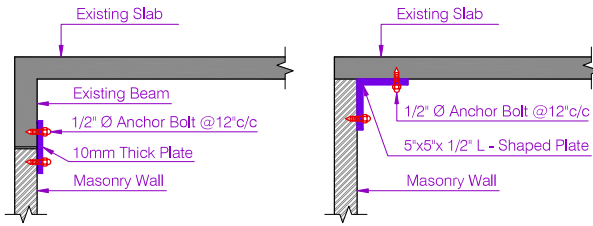
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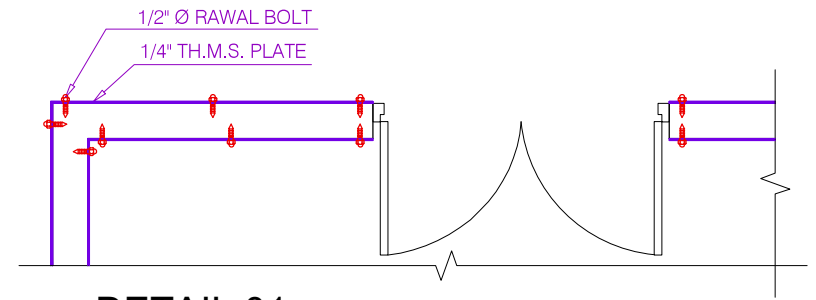
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JOB NO.

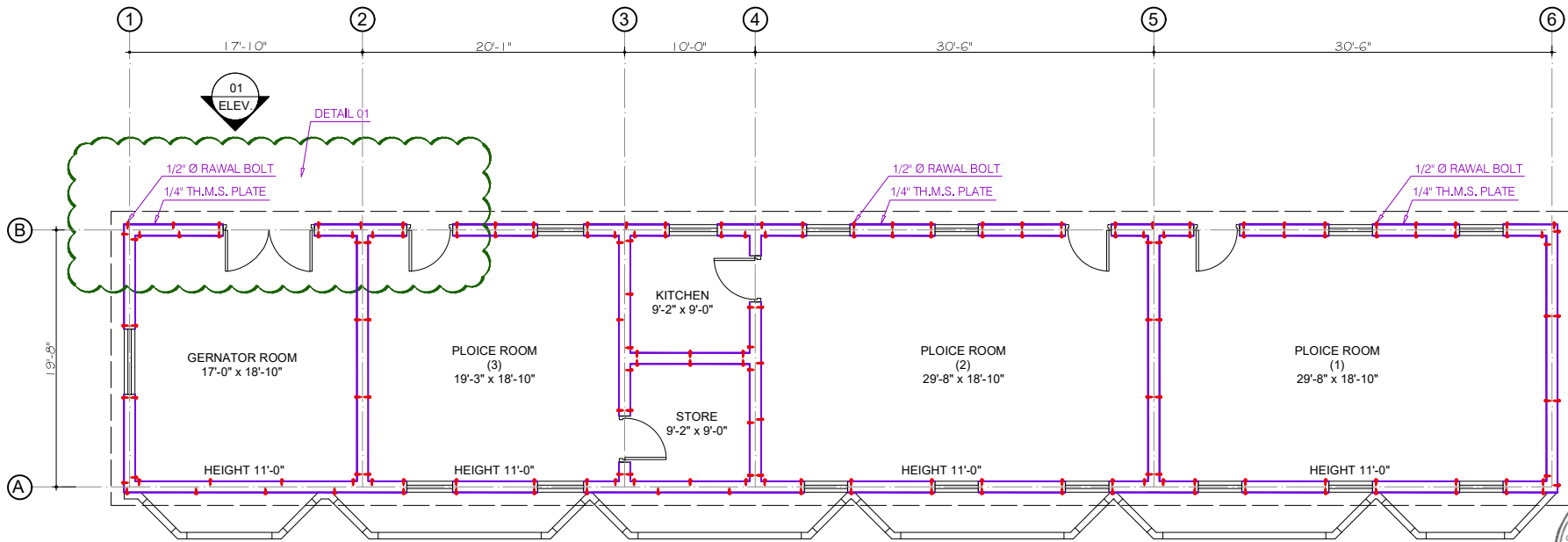
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**LOAD BEARING STRUCTURE
DIAPHRAGM CONNECTION WITH BEAM/SLAB**



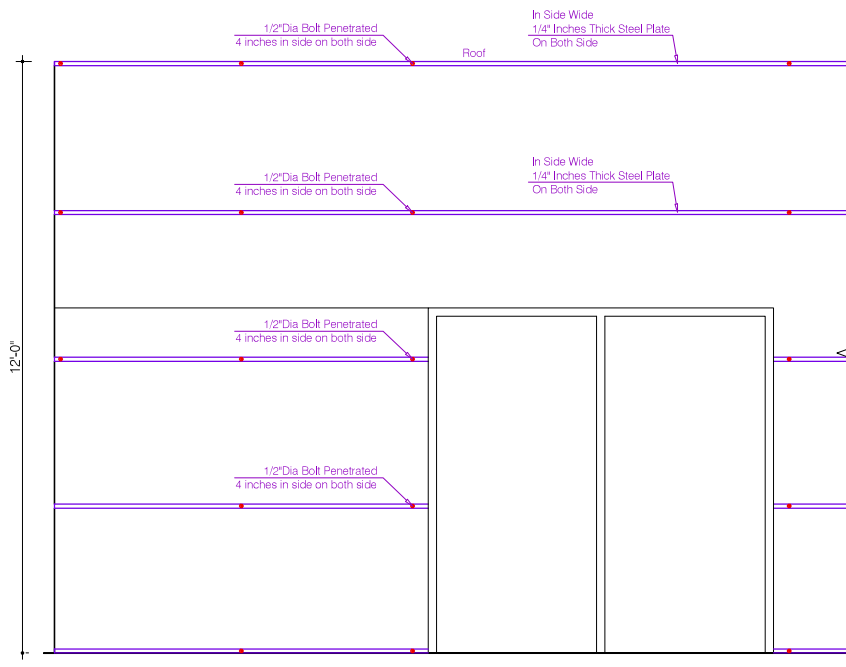
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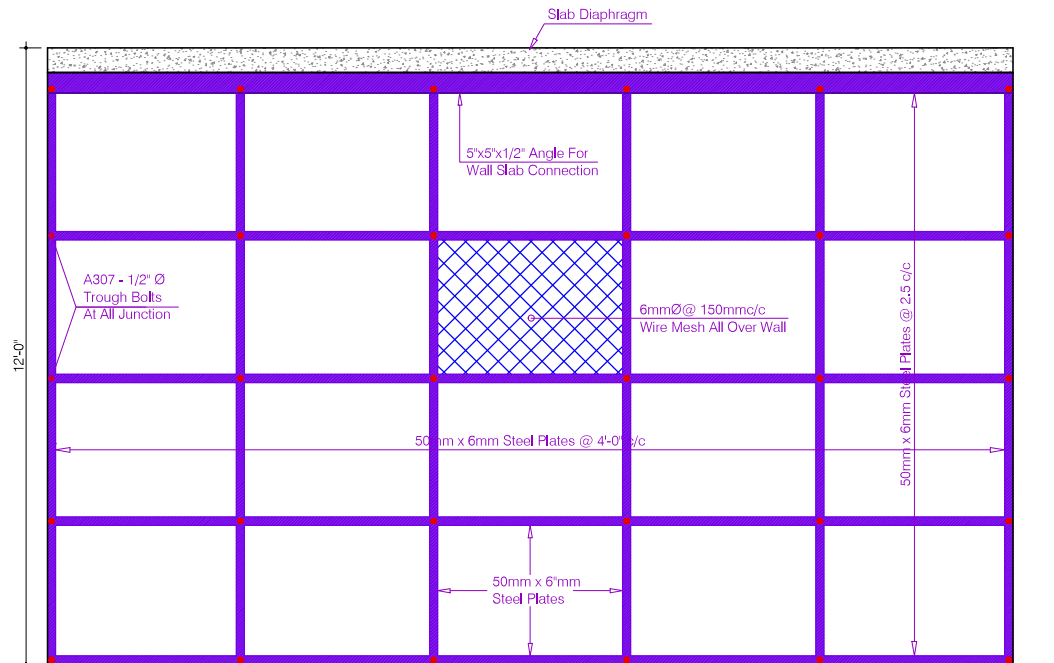
**GROUND FLOOR PLAN
POLICE REST HOUSE**



Client  STATE BANK OF PAKISTAN	Job RETROFITTING WORK OF BUILDINGS AT SBP BSC QUETTA POLICE REST HOUSE	Consultant  ESS-I-AAR PLANNING, ENGINEERING & SERVICES CONSULTANTS SUITE NO. 314, 3-RD. FLOOR, MASHROQ CENTRE SHR SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK NO. 14, KARACHI - 1, P. O. BOX NO. 7608	TITLE EXISTING PLAN SHOWING REHABILITATION WORK AND SECTIONS Ref. Rev.	DATE SCALE N.T.S.	COM. LOCATION: CHKD. BY JOB NO.	SHEET REF. STR. S-01
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Typical Elevation 01



TYPICAL OUT - OF - PLANE & DIAPHRAGM WALL DETAIL
FOR MASONRY STRENGTHENING



Client 	STATE BANK OF PAKISTAN	Job RETROFITTING WORK OF BUILDINGS AT SBP BSC QUETTA POLICE REST HOUSE	Consultant  ESS-I-AAR PLANNING, ENGINEERING & SERVICES CONSULTANTS SUITE NO. 314, 3- RD. FLOOR, MASHRIQ CENTER SHR SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK NO. 14, KARACHI - P. O. BOX NO. 7608	TITLE ELEVATION AND SEC.OF REHABILITATION WORK. Ref. Rev.	DATE 	COM. LOCATION: CHKD. BY JOB NO.	SHEET REF. STR. S-02
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CLIENT



STATE BANK OF PAKISTAN

PROJECT

RETROFITTING WORKS OF BUILDINGS
AT S.B.P B.S.C QUETTA

TITLE

SECURITY & SERVICES BLOCK

DRAWING'S

PREPARED BY



ESS - I - AAR
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO.314, 3 -RD. FLOOR MASHRIQ CENTRE
SIR SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL
BLOCK NO. 14 , KARACHI .P. O. BOX NO. 7608
PHONE NO.4852589 FAX NO.(92-21) 4941059



LIST OF DRAWINGS

S.NO	DRAWING TITLE	DRAWING NO.
1	Ground Floor Plan Security Building	A-01
2	Ground Floor Plan Services Building	A-02
3	Typical Elevation	A-03
4	Typical Detail	A-04
5	General Notes	S-00



Client



STATE BANK OF PAKISTAN

Job

RETROFITTING WORK OF BUILDINGS AT SBP BSC
QUETTA
SECURITY & SERVICES BLOCK

Consultant



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NO. 14, KARACHI, P. O. BOX NO. 7608

Ref. Rev.

