











GENERAL CONSTRUCTION NOTES

GENERAL NOTES

- 1. IN THE INTERPRETATION OF THE DRAWING, INDICATED DIMENSION SHALL GOVERN AND DISTANCES AND SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- 2. IN PREFERENCE TO OTHER DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR DEPRESSIONS IN FLOOR SLABS, OPENINGS IN THE WALLS AND SLABS, INTERIOR PARTITIONS, LOCATION OF
- 3. IN CASE OF DISCREPANCIES AS TO LAYOUT, DIMENSIONS, AND ELEVATIONS BETWEEN THE STRUCTURAL PLANS, AND ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY BOTH THE STRUCTURAL ENGINEER AND THE ARCHITECT
- 4. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE ACI.318 95 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK ACCORDING TO AISC SPECIFICATION (9TH EDITION) IN SO FAR AS THEY DO NOT CONFLICT
- 5. ACL REFERS TO AMERICAN CONCRETE INSTITUTE, AISC TO AMERICAN INSTITUTE OF STEEL
- 6. CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED, MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
- 7. SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS MISCELLANEOUS IRON, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEERS
- 8. CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENTS AND MECHANICAL BASIS THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
- 9. ALL RESULTS OF MATERIAL TESTING FOR CONCRETE, REINFORCING BARS, & STRUCTURAL STEEL MUST BE NOTED & APPROVED BY THE STRUCTURAL ENGINEER.

NOTES ON REINFORCEMENTS

1. UNIESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF THE REINFORCING BARS SHALL BE:

A. FOOTINGS, FOOTING BEAMS AND GIRDERS fy = 275 MPa (40,000 psi)B. COLUMNS AND SHEAR WALLS fy = 275 MPa (40,000 psi)C. BEAMS AND GIRDER = 275 MPa (40,000 psi) D. NON-LOAD BEARING WALL PARTITIONS, BEDDED SLABS, FLOOR & ROOF SLABS, PARAPETS, CATCH BASIN, SIDE WALK fy = 227.5 MPa (33,000 psi)

2. ALL REINFORCING BAR SIZE 10MM OR LARGER SHALL BE DEFORMED IN ACCORDANCE WITH ASTM A 706. BARS SMALLER THAN 10mm MAY BE PLAIN.

3. SPLICES SHALL BE SECURELY WIRED TOGETHER AND SHALL BE STAGGERED WHEREVER

NOTES ON COLUMNS

- 1. PROVIDE EXTRA SETS OF TIES AT 100mm O.C. FOR TIED COLUMN AND REINFORCEMENT ABOVE AND BELOW BEAM COLUMN CONNECTIONS FOR A DISTANCE FROM FACE OF CONNECTION EQUAL TO THE GREATER OF THE OVERALL THICKNESS OF COLUMN, & THE CLEAR
- 2. COLUMN TIES SHALL BE PROTECTED EVERYWHERE BY A COVERING CONCRETE CAST MONOLITHICALLY WITH THE CORE WITH THE MINIMUM THICKNESS OF 40mm AND NOT LESS THAN 40 TIMES THE MAXIMUM SIZE OF COARSE AGGREGATE IN MILIMETERS.
- 3. UNLESS OTHERWISE IN THE PLANS, LAP SPLICES FOR VERTICAL COLUMN REINFORCEMENT SHALL BE MADE WITHIN THE CENTER HALF OF COLUMN HEIGHT, AND THE SPLICE LENGTH SHALL NOT BE LESS THAN 40 BAR DIAMETERS. WELDING OR APPROVED MECHANICAL DEVICES MAY BE USED PROVIDED THAT NOT MORE THAN ALTERNATE BARS ARE WELDED OR MECHANICALLY SPLICED AT ANY LEVEL AND THE VERTICAL DISTANCES BETWEEN THESE WELDS OR SPLICES OF ADJACENT BARS IS NOT LESS THAN 600mm.

