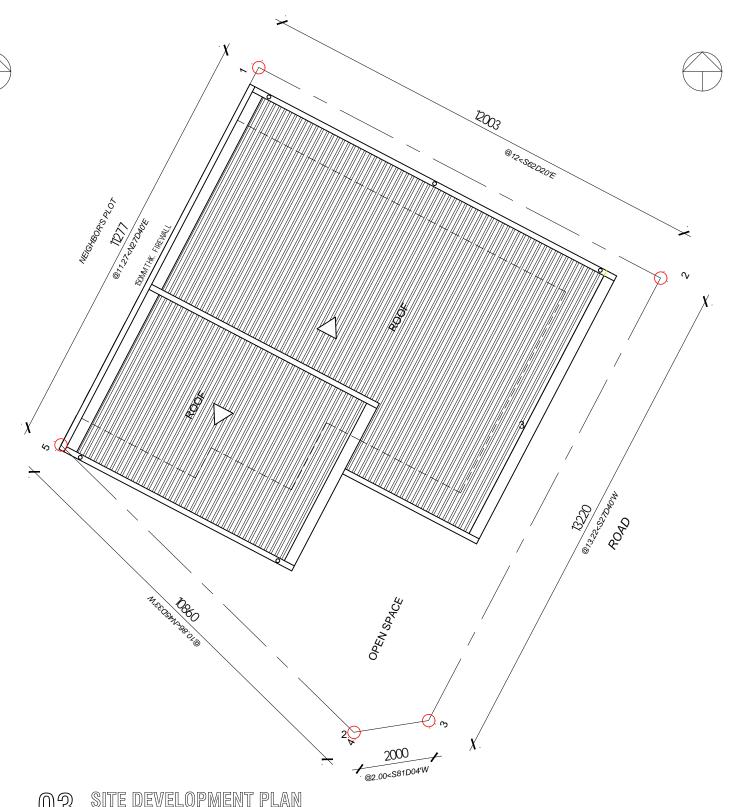


PERSPECTIVE SCALE: NTS



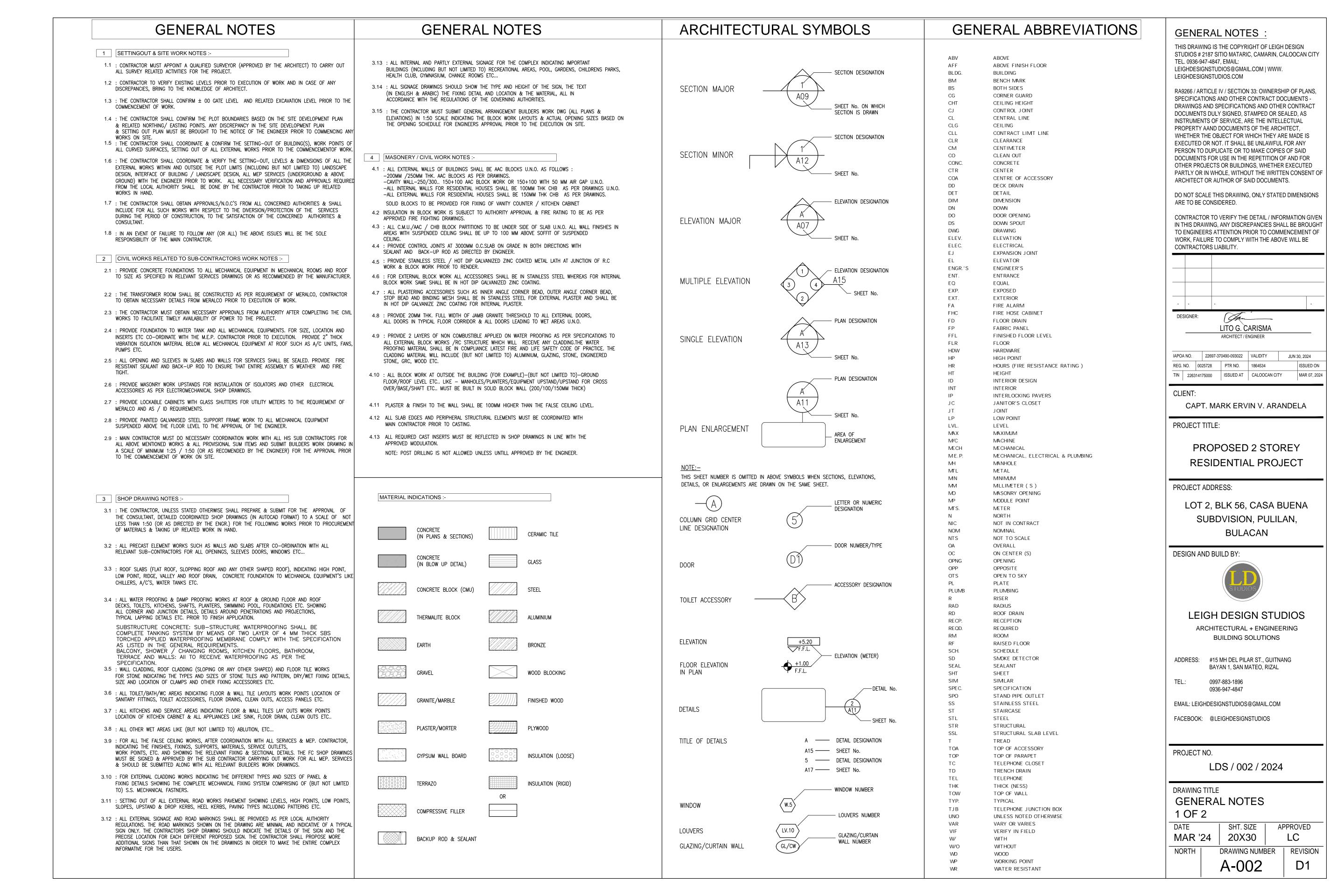


02 VIGINITY MAP

SCALE: NTS

SITE DEVELOPMENT PLAN
SCALE: NTS

#### REPUBLIC OF THE PHILIPPINES TABLE OF CONTENTS **GENERAL NOTES:** DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS OFFICE OF THE BUILDING OFFICIALS THIS DRAWING IS THE COPYRIGHT OF LEIGH DESIGN ARCHITECTURAL STUDIOS # 2187 SITIO MATARIC, CAMARIN, CALOOCAN CITY A-001 COVER SHEET TEL. 0936-947-4847, EMAIL: LEIGHDESIGNSTUDIOS@GMAIL.COM | WWW. A-002 GENERAL NOTES 1 OF 2 LEIGHDESIGNSTUDIOS.COM A-003 GENERAL NOTES 2 OF 2 A-100 FLOOR PLANS 1 OF 2 RA9266 / ARTICLE IV / SECTION 33: OWNERSHIP OF PLANS, SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS -A-101 FLOOR PLANS 2 OF 2 DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT CITY / DISTRICT / MUNICIPALITY A-102 FIRE LIFE AND SAFETY LAYOUT DOCUMENTS DULY SIGNED, STAMPED OR SEALED, AS INSTRUMENTS OF SERVICE, ARE