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GOVERNMENT OF PAKISTAN
PORT QASIM AUTHORITY

TENDER AND CONTRACT DOCUMENTS

**FOR CONSTRUCTION OF
IRON-ORE AND COAL BERTH
AND
RELATED FACILITIES**

**VOL IV : DRAWINGS
PART 4 BUILDINGS**

DECEMBER 1975

JAPAN INTERNATIONAL COOPERATION AGENCY

JR

DRAWING LIST

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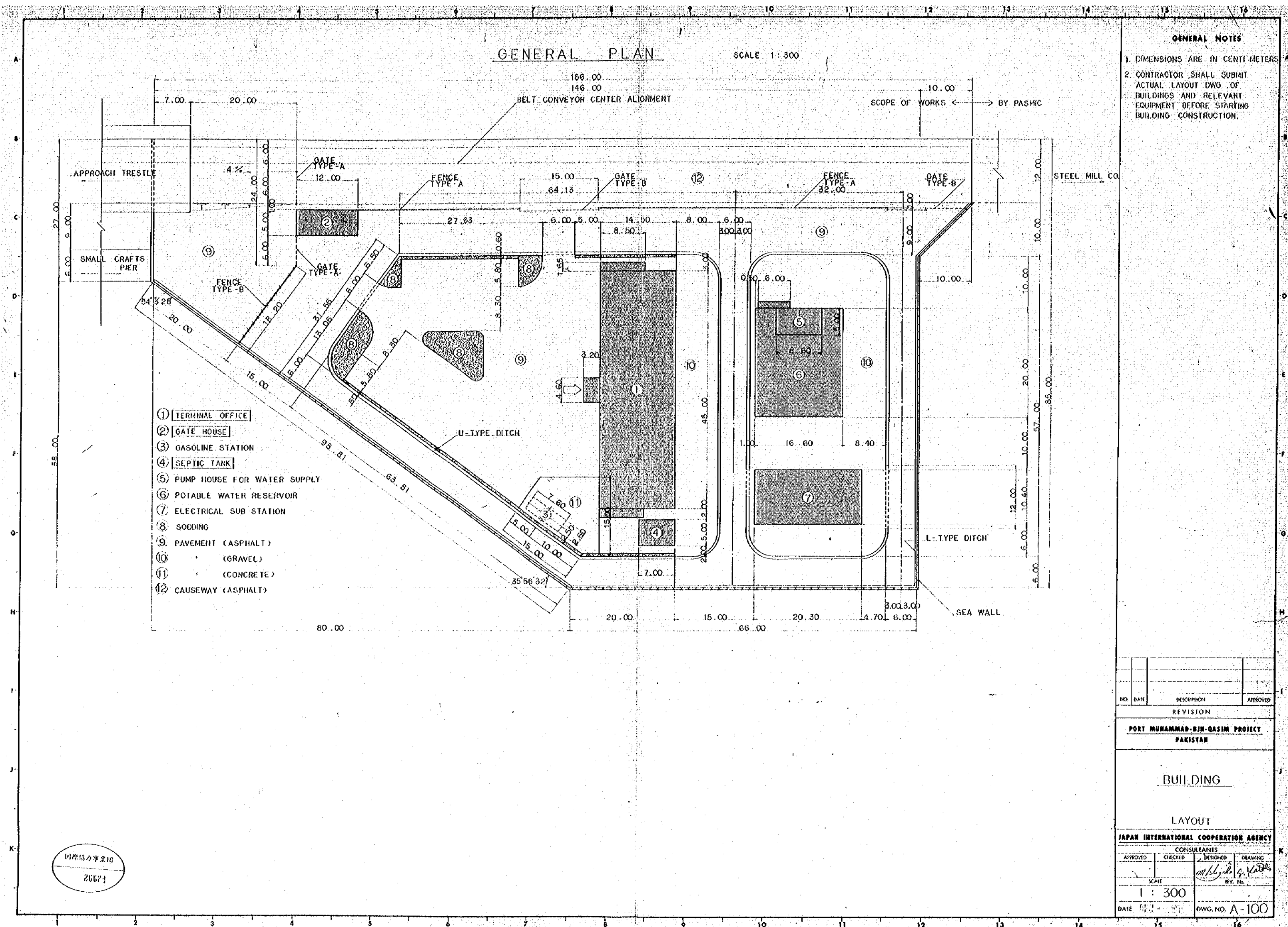
A-202 CROSS SECTIONS, POOR AND WINDOW SCHEDULE

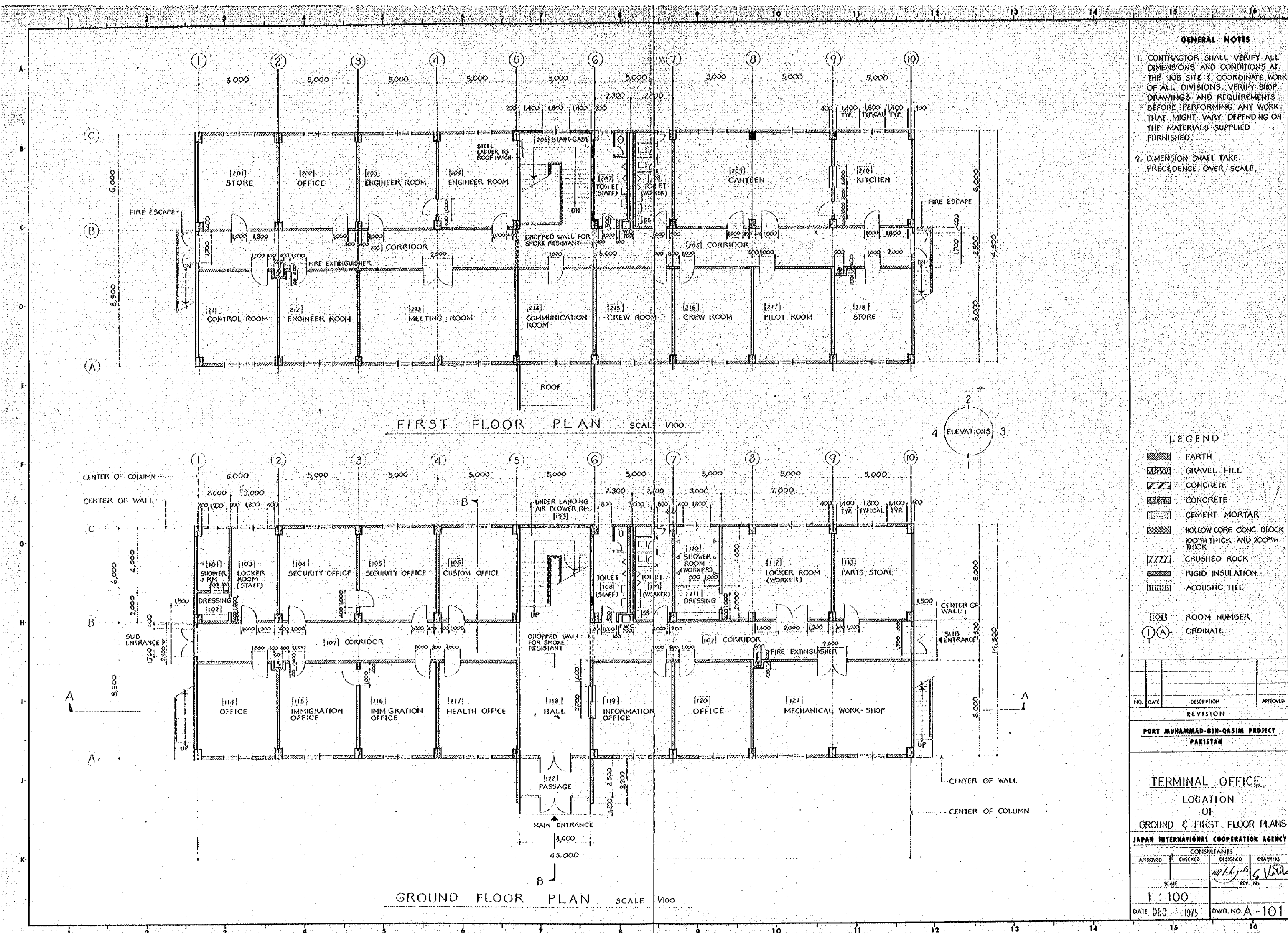
A-203 FOUNDATION, FLOOR AND ROOF PLANS AND BEAM, WALL, SLAB REINFORCING

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GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE & COORDINATE WORK OF ALL DIVISIONS. VERIFY SHOP DRAWINGS AND REQUIREMENTS BEFORE PERFORMING ANY WORK THAT MIGHT VARY DEPENDING ON THE MATERIALS SUPPLIED FURNISHED.
2. DIMENSION SHALL TAKE PRECEDENCE OVER SCALE.

LEGEND

- [Symbol] FARTH
- [Symbol] GRAVEL FILL
- [Symbol] CONCRETE
- [Symbol] CONCRETE
- [Symbol] CEMENT MORTAR
- [Symbol] HOLLOW CORE CONC BLOCK 100mm THICK AND 200mm THICK
- [Symbol] CRUSHED ROCK
- [Symbol] RIGID INSULATION
- [Symbol] ACOUSTIC TILE
- [101] ROOM NUMBER
- (1A) ORDNATE

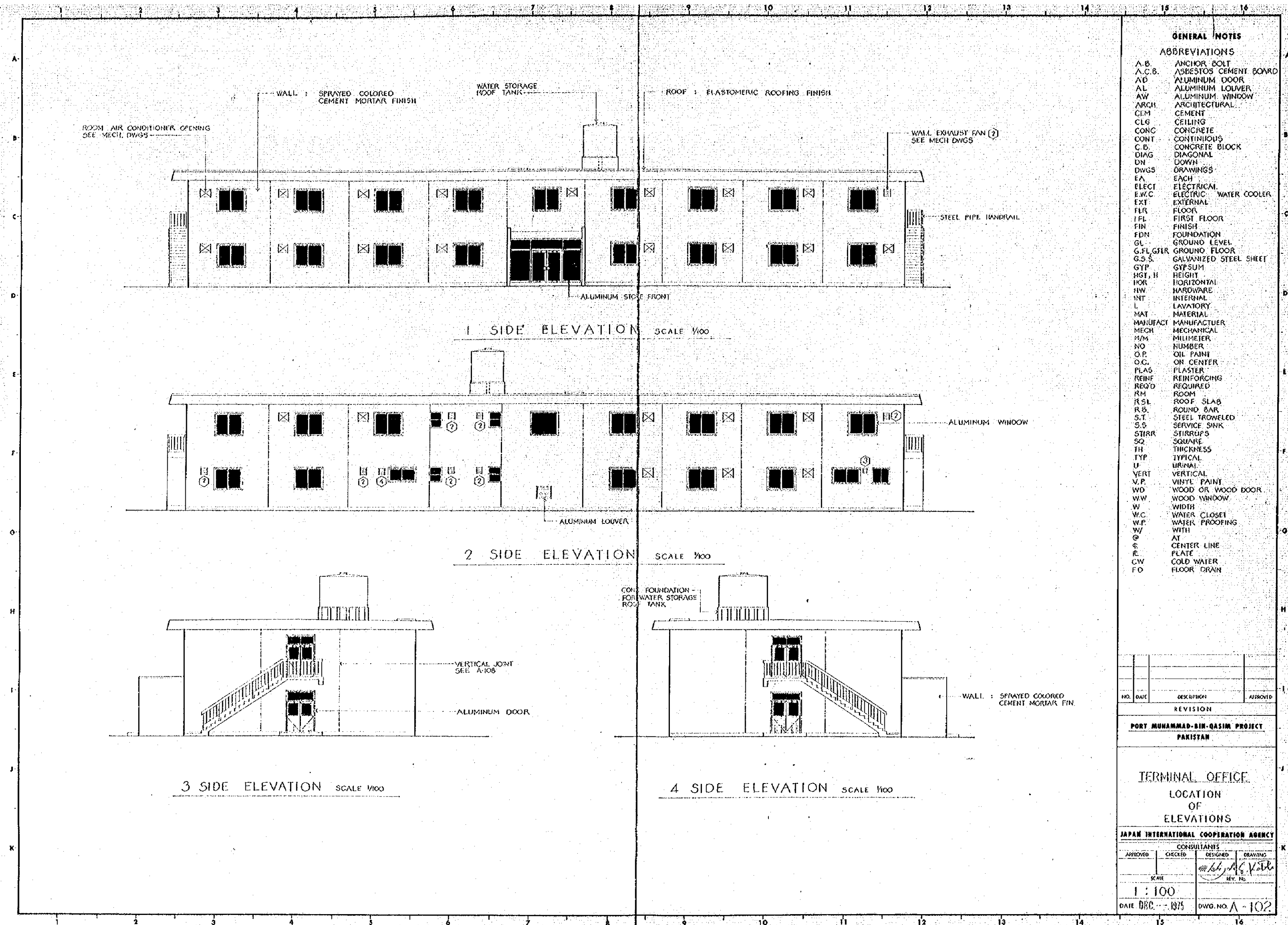
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| REVISION | | | |

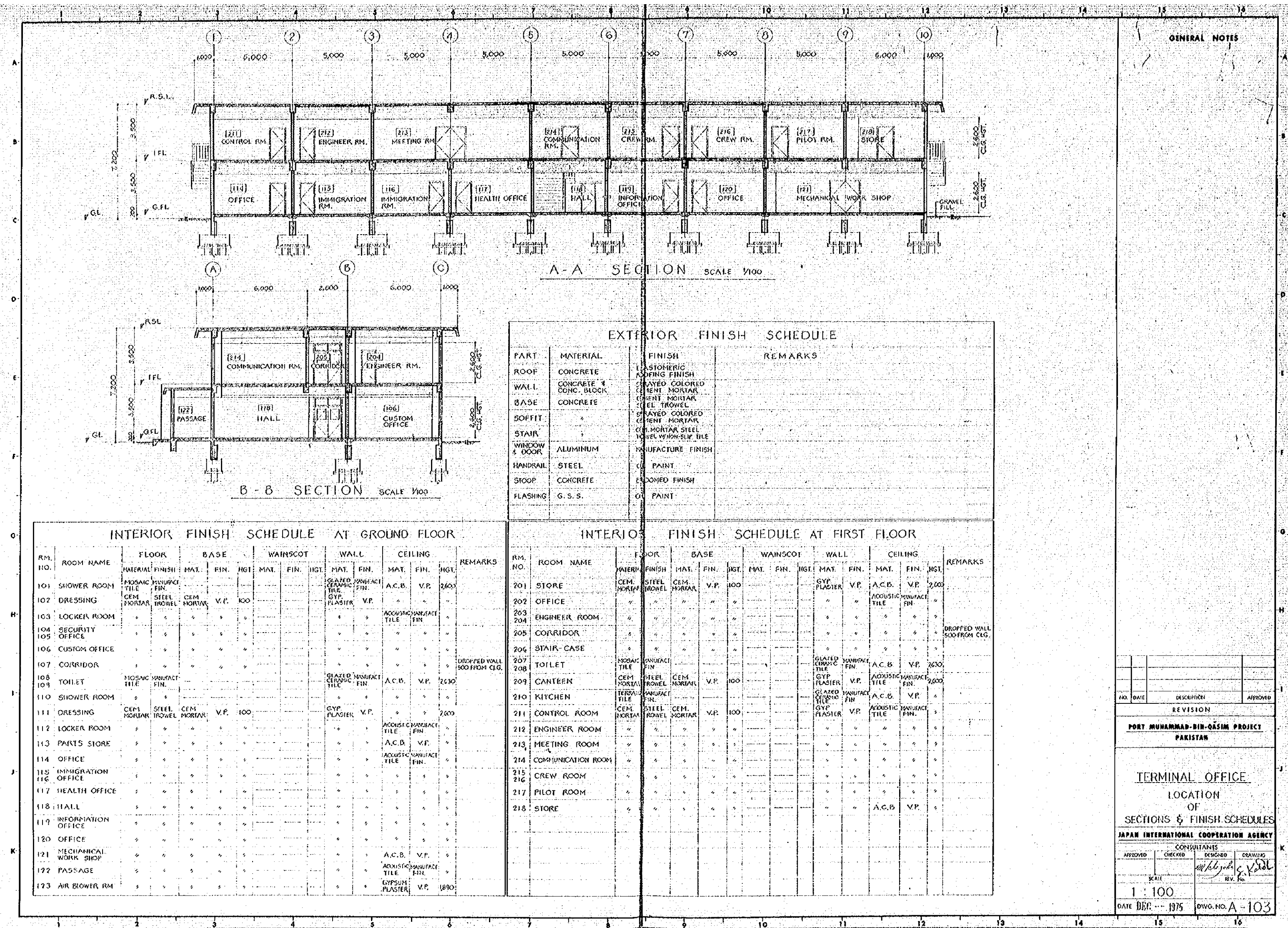
PORT MUHAMMAD-BIN-QASIM PROJECT
PAKISTAN