TITLE
LIST OF DRAWINGS

SCALE
N.T.S

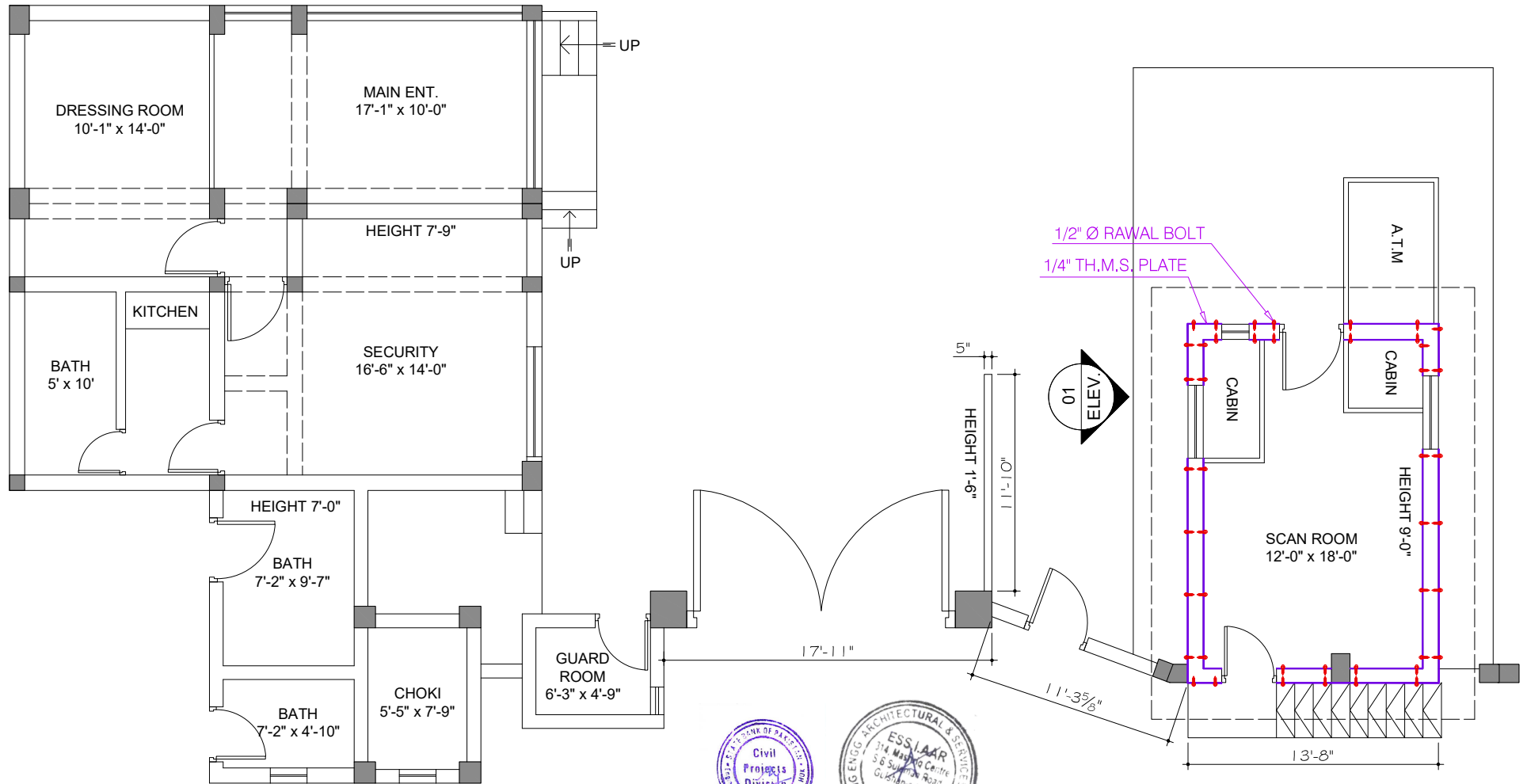
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DRAWN

CHKD. BY

JOB NO.

SHEET REF.
ARCH.



Client



STATE BANK OF PAKISTAN

Job **RETROFITTING WORK OF BUILDINGS AT SBP BSC
QUETTA
SECURITY & SERVICES BLOCK**

Consultant



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PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO. 314, 3-RD, FLOOR, WASHRIQ CENTER SHR
SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK
NO. 14, KARACHI - 1, P. O. BOX NO. 7608

Title

GROUND FLOOR PLAN

Ref. Rev.

SCALE

N.T.S

DATE

11/11/11

DRAWN

CHKD. BY

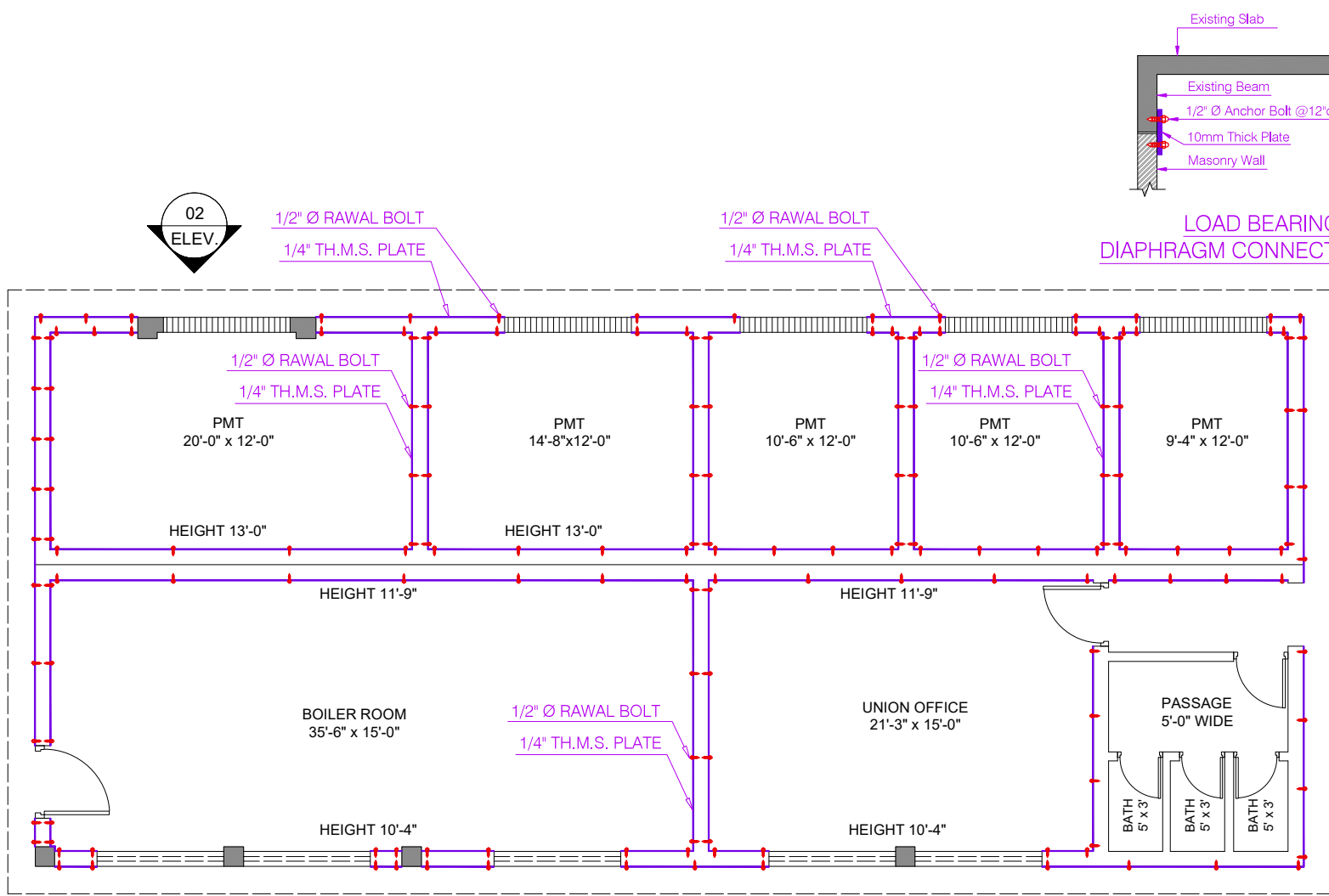
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11/11/11

JOB NO.

A-01

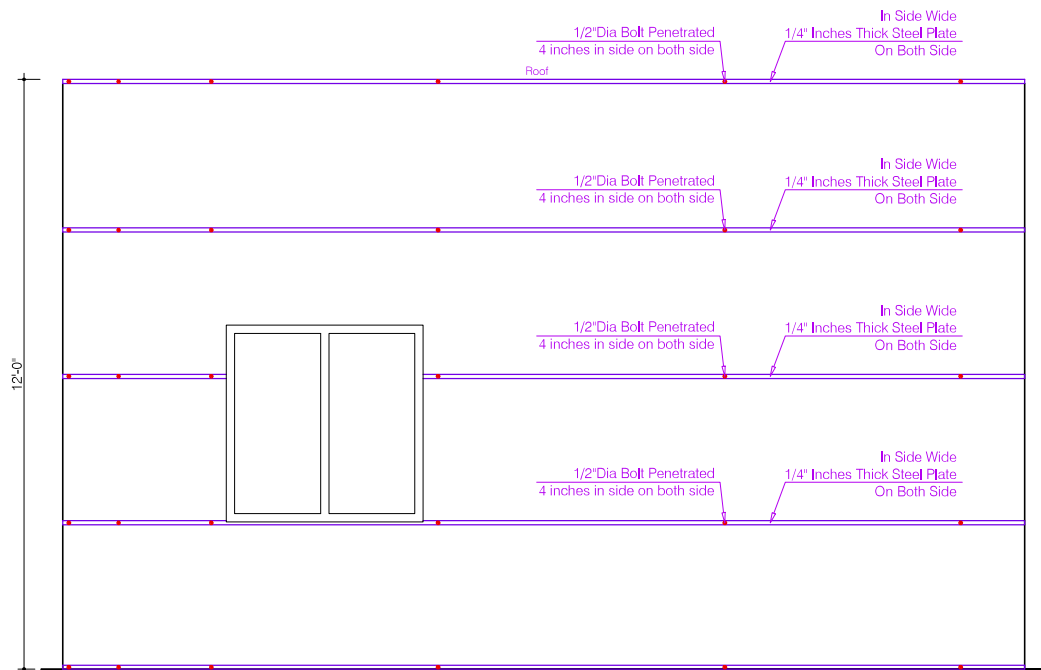
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ARCH.