THE INTELLECTUAL A-103 LIGHTING AND POWER LOCATIONS PROPERTY AAND DOCUMENTS OF THE ARCHITECT, A-200 ELEVATIONS WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS A-201 ELEVATIONS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID A-300 SECTIONS DOCUMENTS FOR USE IN THE REPETITION OF AND FOR A-501 BATHROOM DETAILS OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED A-502 STAIRCASE DETAILS PARTLY OR IN WHOLE, WITHOUT THE WRITTEN CONSENT OF ARCHITECT OR AUTHOR OF SAID DOCUMENTS. A-503 KITCHEN DETAILS A-600 SCHEDULE OF DOORS AND WINDOWS DO NOT SCALE THIS DRAWING, ONLY STATED DIMENSIONS ARE TO BE CONSIDERED. LAND USE & ZONING CONTRACTOR TO VERIFY THE DETAIL / INFORMATION GIVEN STRUCTURAL IN THIS DRAWING, ANY DISCREPANCIES SHALL BE BROUGHT TO ENGINEERS ATTENTION PRIOR TO COMMENCEMENT OF STR-1/2 CONSTRUCTION NOTES WORK, FAILURE TO COMPLY WITH THE ABOVE WILL BE STR-2/2 STRUCTURAL DETAILS CONTRACTORS LIABILITY. PLUMBING P-1/2 WATERLINE