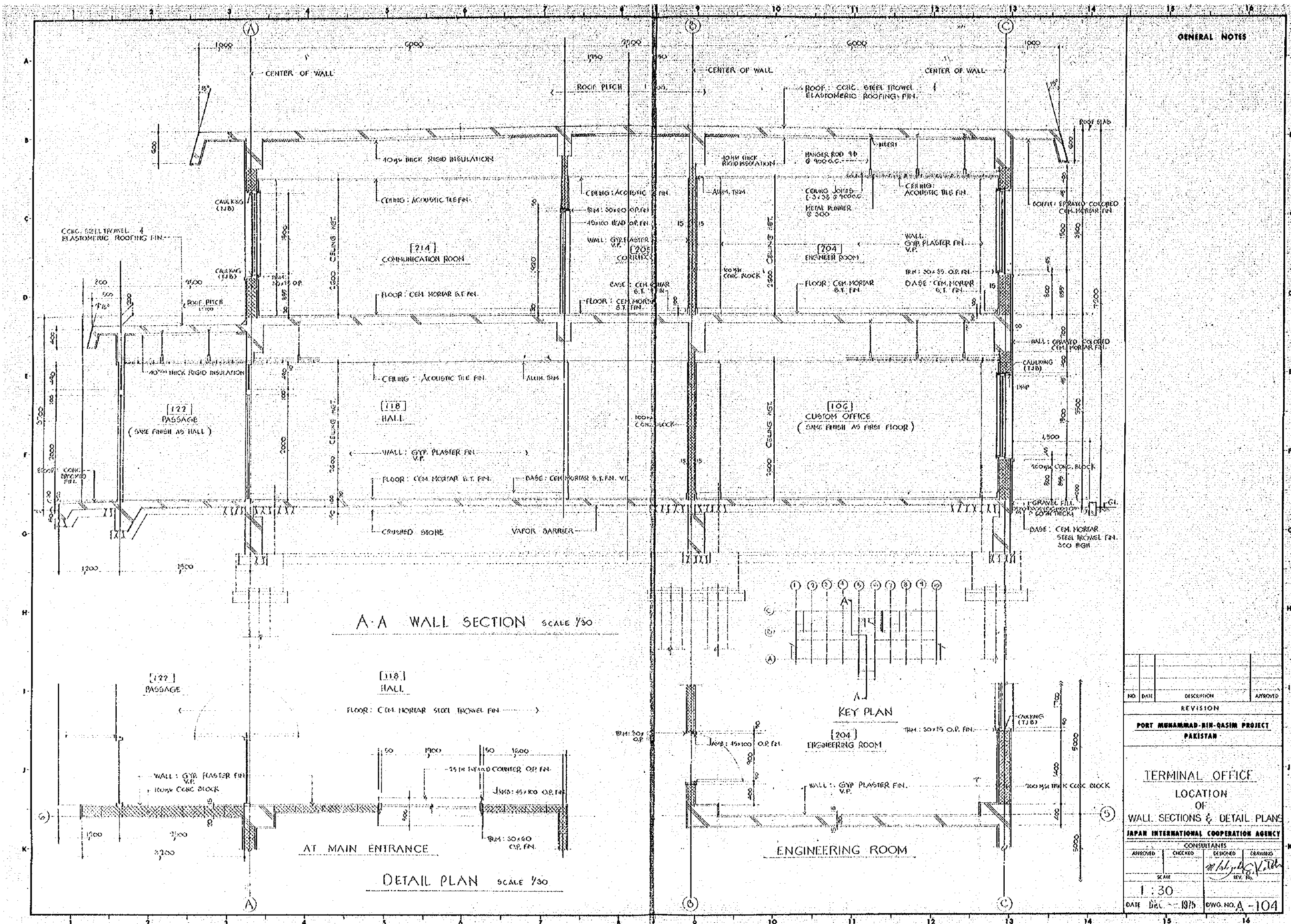
TERMINAL OFFICE
LOCATION
OF
GROUND & FIRST FLOOR PLANS

JAPAN INTERNATIONAL COOPERATION AGENCY

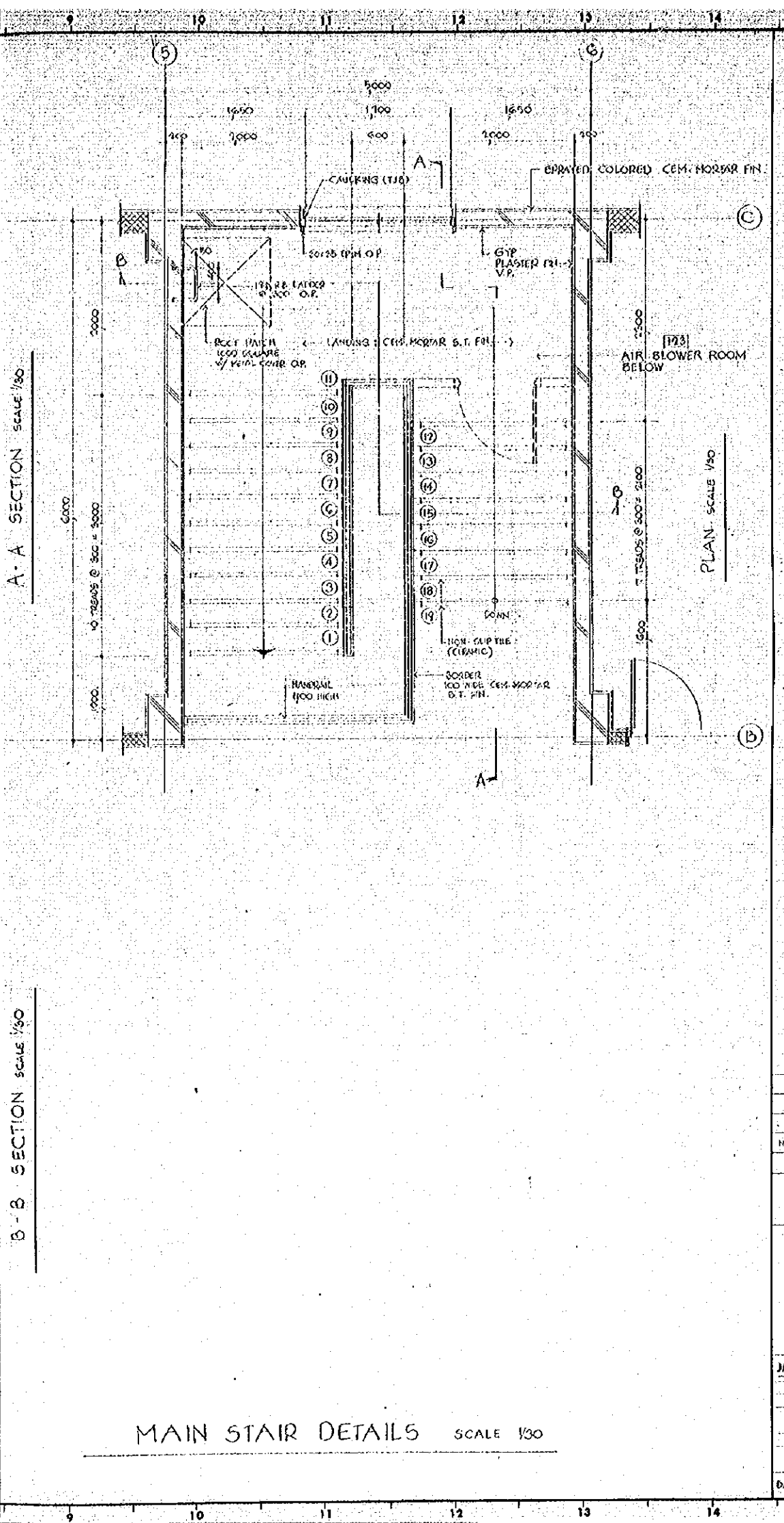
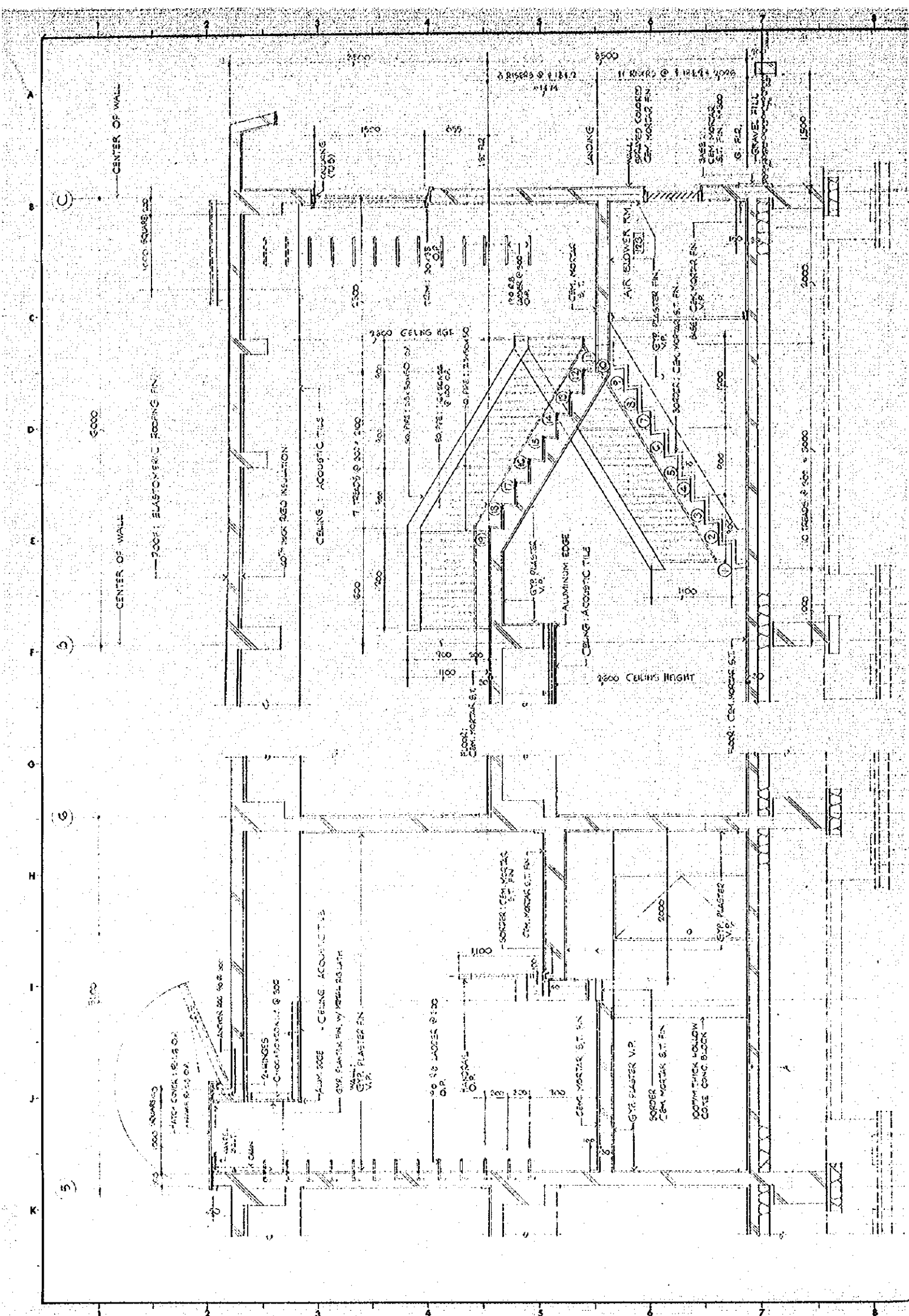
| CONSULTANTS | | | |
|---------------|---------|--------------------|--------------------|
| APPROVED | CHECKED | DESIGNED | DRAWING |
| | | <i>[Signature]</i> | <i>[Signature]</i> |
| SCALE | | REV. NO. | |
| 1:100 | | | |
| DATE DEC 1975 | | DWG. NO. A-101 | |







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| NO. | DATE | DESCRIPTION | APPROVED |
| REVISION | | | |
| PORT MUHAMMAD BIN-QASIM PROJECT PAKISTAN | | | |
| <u>TERMINAL OFFICE</u> LOCATION OF WALL SECTIONS & DETAIL PLAN | | | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | | |
| CONSULTANTS | | | |
| APPROVED | CHECKED | DESIGNED | DRAWING |
| | SCALE | <i>m/s. J. & K. Vall</i> REV. NO. | |
| 1 : 30 | | | |
| DATE | DWG. NO. | | |
| DEC - 1975 | 00A - 10A | | |



GENERAL NOTES

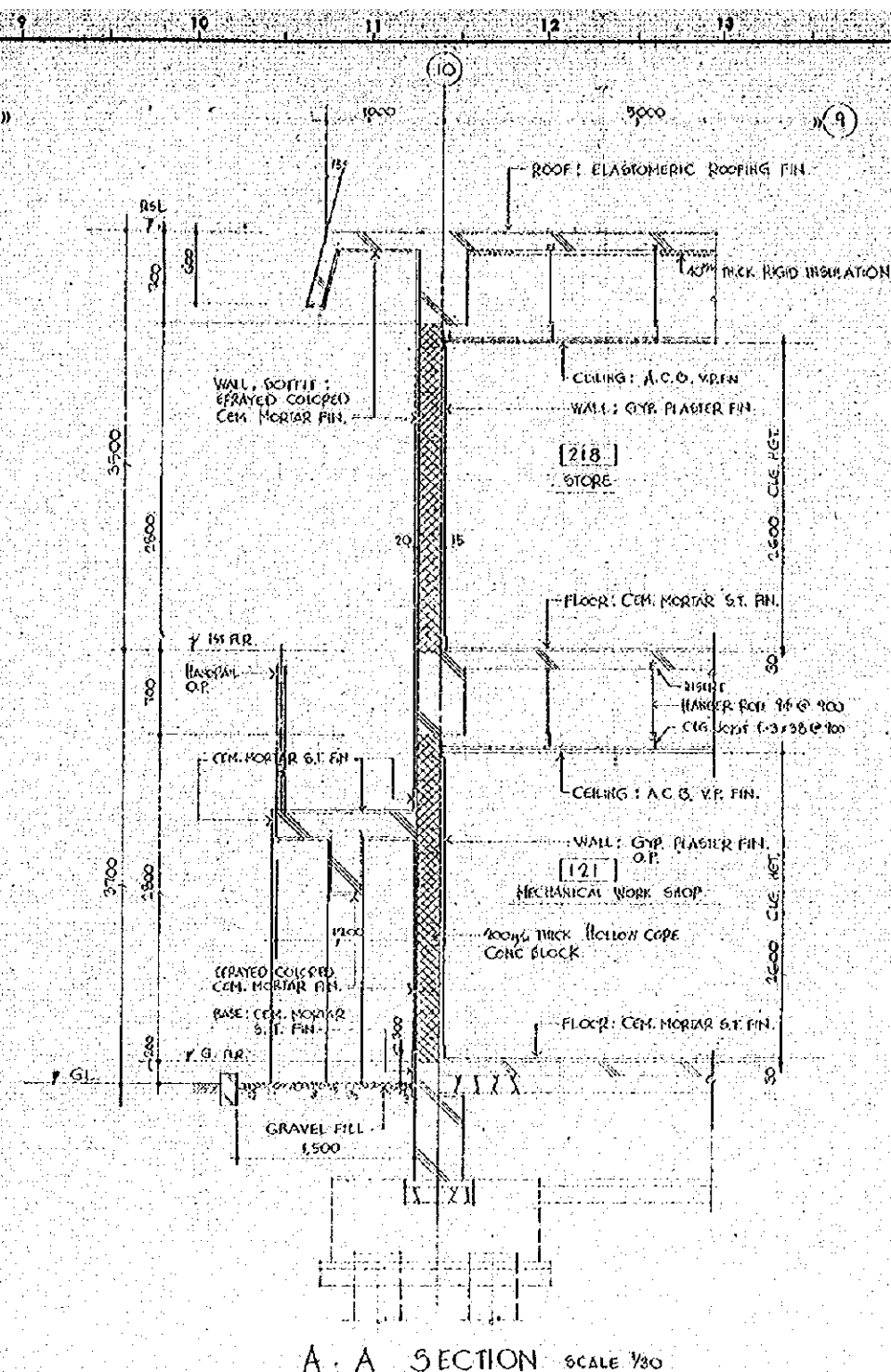
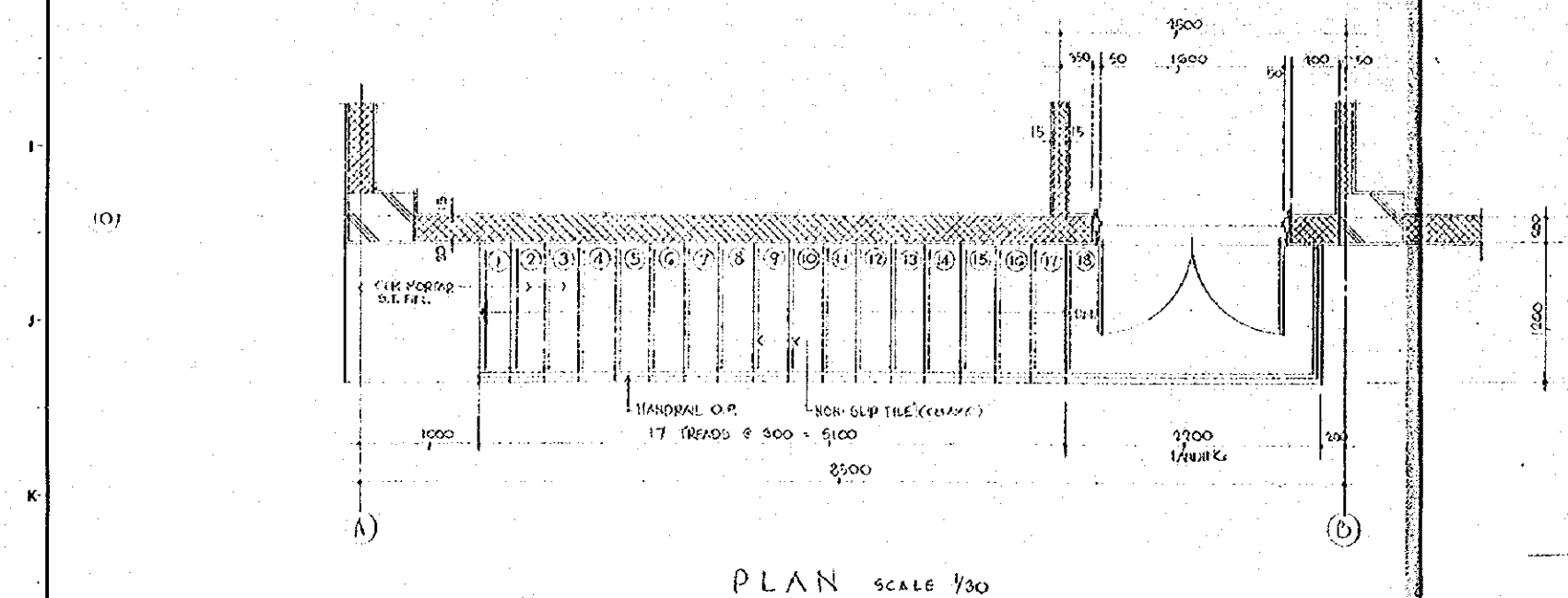
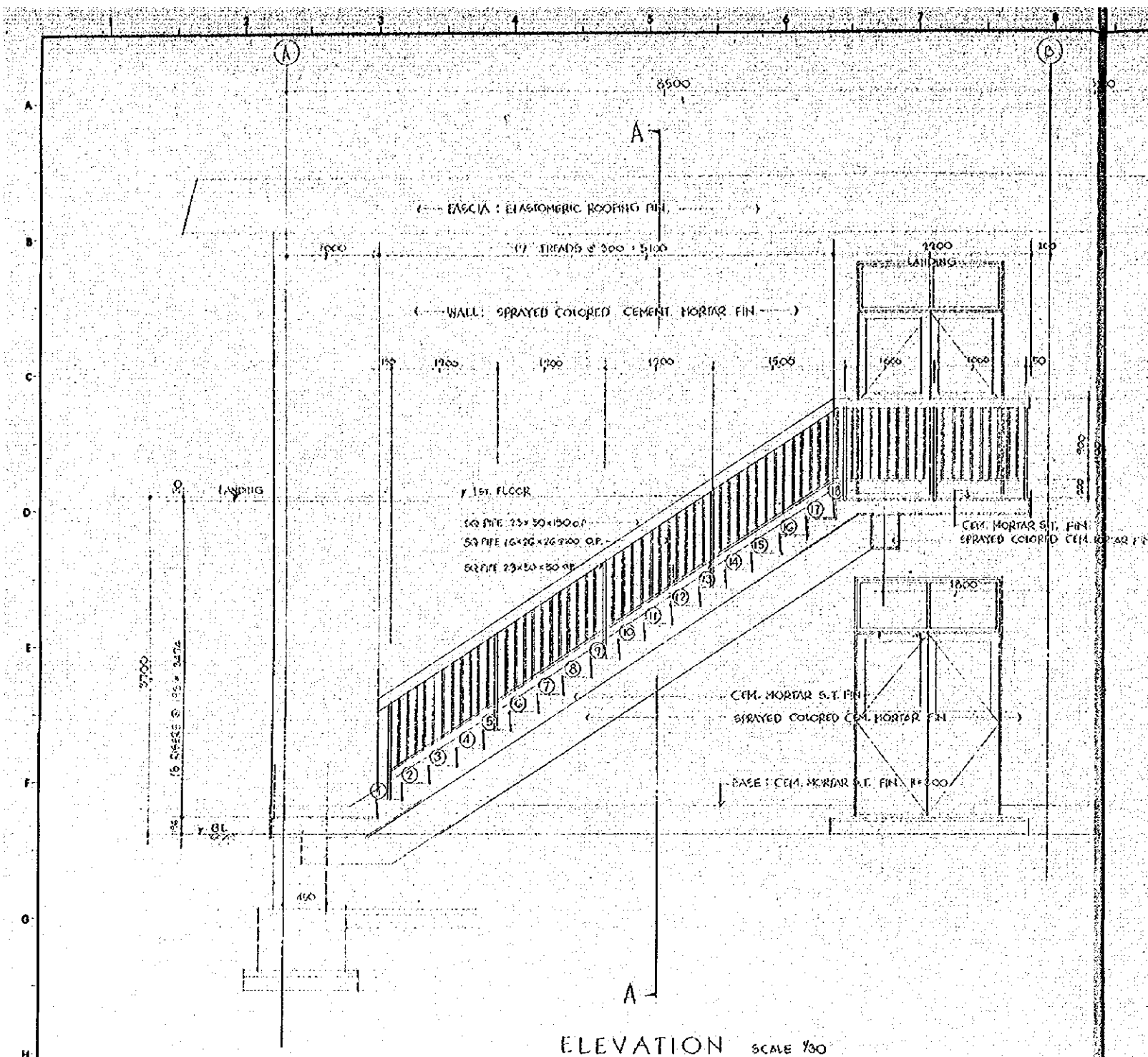
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| REVISION | | | |