NOTES ON BEAMS AND GIRDERS

- 1. IF THE BEAM REINFORCING BARS END IN A WALL THE CLEAR DISTANCE FROM THE BAR TO THE FARTHER FACE OF THE WALL NOT BE LESS THAN 25mm. TOP BAR SHALL NOT BE SPLICED WITHIN THE COLUMN OR WITHIN A DISTANCE TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. AT LEAST TWO STIRRUPS SHALL BE PROVIDED AT ALL SPLICES.
- WHEN A REAM CROSSES A GIRDER, REST BEAM ON TOP OF GIRDER BARS, BEAM REINFORCING BAR SHALL SYMMETRICAL ABOUT CENTER LINE WHENEVER POSSIBLE.
- 3. GENERALLY NO SPLICES SHALL BE PERMITTED AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR. WELDED SPLICES SHALL DEVELOP IN TENSION AT LEAST 125 % OF THE SPECIFIED YIELDS STRENGTH OF THE BAR NOT MORE THAN 50 % OF THE BARS AT ANY ONE SECTION IS ALLOWED TO BE SPLICED THEREIN.

NOTES ON FOOTING

- 1. FOOTING ARE DESIGNED BASED ON SITE ALLOWABLE BEARING CAPACITY.
- 2. FOOTING SHALL REST AT LEAST 1200mm BELOW NATURAL GRADE LINE UNLESS OTHERWISE INDICATED IN PLANS. NO FOOTING SHALL REST ON FILL.
- MINIMUM CONCRETE PROTECTION FOR REINFORCEMENTS SHALL BE 75mm CLEAR FOR CONCRETE DEPOSITED THE GROUND AND 50mm FOR CONCRETE DEPOSITED AGAINST A

NOTES ON CONCRETE MIXES & PLACING

1. ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS WITH CORRESPONDING MINIMUM SIZES AGGREGATE & SLUMPS AS FOLLOWS.

| LOCATION | 28 DAYS | STRENG | TH | MAX. SIZES OF AGGREGATE | MAX. SLUMP |
|---|---------|----------|------------|-------------------------|------------------------------|
| ALL OTHERS, INCLUDING SUSPENDED SLABS, | 4000 PS | (27.6 M | IPa) | 20mm | 100mm |
| COLUMN | 4000 PS | (27.6 M | IPa) | 20mm | 100mm |
| BEAMS, SLABS | 4000 PS | (27.6 M | IPa) | 20mm | 100mm |
| SLAB ON FILL | 3000 PS | (20.7 M | IPa) | 20mm | 100mm |
| 2. MAINTAIN A MINIMUM CONCRI SUSPENDED SLABS SLAB ON GRADE WALLS ABOVE GRADE BEAM STIRRUPS AND COLUMN T WHERE TO CONCRETE IS EXPOS | TIES | R FOR RE | EINFORCING | STEEL AS FOLLOWS | 20mm 40mm 25mm 40mm |
| EARTH BUT POURED AGAINST FO | ORMS | | | | 50mm |
| WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST FARTH |) | | | | 75mm |

- 3. CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION. RE-HANDLING OR PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKETS OR WHEELBARROWS, NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEELBARROWS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED SIX (6) METERS IN
- NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE DESIGNERS AND ONLY FOR UNUSUAL CONDITION WHERE
- 5. ALL ANCHOR BOLTS, DOWELS AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
- 6. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.

7. STRIPPING OF FORMS AND SHORES: FOUNDATION SUSPENDED SLAB EXCEPT WHEN 24 HRS 8 DAYS ADDITIONAL LOADS ARE IMPOSED **BFAMS** 14 DAYS

8. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADFOUATE FORMS AND SHORING UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH

APPROVED BY

NOTES ON CONCRETE HOLLOW BLOCK WALLS

1. UNLESS OTHERWISE SHOWN IN PLANS ALL CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCKS SHALL BE REINFORCED AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCK REINFORCEMENT.