LAYOUT & SEPTIC TANK DETAIL P-2/2 SANITARY LAYOUT & ISOMETRIC VIEW **ELECTRICAL** E-1/2 VOLTAGE DROP / SHORT CIRCUIT CALCULATION DESIGNER: Jan LINE & GRADE E-2/2 LIGHTING AND POWER LAYOUT LITO G. CARISMA IAPOA NO. 22697-370490-093022 VALIDITY JUN 30, 2024 REG. NO. 0025728 PTR NO. 1864534 ISSUED ON TIN 226314175000 ISSUED AT CALOOCAN CITY MAR 07, 2024 CLIENT: CAPT. MARK ERVIN V. ARANDELA PROJECT TITLE: ARCHITECTURAL PROPOSED 2 STOREY RESIDENTIAL PROJECT PROJECT ADDRESS: LOT 2, BLK 56, CASA BUENA SUBDVISION, PULILAN, **BULACAN** STRUCTURAL DESIGN AND BUILD BY: LEIGH DESIGN STUDIOS ARCHITECTURAL + ENGINEERING BUILDING SOLUTIONS **SANITARY** ADDRESS: #15 MH DEL PILAR ST., GUITNANG BAYAN 1, SAN MATEO, RIZAL 0997-883-1896 0936-947-4847 EMAIL: LEIGHDESIGNSTUDIOS@GMAIL.COM FACEBOOK: @LEIGHDESIGNSTUDIOS ELECTRICAL PROJECT NO. LDS / 002 / 2024 DRAWING TITLE COVER SHEET / PERSPECTIVE SHT. SIZE APPROVED MAR '24 20X30 LC REVISION DRAWING NUMBER A-001 D1