PORT MUHAMMAD-BIN-QASIM PROJECT
PAKISTAN

TERMINAL OFFICE
LOCATION
OF
MAIN STAIR DETAILS

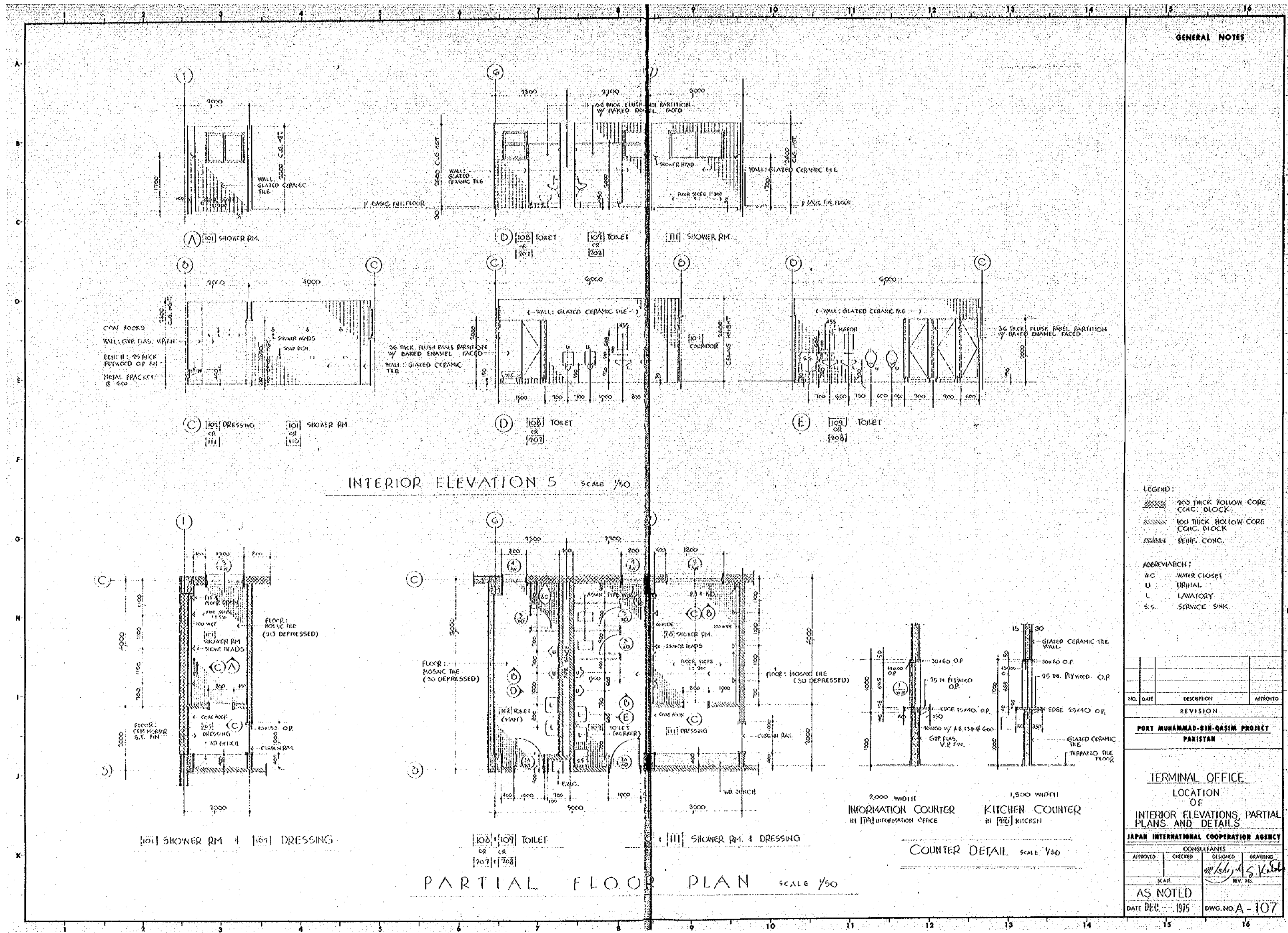
JAPAN INTERNATIONAL COOPERATION AGENCY

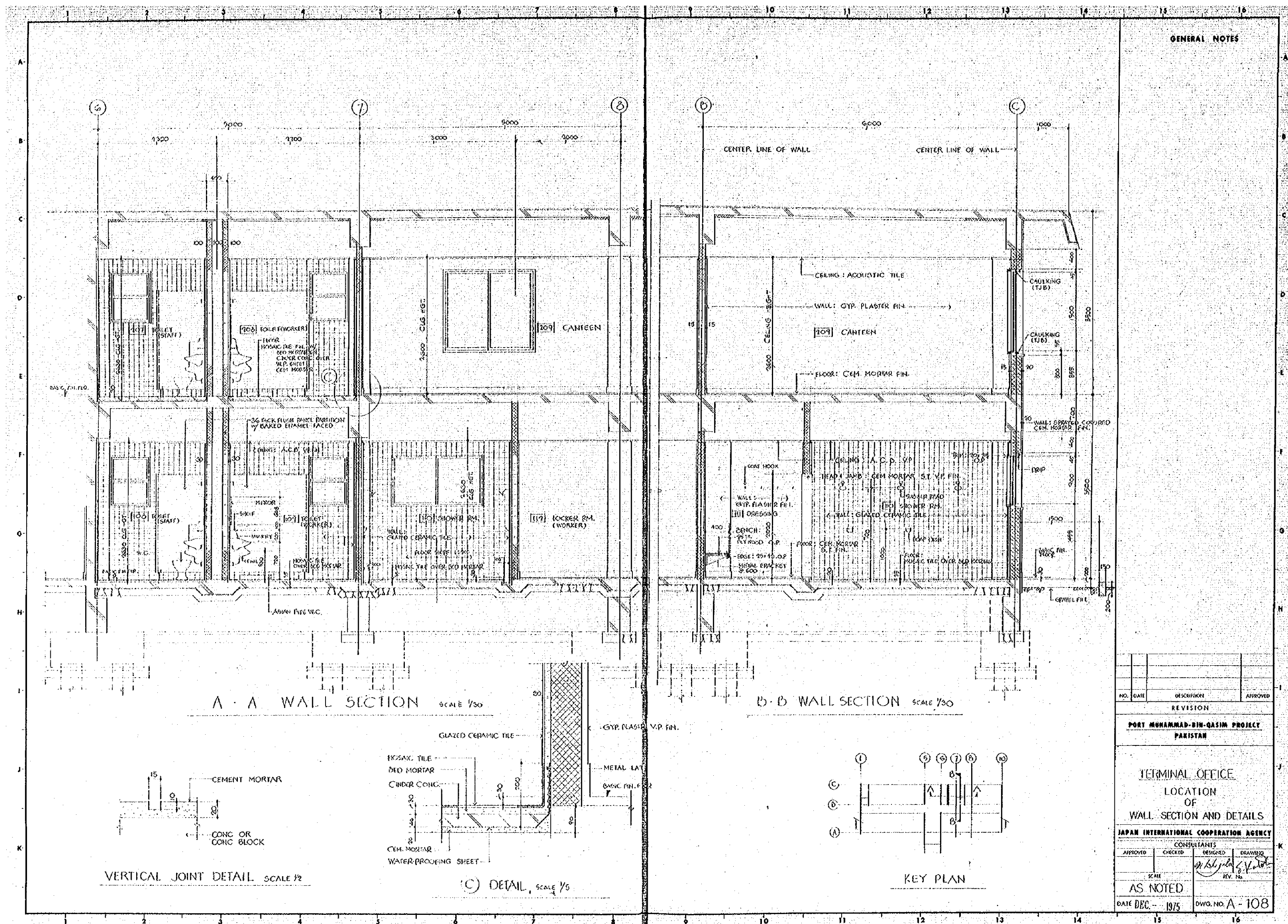
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|---------------|---------|--------------------|--------------------|
| APPROVED | CHECKED | <i>[Signature]</i> | <i>[Signature]</i> |
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| 1 : 30 | | | |
| DATE DEC 1975 | | DWG. NO. A-105 | |



GENERAL NOTES

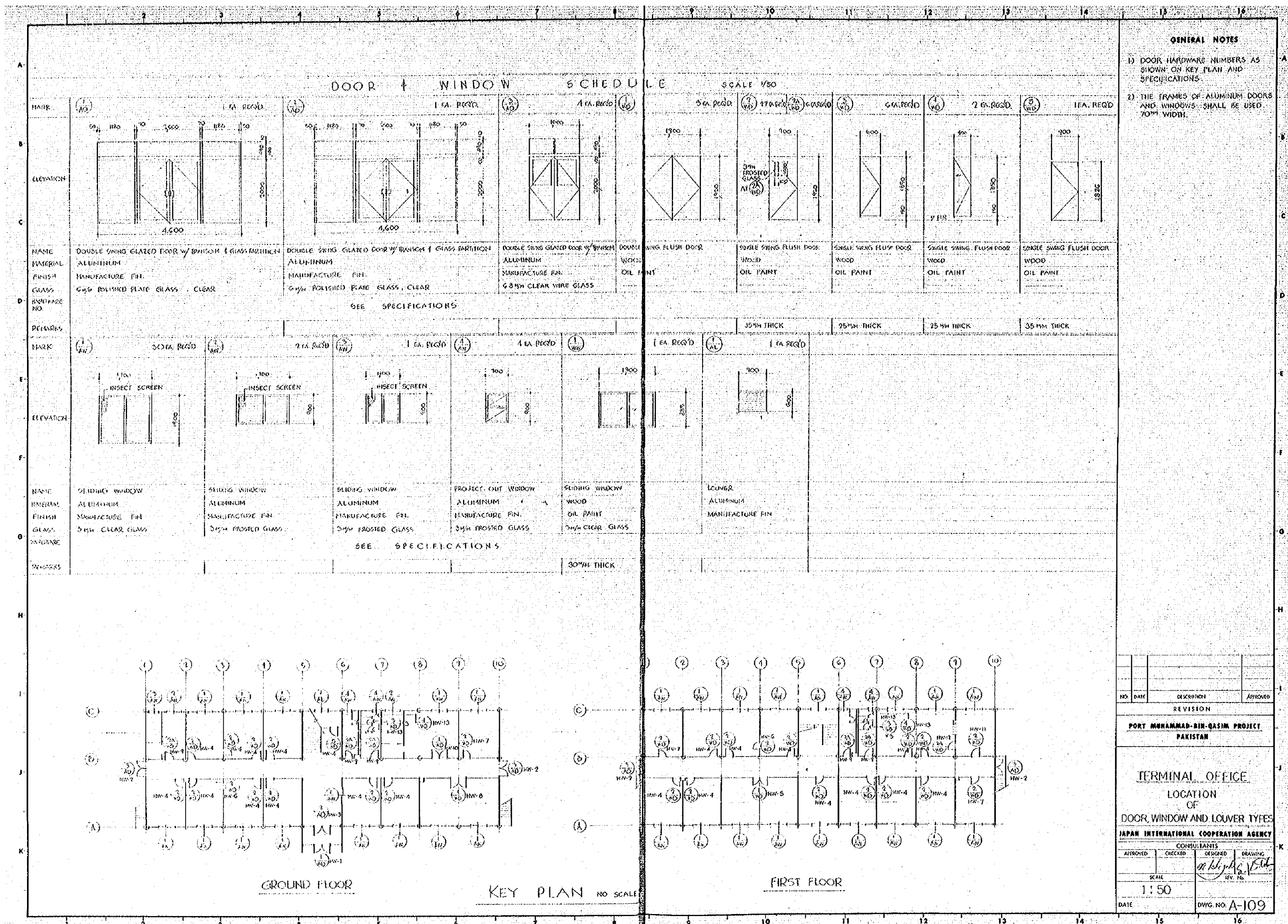
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| NO. | DATE | DESCRIPTION | APPROVED |
| REVISION | | | |
| PORT MUHAMMAD-BIN-QASIM PROJECT PAKISTAN | | | |
| <u>TERMINAL OFFICE</u> LOCATION OF FIRE ESCAPE DETAILS | | | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | | |
| CONSULTANTS | | | |
| APPROVED | CHECKED | DESIGNED | DRAWING |
| | | <i>M. Ishiyama</i> | <i>K. Kato</i> |
| | SCALE | REV. 1/80 | |
| 1 : 30 | | | |
| DATE DEC 1975 | | DWG. NO. A-106 | |





GENERAL NOTES

| | | | |
|---|---------|-------------|----------|
| NO. | DATE | DESCRIPTION | APPROVED |
| REVISION | | | |
| PORT MUHAMMAD-BIN-QASIM PROJECT PAKISTAN | | | |
| TERMINAL OFFICE LOCATION OF WALL SECTION AND DETAILS | | | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | | |
| CONSULTANTS | | | |
| APPROVED | CHECKED | DESIGNED | DRAWN |
| | | | |
| SCALE | | | |
| AS NOTED | | | |
| DATE DEC. 1975 | | | |
| DWG. NO. A-108 | | | |



GENERAL NOTES

1) DOOR HARDWARE NUMBERS AS SHOWN ON KEY PLAN AND SPECIFICATIONS.

2) THE FRAMES OF ALUMINUM DOORS AND WINDOWS SHALL BE USED 70MM WIDTH.

| | | | |
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| NO. | DATE | DESCRIPTION | APPROVED |
| REVISION | | | |
| PORT MUHAMMAD-BIN-QASIM PROJECT PAKISTAN | | | |
| TERMINAL OFFICE LOCATION OF DOOR, WINDOW AND LOUVER TYPES | | | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | | |
| CONSULTANTS | | | |
| APPROVED | CHECKED | DESIGNED | DRAWING |
| SCALE 1:50 | | REV. NO. | |
| DATE | | DWG. NO. A-109 | |

REINFORCING DETAILS

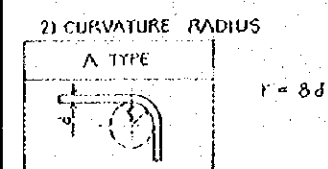
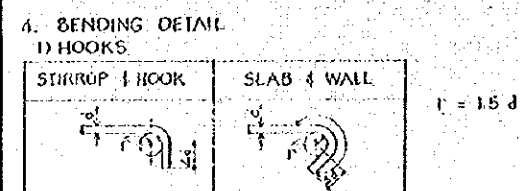
GENERAL NOTES

GENERAL

- ALL REINFORCING BARS FOR USE IN CONC TO COMPLY WITH THIS SCHEDULE, UNLESS OTHERWISE ELSEWHERE.
- CONCRETE COVER OVER REINFORCEMENT IN (mm)

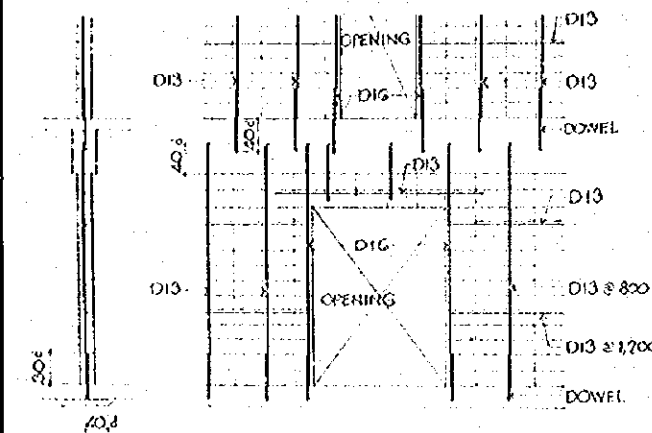
| PART OF MEMBERS | DETAIL | DETAIL |
|------------------|------------|------------|
| SLABS WALLS | DETAIL - A | DETAIL - A |
| COLUMNS | DETAIL - B | DETAIL - B |
| GIRDERS BEAMS | DETAIL - C | DETAIL - C |
| FOUNDATIONS | DETAIL - D | DETAIL - D |
| TIE BEAMS | DETAIL - E | DETAIL - E |

- CLEARANCE BETWEEN LONGITUDINAL BARS
DEFORMED BARS
NOTES:
C: NOT LESS THAN 25mm OR
NOT LESS THAN 1.5d, WHICHEVER GREATER.
d: DIAMETER OF BARS.



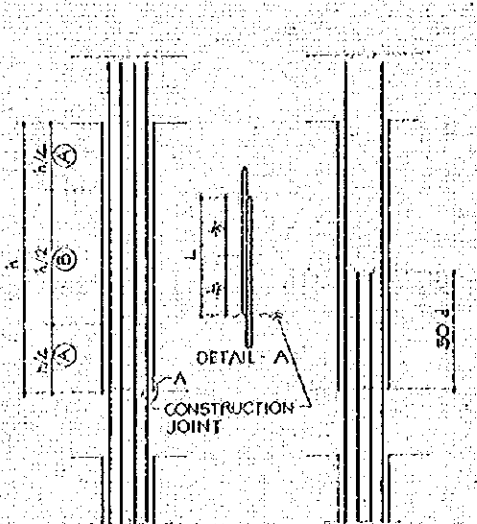
- LAP LENGTH
NOTE
L: 11 TIMES SMALLER DIAMETER
n = 50d, 40d, 30d, 25d AS
INDICATED HERE IN AFTER

C. MARK - indicates STOP END OF DEFORMED BARS.



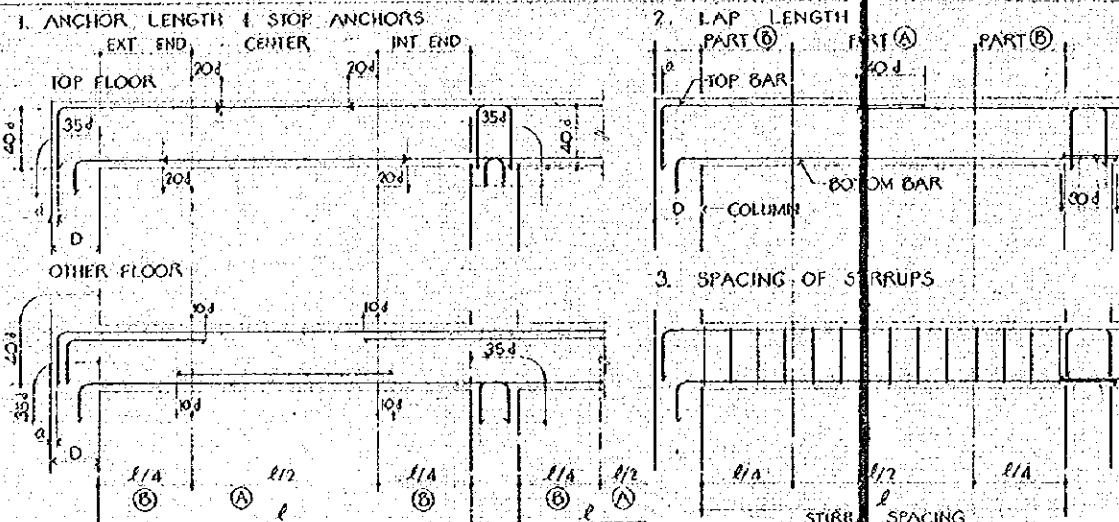
1. COLUMN

- LAP LENGTH
- STOP ANCHORS
- SPACING OF HOOPS



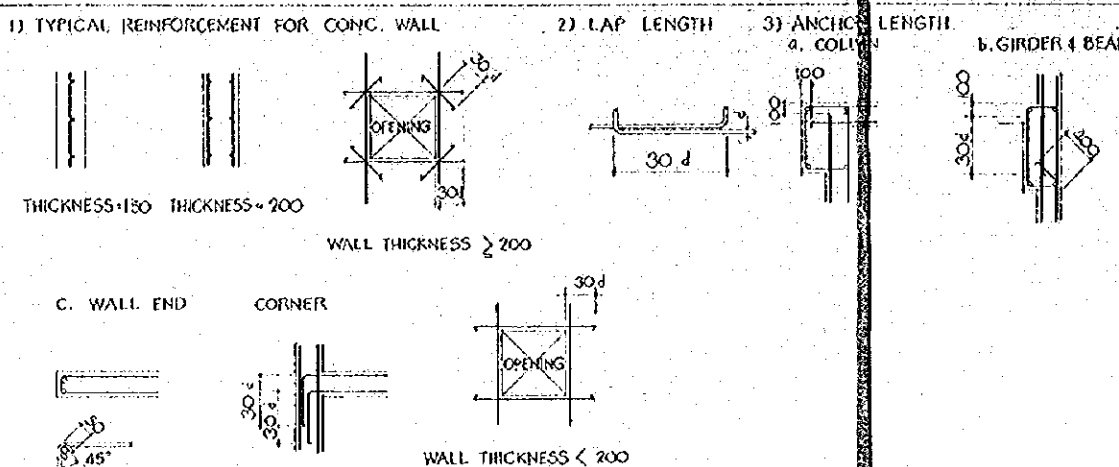
NOTES:
LAP POSITION: PART (A)
L = 50d
d: SMALLER DIAMETER OF BARS

2. GIRDER



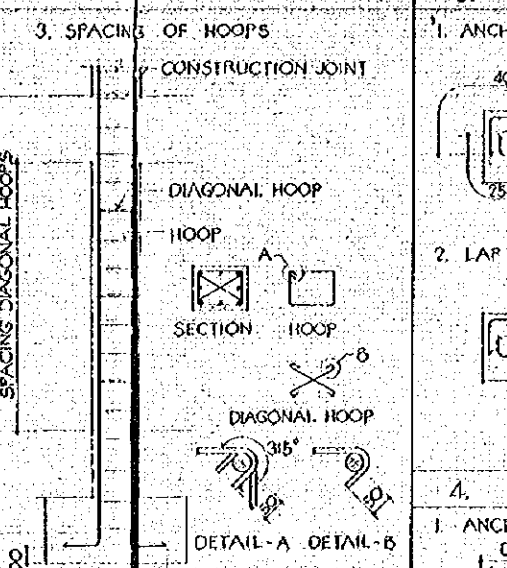
NOTES:
LAP POSITION: TOP BARS AT PART (A)
BOTTOM BARS AT PART (B)
d: SMALLER DIAMETER OF BARS
a: NOT LESS THAN 100mm NOR MORE THAN 1/30

3. WALLS

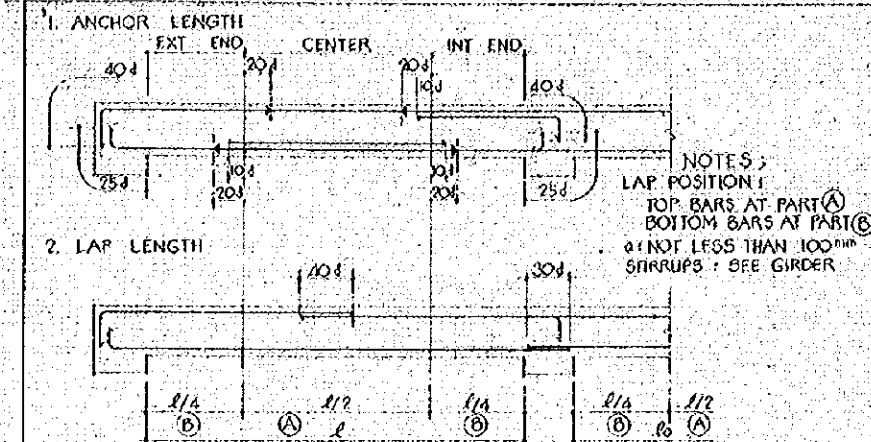


JOINTS AND ANCHORAGE

- CONSTRUCTION JOINT
- DIAGONAL HOOP
- HOOP
- SECTION
- DIAGONAL HOOP
- DETAIL - A
- DETAIL - B

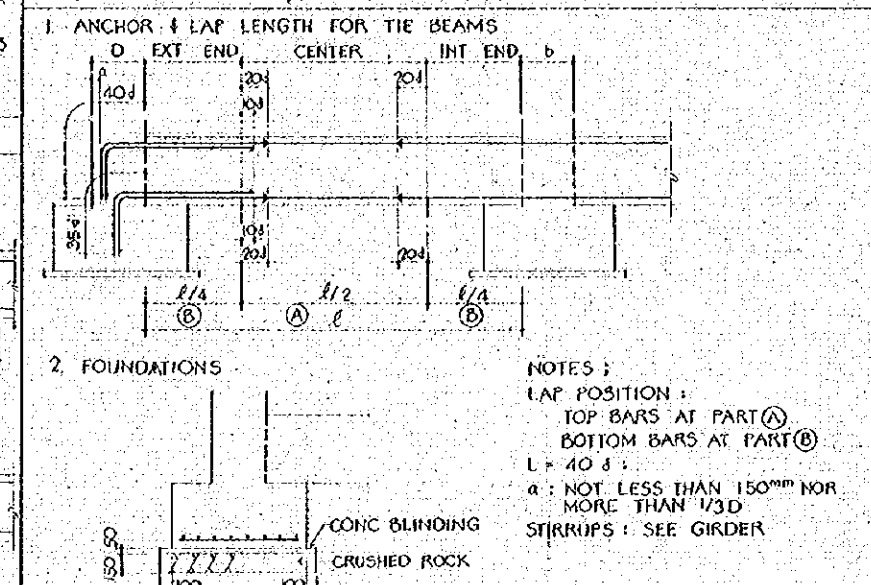


3. BEAMS



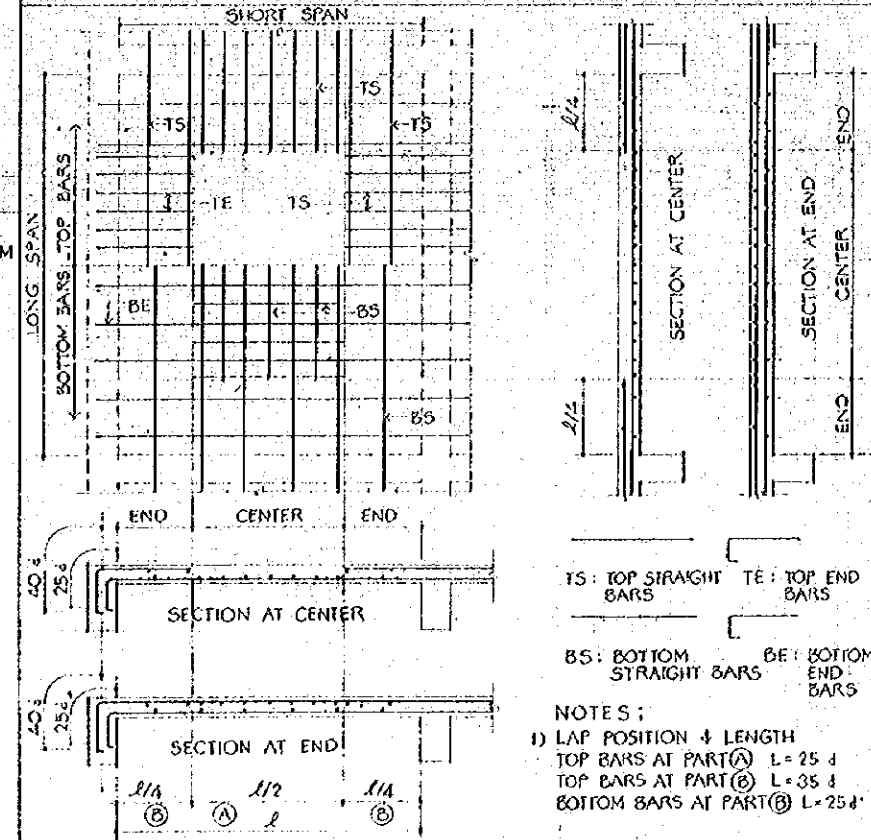
NOTES:
LAP POSITION:
TOP BARS AT PART (A)
BOTTOM BARS AT PART (B)
a: NOT LESS THAN 100mm
STIRRUPS: SEE GIRDER