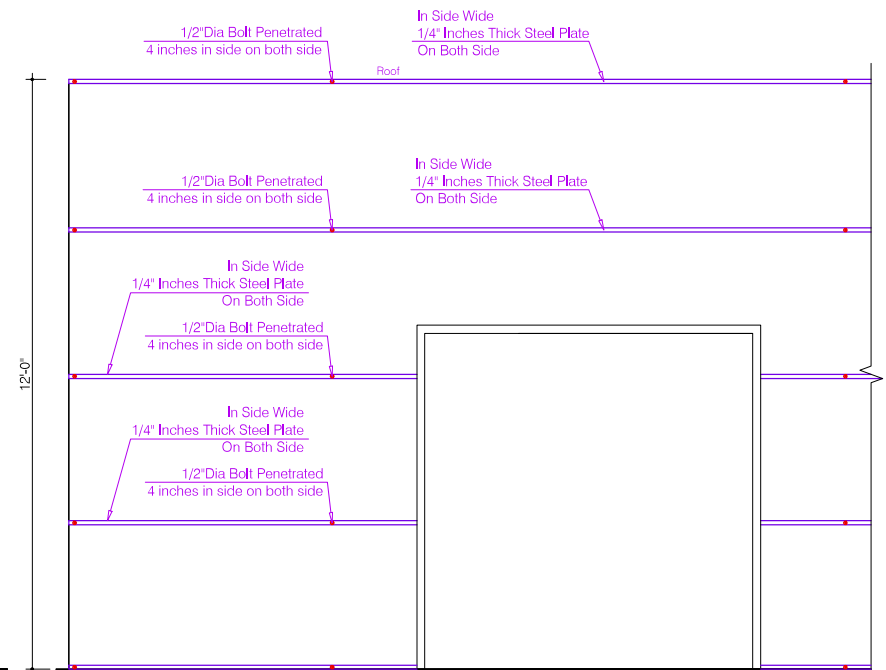
GROUND FLOOR PLAN
SERVICE BLOCK



Client  STATE BANK OF PAKISTAN	Job RETROFITTING WORK OF BUILDINGS AT SBP BSC QUETTA SECURITY & SERVICES BLOCK	Consultant  ESS-I-AAR PLANNING, ENGINEERING & SERVICES CONSULTANTS SUITE NO. 314, 3- RD. FLOOR, WASHIRO CENTER SHR SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK NO. 14, KARACHI - 1, P. O. BOX NO. 7608	Title GROUND FLOOR PLAN Ref. Rev. SCALE N.T.S	DATE DRAWN	COM. LOCATION CHKD. BY JOB NO. SHEET REF. ARCH. A-02
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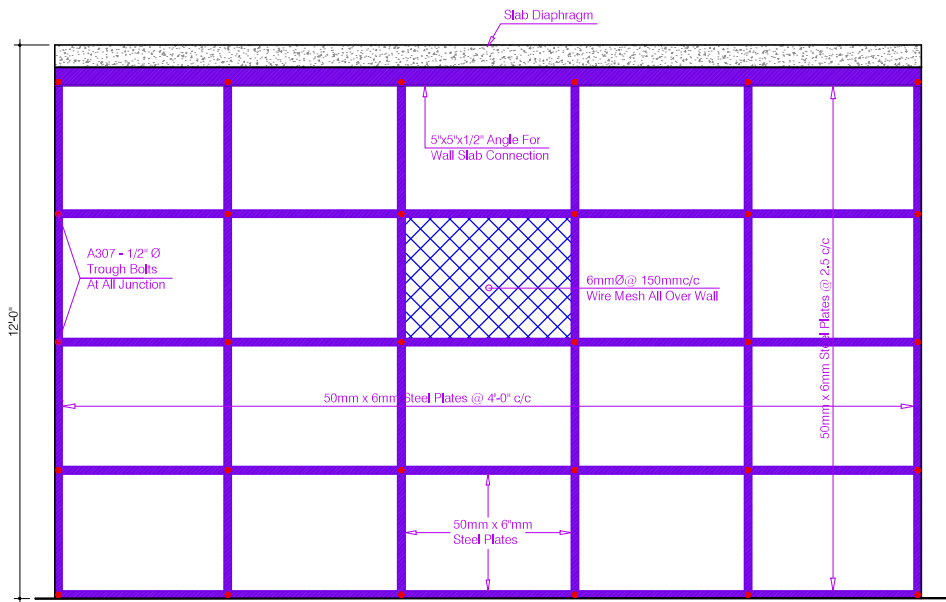
Typical Elevation 01
SECURITY BLOCK



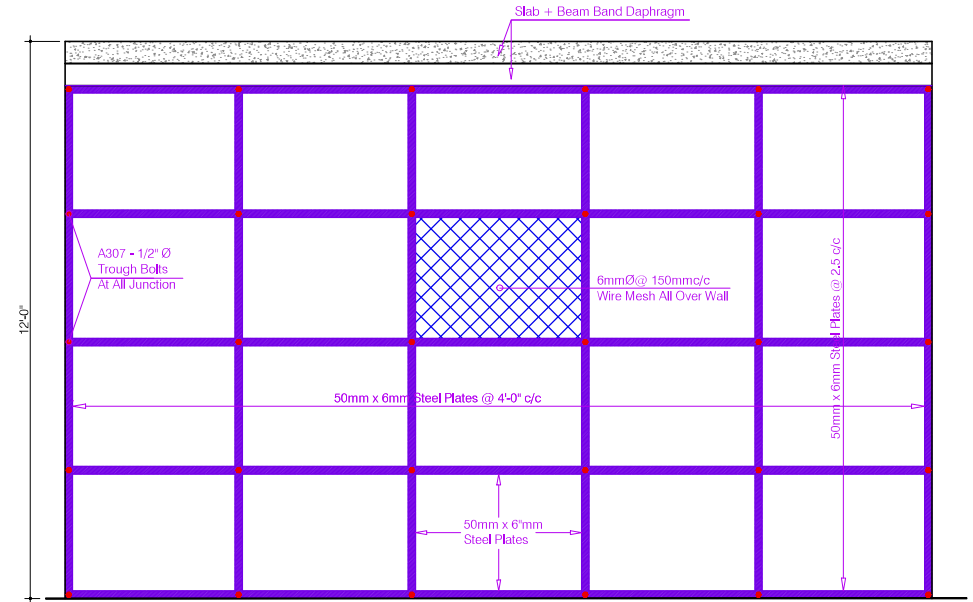
Typical Elevation 02
SERVICE BLOCK



Client  STATE BANK OF PAKISTAN	Job RETROFITTING WORK OF BUILDINGS AT SBP BSC QUETTA SECURITY & SERVICES BLOCK	Consultant  ESS-I-AAR PLANNING, ENGINEERING & SERVICES CONSULTANTS SUITE NO. 314, 3- RD. FLOOR, WASHIRO CENTER SHR SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK NO. 14, KARACHI - 1, P. O. BOX NO. 7608	Ref. Rev. TITLE TYPICAL ELEVATION	DATE SCALE N.T.S	COM. LOCATION: CHKD. BY JOB NO.	SHEET REF. ARCH. A-03
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TYPICAL OUT - OF - PLANE & DIAPHRAGM WALL DETAIL FOR MASONRY STRENGTHENING



TYPICAL OUT OF PLANE & DIAPHRAGM BEAM - WALL DETAIL FOR MASONRY STRENGTHENING



Client



STATE BANK OF PAKISTAN

Job

RETROFITTING WORK OF BUILDINGS AT SBP BSC
QUETTA
SECURITY & SERVICES BLOCK

Consultant

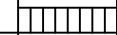


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Title

TYPICAL DETAIL

Date



COM. LOCATION:

SHEET REF.

ARCH.

Ref. Rev.

SCALE

N.T.S

DRAWN

CHKD. BY

JOB NO.

A-04

GENERAL NOTES.

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- ADDITIONAL BARS SHALL BE PROVIDED ABOVE ALL FLOOR AND WALL OPENINGS AS SHOWN IN THE DETAILS.
- ALL LAPS OF 54 TIMES THE DIA OF THE BARS
- CONCRETE BUILDING: FOUNDATION, GROUND BEAMS, GROUND SLABS SHALL BE PLACED ON A MINIMUM THICKNESS OF 6 INCH OF 1:4:8 CONCRETE BLINDING UNLESS NOTED OTHERWISE.
- CONCRETE BACKFILL: MASS CONCRETE BACKFILL IS TO BE USED AS INSTRUCTED BY THE CONSULTANTS, ANY EXCAVATION BENEATH FOOTINGS AND FOUNDATIONS MUST BE MADE UP USING C20 MASS CONCRETE.
- HOT WEATHER CONCRETING: REFER TO SPECIFICATIONS, THE INITIAL TEMPERATURE OF FRESH CONCRETE MUST NOT EXCEED 30°C. CONCRETING SHALL NOT TAKE PLACE IN AMBIENT SHADE TEMPERATURE EXCEEDING 45°C.
- ANY EMBEDDED ITEM PIPES / CONDUITS / PLATES, SLEEVES FOR UTILITIES ETC. MUST BE COORDINATES. REVELENT DRAWINGS BE FOR CONCRETING OF BEAMS/COLUMNS/SLABS
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SLEEVES IN SLAB, ROOF SLAB, BEAMS, RETAINING WALLS FOR COLD WATER HOT WATER PIPES, EMBEDDED SPECIFIED ITEM AND TO WASTE WATER, SOIL & VENT PIPES, RAIN WATER PIPES, AIR CONDITIONING PIPES & ELECTRICAL CABLES AS PER PLUMBING, ELECTRICAL & MECHANICAL DRAWINGS
- ALL CONDUITS AND PIPES TO BE LAID IN CONCRETE SHALL BE ABOVE MAIN REINFORCEMENT OF SLABS AND BEAM AND WITH THE APPROVAL OF THE CONSULTANTS AND PROJECT DIRECTOR.
- BACK FILLING OF EXCAVATION BEHIND RETAINING WALL AND OTHER AREAS SHALL BE DONE IN EQUAL LAYER NOT EXCEEDING 6" THICKNESS, EACH LAYER IS TO ACHIEVE MINIMUM 95% MAX. DRY DENSITY
- NO CONCRETE SHALL BE POURED UNTIL ITS FORM WORK AND REINFORCEMENT HAS BEEN INSPECTED AND APPROVED BY THE CONSULTANTS, AND PROPER PRE-CAMBER IS PROVIDED
- SEQUENCE OF REMOVAL OF FORM WORK SHALL BE AS SPECIFIED AND APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR

24. CONSTRUCTION JOINTS: VERTICAL CONSTRUCTION JOINTS IN ALL WALLS SHALL BE USED ONLY IF UNAVOIDABLE, OR UNLESS OTHERWISE NOTED, AND TO BE LOCATED AT LEAST 5 FT. FROM ANY SUPPORTING COLUMN OR WALL OPENING. DISTANCE BETWEEN JOINTS IN WALL SHALL BE ALLOWED AS PER SPECIFICATIONS. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE ALLOWED IN GRADE BEAMS. ALL MEMBERS IN THE FLOOR SYSTEM INCLUDING BEAMS, BRACKETS, COLUMN CAPITALS AND HAUNCHES SHALL BE PLACED MONOLITHICALLY. HORIZONTAL CONSTRUCTION JOINTS NECESSARY MAY BE MADE AT CENTRE OF BEAM OR SLAB
25. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWING FOR CONCRETE POURING SEQUENCE FOR ALL FLOOR AND SUBMIT IT FOR THE APPROVAL OF CONSULTANTS AND PROJECT DIRECTOR BEFORE START OF WORK.

26. DESIGN OF R.C.C. HAS BEEN DONE IN ACCORDANCE WITH ACI-318 CODE SPECIFICATIONS. SEISMIC DESIGN IS BASED ON UBC-1997 CODE (ZONE 4)

27. FOR CONCRETE CYLINDER STRENGTH IN DIFFERENT STRUCTURAL MEMBERS, PLEASE REFER TO TABLE-A

28. DESIGN OF SPECIFIED CONCRETE MIX SHALL BE SUBMITTED BY THE CONTRACTOR AND SHALL BE GOT APPROVED FROM THE CONSULTANTS AND PROJECT DIRECTOR WELL BEFORE CONCRETING OF RELEVANT STRUCTURES ALONG WITH RESULT OF TEST SPECIMEN TESTED AS PER ASTM C-39. TEST SPECIMENS SHALL BE MADE AND CURED IN ACCORDANCE WITH ASTM C-41.

29. SULPHATE RESISTING CEMENT SHALL BE USED INSTEAD OF ORDINARY PORTLAND CEMENT IN R.C.C. WORKS UP TO GROUND FLOOR COMPLETE IN ALL RESPECTS AS PER INSTRUCTIONS OF THE CONSULTANTS AND PROJECT DIRECTOR

30. CEMENT FROM DIFFERENT SOURCES SHALL NOT BE MIXED FOR THE STRUCTURE, UNLESS APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR

31. SAND FROM APPROVED QUARRIES SOURCES SHALL BE USED AND IT SHALL CONFORM TO SPECIFICATIONS.

32. WELL GRADED CRUSHED STONE FROM APPROVED QUARRIES SOURCES SHALL BE USED AS COARSE AGGREGATE. MAXIMUM NOMINAL SIZE OF THE COARSE AGGREGATE SHALL BE 3/4" AND DOWN GAUGE FOR ALL R.C.C. WORKS. IT SHALL CONFORM TO THE SPECIFICATIONS.

33. POTABLE WATER SHALL BE USED FOR CONCRETE & SHALL BE FREE OF ORGANIC & OTHER IMPURITIES.

34. PRECAST CEMENT CONCRETE SPACER BLOCKS OF PROPER SIZE SHALL BE USED. SPACED NOT MORE THAN 36 INCH C/C FOR PROVISION OF REQUIRED COVER TO MAIN REINFORCEMENT. THICKNESS OF THESE BLOCKS SHALL BE EQUAL TO THE REQUIRED COVER.