| SCHEDULE | OF CO | ONCRETE | E H(| OLLOW | В | BLOCK | ANE | D BLOCK REINFORCEMENT | |
|-----------------|----------------------|---------|------|----------|---|-------|-------|---|--|
| BLOCK THICKNESS | STEEL REINFORCEMENTS | | | | | | NOTES | | |
| BLOCK THICKNESS | HORIZONTAL | | | VERTICAL | | | | A. MINIMUM LAPS SPLICE = 0.25m | |
| . 125 mm | 10mmø | @ 600mm | 0.C. | 12mmø | 0 | 600mm | 0.C. | B. PROVIDE RIGHT ANGLED REINFORCEMENT AT CORNERS 0.92M LONG | |
| 150 mm | 10mmø | @ 600mm | 0.C. | 12mmø | 0 | 600mm | 0.C. | C. WHERE CHB OR CER. BLK. WALL DOWELS JOIN COL. R.C. BEAMS AND | |
| 200 mm | 10mmø | @ 600mm | 0.C. | 12mmø | 0 | 600mm | 0.C. | WALL DOWELS WITH THE SAME SIZE A VERT. OR HOR. REINFORCEMENTS SHA BE PROVIDED | |

| TABLE OF | TABLE OF LAP SPLICE & ANCHORAGE LENGTH | | | | | | |
|-----------|--|-----------|------------|--|--|--|--|
| BAR SIZES | LAP SPLIC | ANCHORAGE | | | | | |
| (MM) | TYPE "A" | TYPE "B" | LENGTH (M) | | | | |
| Ø10 | 0.40 | 0.30 | 0.60 | | | | |
| ø12 | 0.45 | 0.35 | 0.60 | | | | |
| ø16 | 0.61 | 0.40 | 0.60 | | | | |
| ø20 | 0.76 | 0.56 | 0.60 | | | | |
| ø25 | 1.10 | 0.90 | 0.68 | | | | |
| ø28 | 1.40 | 1.20 | 0.86 | | | | |
| ø32 | 1.90 | 1.40 | 1.12 | | | | |
| ø36 | 2.41 | 1.84 | 1.43 | | | | |

NOTES:

- 1. TYPE "A" BUNDLED BARS
- TYPE "B" INDIVIDUAL BARS
- 2. NOT MORE THAN 33% OF THE BARS SHALL BE SPLICED WITHIN THE REQUIRED LAP LENGTH

NOTES ON WELDS

- 1. WELDING ELECTRODES SHALL CONFORM TO AWS A-5.1 OR 5.5; E70 ELECTRODES.
- 2. WELDS SHALL DEVELOP THE FULL STRENGTH OF MEMBERS JOINED UNLESS OTHERWISE SHOWN OR DETAILED IN THE DRAWINGS.

NOTES ON STRUCTURAL STEEL

- 1. STRUCTURAL STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISION OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION
- 2. ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS

SHEET CONTENT:

GENERAL CONSTRUCTION



PROPOSED COVERED PARKING AT NORTH DOOR

LOCATION: SSS Main, East Aveneu, Quezon City

WENDELING V. COMBOY JR. VICE PRESIDENT, GENERAL SERVICES DIVISION AND

RECOMMENDING APPROVAL:

DORENDAM. DASMARINAS SENIOR VICE-PRESIDENT, ADMINISTRATION GROUP DESIGNED & DRAWN BY: Jymlee P. Pacala JO Enginee CHECKED BY Michael A. Saiyo - SSO V, CAT

ENGINEERING SECTION

REVIEWED BY: Stephen P. Yap - CEO IV. Eng'g Section ALL DRAWINGS MUST BE LL DISCREPANCIES SHOULD E REPORTED IMMEDIATELY O THE ARCHITECT AND ROJECT MANAGERS.

CONTRACTORS ARE T PREPARE AND SUBMIT SHO

JUNE 26, 2024

SHEET NO.

S-01

GINEERING AND FACILITIES MANAGEMENT DEPARTMENT

IT ACTING HEAD PROCUREMENT