4. TIE BEAM AND FOUNDATION



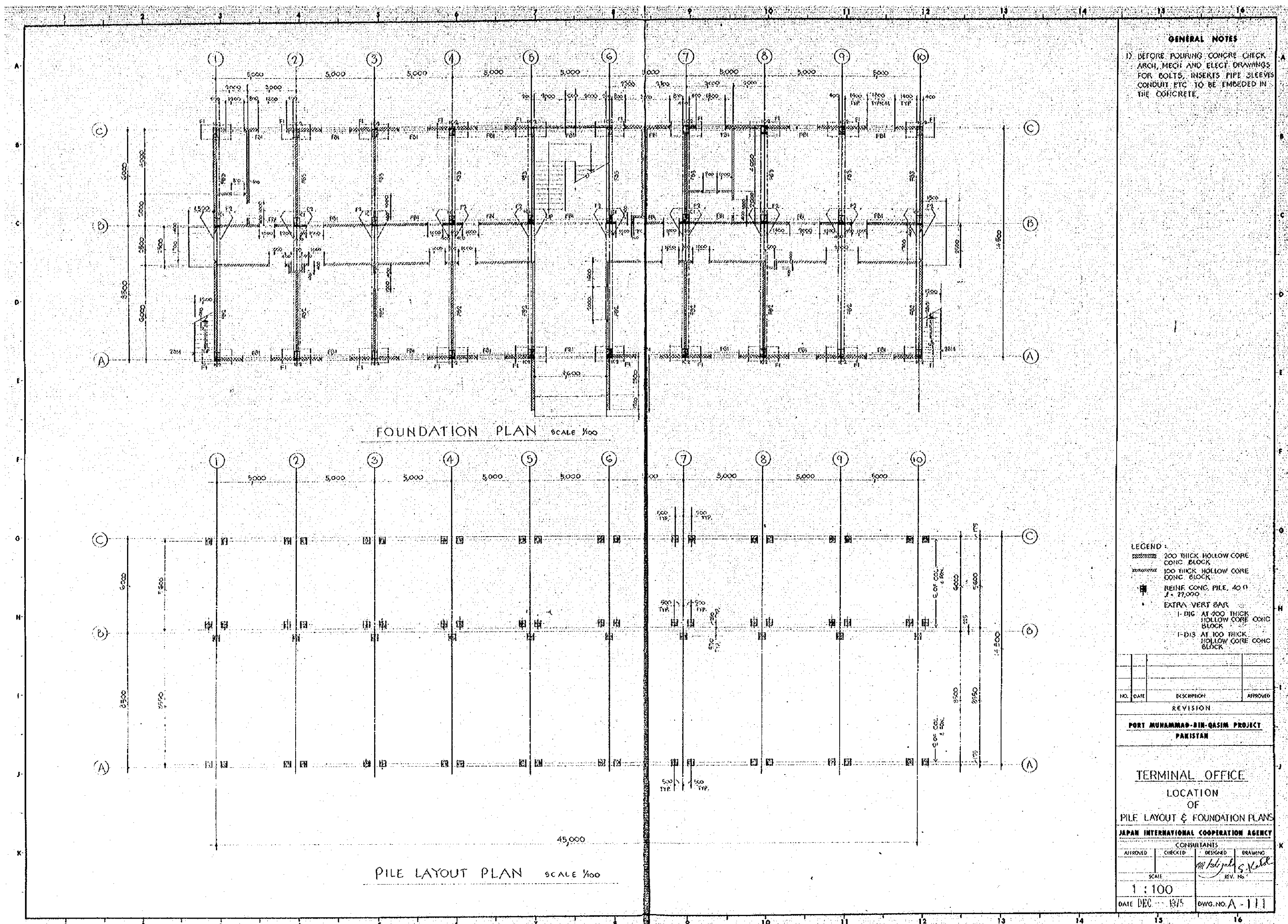
NOTES:
LAP POSITION:
TOP BARS AT PART (A)
BOTTOM BARS AT PART (B)
L = 40d
a: NOT LESS THAN 150mm NOR
MORE THAN 1/30
STIRRUPS: SEE GIRDER

5. SLABS



NOTES:
1) LAP POSITION & LENGTH
TOP BARS AT PART (A) L = 25d
TOP BARS AT PART (B) L = 35d
BOTTOM BARS AT PART (B) L = 25d

| NO. | DATE | DESCRIPTION | APPROVED |
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| REVISION | | | |
| PORT MUHAMMAD-BIN-QASIM PROJECT PAKISTAN | | | |
| TERMINAL OFFICE LOCATION OF REINFORCING DETAILS | | | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | | |
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| NO SCALE | | DATE | |
| DWG. NO. A-110 | | | |



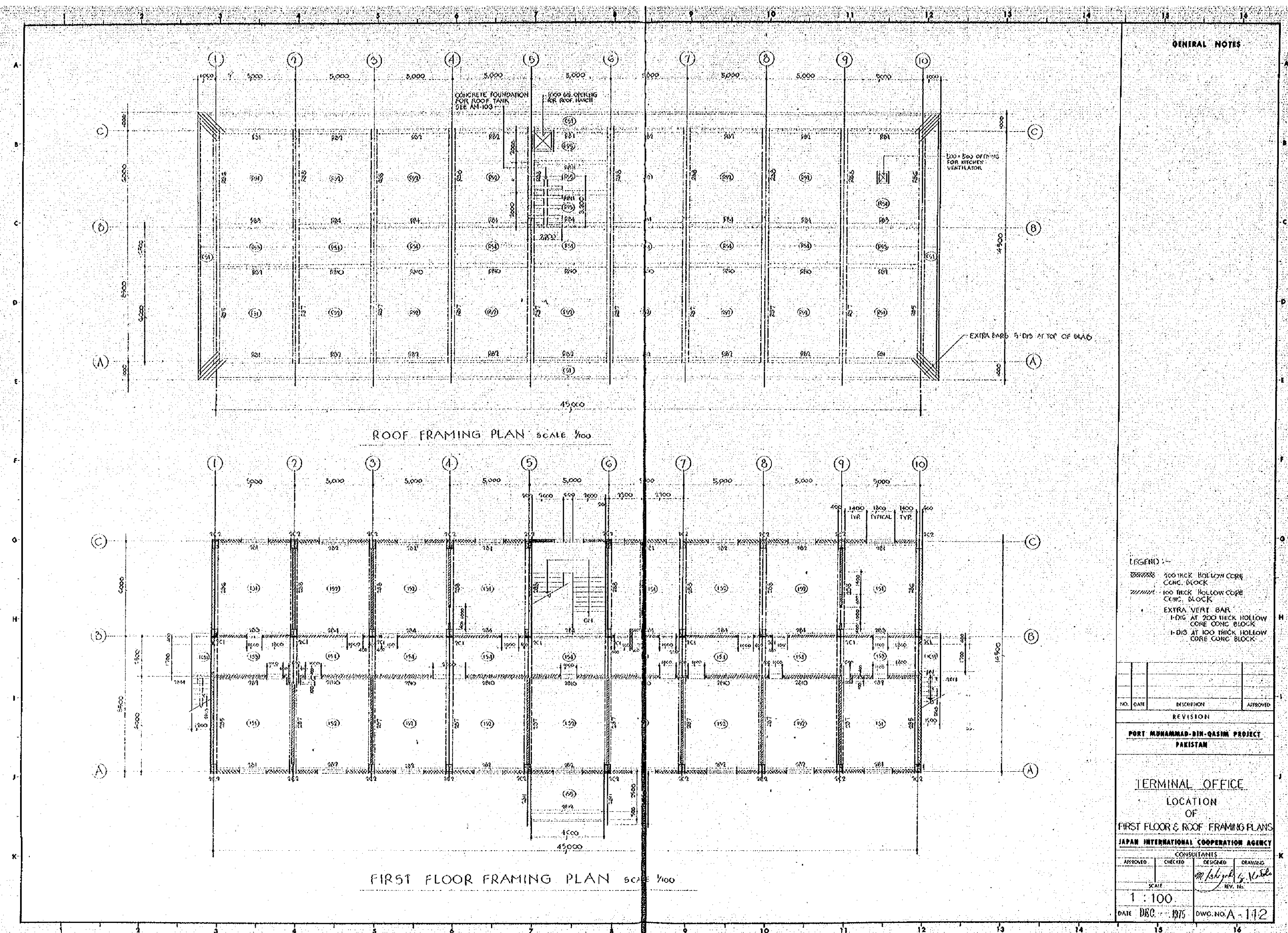
GENERAL NOTES

1) BEFORE POURING CONCRETE CHECK ARCH, MECH AND ELECT DRAWINGS FOR BOLTS, INSERTS, PIPE SLEEVES, CONDUIT ETC TO BE EMBEDDED IN THE CONCRETE.

LEGEND:

- 200 THICK HOLLOW CORE CONC. BLOCK
- 100 THICK HOLLOW CORE CONC. BLOCK
- REINFC CONC. PILE, 40 Ø, 1.1 x 27,000
- EXTRA VERT BAR
- 1-DIG AT 200 THICK HOLLOW CORE CONC. BLOCK
- 1-D13 AT 100 THICK HOLLOW CORE CONC. BLOCK

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| PORT MUHAMMAD-BIN-QASIM PROJECT | | | |
| PAKISTAN | | | |
| TERMINAL OFFICE | | | |
| LOCATION OF | | | |
| PILE LAYOUT & FOUNDATION PLANS | | | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | | |
| CONSULTANTS | | | |
| APPROVED | CHECKED | DESIGNED | DRAWING |
| | | <i>M. Jafar</i> | <i>S. Jafar</i> |
| SCALE | | REV. NO. | |
| 1:100 | | | |
| DATE DEC 1975 | | DWG. NO. A-111 | |



GENERAL NOTES

GIRDER AND BEAM LIST

SCALE 1/30

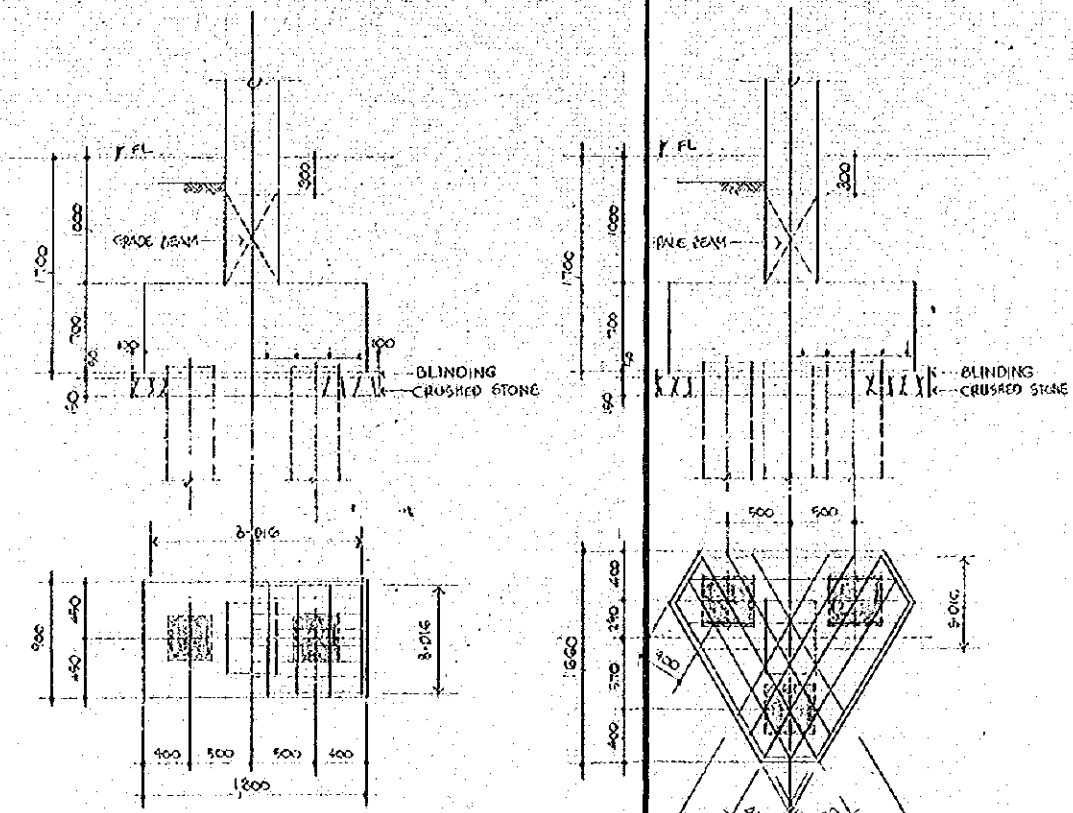
| MARK | RB1, RB2, RB3, RB4 | RB5, RB7 | RB6, RB8 | RB9, RB10 | RB11 | RB12, RB13 | RB14, RB15 |
|------------|--------------------|-----------|------------|-----------|-----------|------------|------------|
| SIZE b x D | 300 x 700 | 400 x 700 | 400 x 700 | 250 x 500 | 250 x 500 | 300 x 700 | 300 x 700 |
| PART | END | MIDSPAN | INTER. END | INT. END | END | EXT. END | INT. END |
| SECTION | | | | | | | |
| TOP BAR | 3-D12 | 2-D12 | 4-D12 | 2-D12 | 3-D12 | 2-D12 | 4-D12 |
| MIDDLE BAR | 2-D10 | 2-D10 | 2-D10 | 2-D10 | 2-D10 | 2-D10 | 2-D10 |
| BOTTOM BAR | 2-D12 | 3-D12 | 2-D12 | 4-D12 | 2-D12 | 3-D12 | 2-D12 |
| STIRRUPS | D10 @ 300 | D10 @ 300 | D10 @ 300 | D10 @ 250 | D10 @ 250 | D10 @ 300 | D10 @ 300 |

| MARK | RB16, RB17 | RB18, RB19 | RB20 | RB21 | RB22 | RB23, RB24 | RB25, RB26 |
|------------|------------|------------|-----------|-----------|-----------|------------|------------|
| SIZE b x D | 400 x 700 | 400 x 700 | 250 x 500 | 250 x 500 | 250 x 500 | 300 x 700 | 400 x 700 |
| PART | EXT. END | MIDSPAN | INT. END | EXT. END | MIDSPAN | INT. END | EXT. END |
| SECTION | | | | | | | |
| TOP BAR | 5-D12 | 2-D12 | 3-D12 | 2-D12 | 2-D12 | 4-D12 | 2-D12 |
| MIDDLE BAR | 2-D10 | 2-D10 | 2-D10 | 2-D10 | 2-D10 | 2-D10 | 2-D10 |
| BOTTOM BAR | 2-D12 | 4-D12 | 2-D12 | 3-D12 | 2-D12 | 2-D12 | 2-D12 |
| STIRRUPS | D10 @ 200 | D10 @ 175 | D10 @ 300 | D10 @ 250 | D10 @ 250 | D10 @ 300 | D10 @ 300 |

COLUMN LIST

SCALE 1/30

| MARK | 2C1 | 2C2 |
|-----------|-----------|-----------|
| SIZE | 400 x 550 | 400 x 550 |
| SECTION | | |
| 1st FLOOR | | |
| VERT. BAR | 4-D12 | 6-D12 |
| HOOP | D10 @ 300 | D10 @ 200 |
| DIAG. BAR | D10 @ 400 | D10 @ 400 |
| MARK | 1C1 | 1C2 |
| SIZE | 400 x 550 | 400 x 550 |
| SECTION | | |
| GR FLOOR | | |
| VERT. BAR | 8-D12 | 12-D12 |
| HOOP | D10 @ 300 | D10 @ 200 |
| DIAG. BAR | D10 @ 400 | D10 @ 400 |