35. ALL DIMENSIONS ARE GIVEN IN FEET & ALL LEVELS ARE IN FEET. UNLESS NOTED OTHERWISE DRAWING SHALL NOT BE SCALED. ONLY WRITTEN DIMENSIONS ARE BE FOLLOWED

36. CONCRETE COVER PROVIDED FOR REINFORCEMENT SHALL BE AS FOLLOWS:

- | | |
|---|--------|
| (a) FOOTING (TOP) | 2" |
| (b) FOOTING (BOTTOM) | 3" |
| (c) FOOTING (SIDES) | 2" |
| (d) SLAB | 3/4" |
| (e) BEAMS & COLUMNS | 1 1/2" |
| (f) CONCRETE FACE IN CONTACT WITH EARTH | 3" |
| (g) CONCRETE FACE IN CONTACT WITH WATER | 1 1/2" |
| (h) R.C.C. WALLS | 1 1/2" |
| (i) SLAB ON GRADE (TOP) | 3/4" |
| (j) SLAB ON GRADE (BOTTOM) | 3" |

37. ALL LAYOUT, CONFIGURATION, DIMENSIONS & LEVEL SHALL BE VERIFIED BEFORE PROCEEDING WITH THE WORK.

38. ALL REINFORCING BARS SHALL BE HELD FIRMLY IN PLACE BEFORE AND DURING THE POURING OF CONCRETE BY MEANS OF ADEQUATE NUMBER OF WIRES, CHAIRS AND SUPPORTS TO PREVENT DISLOCATION DURING THE COURSE OF CONSTRUCTION.

39. DURING CONSTRUCTION, SAFETY AND STABILITY OF THE STRUCTURE AND ALL TEMPORARY WORKS SHALL BE GIVEN PRIME IMPORTANCE. UTMOST CARE AND PRECAUTION SHALL BE EXERCISED BY THE CONTRACTOR DURING THE WORK AGAINST ANY MISHAP OR ACCIDENT.

40. BARS IN BEAMS SHALL BE JOGGLED IN VERTICAL PLANE FOR LAPS.

41. LAPS SHALL NOT BE PROVIDED WITHIN LOCATION OF COLUMN, BEAM JOINTS, OR WITHIN TWICE THE MEMBER DEPTH FROM THE FACE OF A JOINT.

42. BAR IN COLUMN SHALL BE JOGGLED FOR LAPS WITH STARTER BARS & PLACED WITHIN MIDDLE THIRD OF THE FLOOR HEIGHT

43. POSITION OF BARS IN BEAMS SHALL BE ADJUSTED KEEPING IN VIEW THE POSITION OF VERTICAL BARS OF THE COLUMNS.

44. STIRRUPS SHALL BE PLACED IN SUCH A WAY THAT THEIR HOOKS SHALL BE STAGGERED AND LOCATED IN COMPRESSIVE FACE, WITH A 135° HOOK.

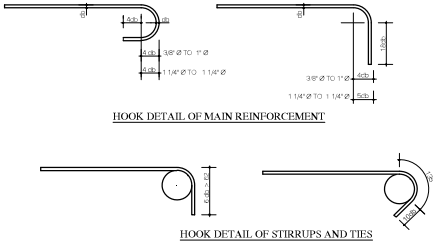
45. CONCRETE TEST CYLINDERS / CUBES SHALL BE CURED WITH THE SAME METHOD AND UNDER CONDITIONS AS THOSE FOR THE CONCRETE WORK THEY REPRESENT.

46. HIGH STRENGTH DEFORMED BAR 60,000 PSI FIELD SHALL BE USED

CONCRETE.

- ALL CONCRETE TO BE AS PER SPECIFICATIONS. CONTRACTOR TO SUBMIT MIX DESIGN FOR APPROVAL PRIOR TO STARTING THE WORKS.
- CONTRACTOR TO SUBMIT CONCRETE WORK REPORTS INCLUDING TIME OF CASTING, VOLUME OF EACH POUR OF CONCRETE AND FRESH CONCRETE TESTS.
- TACK WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR.
- ALL RECOMMENDATIONS AND PRECAUTIONS GIVEN IN SOIL REPORT ARE TO BE CONSIDERED.

FOUNDATION		
STRUCTURAL CONCRETE SCHEDULE		
NO.	LOCATION	THICKNESS/DEPTH (AS NOTED OTHERWISE)
1	FOUNDATION	4000
2	BEAM WALLS (END BEAM)	6000
3	RETAINING WALLS	4000
4	SLAB	3000
5	COLUMN	4000
6	BEAMS	3000
7	RAFTS/STIFFING	3000



Client



STATE BANK OF PAKISTAN

Job

RETROFITTING WORK OF BUILDINGS AT SBP BSC
QUETTA
SECURITY & SERVICES BLOCK

Consultant



PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO. : 314, 3- RD., FLOOR, WASHIRQ, CENTER SHR
SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL, BLOCK
NO. 14, KARACHI, P. O. BOX NO. 7608

Title

GENERAL NOTES

Date

Ref. Rev.

SCALE

N.T.S

DRAWN

COM. LOCATION

CHKD. BY

JOB NO.

SHEET REF.

ARCH.

5-00

CLIENT



STATE BANK OF PAKISTAN

PROJECT

RETROFITTING WORKS OF BUILDINGS
AT S.B.P B.S.C QUETTA

TITLE

MOSQUE

DRAWING'S

PREPARED BY



ESS - I - AAR
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO.314, 3 -RD. FLOOR MASHRIQ CENTRE
SIR SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL
BLOCK NO. 14, KARACHI, P. O. BOX NO. 7608
PHONE NO.4852589 FAX NO.(92-21) 4941059



LIST OF DRAWINGS

S.NO	DRAWING TITLE	DRAWING NO.
1	Ground Floor Plan (Existing)	A-01
2	General Notes	S-00
3	Existing Plan Showing Rehabilitation Work, Elevation and Sections	S-01
4	Elevation Showing Rehabilitation Work	S-02



Client



STATE BANK OF PAKISTAN

Job

RETROFITTING WORK OF BUILDINGS AT SBP BSC
QUETTA
MOSQUE

Consultant

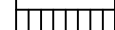


ESS-I-AAR
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO. 314, 3RD FLOOR, MASHRIQ CENTER SHR
SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK
NO. 14, KARACHI, P. O. BOX NO. 7608

TITLE

LIST OF DRAWINGS

DATE



COM. LOCATION:

SHEET REF.
ARCH.

Ref. Rev.

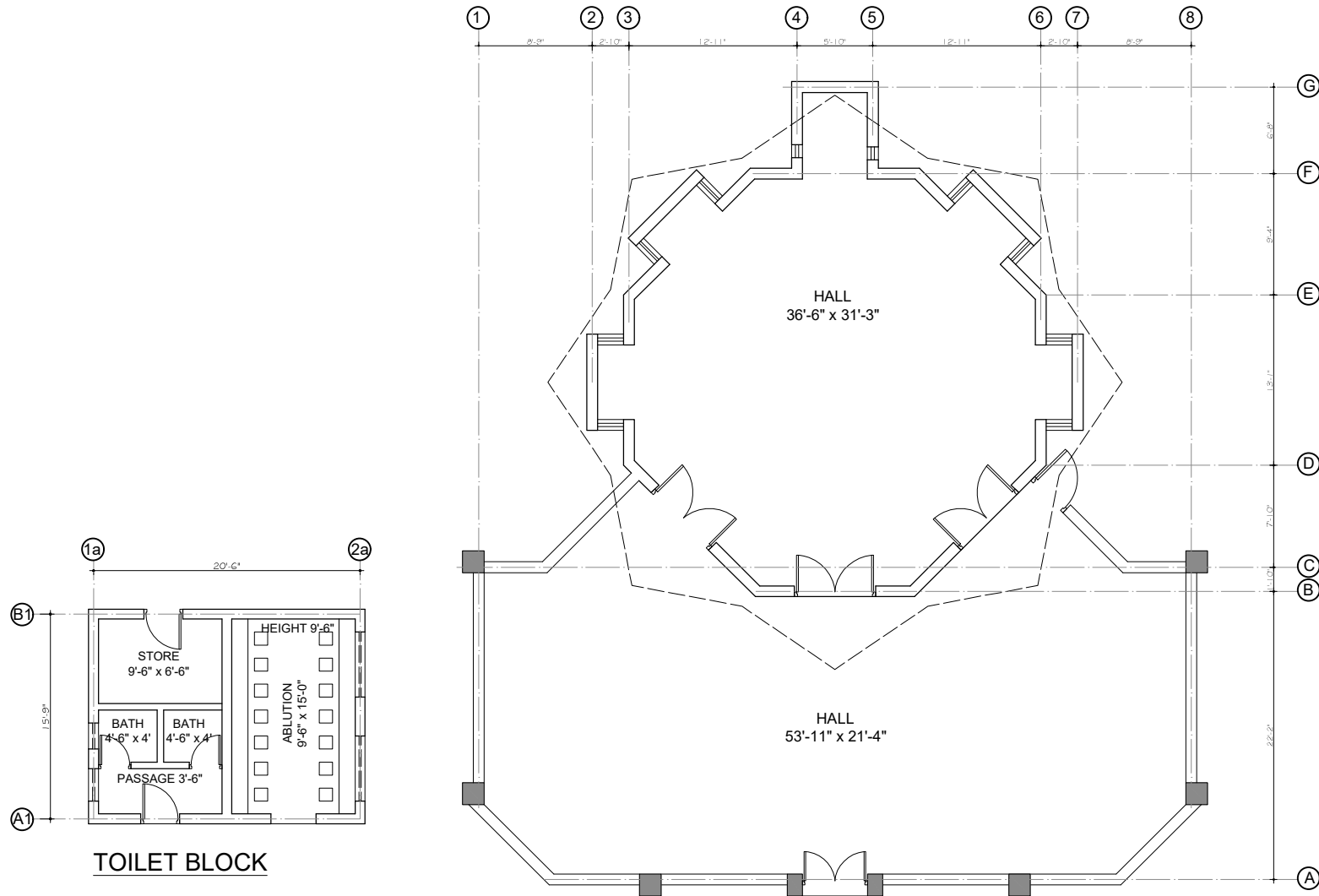
SCALE

N.T.S

DRAWN

CHKD. BY

JOB NO.



Client  STATE BANK OF PAKISTAN	Job RETROFITTING WORK OF BUILDINGS AT SBP BSC QUETTA MOSQUE	Consultant  ESS-I-AAR PLANNING, ENGINEERING & SERVICES CONSULTANTS SUITE NO. 314, 3-RD. FLOOR, WASHIRQ CENTER SHR SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK NO. 14, KARACHI - 1, P. O. BOX NO. 7608	TITLE GROUND FLOOR PLAN (EXISTING) Ref. Rev.	DATE SCALE N.T.S.	COM. LOCATION: CHKD. BY JOB NO.	SHEET REF. ARCH. A-01
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GENERAL NOTES.