#### **GENERAL NOTES**

- 5.1 : THE CONTRACTOR HAVE TO SUBMIT SAMPLES AND SHOP DRAWINGS WITH ALL NECESSARY DETAILS AND DESIGN INFORMATION FOR APPROVAL. THE SAMPLES SHALL INCLUDE (BUT NOT LIMITED TO) STONES, TILES, SANITORY WARE, TOILET FIXTURES, KITCHEN FIXTURES, FALSE CEILING & THEIR ACCESSORIES, ELECTRICAL SWITCHES & SOCKETS, LIGHT FIXTURES (INTERNAL & EXTERNAL), WOODEN / TIMBER JOINERY, GRC, SHADES, TEXTURES, FINISHES, CARPETS, GLAZINGS, SPORTS FLOORING, RAISED FLOORING, FLOOR DRAIN COVERS, WEATHER STRIPS, WINDOW / DOORS, LOUVERS, SPECIAL LOUVERS, PRE CAST ETC.
- 5.2 : ALL EXTERIOR SOFFITS OF SUSPENDED CEILINGS SHALL BE CONSTRUCTED WITH AIR TIGHT GALVANIZED METAL MEMBERS AND SHALL RESIST UPLIFTING WIND LOADS.
- 5.3 : THESE DRAWING INDICATES IN GENERAL THE PROJECTS IN TERMS OF ARCHITECTURAL DESIGN CONCEPT, THE DIMENSIONS OF THE BUILDING THE MAJOR ARCHITECTURAL BUILDING. AS INDICATED OR DESCRIBED, THE CONTRACTOR SHALL FINISH ALL TERMS REQUIRED FOR THE PROPER EXECUTION & COMPLETION OF THE WORK. DECISIONS OF THE ARCHITECT AS TO IN TERMS OF WORK INCLUDED WITHIN SHALL BE FINAL.
- 5.4 : THE DOCUMENT SHALL BE FINAL AND BINDING ON THE CONTRACTOR.
- 5.5 : ROOM FINISHES ARE INDICATED IN THE FINISHES SCHEDULE.
- 5.6 : THE DESIGN INTENT OF VARIOUS WORKS IN THESE DRAWINGS SHALL INCLUDE TH COMPLETE SYSTEM, i.e. FIXING / BRACING / FINISHING ETC. THE SIZE OF VARIOUS ELEMENTS SHALL BE AS REQUIRED TO FORM A HIGH QUALITY SYSTEM.
- 5.7 : THE MAIN CONTRACTOR WILL BE FULLY RESPONSIBLE FOR THE INTERMEDIATE & FINAL QUALITY & WORKMANSHIP OF ANY OR ALL PART OF THE WORKS. THE ARCHITECT'S SCOPE WILL ONLY BE LIMITED TO ADMINISTER THE CONTRACT TO ENSURE THAT THE WORKS ARE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN INTENT ON THESE DRAWINGS AND THE TECHNICAL SPECIFICATIONS & THE CONDITIONS OF CONTRACT.
- 5.8 : IT IS THE MAIN CONTRACTOR'S RESPONSIBILITY TO VERIFY & COORDINATE ALL DRAWINGS & DOCUMENTS OF VARIOUS DECIPLINES DURING THE TENDERING / BIDDING STAGE. ANY DISCREPANCY WITHIN ANY DECIPLINES OR LACK OF INFORMATION MUST BE BROUGHT TO THE NOTICE OF ENGINEERS TO ELIMINATE ANY FUTURE ABORTIVE WORKS AND (TIME & COST) VARIATION.
- 5.9 : CONTRACTOR MUST SUBMIT DETAILED FACADE DETAILS & DETAILED WALL SECTIONS SHOP DRAWINGS (SCALE 1:25) FOR VARIOUS ELEVATION CONDITIONS THROUGHOUT THE BUILDING PERIPHERY. THE SHOP DRAWING MUST BE COORDINATED WITH VARIOUS TRADES & SERVICES BEFORE SUBMITTING TO THE ARCHITECT FOR REVIEW
- 5.10 : REFER FLOOR PLANS FOR COMMON AREA DOOR / OPENING NUMBERS.

#### 6 DIMENSION NOTES :

- 6.1 : ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
- 6.2 : ALL DRAWING ARE TO BE READ NOT TO BE SCALED.
- 6.3 : THE WALLS ARE DIMENSIONED TO THE UNFINISHED FACE OF THE MASONRY UNLESS OTHERWISE NOTED.
- 6.4 : FOR GLAZING / WINDOW / DOORS NECESSARY TOLERENCE IN MASONRY WORKS HAVE TO BE CONSIDERED (INCLUSION OF SUB FRAME & SO ON) TO PROVIDE THE CLEAR OPENING AS PER SCHEDULE.
- 6.5 : PARTITIONS AND WALLS SHOWN CENTERED ON COLUMN CENTER OR FLUSH FACE WITH STRUCTURAL COLUMNS ARE NOT DIMENSIONED.
- 6.6 : FOR DIMENSIONS AND LOCATIONS OF ALL STRUCTURAL MEMBERS, REFER TO STRUCTURAL DRAWINGS. DISCREPANCIES ARE TO BE BROUGHT TO THE NOTICE OF THE ARCHITECT/ ENGINEER. PRIOR TO THE EXECUTION.
- 6.7 : ALL ELEVATIONS ARE SHOWN IN METERS (U.N.O.)
- 6.8 : ALL FLOOR ELEVATIONS SHOWN ON ARCHITECTURAL BUILDING ELEVATIONS AND SECTIONS ARE TOP OF FINISHED FLOOR LEVEL UNLESS OTHERWISE NOTED.
- 6.9 : DOOR OPENINGS ARE GENERALLY DIMENSIONED TO THE CENTER LINE OF THE OPENING. DOOR OPENINGS THAT ARE NOT DIMENSIONALLY LOCATED ARE TO BE CENTERED WALLS OR POSITIONED WITH ONE JAMB AGAINST AN ADJACENT WALL WITH A NIB OF 100MM AS SHOWN ON THE PLANS AND DETERMINED FROM THE DETAILS.