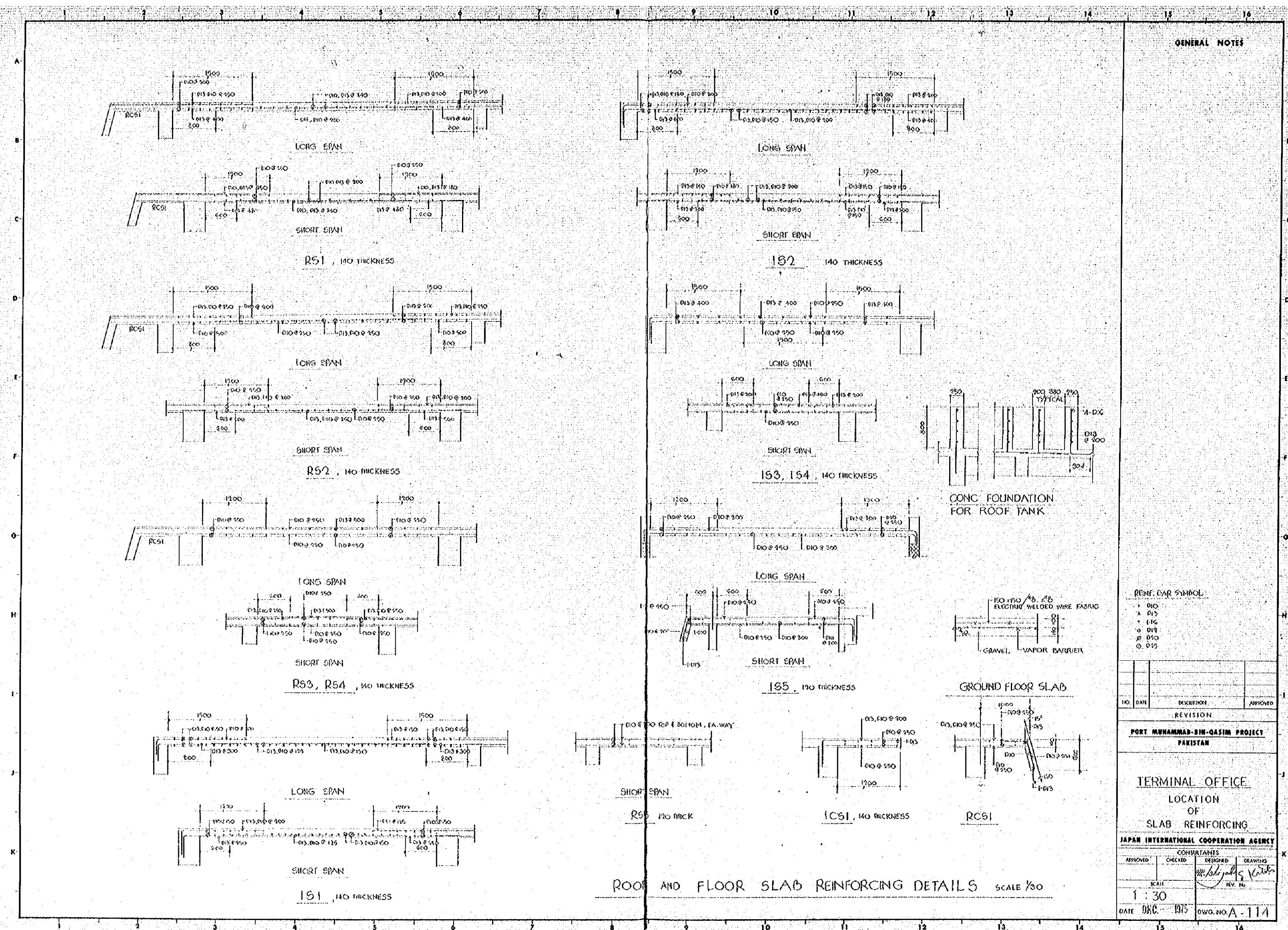


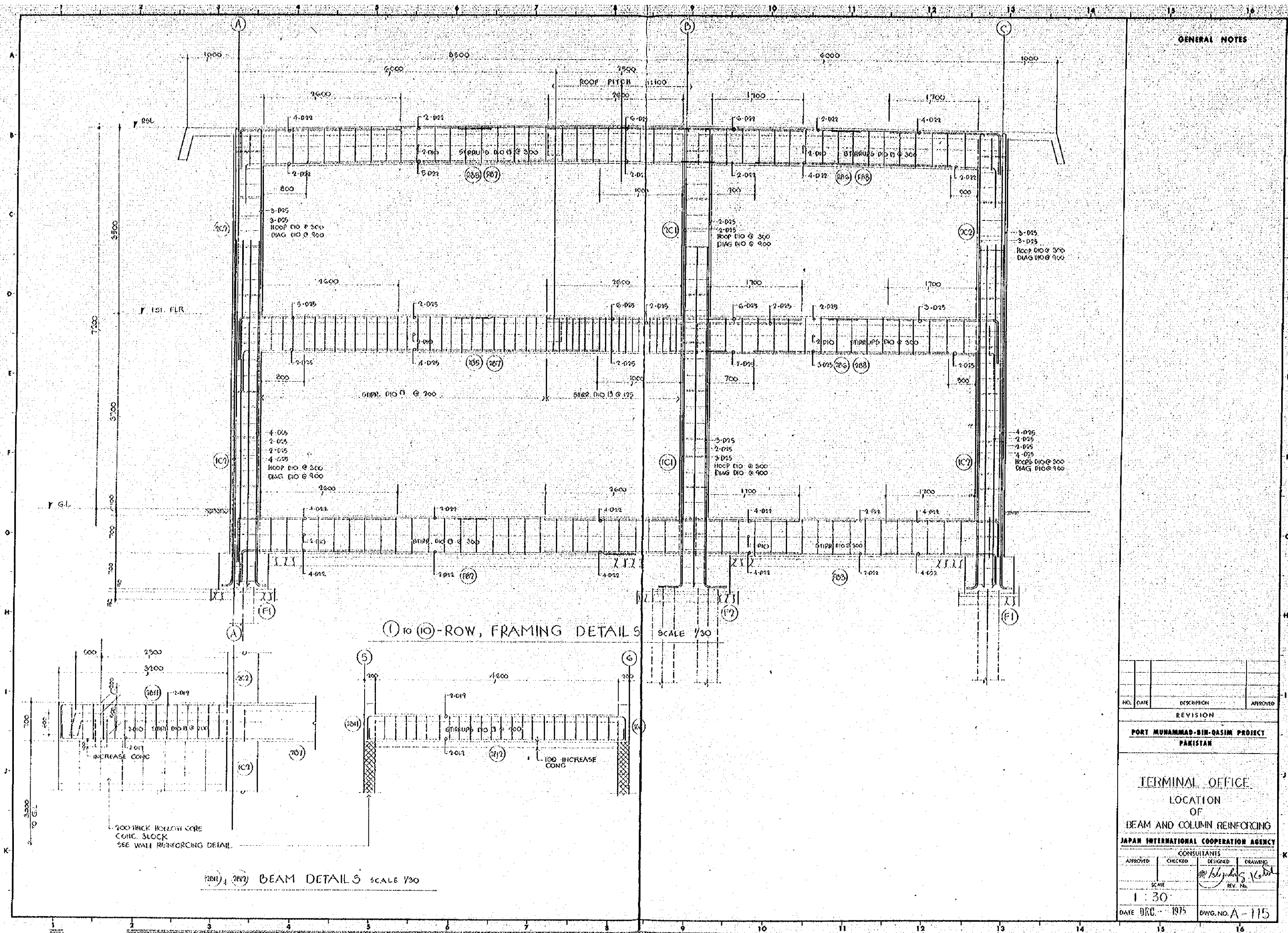
FOOTING DETAIL SCALE 1/30

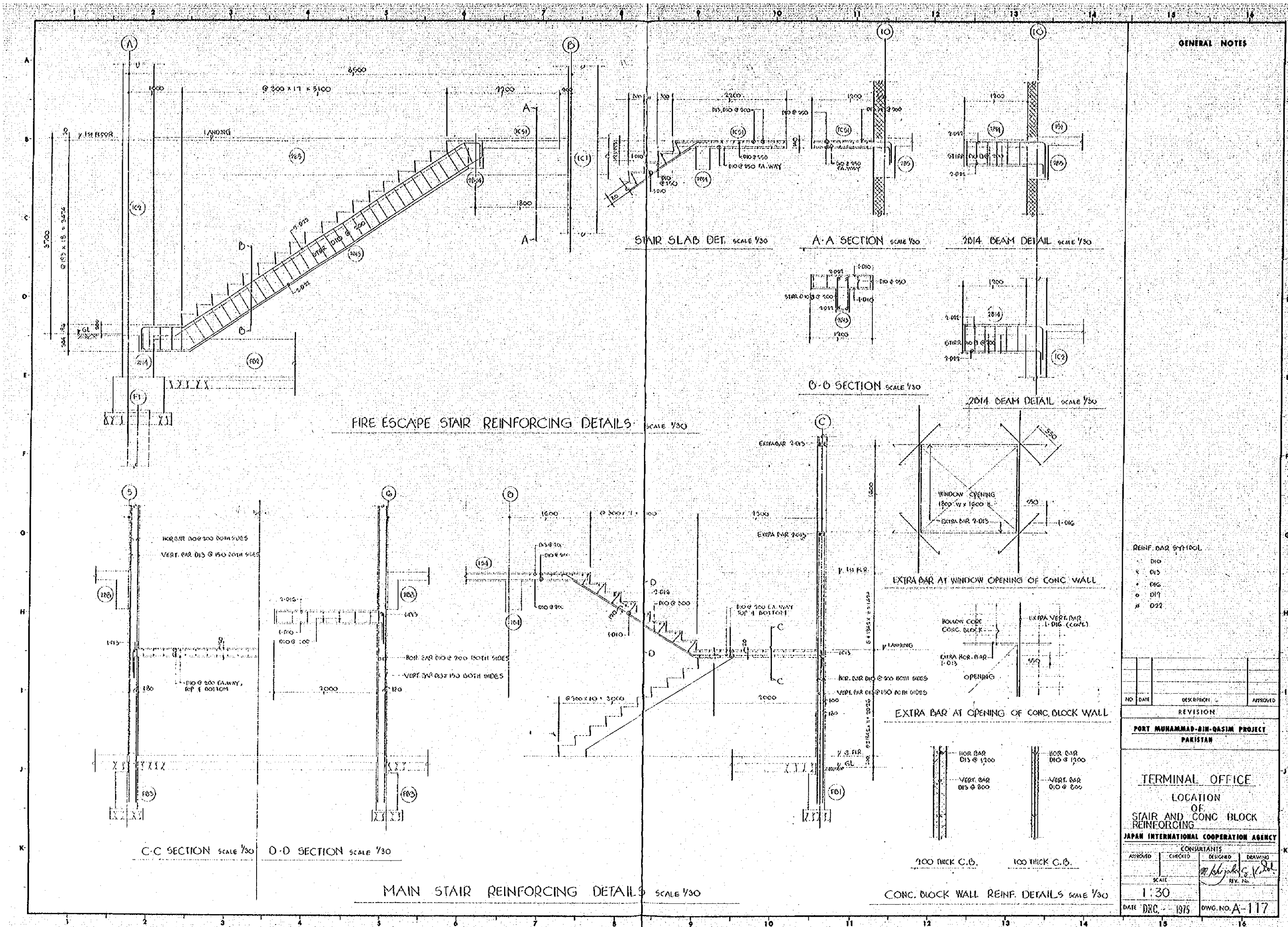
REIN. BAR SYMBOL

| | |
|---|-----|
| — | D10 |
| × | D12 |
| + | D16 |
| o | D19 |
| ∕ | D22 |
| ⊖ | D25 |

| | | | |
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| NO. | DATE | DESCRIPTION | APPROVED |
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| PORT MUHAMMAD-BIN-QASIM PROJECT PAKISTAN | | | |
| TERMINAL OFFICE LOCATION OF GIRDER, BEAM, COLUMN LIST & FOUNDATION AND FLE REINFORCING | | | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | | |
| APPROVED | CHECKED | DESIGNED | DRAWING |
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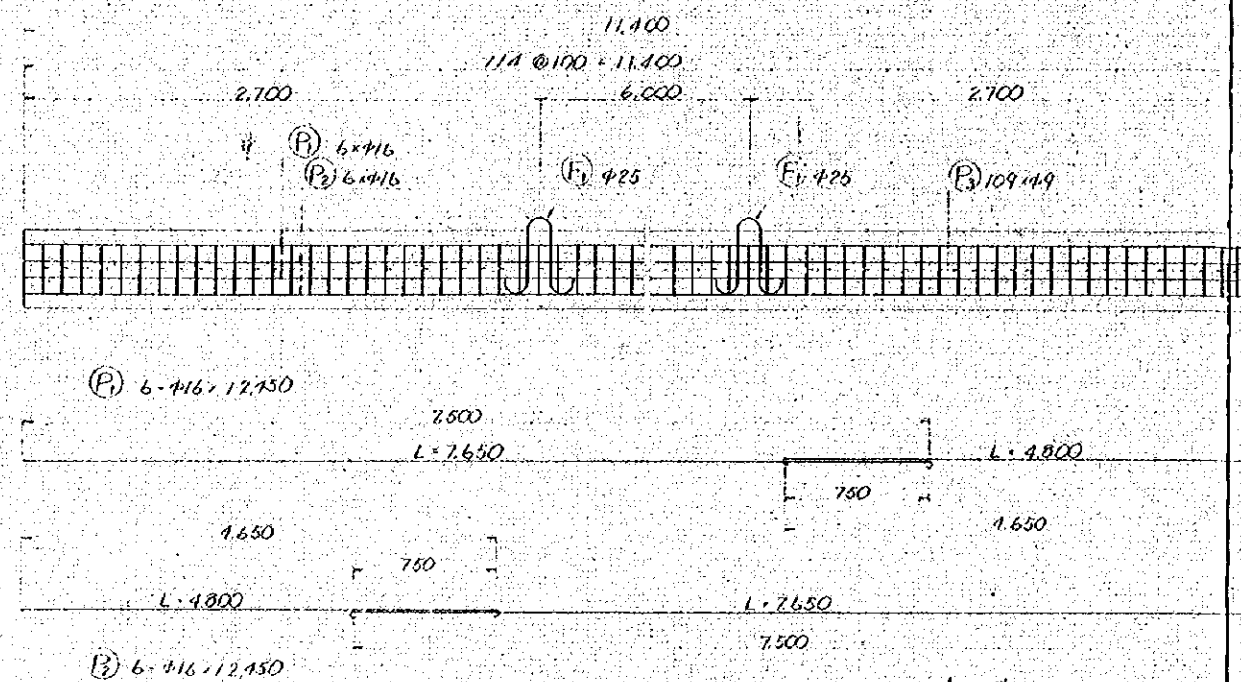




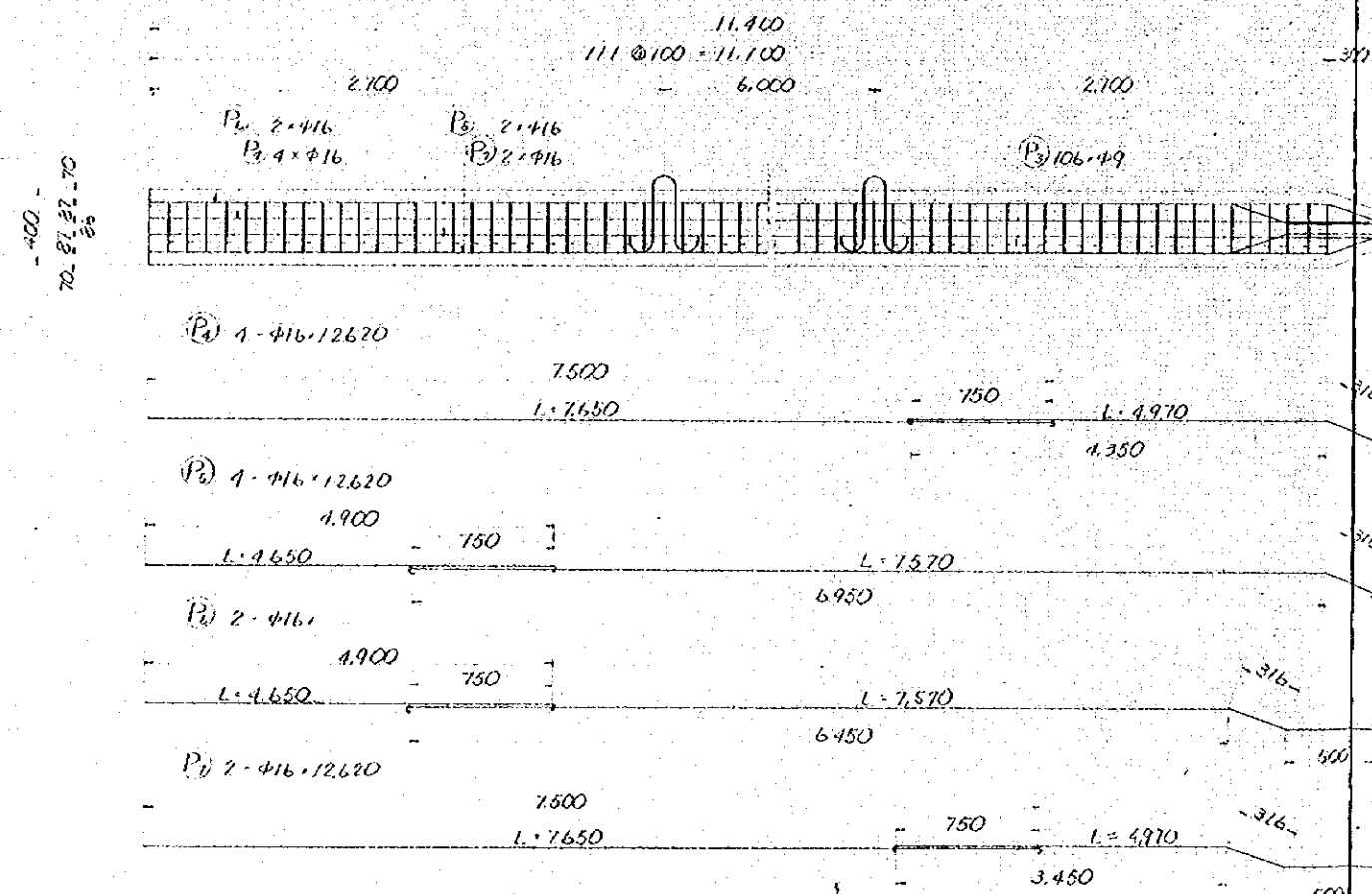


BAR ARRANGEMENT OF RC PILE

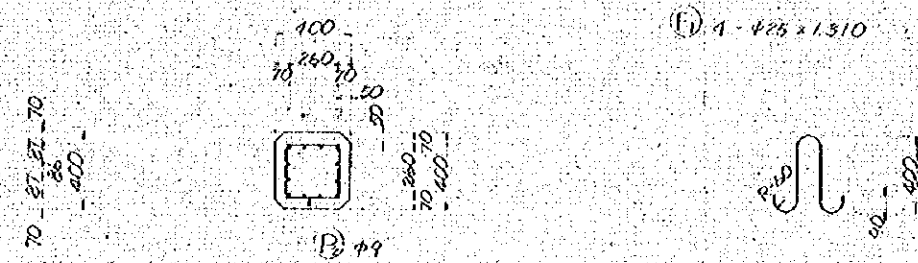
UPPER PILE SCALE = 1/20



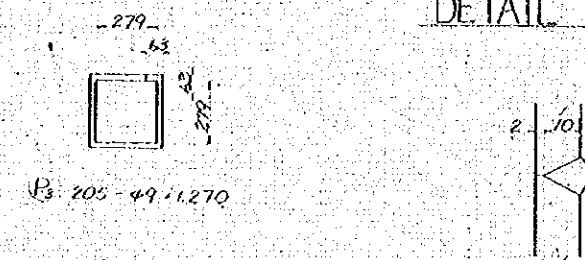
LOWER PILE SCALE = 1/20



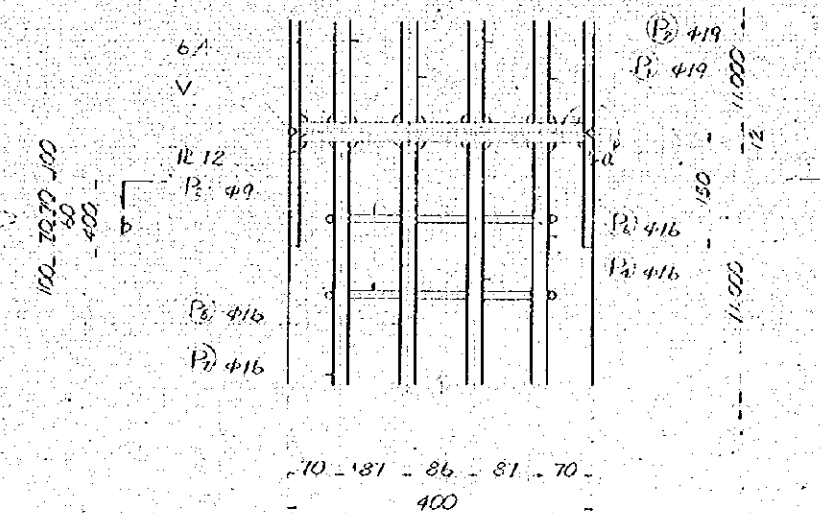
TYPICAL SECTION SCALE = 1/20



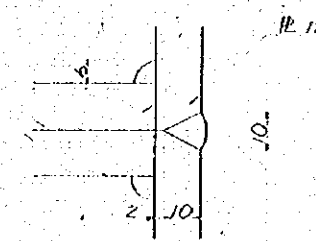
DETAIL 'C'



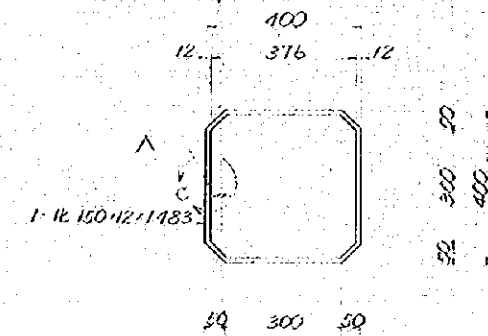
DETAIL OF PILE CONNECTION SCALE = 1/5



DETAIL 'a'



SECTION b-b SCALE = 1/10

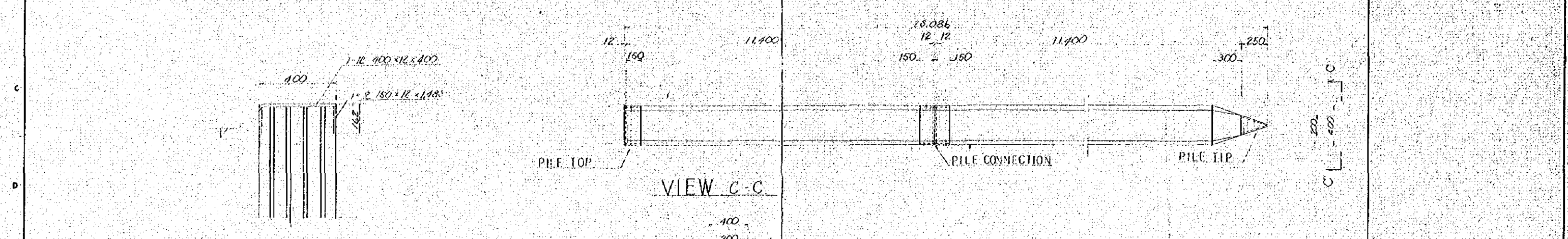


GENERAL NOTES

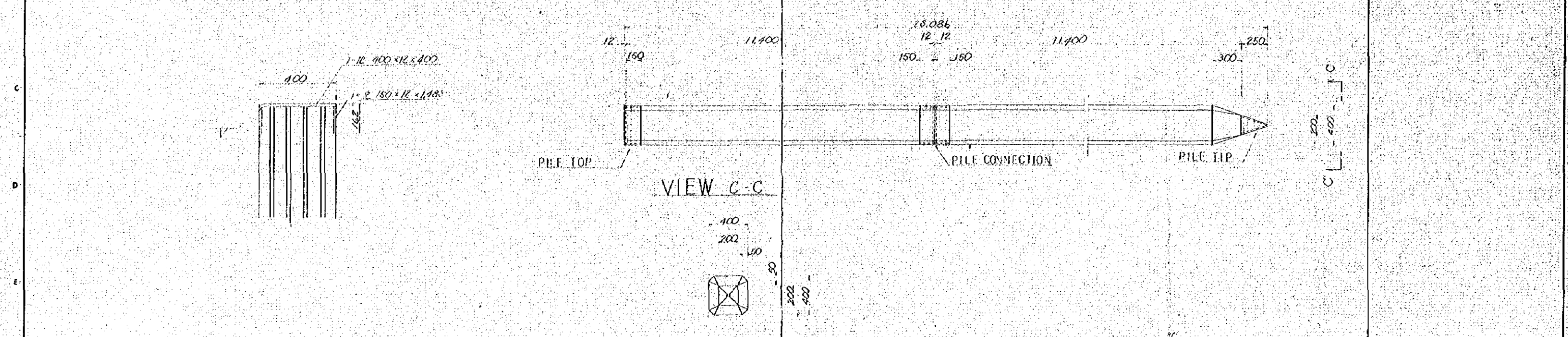
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| PORT MUHAMMAD-BIN-QASIM PROJECT | | | |
| PAKISTAN | | | |
| TERMINAL OFFICE | | | |
| LOCATION OF | | | |
| PILE DETAILS (1) | | | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | | |
| CONSULTANTS | | | |
| APPROVED | CHECKED | DESIGNED | DRAWING |
| SCALE | 1:20 | 1:20 | 1:20 |
| DATE | 10/10/1975 | DWG. NO. | A-118 |

[illegible]

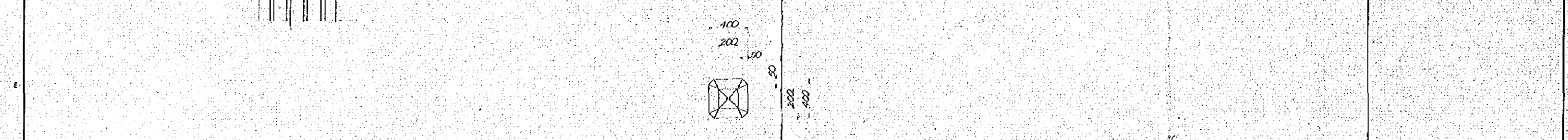
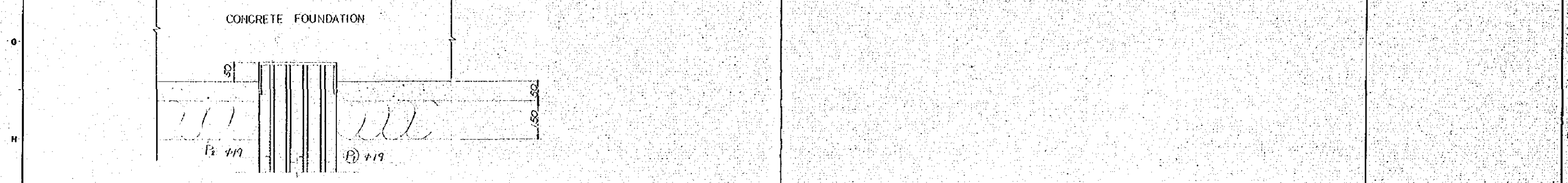
DETAIL OF HILL TOP SCALE 1"=750'