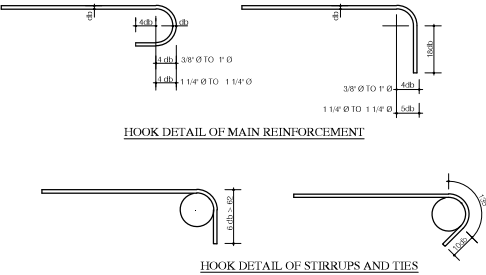
1. STRUCTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH SPECIFICATIONS, ALL DRAWINGS AND ALL CONTRACT DOCUMENTS.
2. CHECK ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND REPORT ANY INCONSISTENCIES TO THE CONSULTANTS AND PROJECT DIRECTOR BEFORE PROCEEDING WITH THE WORK.
3. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT DAMAGE TO EXISTING ADJACENT STRUCTURES.
5. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND DETAILS FOR LOCATION OF PITTS, BASES, SUMPS, TRENCHES, DEPRESSIONS, GROOVES, CURBS, CHAMFERS AND SLOPES NOT SHOWN ON STRUCTURAL DRAWINGS.
6. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ALL REQUIREMENTS FOR SERVICES PENETRATIONS ETC, FOR CONSULTANTS APPROVAL, MODIFICATIONS NECESSITATED BY DETAILED PLANT INFORMATION SHALL BE SUBJECT TO THE CONSULTANTS AND PROJECT DIRECTOR APPROVAL.
7. THE CONTRACTOR TO INSTALL ALL PIPE SLEEVES, BOXED OPENINGS, ANCHOR BOLTS, LIFT RAIL INSERTS ETC, AS REQUIRED FOR THE VARIOUS TRADES, VERIFY AND OBTAIN PRIOR APPROVAL OF DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, SLOTS, TRENCH AND ELECTRICAL FLOOR DUCTS AS REQUIRED BY THE VARIOUS TRADES.
8. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PER SPECIFICATION REQUIREMENTS, THE CONTRACTOR SHALL SUBMIT RECORD DRAWINGS INCORPORATING ALL DESIGN TEAM COMMENTS.
9. ALL ELEVATIONS ARE REFERENCED TO THE PROJECT DATUM.
10. ALL CAST-IN-SITU CONCRETE SHALL HAVE MINIMUM STRENGTH CLASS AS SHOWN IN THE STRUCTURAL CONCRETE MATERIAL SCHEDULE ON THIS SHEET, UNLESS NOTED OTHERWISE ON THE DRAWINGS OR SPECIFICATION.
11. ALL REINFORCING STEEL BARS SHALL CONFORM TO ASTM A615, GRADE 60 DEFORMED HAVING 60,000 MIN. YIELD STRENGTH & MIN. ULTIMATE STRENGTH OF 90000 PSI, UNLESS NOTED OTHERWISE, THE STEEL SUPPLIER SHALL PROVIDE THE CONSULTANT WITH AN AFFIDAVIT OF THE PRODUCER OF STEEL CERTIFYING THAT THE STEEL MEETS THE REQUIREMENTS OF ASTM A615.
12. PROVIDE STAGGERED FULL TENSION SPLICES FOR ALL WATER RESISTING CONSTRUCTION INCLUDING RAFT SLAB AND ALL PITTS AND MANHOLES.
13. ADDITIONAL BARS SHALL BE PROVIDED AROUND ALL FLOOR AND WALL OPENINGS AS SHOWN IN THE DETAILS.
14. ALL LAPS OF 54 TIMES THE DIA OF THE BARS
15. CONCRETE BLINDING: FOUNDATION, GROUND BEAMS, GROUND SLABS SHALL BE PLACED ON A MINIMUM THICKNESS OF 6 INCH OF 1:4:8 CONCRETE BLINDING UNLESS NOTED OTHERWISE.
16. CONCRETE BACKFILL: MASS CONCRETE BACKFILL IS TO BE USED AS INSTRUCTED BY THE CONSULTANTS, ANY EXCAVATION BENEATH FOOTINGS AND FOUNDATIONS MUST BE MADE UP USING C20 MASS CONCRETE.
17. HOT WEATHER CONCRETING: REFER TO SPECIFICATIONS, THE INITIAL TEMPERATURE OF FRESH CONCRETE MUST NOT EXCEED 30°C, CONCRETING SHALL NOT TAKE PLACE IN AMBIENT SHADE TEMPERATURE EXCEEDING 45°C.
18. ANY EMBEDDED ITEM PIPES / CONDUITS/PLATES, SLEEVES FOR UTILITIES ETC, MUST BE COORDINATES RELEVANT DRAWINGS BE FOR CONCRETING OF BEAMS/COLUMNS/SLABS
19. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SLEEVES IN SLAB, ROOF SLAB, BEAMS, RETAINING WALLS FOR COLD WATER /HOT WATER PIPES, EMBEDDED SPECIFIED ITEM AND TO WASTE WATER SOIL & VENT PIPES RAIN WATER PIPES AIR CONDITIONING PIPES & ELECTRICAL CABLES AS PER PLUMBING/ELECTRICAL & MECHANICAL DRAWINGS
20. ALL CONDUITS AND PIPES TO BE LAID IN CONCRETE SHALL BE ABOVE MAIN REINFORCEMENT OF SLABS AND BEAM AND WITH THE APPROVAL OF THE CONSULTANTS AND PROJECT DIRECTOR.
21. BACK FILLING OF EXCAVATION BEHIND RETAINING WALL AND OTHER AREAS SHALL BE DONE IN EQUAL LAYER NOT EXCEEDING 6" THICKNESS, EACH LAYER IS TO ACHIEVE MINIMUM 95% MAX DRY DENSITY
22. NO CONCRETE SHALL BE POURED UNTIL ITS FORM WORK AND REINFORCEMENT HAS BEEN INSPECTED AND APPROVED BY THE CONSULTANTS, AND PROPER PRE-CAMBER IS PROVIDED
23. SEQUENCE OF REMOVAL OF FORM WORK SHALL BE AS SPECIFIED AND APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR

24. CONSTRUCTION JOINTS: VERTICAL CONSTRUCTION JOINTS IN ALL WALLS SHALL BE USED ONLY IF UNAVOIDABLE, OR UNLESS OTHERWISE NOTED, AND TO BE LOCATED AT LEAST 5 FT. FROM ANY SUPPORTING COLUMN OR WALL OPENING, DISTANCE BETWEEN JOINTS IN WALL SHALL BE ALLOWED AS PER SPECIFICATIONS, NO HORIZONTAL CONSTRUCTION JOINTS WILL BE ALLOWED IN GRADE BEAMS, ALL MEMBERS IN THE FLOOR SYSTEM INCLUDING BEAMS, BRACKETS, COLUMN CAPITALS AND HAUNCHES SHALL BE PLACED MONOLITHICALLY, HORIZONTAL CONSTRUCTION JOINTS NECESSARY MAY BE MADE AT CENTRE OF BEAM OR SLAB
25. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWING FOR CONCRETE POURING SEQUENCE FOR ALL FLOOR AND SUBMIT IT FOR THE APPROVAL OF CONSULTANTS AND PROJECT DIRECTOR BEFORE START OF WORK.
26. DESIGN OF R.C.C HAS BEEN DONE IN ACCORDANCE WITH ACI-318 CODE SPECIFICATIONS. SEISMIC DESIGN IS BASED ON UBC-1997 CODE (ZONE 4)
27. FOR CONCRETE CYCLINDER STRENGTH IN DIFFERENT STRUCTURAL MEMBERS , PLEASE REFER TO TABLE-A
28. DESIGN OF SPECIFIED CONCRETE MIX SHALL BE SUBMITTED BY THE CONTRACTOR AND SHALL BE GOT APPROVED FROM THE CONSULTANTS AND PROJECT DIRECTOR WELL BEFORE CONCRETING OF RELEVANT STRUCTURES ALONG WITH RESULT OF TEST SPECIMEN TESTED AS PER ASTM C-39, TEST SPECIMENS SHALL BE MADE AND CURED IN ACCORDANCE WITH ASTM C-31.
29. SULPHATE RESISTING CEMENT SHALL BE USED INSTEAD OF ORDINARY PORTLAND CEMENT IN R.C.C WORKS UP TO GROUND FLOOR COMPLETE IN ALL RESPECTS AS PER INSTRUCTIONS OF THE CONSULTANTS AND PROJECT DIRECTOR
30. CEMENT FROM DIFFERENT SOURCES SHALL NOT BE MIXED FOR THE STRUCTURE , UNLESS APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR
31. SAND FROM APPROVED QUARRIES/SOURCES SHALL BE USED AND IT SHALL CONFORM TO SPECIFICATIONS.
32. WELL GRADED CRUSHED STONE FROM APPROVED QUARRIES/SOURCES SHALL BE USED AS COARSE AGGREGATE, MAXIMUM NOMINAL SIZE OF THE COARSE AGGREGATE SHALL BE 3/4" AND DOWN GAUGE FOR ALL R.C.C WORKS. IT SHALL CONFORM TO THE SPECIFICATIONS.
33. POTABLE WATER SHALL BE USED FOR CONCRETE & SHALL BE FREE OF ORGANIC & OTHER IMPURITIES.
34. PRECAST CEMENT CONCRETE SPACER BLOCKS OF PROPER SIZE SHALL BE USED, SPACED NOT MORE THAN 36 INCH C/C FOR PROVISION OF REQUIRED COVER TO MAIN REINFORCEMENT, THICKNESS OF THESE BLOCKS SHALL BE EQUAL TO THE REQUIRED COVER.
35. ALL DIMENSIONS ARE GIVEN IN FEET & ALL LEVELS ARE IN FEET, UNLESS NOTED OTHERWISE DRAWING SHALL NOT BE SCALED. ONLY WRITTEN DIMENSIONS ARE BE FOLLOWED
36. CONCRETE COVER PROVIDED FOR REINFORCEMENT SHALL BE AS FOLLOWS:
- (a) FOOTING (TOP) 2"
- (b) FOOTING (BOTTOM) 3"
- (c) FOOTING (SIDES) 2"
- (d) SLAB 3/4"
- (e) BEAMS & COLUMNS 1 1/2"
- (f) CONCRETE FACE IN CONTACT WITH EARTH 3"
- (g) CONCRETE FACE IN CONTACT WITH WATER 1 1/2"
- (h) R.C.C WALLS 1 1/2"
- (i) SLAB ON GRADE (TOP) 3/4"
- (j) SLAB ON GRADE (BOTTOM) 3"
37. ALL LAYOUT, CONFIGURATION, DIMENSIONS & LEVEL SHALL BE VERIFIED BEFORE PROCEEDING WITH THE WORK.
38. ALL REINFORCING BARS SHALL BE HELD FIRMLY IN PLACE BEFORE AND DURING THE POURING OF CONCRETE BY MEANS OF ADEQUATE NUMBER OF WIRES, CHAIRS AND SUPPORTS TO PREVENT DISLOCATION DURING THE COURSE OF CONSTRUCTION.
39. DURING CONSTRUCTION, SAFETY AND STABILITY OF THE STRUCTURE AND ALL TEMPORARY WORKS SHALL BE GIVEN PRIME IMPORTANCE , UTMOST CARE AND PRECAUTION SHALL BE EXERCISED BY THE CONTRACTOR DURING THE WORK AGAINST ANY MISHPAP OR ACCIDENT.
40. BARS IN BEAMS SHALL BE JOGGLED IN VERTICAL PLANE FOR LAPS.
41. LAPS SHALL NOT BE PROVIDED WITHIN LOCATION OF COLUMN , BEAM JOINTS, OR WITHIN TWICE THE MEMBER DEPTH FROM THE FACE OF A JOINT.
42. BAR IN COLUMN SHALL BE JOGGLED FOR LAPS WITH STARTER BARS & PLACED WITHIN MIDDLE THIRD OF THE FLOOR HEIGHT
43. POSITION OF BARS IN BEAMS SHALL BE ADJUSTED KEEPING IN VIEW THE POSITION OF VERTICAL BARS OF THE COLUMNS.
44. STIRRUPS SHALL BE PLACED IN SUCH A WAY THAT THEIR HOOKS SHALL BE STAGGERED AND LOCATED IN COMPRESSION FACE, WITH A 135° HOOK.
45. CONCRETE TEST CYLINDERS / CUBES SHALL BE CURED WITH THE SAME METHOD AND UNDER CONDITIONS AS THOSE FOR THE CONCRETE WORK THEY REPRESENT.
46. HIGH STRENGTH DEFORMED BAR 60,000 psi FIELD SHALL BE USED

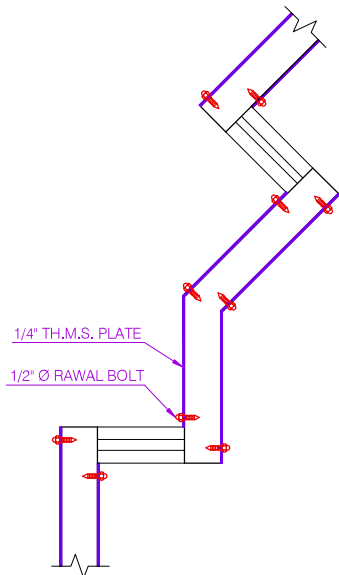
CONCRETE.

1. ALL CONCRETE TO BE AS PER SPECIFICATIONS, CONTRACTOR TO SUBMIT MIX DESIGN FOR APPROVAL PRIOR TO STARTING THE WORKS.
2. CONTRACTOR TO SUBMIT CONCRETE WORK REPORTS INCLUDING TIME OF CASTING, VOLUME OF EACH POUR OF CONCRETE AND FRESH CONCRETE TESTS.
3. TACK WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR.
4. ALL RECOMMENDATIONS AND PRECAUTIONS GIVEN IN SOIL REPORT ARE TO BE CONSIDERED.

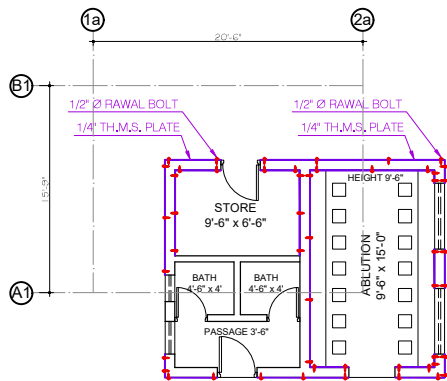
FOUNDATION		
STRUCTURAL CONCRETE SCHEDULE		
NO.	LOCATION	AMOUNT (CU YARDS)
1	FOUNDATION	4000
2	BEAM WALLS, LINK BEAMS	4000
3	RETAINING WALLS	4000
4	SLABS	3000
5	COLUMNS	4000
6	BEAMS	3000
7	TRANSVERSE	3000



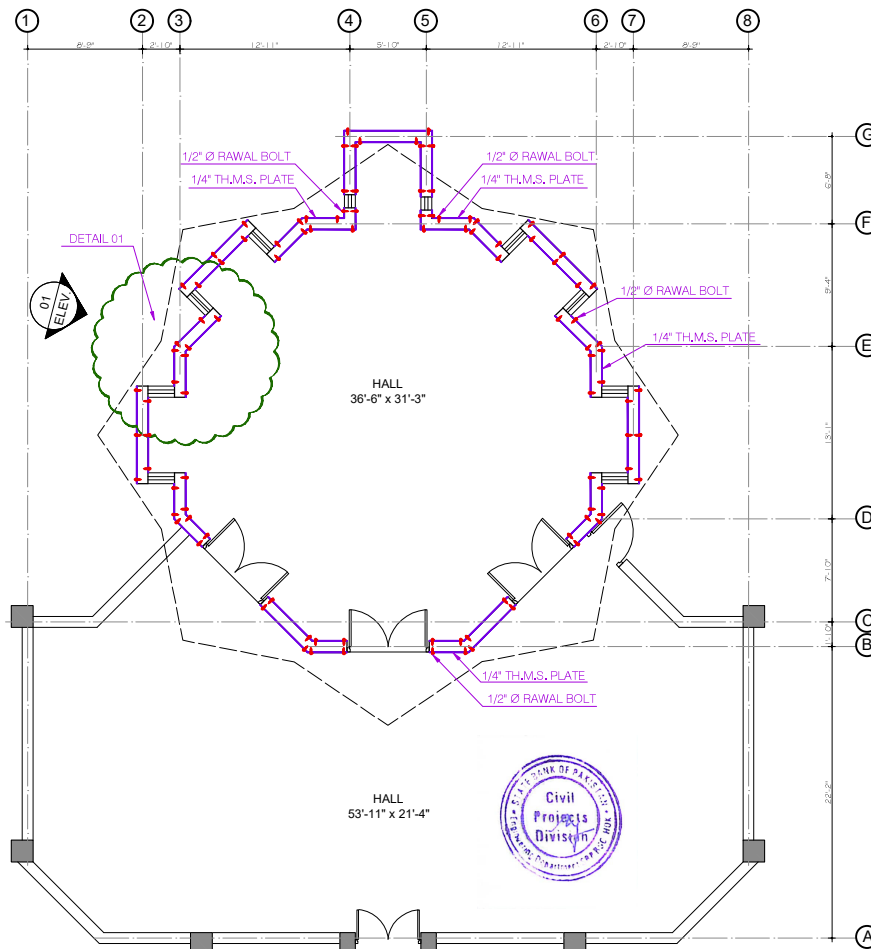
Client  STATE BANK OF PAKISTAN	Job RETROFITTING WORK OF BUILDINGS AT SBP BSC QUETTA MOSQUE	Consultant  ESS -I- AAR PLANNING , ENGINEERING & SERVICES CONSULTANTS SUITE NO. : 314, 3- RD., FLOOR, MASHRIQ CENTER SIR SHAH SULAIMAN ROAD , GULSHAN - E - IQBAL BLOCK NO. 14, KARACHI , P. O. BOX NO. 7608	TITLE		DATE	COM. LOCATION:		SHEET REF.							
			GENERAL NOTES			ARCH.									
			Ref. Rev.	SCALE	DRAWN				CHKD. BY	JOB NO.	S-00				
				N.T.S											



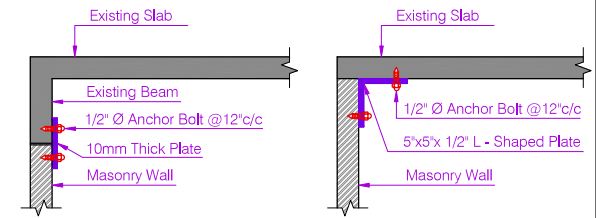
DETAIL 01



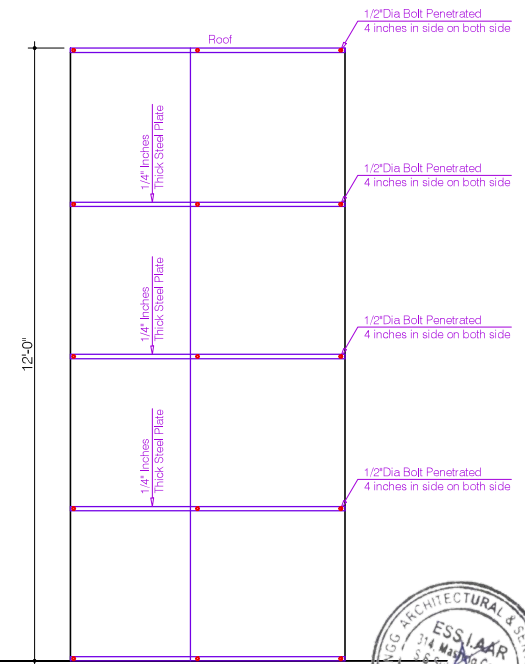
TOILET BLOCK



GROUND FLOOR PLAN



LOAD BEARING STRUCTURE
DIAPHRAGM CONNECTION WITH BEAM/SLAB



Typical Elevation 01

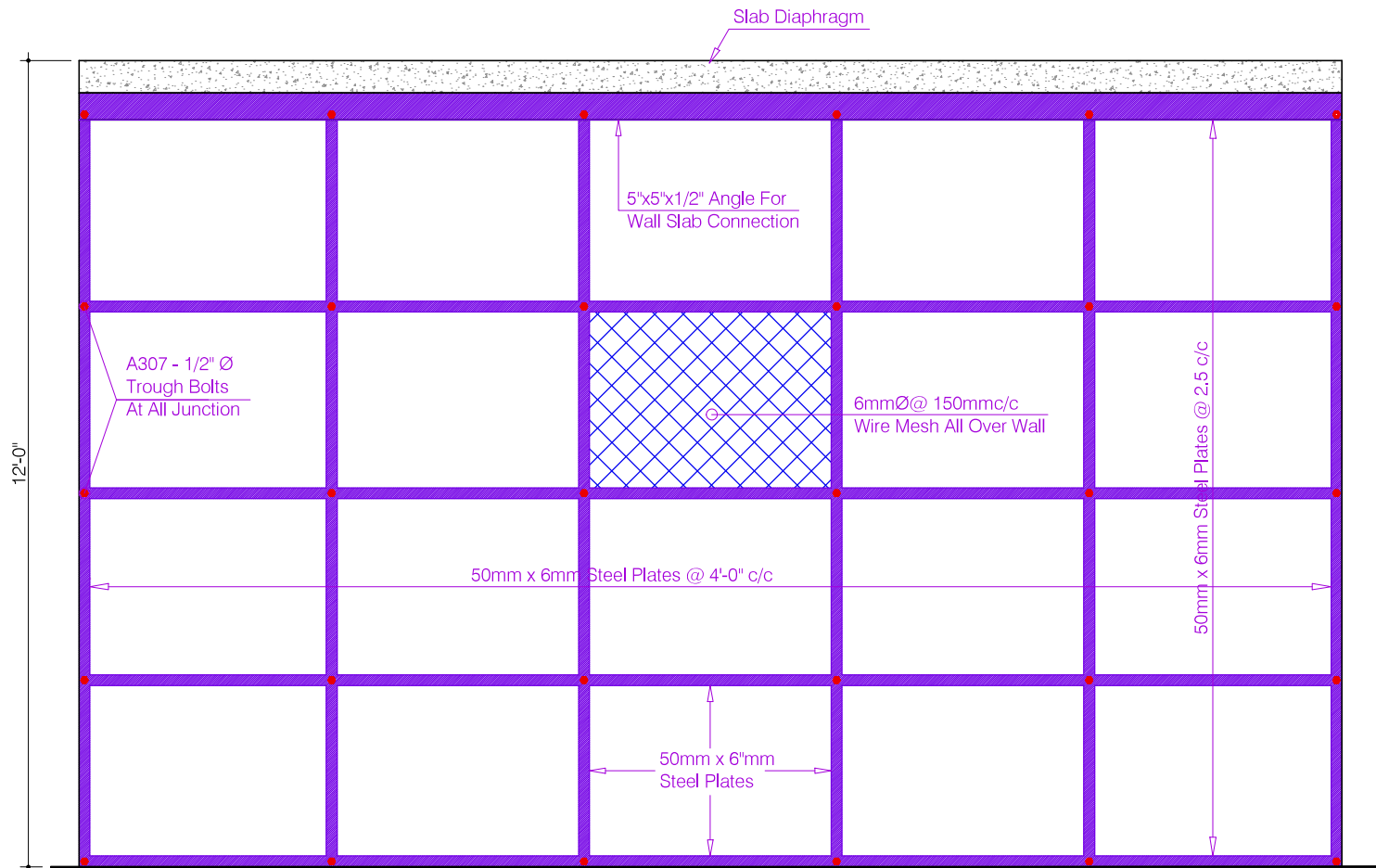


Client
 STATE BANK OF PAKISTAN

Job
RETROFITTING WORK OF BUILDINGS AT SBP BSC
QUETTA
MOSQUE

Consultant
 **ESS-I-AAR**
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO. 314, 3-RD, FLOOR, WASHRIQ CENTER SHR
SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK
NO. 14, KARACHI - I, P. O. BOX NO. 7608

TITLE EXISTING PLAN SHOWING REHABILITATION WORK ELEVATION AND SECTIONS	DATE [] [] [] [] [] [] [] [] [] []	COM. LOCATION [] [] [] [] [] [] [] [] [] []	SHEET REF. STR.
Ref. Rev. [] [] [] [] [] [] [] [] [] []	SCALE N.T.S.	DRAWN [] [] [] [] [] [] [] [] [] []	CHECKED BY [] [] [] [] [] [] [] [] [] []



**TYPICAL OUT - OF - PLANE & DIAPHRAGM WALL DETAIL
FOR MASONRY STRENGTHENING**



Client



STATE BANK OF PAKISTAN

Job

RETROFITTING WORK OF BUILDINGS AT SBP BSC
QUETTA
MOSQUE

Consultant



ESS-I-AAR
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO. 314, 3RD FLOOR, WAZIRPUR CENTRE SHR
SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK
NO. 14, KARACHI - 7, P. O. BOX NO. 7608

Title

ELEVATION SHOWING
REHABILITATION WORK

Ref. Rev.