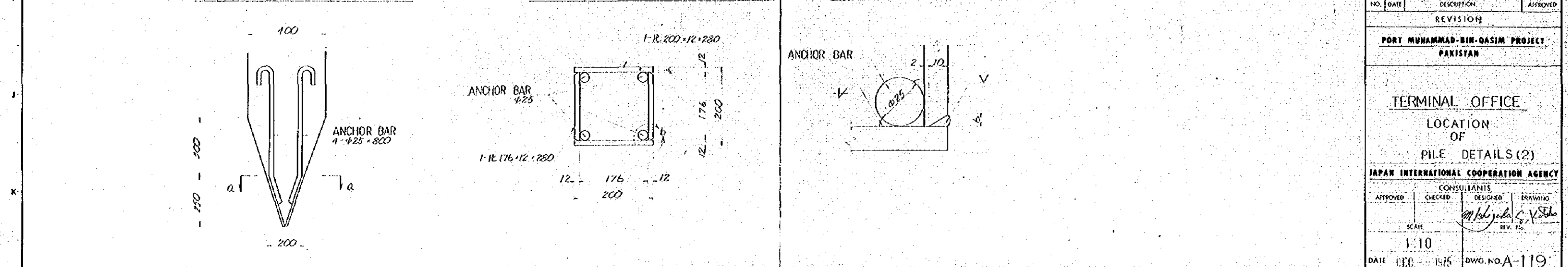
DETAIL OF PILE TOP SCALE = 1/4" = 1'-0"



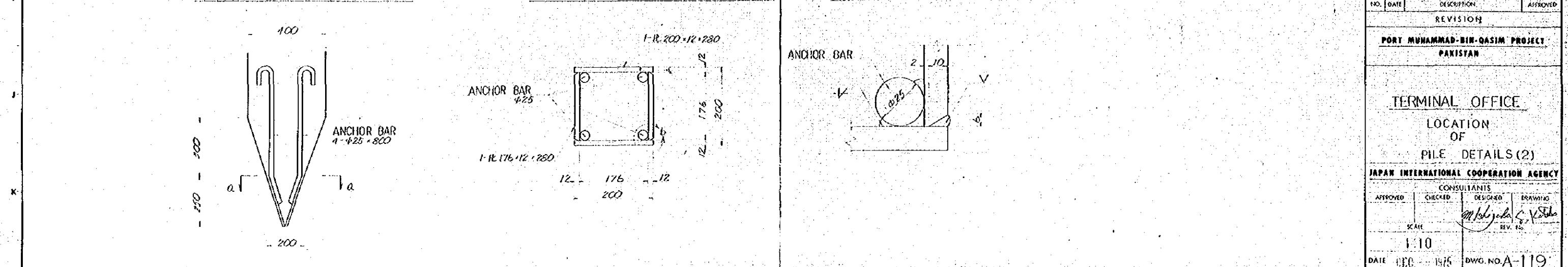
VIEW C-C

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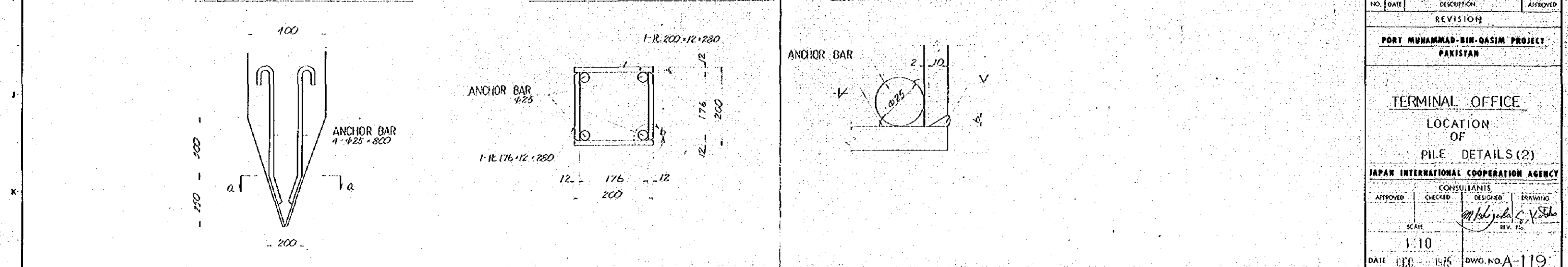
PILE TIP SCALE = 1/10 SECTION a-a SCALE = 1/3 DETAIL "b" SCALE = 1/1



PILE TIP SCALE = 1/10 SECTION a-a SCALE = 1/3 DETAIL "b" SCALE = 1/1



PILE TIP SCALE = 1/10 SECTION a-a SCALE = 1/3 DETAIL "b" SCALE = 1/1



PILE TIP SCALE = 1/10

ANCHOR BAR
4- ϕ 25 x 800

SECTION a-a SCALE = 1/3

ANCHOR BAR
 ϕ 25

DETAIL "b" SCALE = 1/1

ANCHOR BAR

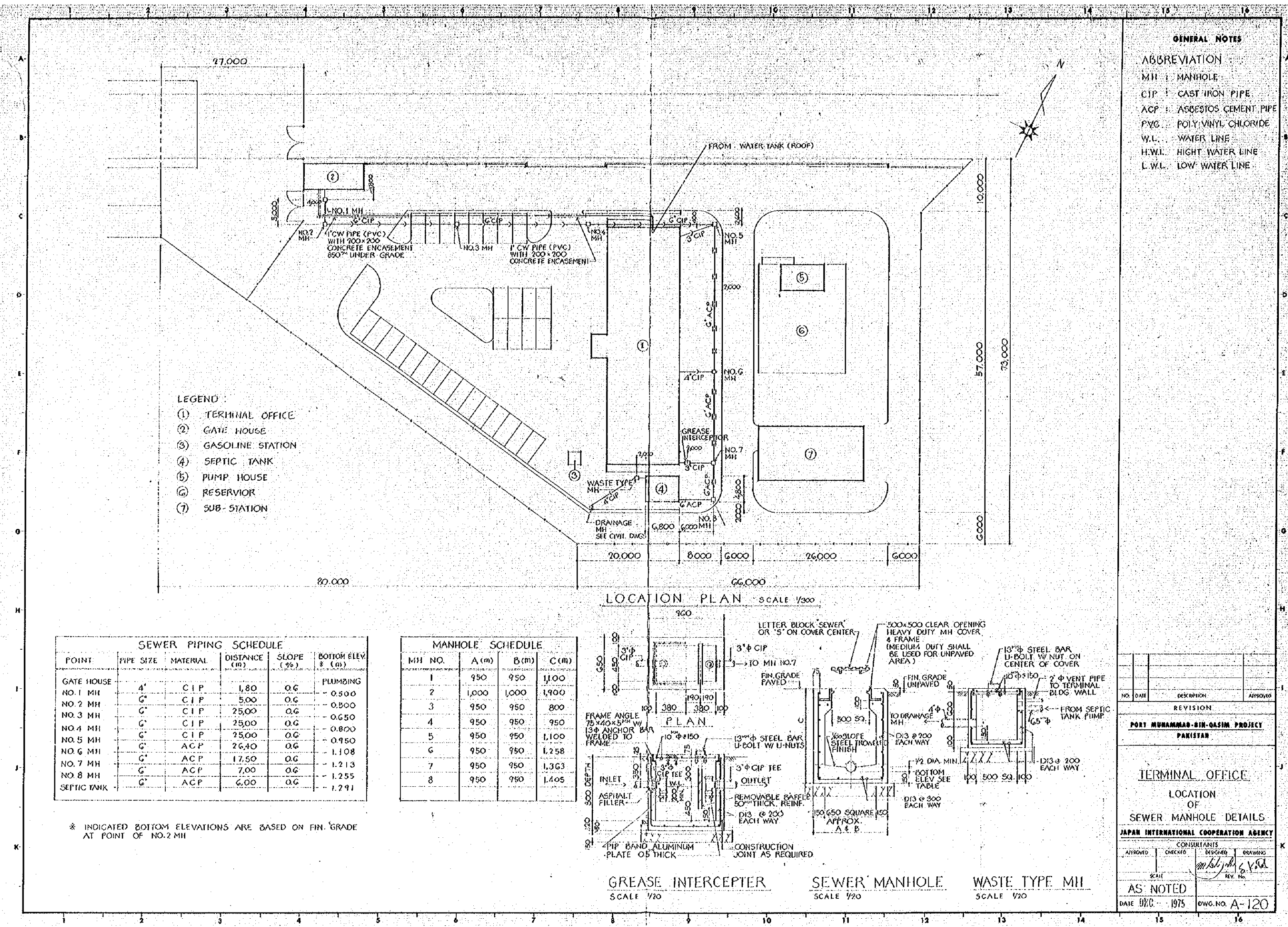
| NO. | | DATE | DESCRIPTION | APPROVED |
|-----------|--|------|-------------|----------|
| REVISIONS | | | | |

**PORT MUHAMMAD-BIN-QASIM PROJECT
PAKISTAN**

**TERMINAL OFFICE
LOCATION OF
PILE DETAILS (2)**

JAPAN INTERNATIONAL COOPERATION AGENCY

| CONSULTANTS | | | |
|-------------|------------|----------------|---------|
| APPROVED | CHECKED | DESIGNED | DRAWING |
| | | | |
| SCALE | | REV. NO. | |
| 1:10 | | | |
| DATE | DEC - 1975 | DWG. NO. A-119 | |



GENERAL NOTES

ABBREVIATION

MH : MANHOLE

CIP : CAST IRON PIPE

ACP : ASBESTOS CEMENT PIPE

PVC : POLY VINYL CHLORIDE

W.L. : WATER LINE

H.W.L. : HIGH WATER LINE

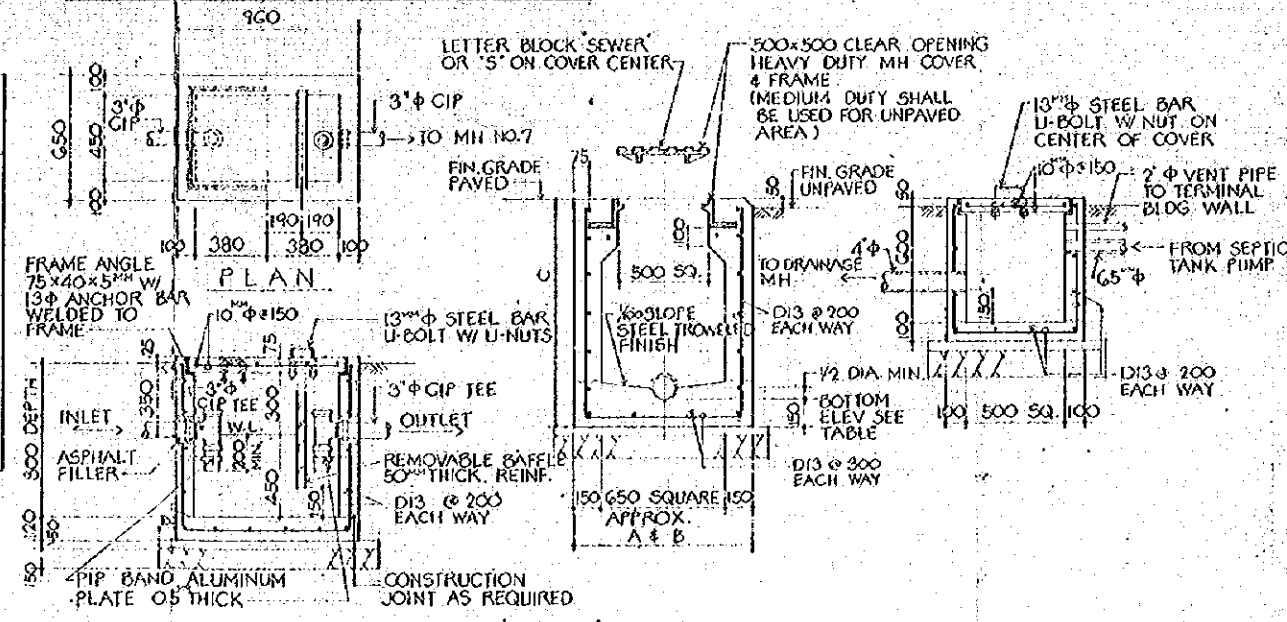
L.W.L. : LOW WATER LINE

- LEGEND :
- (1) TERMINAL OFFICE
 - (2) GATE HOUSE
 - (3) GASOLINE STATION
 - (4) SEPTIC TANK
 - (5) PUMP HOUSE
 - (6) RESERVOIR
 - (7) SUB-STATION

| SEWER PIPING SCHEDULE | | | | | |
|-----------------------|-----------|----------|--------------|-----------|--------------------|
| POINT | PIPE SIZE | MATERIAL | DISTANCE (m) | SLOPE (%) | BOTTOM ELEV. & (m) |
| GATE HOUSE | 4" | CIP | 1.80 | 0.6 | PLUMBING |
| NO. 1 MH | 6" | CIP | 5.00 | 0.6 | -0.500 |
| NO. 2 MH | 6" | CIP | 25.00 | 0.6 | -0.500 |
| NO. 3 MH | 6" | CIP | 25.00 | 0.6 | -0.650 |
| NO. 4 MH | 6" | CIP | 25.00 | 0.6 | -0.800 |
| NO. 5 MH | 6" | CIP | 25.00 | 0.6 | -0.950 |
| NO. 6 MH | 6" | ACP | 26.40 | 0.6 | -1.108 |
| NO. 7 MH | 6" | ACP | 17.50 | 0.6 | -1.213 |
| NO. 8 MH | 6" | ACP | 7.00 | 0.6 | -1.255 |
| SEPTIC TANK | 6" | ACP | 6.00 | 0.6 | -1.291 |

* INDICATED BOTTOM ELEVATIONS ARE BASED ON FIN. GRADE AT POINT OF NO. 2 MH

| MANHOLE SCHEDULE | | | |
|------------------|-------|-------|-------|
| MH NO. | A (m) | B (m) | C (m) |
| 1 | 950 | 950 | 1,100 |
| 2 | 1,000 | 1,000 | 1,900 |
| 3 | 950 | 950 | 800 |
| 4 | 950 | 950 | 950 |
| 5 | 950 | 950 | 1,100 |
| 6 | 950 | 950 | 1,258 |
| 7 | 950 | 950 | 1,363 |
| 8 | 950 | 950 | 1,405 |

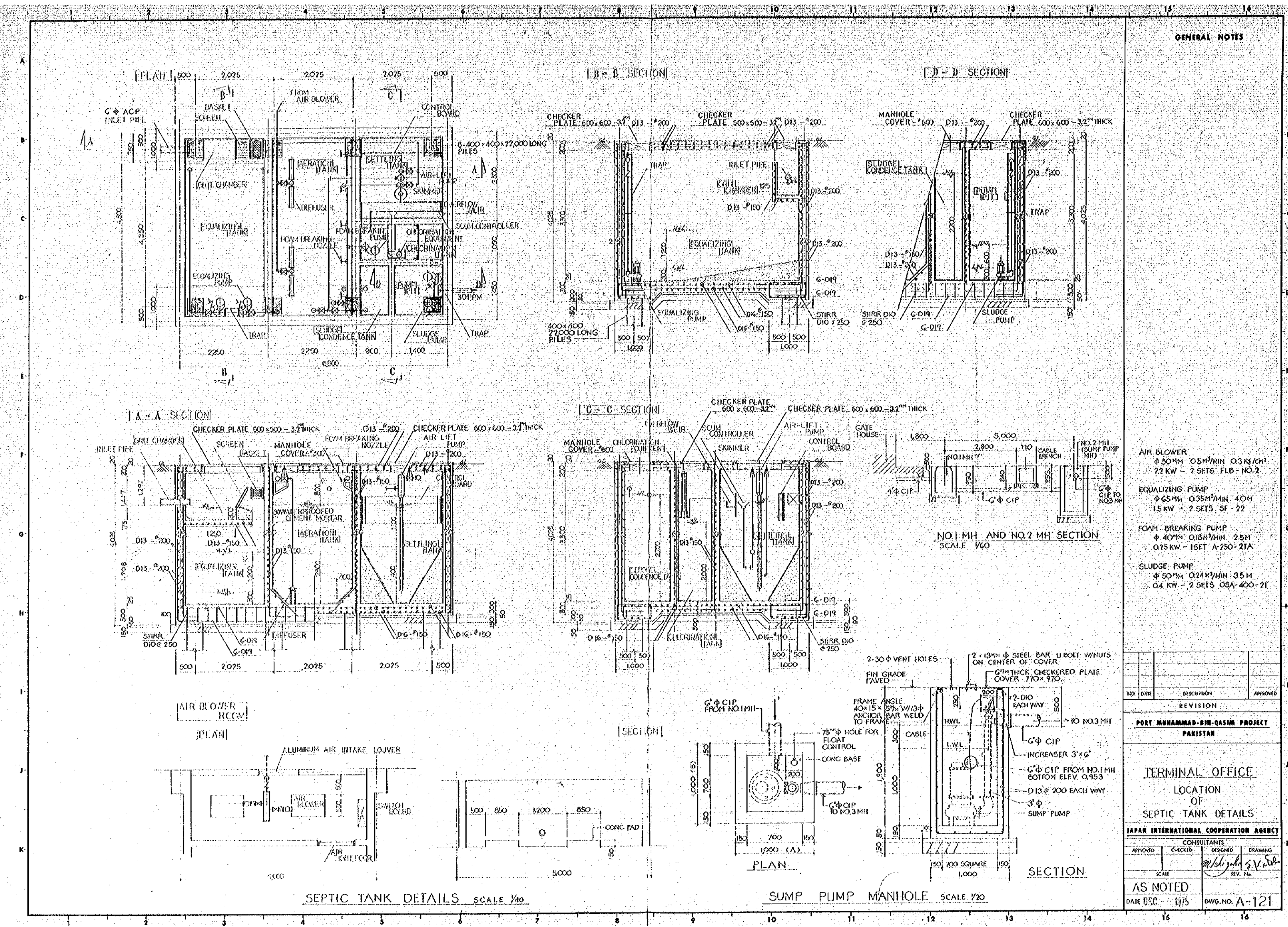


GREASE INTERCEPTOR
SCALE 1/20

SEWER MANHOLE
SCALE 1/20

WASTE TYPE MH
SCALE 1/20

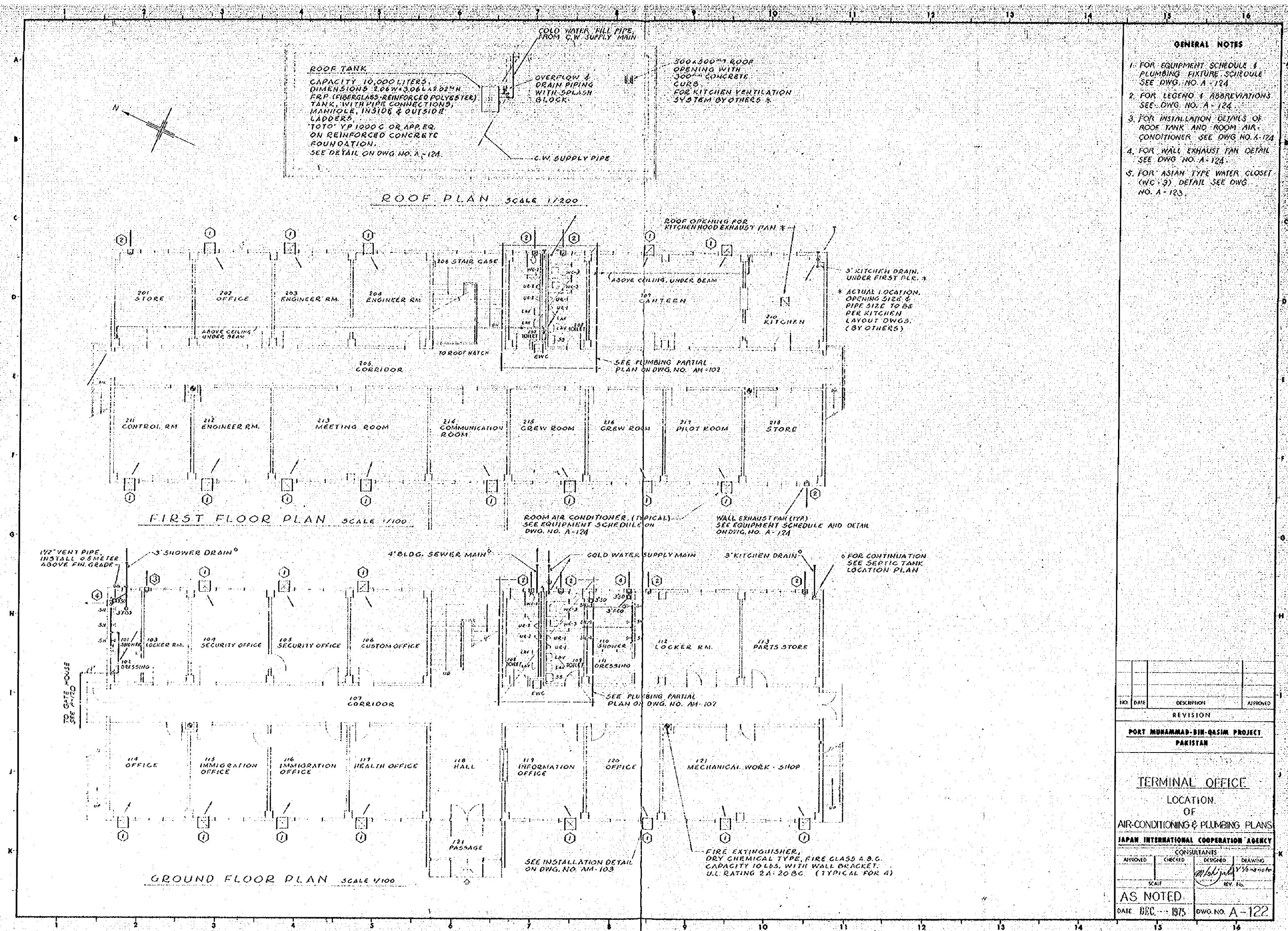
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| NO. | DATE | DESCRIPTION | APPROVED |
| REVISION | | | |
| PORT MUHAMMAD-BIN-QASIM PROJECT | | | |
| PAKISTAN | | | |
| TERMINAL OFFICE | | | |
| LOCATION OF | | | |
| SEWER MANHOLE DETAILS | | | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | | |
| CONSULTANTS | | DESIGNED | |
| APPROVED | CHECKED | DESIGNED | DRAWING |
| SCALE | | REV. NO. | |
| AS NOTED | | REV. NO. | |
| DATE DEC. 1975 | | DWG. NO. A-120 | |