SCALE

N.T.S

DATE



DRAWN

COM. LOCATION



CHKD. BY

JOB NO.

SHEET REF.

STR.

S-02

CLIENT



STATE BANK OF PAKISTAN

PROJECT

RETROFITTING WORKS OF BUILDINGS
AT S.B.P B.S.C QUETTA

TITLE

BHATTI ROOM

DRAWING'S

PREPARED BY



ESS - I - AAR
PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO.314, 3 -RD. FLOOR MASHRIQ CENTRE
SIR SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL
BLOCK NO. 14 , KARACHI .P. O. BOX NO. 7608
PHONE NO.4852589 FAX NO.(92-21) 4941059



LIST OF DRAWINGS

S.NO	DRAWING TITLE	DRAWING NO.
1	General Notes	S-00
2	Existing Ground Floor Plan Showing Proposed Retrofitting Details	S-01



Client



STATE BANK OF PAKISTAN

Job

RETROFITTING WORK OF BUILDINGS AT SBP BSC
QUETTA
BHATTI ROOM

Consultant



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PLANNING, ENGINEERING & SERVICES CONSULTANTS
SUITE NO. 314, 3-RD. FLOOR, MASHRIQ CENTER SIR
SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK
NO. 14, KARACHI - 7. P. O. BOX NO. 7608

Title

LIST OF DRAWING

Ref. Rev.

SCALE
N.T.S

DATE

11/11/2020

COM. LOCATION

QUETTA

CHKD. BY

JOB NO.

SHEET REF.

STRUC.

GENERAL NOTES.

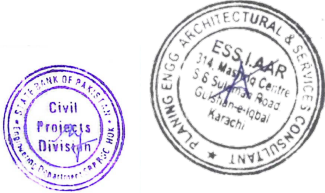
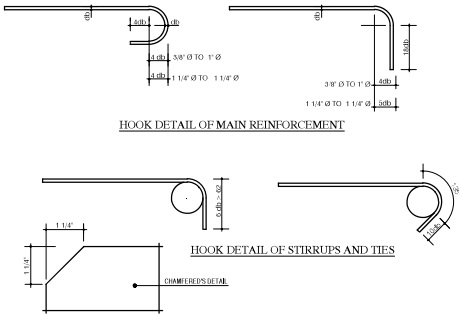
1. STRUCTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH SPECIFICATIONS, ALL DRAWINGS AND ALL CONTRACT DOCUMENTS.
2. CHECK ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND REPORT ANY INCONSISTENCIES TO THE CONSULTANTS AND PROJECT DIRECTOR BEFORE PROCEEDING WITH THE WORK.
3. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT DAMAGE TO EXISTING ADJACENT STRUCTURES.
5. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND DETAILS FOR LOCATION OF PITS, BASES, SUMPS, TRENCHES, DEPRESSIONS, GROOVES, CURBS, CHAMFERS AND SLOPES NOT SHOWN ON STRUCTURAL DRAWINGS.
6. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ALL REQUIREMENTS FOR SERVICES PENETRATIONS ETC. FOR CONSULTANT'S APPROVAL. MODIFICATIONS NECESSITATED BY DETAILED PLANT INFORMATION SHALL BE SUBJECT TO THE CONSULTANTS AND PROJECT DIRECTOR APPROVAL.
7. THE CONTRACTOR TO INSTALL ALL PIPE SLEEVES, BOXED OPENINGS, ANCHOR BOLTS, LIFT RAIL INSERTS ETC. AS REQUIRED FOR THE VARIOUS TRADES, VERIFY AND OBTAIN PRIOR APPROVAL OF DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, SLOTS, TRENCH AND ELECTRICAL FLOOR DUCTS AS REQUIRED BY THE VARIOUS TRADES.
8. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PER SPECIFICATION REQUIREMENTS. THE CONTRACTOR SHALL SUBMIT RECORD DRAWINGS INCORPORATING ALL DESIGN TEAM COMMENTS.
9. ALL ELEVATIONS ARE REFERENCED TO THE PROJECT DATUM.
10. ALL CAST-IN-SITU CONCRETE SHALL HAVE MINIMUM STRENGTH CLASS AS SHOWN IN THE STRUCTURAL CONCRETE MATERIAL SCHEDULE ON THIS SHEET, UNLESS NOTED OTHERWISE ON THE DRAWINGS OR SPECIFICATION.
11. ALL REINFORCING STEEL BARS SHALL CONFORM TO ASTM A615, GRADE 60 DEFORMED HAVING 60,000 MIN. YIELD STRENGTH & MIN. ULTIMATE STRENGTH OF 90000 PSI. UNLESS NOTED OTHERWISE, THE STEEL SUPPLIER SHALL PROVIDE THE CONSULTANT WITH AN AFFIDAVIT OF THE PRODUCER OF STEEL CERTIFYING THAT THE STEEL MEETS THE REQUIREMENTS OF ASTM A615.
12. PROVIDE STAGGERED FULL TENSION SPLICES FOR ALL WATER RESISTING CONSTRUCTION INCLUDING RAFT SLAB AND ALL PITS AND MANHOLES.
13. ADDITIONAL BARS SHALL BE PROVIDED AROUND ALL FLOOR AND WALL OPENINGS AS SHOWN IN THE DETAILS.
14. ALL LAPS OF 54 TIMES THE DIA OF THE BARS
15. CONCRETE BUILDING: FOUNDATION, GROUND BEAMS, GROUND SLABS SHALL BE PLACED ON A MINIMUM THICKNESS OF 6 INCH OF 1:4:8 CONCRETE BUILDING UNLESS NOTED OTHERWISE.
16. CONCRETE BACKFILL: MASS CONCRETE BACKFILL IS TO BE USED AS INSTRUCTED BY THE CONSULTANTS. ANY EXCAVATION BENEATH FOOTINGS AND FOUNDATIONS MUST BE MADE UP USING C20 MASS CONCRETE.
17. HOT WEATHER CONCRETING: REFER TO SPECIFICATIONS, THE INITIAL TEMPERATURE OF FRESH CONCRETE MUST NOT EXCEED 30°C. CONCRETING SHALL NOT TAKE PLACE IN AMBIENT SHADE TEMPERATURE EXCEEDING 43°C.
18. ANY EMBEDDED ITEM PIPES / CONDUITS, PLATES, SLEEVES FOR UTILITIES ETC. MUST BE COORDINATED. REVEAL DRAWINGS BE FOR CONCRETING OF BEAMS/COLUMNS/SLABS
19. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SLEEVES IN SLAB, ROOF SLAB, BEAMS, RETAINING WALLS FOR COLD WATER PIPES, EMBEDDED SPECIFIED ITEM AND TO WASTE WATER, SOIL & VENT PIPES RAIN WATER PIPES AIR CONDITIONING PIPES & ELECTRICAL CABLES AS PER PLUMBING, ELECTRICAL & MECHANICAL DRAWINGS
20. ALL CONDUITS AND PIPES TO BE Laid IN CONCRETE SHALL BE ABOVE MAIN REINFORCEMENT OF SLABS AND BEAM AND WITH THE APPROVAL OF THE CONSULTANTS AND PROJECT DIRECTOR.
21. BACK FILLING OF EXCAVATION BEHIND RETAINING WALL AND OTHER AREAS SHALL BE DONE IN EQUAL LAYER NOT EXCEEDING 6" THICKNESS. EACH LAYER IS TO ACHIEVE MINIMUM 95% MAX VORY DENSITY
22. NO CONCRETE SHALL BE POURED UNTIL ITS FORM WORK AND REINFORCEMENT HAS BEEN INSPECTED AND APPROVED BY THE CONSULTANTS AND PROPER PRE-CAMBER IS PROVIDED
23. SEQUENCE OF REMOVAL OF FORM WORK SHALL BE AS SPECIFIED AND APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR

24. CONSTRUCTION JOINTS: VERTICAL CONSTRUCTION JOINTS IN ALL WALLS SHALL BE USED ONLY IF UNAVOIDABLE, OR UNLESS OTHERWISE NOTED, AND TO BE LOCATED AT LEAST 5 FT. FROM ANY SUPPORTING COLUMN OR WALL OPENING. DISTANCE BETWEEN JOINTS IN WALL SHALL BE ALLOWED AS PER SPECIFICATIONS. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE ALLOWED IN GRADE BEAMS, ALL MEMBERS IN THE FLOOR SYSTEM INCLUDING BEAMS, BRACKETS, COLUMN CAPITALS AND HAUNCHES SHALL BE PLACED MONOLITHICALLY. HORIZONTAL CONSTRUCTION JOINTS NECESSARY MAY BE MADE AT CENTRE OF BEAM OR SLAB
25. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWING FOR CONCRETE POURING SEQUENCE FOR ALL FLOOR AND SUBMIT IT FOR THE APPROVAL OF CONSULTANTS AND PROJECT DIRECTOR BEFORE START OF WORK.
26. DESIGN OF R.C.C HAS BEEN DONE IN ACCORDANCE WITH ACI-318 CODE SPECIFICATIONS, SEISMIC DESIGN IS BASED ON UBC-1997 CODE (ZONE 2B)
27. FOR CONCRETE CYLINDER STRENGTH IN DIFFERENT STRUCTURAL MEMBERS, PLEASE REFER TO TABLE-A
28. DESIGN OF SPECIFIED CONCRETE MIX SHALL BE SUBMITTED BY THE CONTRACTOR AND SHALL BE GOT APPROVED FROM THE CONSULTANTS AND PROJECT DIRECTOR WELL BEFORE CONCRETING OF RELEVANT STRUCTURES ALONG WITH RESULT OF TEST SPECIMEN TESTED AS PER ASTM C-39, TEST SPECIMENS SHALL BE MADE AND CURED IN ACCORDANCE WITH ASTM C-31.
29. SULPHATE RESISTING CEMENT SHALL BE USED INSTEAD OF ORDINARY PORTLAND CEMENT IN R.C.C WORKS UPTO GROUND FLOOR COMPLETE IN ALL RESPECTS AS PER INSTRUCTIONS OF THE CONSULTANTS AND PROJECT DIRECTOR
30. CEMENT FROM DIFFERENT SOURCES SHALL NOT BE MIXED FOR THE STRUCTURE, UNLESS APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR
31. SAND FROM APPROVED QUARRIES/SOURCES SHALL BE USED AND IT SHALL CONFORM TO SPECIFICATIONS.
32. WELL GRADED CRUSHED STONE FROM APPROVED QUARRIES/SOURCES SHALL BE USED AS COARSE AGGREGATE. MAXIMUM NOMINAL SIZE OF THE COARSE AGGREGATE SHALL BE 3/4" AND DOWN GAUGE FOR ALL R.C.C WORKS. IT SHALL CONFORM TO THE SPECIFICATIONS.
33. POTABLE WATER SHALL BE USED FOR CONCRETE & SHALL BE FREE OF ORGANIC & OTHER IMPURITIES.
34. PRECAST CEMENT CONCRETE SPACER BLOCKS OF PROPER SIZE SHALL BE USED, SPACED NOT MORE THAN 26 INCH C/C FOR PROVISION OF REQUIRED COVER TO MAIN REINFORCEMENT, THICKNESS OF THESE BLOCKS SHALL BE EQUAL TO THE REQUIRED COVER.
35. ALL DIMENSIONS ARE GIVEN IN FEET & ALL LEVELS ARE IN FEET. UNLESS NOTED OTHERWISE DRAWING SHALL NOT BE SCALED, ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED
36. CONCRETE COVER PROVIDED FOR REINFORCEMENT SHALL BE AS FOLLOWS:
- (a) FOOTING (TOP) 2"
- (b) FOOTING (BOTTOM) 3"
- (c) FOOTING (SIDES) 2"
- (d) SLAB 3/4"
- (e) BEAMS & COLUMNS 1 1/2"
- (f) CONCRETE FACE IN CONTACT WITH EARTH 3"
- (g) CONCRETE FACE IN CONTACT WITH WATER 1 1/2"
- (h) R.C.C WALLS 1 1/2"
- (i) SLAB ON GRADE (TOP) 3/4"
- (j) SLAB ON GRADE (BOTTOM) 3"
37. ALL LAYOUT, CONFIGURATION, DIMENSIONS & LEVEL SHALL BE VERIFIED BEFORE PROCEEDING WITH THE WORK.
38. ALL REINFORCING BARS SHALL BE HELD FIRMLY IN PLACE BEFORE AND DURING THE POURING OF CONCRETE BY MEANS OF ADEQUATE NUMBER OF WIRES, CHAIRS AND SUPPORTS TO PREVENT DISLOCATION DURING THE COURSE OF CONSTRUCTION.
39. DURING CONSTRUCTION, SAFETY AND STABILITY OF THE STRUCTURE AND ALL TEMPORARY WORKS SHALL BE GIVEN PRIME IMPORTANCE. UTMOST CARE AND PRECAUTION SHALL BE EXERCISED BY THE CONTRACTOR DURING THE WORK AGAINST ANY MISHAP OR ACCIDENT.
40. BARS IN BEAMS SHALL BE JOGGLED IN VERTICAL PLANE FOR LAPS.
41. LAPS SHALL NOT BE PROVIDED WITHIN LOCATION OF COLUMN, BEAM JOINTS, OR WITHIN TWICE THE MEMBER DEPTH FROM THE FACE OF A JOINT.
42. BAR IN COLUMN SHALL BE JOGGLED FOR LAPS WITH STARTER BARS & PLACED WITHIN MIDDLE THIRD OF THE FLOOR HEIGHT
43. POSITION OF BARS IN BEAMS SHALL BE ADJUSTED KEEPING IN VIEW THE POSITION OF VERTICAL BARS OF THE COLUMNS.
44. STIRRUPS SHALL BE PLACED IN SUCH A WAY THAT THEIR HOOKS SHALL BE STAGGERED AND LOCATED IN COMPRESSION FACE, WITH A 135° HOOK.
45. CONCRETE TEST CYLINDERS / CUBES SHALL BE CURED WITH THE SAME METHOD AND UNDER CONDITIONS AS THOSE FOR THE CONCRETE WORK THEY REPRESENT.
46. HIGH STRENGTH DEFORMED BAR 60,000 psi FIELD SHALL BE USED

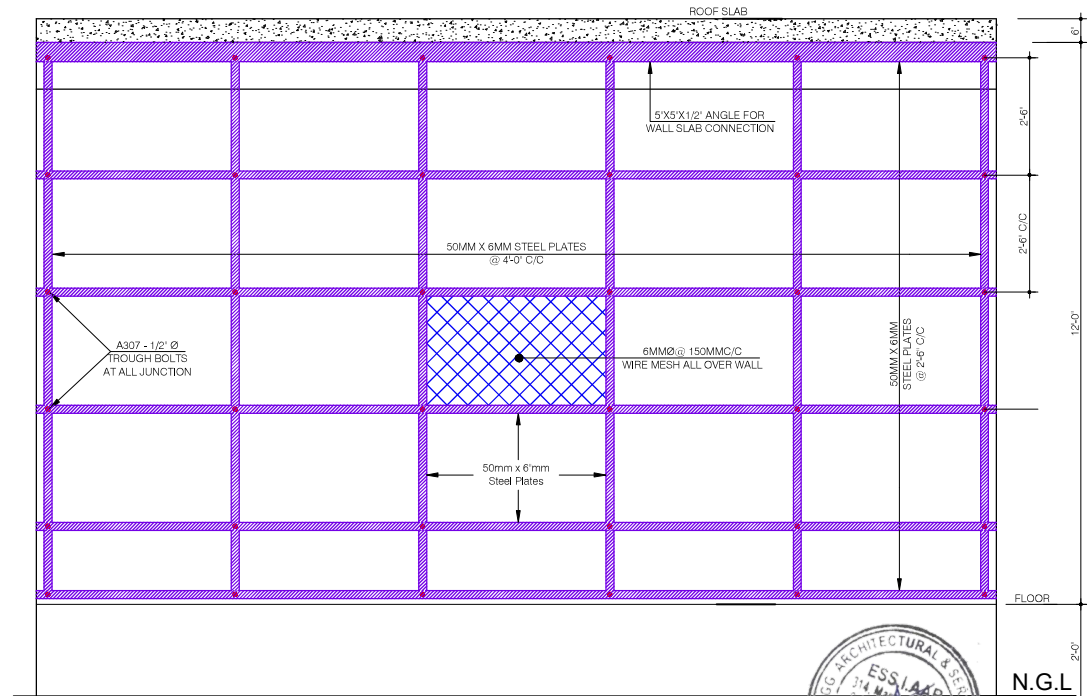
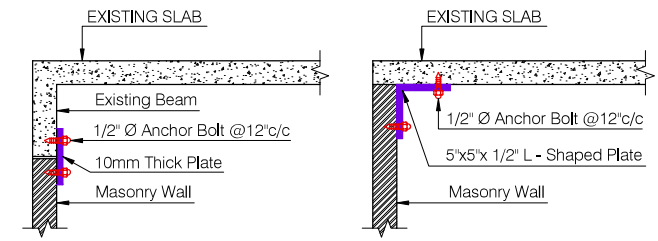
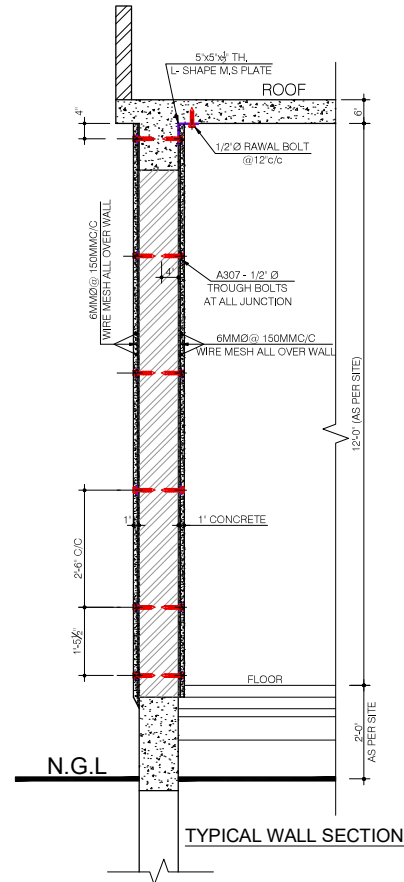
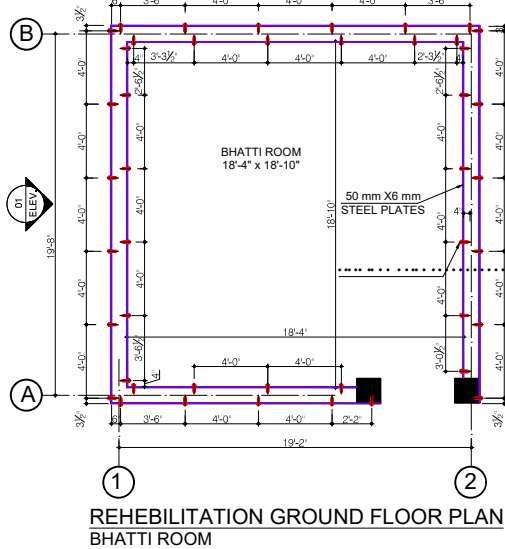
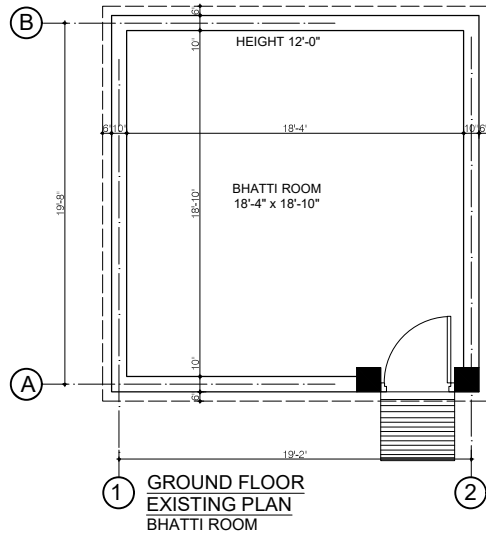
CONCRETE.

1. ALL CONCRETE TO BE AS PER SPECIFICATIONS, CONTRACTOR TO SUBMIT MIX DESIGN FOR APPROVAL PRIOR TO STARTING THE WORKS.
2. CONTRACTOR TO SUBMIT CONCRETE WORK REPORTS INCLUDING TIME OF CASTING, VOLUME OF EACH POUR OF CONCRETE AND FRESH CONCRETE TESTS.
3. TACK WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS APPROVED BY THE CONSULTANTS AND PROJECT DIRECTOR.
4. ALL RECOMMENDATIONS AND PRECAUTIONS GIVEN IN SOIL REPORT ARE TO BE CONSIDERED.

FOUNDATION		
STRUCTURAL CONCRETE SCHEDULE		
NO.	LOCATION	QUANTITY (CUM)
1		
2	FOUNDATION	4000
3	SHEAR WALLS (B&B)	4000
4	RETAINING WALLS	4000
5	SLABS	3000
6	COLUMNS	4000
7	BEAMS	3000
8	WALLS/STIFFENERS	3000



 STATE BANK OF PAKISTAN	Job	RETROFITTING WORK OF BUILDINGS AT SBP BSC QUETTA BHATTI ROOM	Consultant	 ESS-I- AAR PLANNING , ENGINEERING * SERVICES CONSULTANTS SUITE NO. 314, 3- RD. FLOOR, MASHRIQ CENTER 5th SHAH SULAIMAN ROAD, GULSHAN - E - IQBAL BLOCK NO. 14, KARACHI , P. O. BOX NO. 7606	TITLE		DATE	COM. LOCATION	SHEET REF.					
					GENERAL NOTES		<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							
					Ref. Rev.	SCALE	DRAWN	CHKD. BY	JOB NO.	S-00				
						H.T.S								



Client



STATE BANK OF PAKISTAN

Job **RETROFITTING WORK OF BUILDINGS AT SBP BSC
QUETTA
BHATTI ROOM**

Consultant



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PLANNING, ENGINEERING & SERVICES CONSULTANTS
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TITLE **EXISTING GROUND FLOOR PLAN
SHOWING PROPOSED RETROFITTING DETAILS**

Ref. Rev.

DATE

DRAWN

SCALE

N.T.S

COM. LOCATION

CHKD. BY

JOB NO.

SHEET REF. STRUC.

5-01