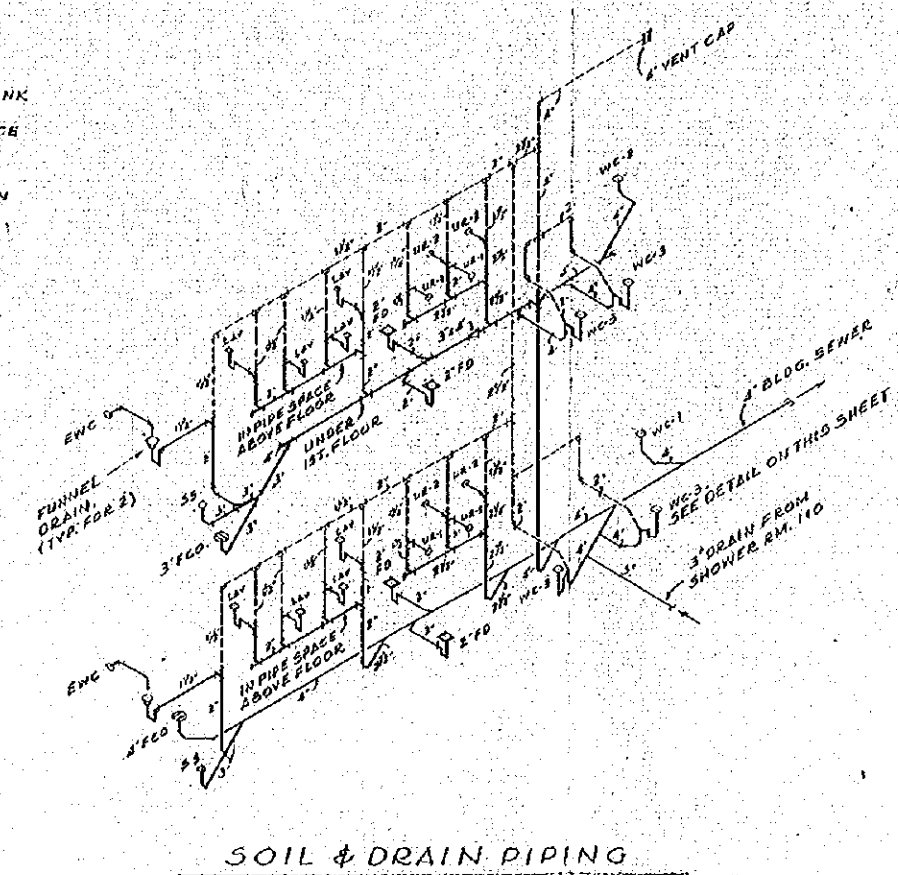
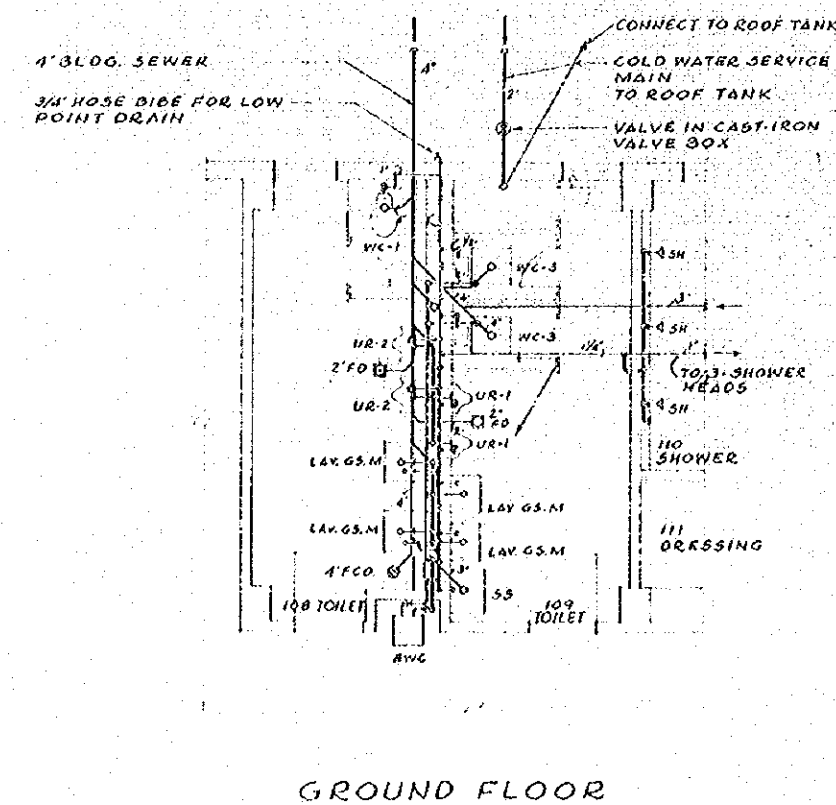
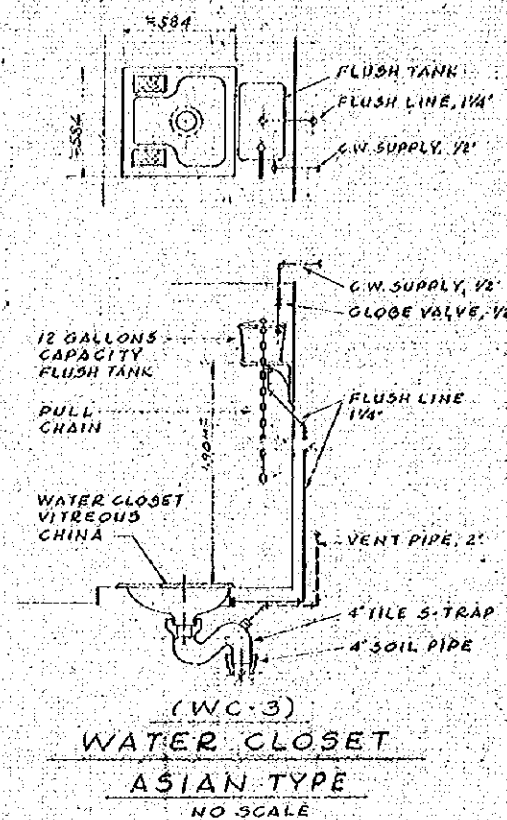
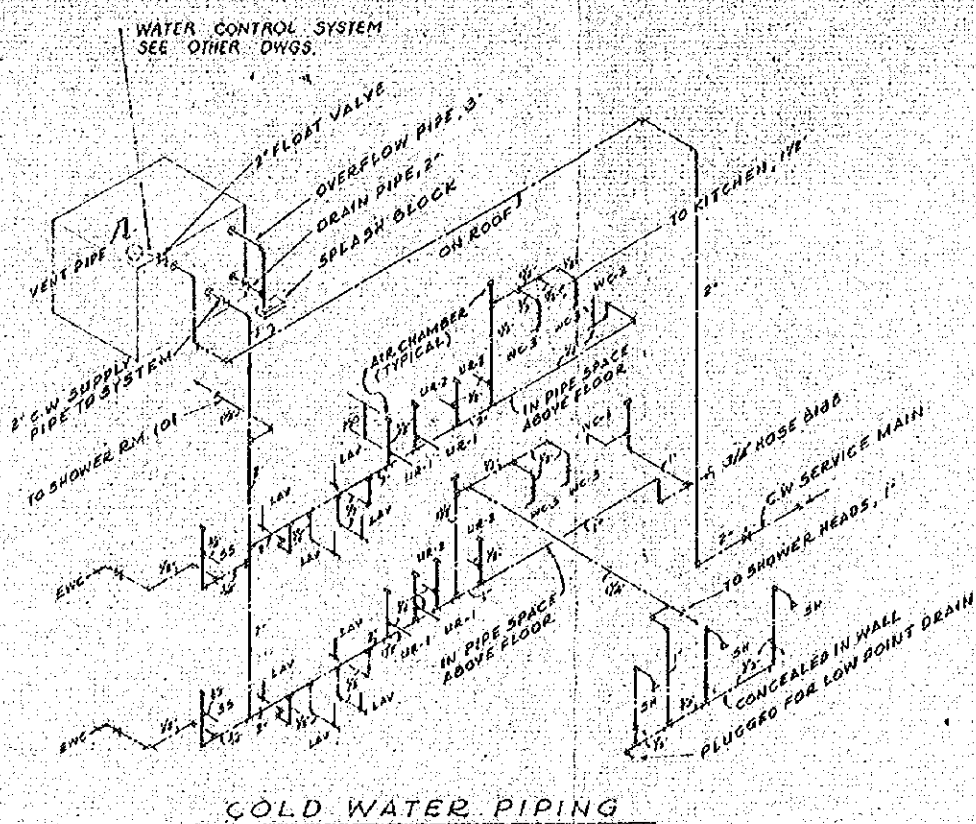
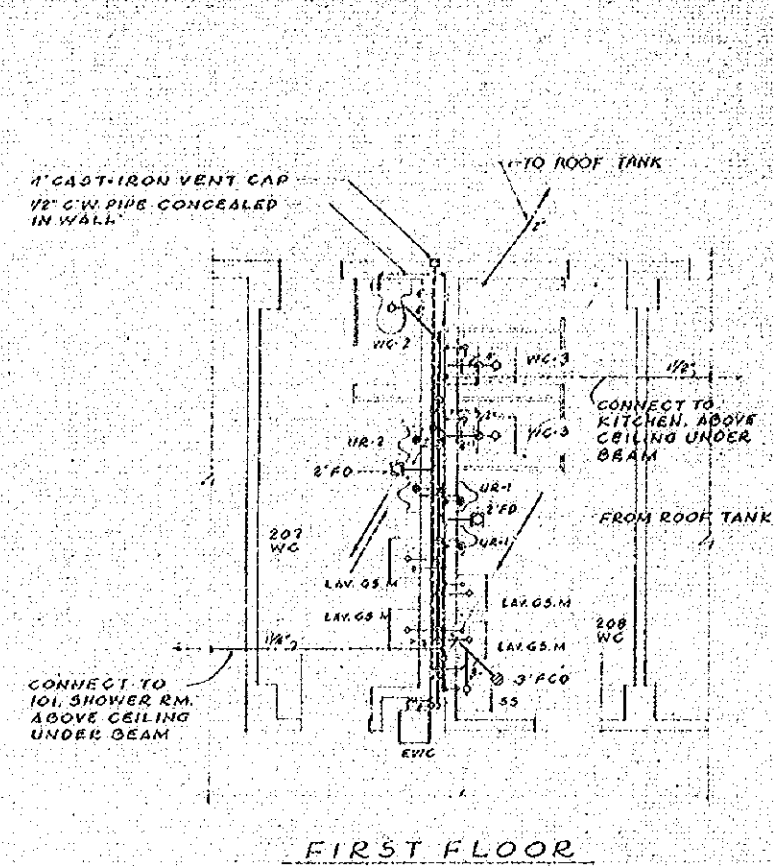


GENERAL NOTES

- AIR BLOWER
Φ 50MM 0.5M³/MIN 0.3KW/H
22 KW - 2 SETS FLB - NO. 2
- EQUALIZING PUMP
Φ 65MM 0.35M³/MIN 40M
15 KW - 2 SETS SF - 22
- FOAM BREAKING PUMP
Φ 40MM 0.18M³/MIN 2.5M
0.75 KW - 1 SET A-250-21A
- SLUDGE PUMP
Φ 50MM 0.24M³/MIN 35M
0.4 KW - 2 SETS OSA-400-21

| NO. | DATE | DESCRIPTION | APPROVED |
|--|----------|-------------|----------|
| REVISION | | | |
| PORT MUHAMMAD-BIN-QASIM PROJECT | | | |
| PAKISTAN | | | |
| TERMINAL OFFICE | | | |
| LOCATION | | | |
| SEPTIC TANK DETAILS | | | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | | |
| CONSULTANTS | | | |
| APPROVED | CHECKED | DESIGNED | DRAWING |
| SCALE | REV. NO. | | |
| AS NOTED | | | |
| DATE DEC - 1975 DWG. NO. A-121 | | | |



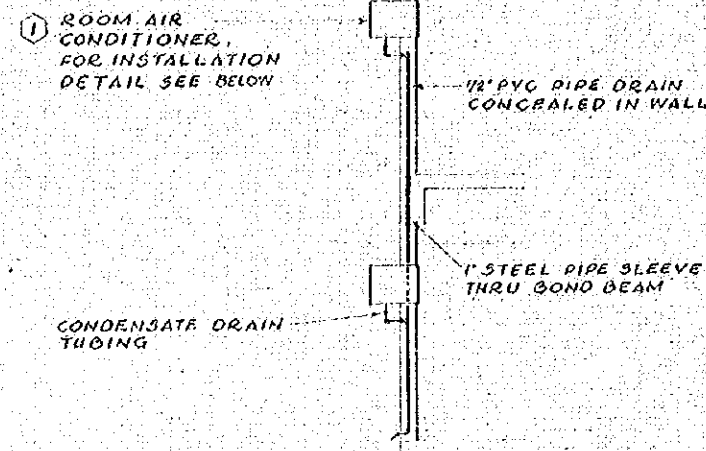


- ### LEGEND & ABBREVIATIONS
- | | |
|---------|--------------------------|
| ---- | COLD WATER SUPPLY PIPE |
| ---- | SOIL, WASTE & DRAIN PIPE |
| ---- | VENT PIPE |
| ---- | DIRECTION OF FLOW |
| 1"=1' | FLOOR DRAIN |
| 1/2"=1' | SHOWER DRAIN |
| 1/4"=1' | FLOOR CLEANOUT |
| 1/8"=1' | GATE VALVE |
| WC | WATER CLOSET |
| UR | URINAL |
| LAV | LAVATORY |
| SS | SERVICE SINK |
| SH | SHOWER |
| ENG | ELECTRIC WATER COOLER |

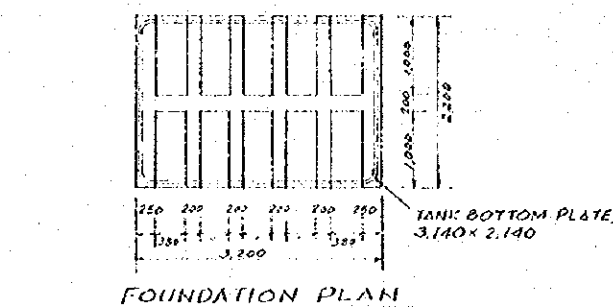
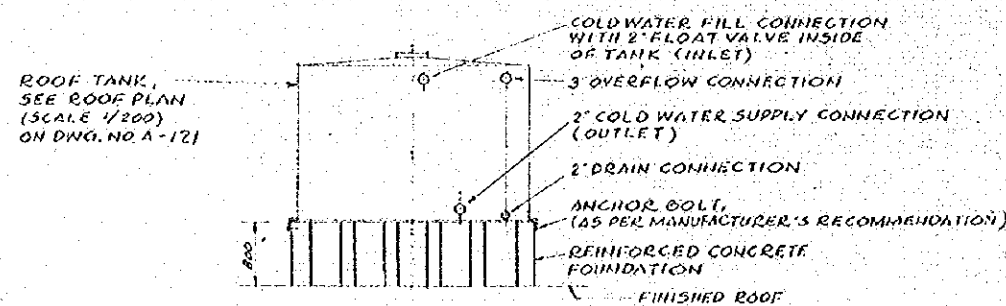
PARTIAL PLANS - PLUMBING
SCALE 1/50

ISOMETRIC PIPING DIAGRAMS
NO SCALE

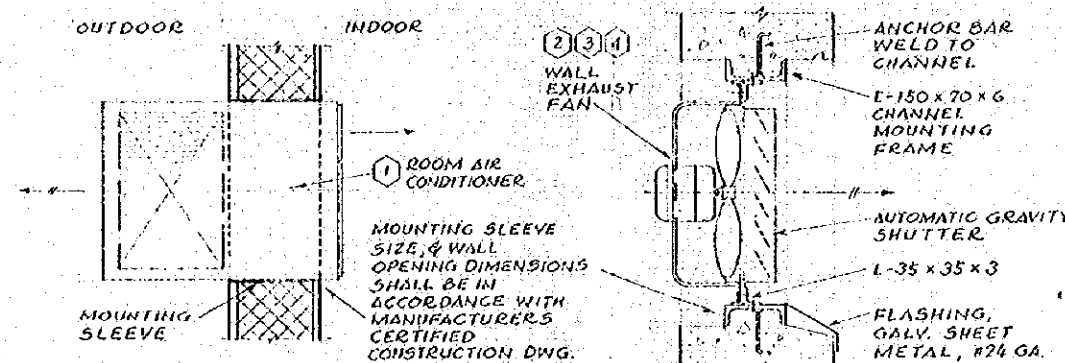
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|---|---------|--------------------|-------------------|
| <h1 style="text-align: center;">TERMINAL OFFICE</h1> | | | |
| <h2 style="text-align: center;">LOCATION OF</h2> | | | |
| <h3 style="text-align: center;">PLUMBING PLAN & PIPING DIAGRAMS</h3> | | | |
| <h4 style="text-align: center;">JAPAN INTERNATIONAL COOPERATION AGENCY</h4> | | | |
| <h4 style="text-align: center;">CONSULTANTS</h4> | | | |
| APPROVED | CHECKED | DESIGNED | DRAWN BY |
| | | <i>[Signature]</i> | <i>Y. Matsuno</i> |
| SCALE | | REV. No. | |
| 1 : 50 | | | |
| DATE DEC - 1975 | | DWG. NO. A-123 | |



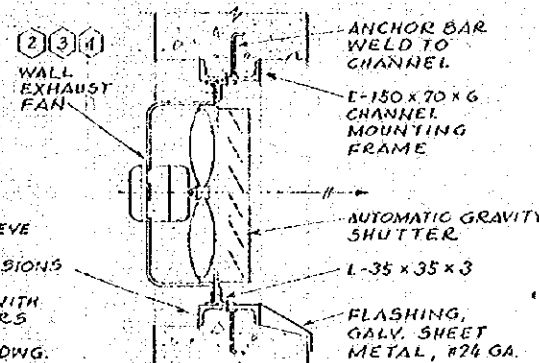
CONDENSATE DRAIN INSTALLATION DETAIL
NO SCALE



ROOF TANK INSTALLATION DETAIL
NO SCALE



ROOM AIR CONDITIONER
INSTALLATION DETAIL
NO SCALE



WALL EXHAUST FAN
TYPICAL INSTALLATION DETAIL
NO SCALE

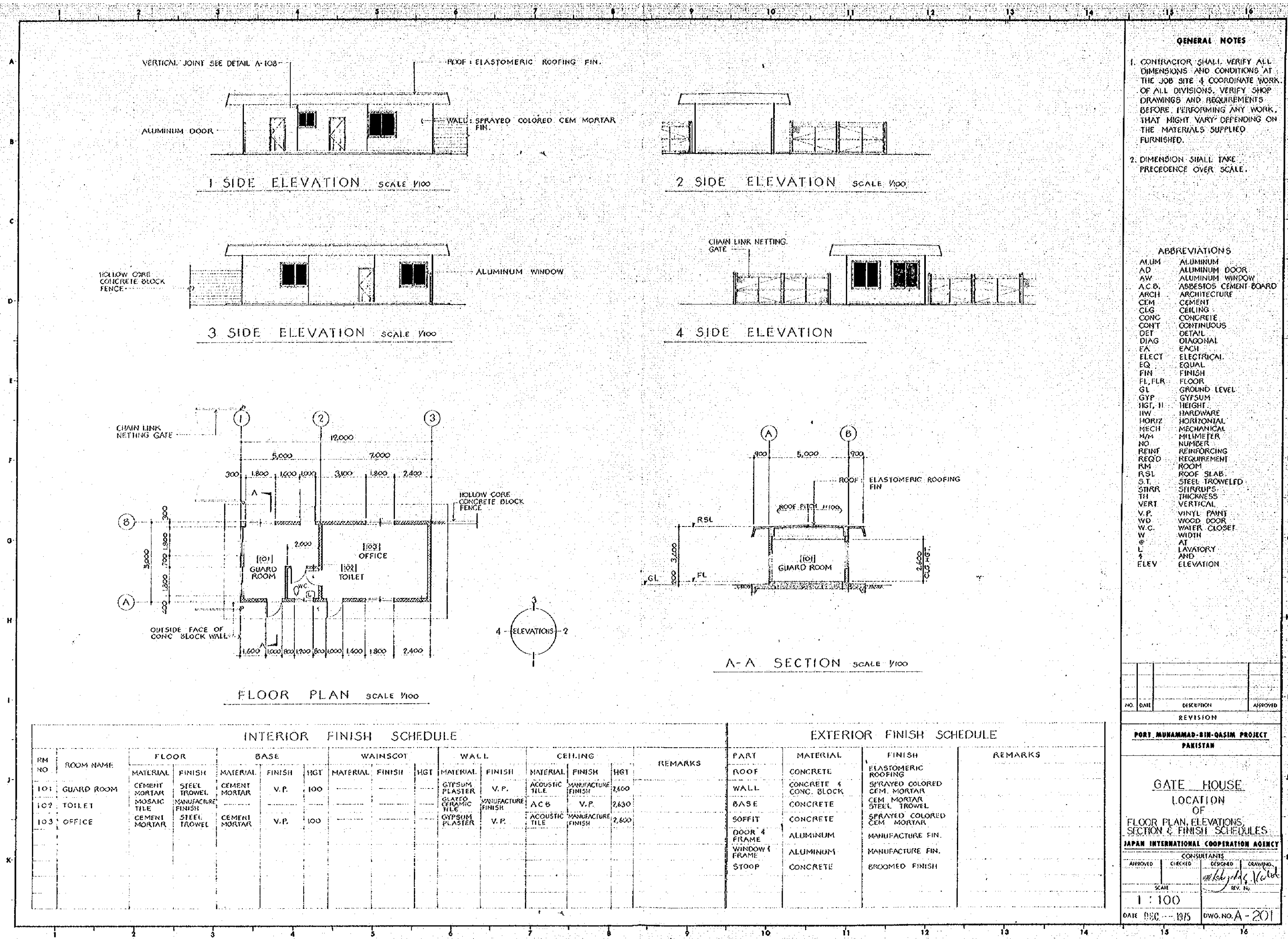
| EQUIPMENT SCHEDULE | | |
|--------------------|--|-----|
| SYM | DESCRIPTION AND ACCEPTABLE MANUFACTURER | QTY |
| ① | ROOM AIR CONDITIONER WALL MOUNTED, SELF-CONTAINED, COOLING CAPACITY 3,390 KCAL/HK OR 1.75 REF. TONS, FAN CAPACITY 12.7 CMM/AIR THRU 15.2 METER, 2.9 LITERS PER HOUR MOISTURE REMOVAL, 16.5 AMPS, 19-220V-50HZ UNIT DIMENSIONS 470H X 670W X 630MM D, WEIGHT 82 KILOS, CARRIER COSMOPOLITAN 400, MODEL 81FA 3217 OR APPROVED EQUAL | 2A |
| ② | WALL EXHAUST FAN NO.1 WALL MOUNTED, DIRECT DRIVEN, PROPELLER FAN, WITH GRAVITY SHUTTERS, RATED CAPACITY 16.0 CMM, 41.0 WATTS, 14-220V-50HZ, 4-POLES, 250MM FAN DIA, KURITA VENTILATING FAN MODEL VF-10, OR APP. EQ. | 8 |
| ③ | WALL EXHAUST FAN NO.2 SAME AS EXHAUST FAN NO.1 EXCEPT RATED CAPACITY 6.0 CMM, 31.0 WATTS, 14-220V-50HZ, 4-POLES, 200MM FAN DIA, KURITA VENTILATING FAN MODEL VF-8, OR APP. EQ. | 1 |
| ④ | WALL EXHAUST FAN NO.3 FOR SHOWER ROOMS, SAME AS EXHAUST FAN NO.1 EXCEPT MOISTURE-PROOF TYPE AND CAPACITY 12.0 CMM, 35.0 WATTS, 14-220V-50HZ, 4-POLES, 250MM FAN DIA, KURITA VENTILATING FAN MODEL WPV-10, OR APP. EQ. | 2 |

NOTES:
1. WHERE EQUIPMENT OF ONE MANUFACTURE IS SPECIFIED APPROVED EQUAL EQUIPMENT OF ANOTHER MAY BE SUPPLIED.
2. ALL EQUIPMENT HORSE POWERS INDICATED ON SCHEDULE ARE APPROXIMATE ACTUAL REQUIRED HORSE POWER TO BE AS RECOMMENDED BY MANUFACTURERS.

| PLUMBING FIXTURE SCHEDULE | | |
|---------------------------|---|-----|
| SYM | DESCRIPTION AND ACCEPTABLE MANUFACTURER | QTY |
| WC-1 | WATER CLOSET NO.1 VITREOUS-CHINA, FLUSH VALVE, SIPHONIC WASH DOWN, WITH SUPPLY & WASTE TRIM ASSEMBLY AND PAPER HOLDER, 'TOTO' C-21 OR APPROVED EQUAL | 1 |
| WC-2 | WATER CLOSET NO.2 SAME AS WC-1 EXCEPT FLUSH VALVE BUT WITH FLUSH TANK 'TOTO' C-21 OR APP. EQ. | 1 |
| WC-3 | WATER CLOSET NO.3 VITREOUS-CHINA, ASIAN TYPE, WITH FLUSH TANK SUPPLY & WASTE TRIM ASSEMBLY AND PAPER HOLDER, SEE DETAIL ON DWG. NO. AM-102 | 2 |
| UR-1 | URINAL NO.1 VITREOUS-CHINA, WALL HUNG, INTEGRAL TRAP WITH FLUSH VALVE, SUPPLY & WASTE TRIM ASSEMBLY, 'TOTO' U-29 OR APP. EQ. | 4 |
| UR-2 | URINAL NO.2 SAME AS UR-1 BUT MODEL 'TOTO' U-37 OR APP. EQ. | 1 |
| LAV | LAVATORY VITREOUS-CHINA, FLAT TOP WITH ANTI-SPLASH COLD WATER SUPPLY ONLY, SUPPLY & WASTE TRIM ASSEMBLY, SIZE 534 X 432MM, 'TOTO' L-220D OR APP. EQ. | 8 |
| SS | SERVICE SINK VITREOUS-CHINA, ON 'S' TYPE TRAP, COLD WATER SUPPLY ONLY, WITH SUPPLY & WASTE TRIM ASS'Y 'TOTO' SK-22A OR APP. EQ. | 2 |
| SH | SHOWER CONCEALED TYPE, COLD WATER SUPPLY ONLY, 'TOTO' TS-210 LY OR APP. EQ. | 9 |
| GS | METAL SHELF 457 X 127MM 'TOTO' TS-121B1 OR APP. EQ. | 8 |
| M | MIRROR 455 X 608MM - 5MM THICK 'TOTO' TS-119A55, OR APP. EQ. | 8 |
| EWG | ELECTRIC WATER COOLER BUBBLER TYPE, AIR-COOLED CONDENSER, FREE-STANDING, WITH FLOW REGULATOR & GLASS FILLER, TANK CAPACITY 2.6 LITERS, COMPRESSOR 150 WATTS & FAN 2.5 WATTS, 14-220V-50HZ, MITSUBISHI DENKI K.K. WP-3000 OR APP. EQ. | 2 |

GENERAL NOTES

| | | | |
|--|---------|----------------|----------|
| NO. | DATE | DESCRIPTION | APPROVED |
| REVISION | | | |
| PORT MUHAMMAD-BIN-QASIM PROJECT PAKISTAN | | | |
| TERMINAL OFFICE LOCATION OF EQUIPMENT SCHEDULES | | | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | | |
| ASSIGNED | CHECKED | DESIGNED | DRAWING |
| | | | |
| SCALE | | | |
| AS NOTED | | | |
| DATE DEC-1975 | | DWG. NO. A-124 | |



GENERAL NOTES

- 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE & COORDINATE WORK OF ALL DIVISIONS. VERIFY SHOP DRAWINGS AND REQUIREMENTS BEFORE PERFORMING ANY WORK THAT MIGHT VARY DEPENDING ON THE MATERIALS SUPPLIED FURNISHED.
- 2. DIMENSION SHALL TAKE PRECEDENCE OVER SCALE.

ABBREVIATIONS

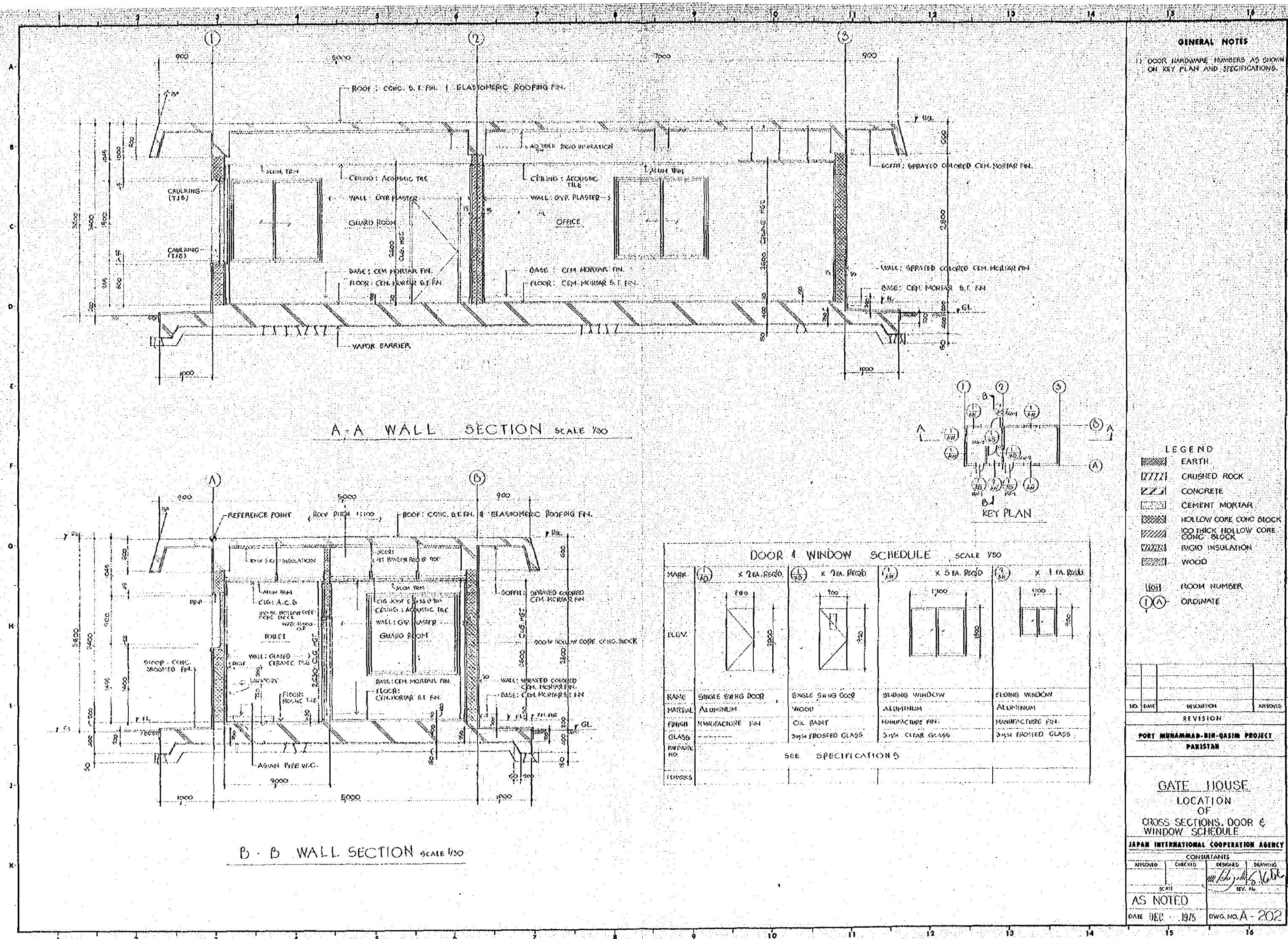
| | |
|---------|-----------------------|
| ALUM | ALUMINUM |
| AD | ALUMINUM DOOR |
| AW | ALUMINUM WINDOW |
| ACB | ASBESTOS CEMENT BOARD |
| ARCH | ARCHITECTURE |
| CEM | CEMENT |
| CLG | CEILING |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| DET | DETAIL |
| DIAG | DIAAGONAL |
| EACH | EACH |
| ELECT | ELECTRICAL |
| EQ | EQUAL |
| FIN | FINISH |
| FL, FLR | FLOOR |
| GL | GROUND LEVEL |
| GYP | GYPSUM |
| HGT, H | HEIGHT |
| HW | HARDWARE |
| HORIZ | HORIZONTAL |
| MECH | MECHANICAL |
| MM | MILLIMETER |
| NO | NUMBER |
| REIN | REINFORCING |
| REQD | REQUIREMENT |
| RM | ROOM |
| RSL | ROOF SLAB |
| S.T. | STEEL TROWEL |
| STRIP | STRIPS |
| TH | THICKNESS |
| VERT | VERTICAL |
| V.P. | VINYL PAINT |
| WD | WOOD DOOR |
| W.C. | WATER CLOSET |
| W | WIDTH |
| AT | AT |
| L | LAVATORY |
| ELEV | ELEVATION |

| NO. | DATE | DESCRIPTION | APPROVED |
|-----|------|-------------|----------|
| | | | |

REVISION
PORT MUHAMMAD-BIN-QASIM PROJECT
PAKISTAN

GATE HOUSE
LOCATION
OF
FLOOR PLAN, ELEVATIONS,
SECTION & FINISH SCHEDULES
JAPAN INTERNATIONAL COOPERATION AGENCY

| CONSULTANTS | | | |
|---------------|---------|----------------|---------|
| APPROVED | CHECKED | DESIGNED | DRAWING |
| | | | |
| SCALE | | | |
| 1 : 100 | | | |
| DATE DEC 1975 | | DWG. NO. A-201 | |



REVISION

| NO. | DATE | DESCRIPTION | APPROVED |
|-----|------|-------------|----------|
| | | | |

PORT MUHAMMAD-BIN-QASIM PROJECT
PANISTAN

GATE HOUSE
LOCATION
OF
CROSS SECTIONS, DOOR & WINDOW SCHEDULE

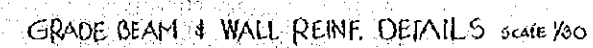
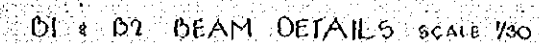
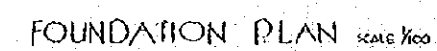
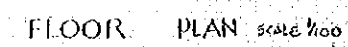
JAPAN INTERNATIONAL COOPERATION AGENCY

CONSULTANTS

| APPROVED | CHECKED | DESIGNED | DRAWING |
|----------|---------|----------|---------|
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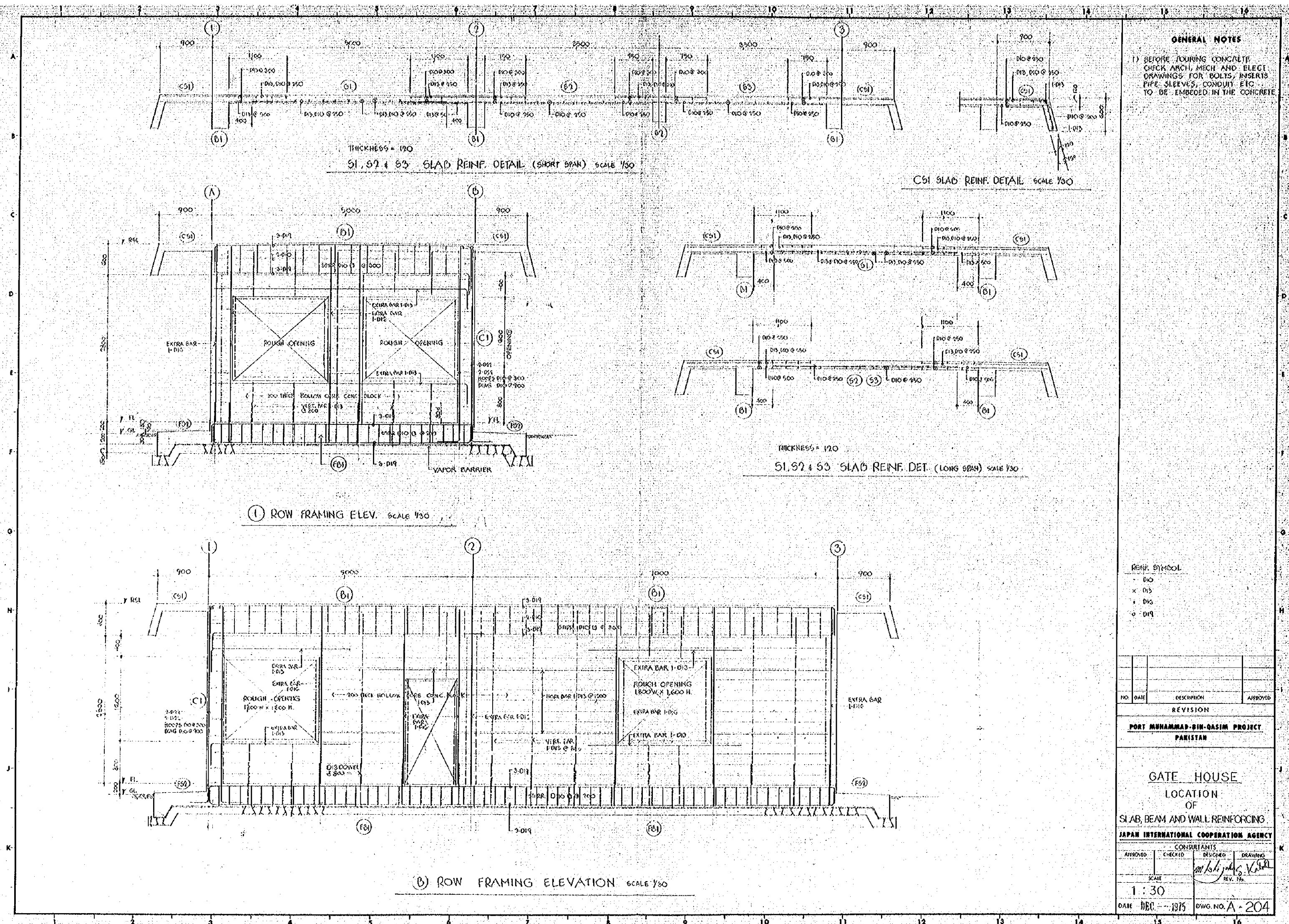
SCALE
AS NOTED

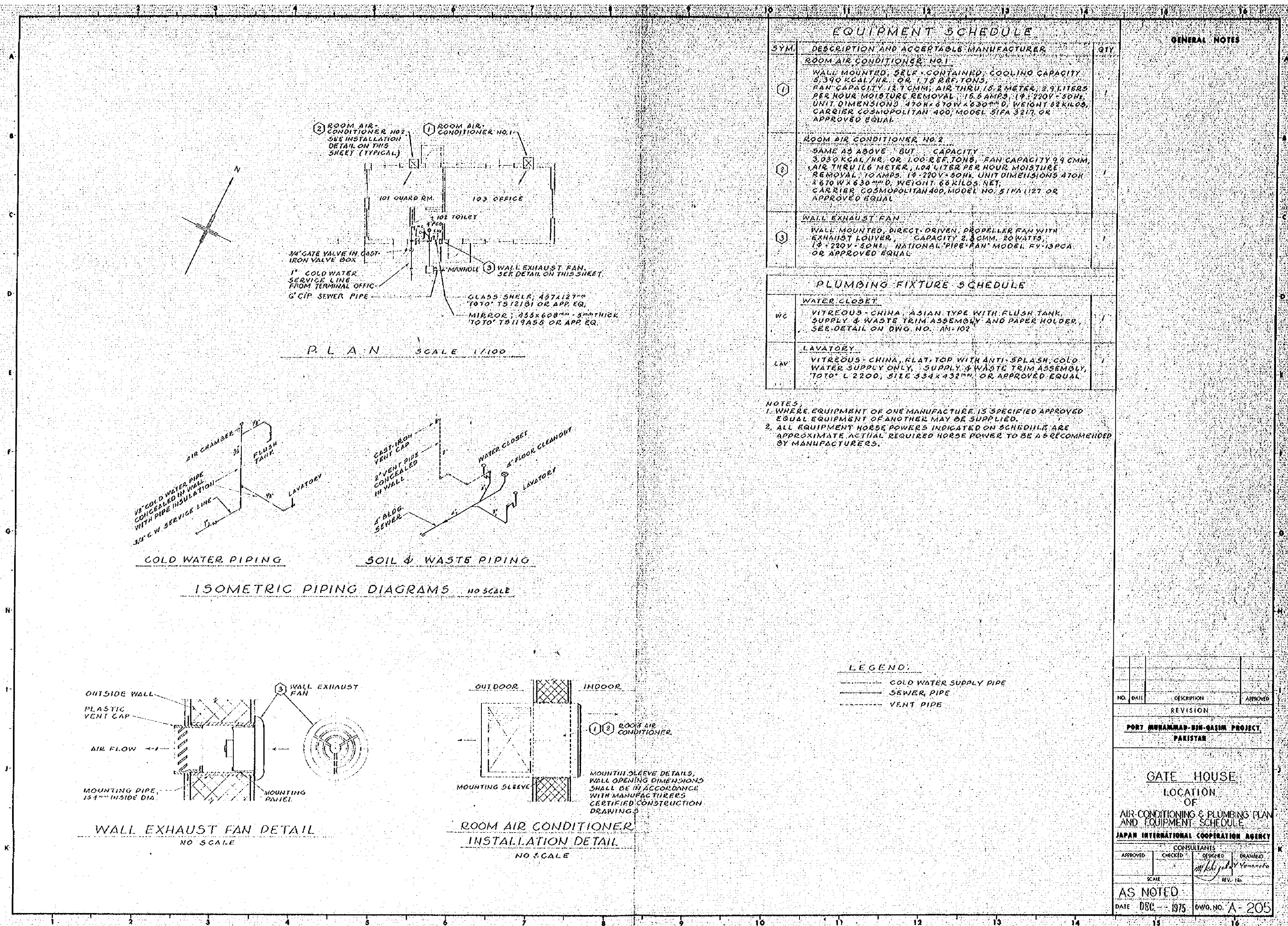
DATE DEC - 1975 **DWG. NO.** A-202



| PERF BAR SYMBOL | |
|-----------------|----|
| 0 | D0 |
| 1 | D1 |
| 2 | D2 |
| 3 | D3 |
| 4 | D4 |

| | | | |
|---|---------|------------------|-----------------|
| | | | |
| NO. | DATE | DESCRIPTION | APPROVED |
| REVISION | | | |
| PORT MUHAMMAD-BIN-QASIM PROJECT PAKISTAN | | | |
| <u>GATE HOUSE</u> <u>LOCATION</u> <u>OF</u> <u>FOUNDATION, FLOOR & ROOF PLANS</u> <u>AND BEAM WALL SLAB REINFORCING</u> | | | |
| JAPAN INTERNATIONAL COOPERATION AGENCY CONSULTANTS | | | |
| APPROVED | CHECKED | DESIGNED | DRAWING |
| | | <i>m. Ishida</i> | <i>g. Vahid</i> |
| SCALE | | REV. NO. | |
| AS SHOWN DATE DEC. ... 1975 | | DWG. NO. A-203 | |





| NO. | DATE | DESCRIPTION | APPROVED |
|--|----------|----------------|----------|
| REVISION | | | |
| PORT MUHAMMAD-BIN-QASIM PROJECT PAKISTAN | | | |
| GATE HOUSE LOCATION OF AIR-CONDITIONING & PLUMBING PLAN AND EQUIPMENT SCHEDULE | | | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | | |
| APPROVED | CHECKED | DESIGNED | DRAWN |
| SCALE | REV. NO. | | |
| AS NOTED | | | |
| DATE DEC - 1975 | | DWG. NO. A-205 | |