#### 7 GENERAL NOTES FOR ALUMINIUM WORKS :-

- 7.1 : CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT SITE PRIOR TO FABRICATION. IN CASE OF ANY DISCREPENCIES BRING TO THE KNOWLEDGE OF THE ENGINEER PRIOR
- 7.2 : THE EXTERNAL GLASS ASSEMBLIES SHOWN SHALL BE COMPLETE SYSTEMS INCLUDING ALL STIFFNERS FASTNERS JOINTING, MISC. PIECES AND MATERIAL THICKNESS SHALL BE AS REQUIRED TO FORM HIGH QUALITY SYSTEMS IN ACCORDANCE TO THE SPECIFICATIONS AND PROFILES SHOWN. ALL EXTERNAL GLAZING 8.11: REFER I.D. / ARCHITECT'S DRAWINGS/SPECIFICATIONS FOR WOOD TYPE/FINISH. SYSTEMS SHOWN SHALL BE WEATHER PROOF.
- 7.3 : ALL DETAILS ARE TO BE COORDINATED WITH THE STRUCTURAL FRAMING AND OTHER BUILDING COMPONENTS IN ORDER TO PROVIDE A COMPLETE ENCLOSURE OF
- 7.4 : THE ANCHORAGE ANGLES, SHAPES AND DETAILS ARE TO BE ENGINEERED AS REQUIRED. THE GENERAL CONTRACTOR IS TO COORDINATE ALL ANCHORAGE DETAILS WITH ALL RELEVANT TRADES.
- 7.5 :ALL FASTENERS ARE TO BE CONCEALED EXCEPT AS SPECIFICALLY SHOWN. ALL BUTT JOINTS ARE TO HAVE CONCEALED BACK-UP WITH CAPTIVE SEALANT.
- 7.6 : THE EXTERIOR GLAZING SHOWN ARE SCHEMATIC AS DESIRED. THE EXTERNAL GLAZING CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEVELOPMENT OF THE FINAL DETAILS TO ACCOMODATE THE FABRICATION AND INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DESIGN INTENT SHOWN ON RELEVANT DRAWINGS.
- 7.7 : SEALANTS DRAINAGE SYSTEMS AND GASKETS SHALL BE ASSEMBELED IN SUCH A MANNER TO PROVIDE A HIGH QUALITY WATER AND WEATHER PROOF ENCLOSURE.
- 7.8 : SHOP DRAWINGS FOR ALL PROPOSED DETAILS FOR EACH TYPE OF WINDOW ARE TO BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW PRIOR TO WORK.
- 7.9 : COLOUR OF SEALANTS SHALL MATCH ADJACENT MATERIALS, OR IF SO DESIGNATED
- SAMPLES. 7.10 : COORDINATE LOCATION OF ANCHORAGE COMPONENTS AND SEALANT POSITIONS WITH
- ADJACENT WORK, INCLUDING MATERIALS AND OTHER CONTIGUOUS SEALANTS. 7.11 : THE GLAZING SYSTEMS SHALL HAVE CONTINIOUS DISTINCT LINE OF PROTECTION
- 7.12 : PROVIDE A POSITION DRAINAGE SYSTEM (WEEPS) FOR CONDENSATION INSIDE OF ALUMINIUM EXTERIOR WALL MEMBERS AND PROVIDE A SYSTEM FOR CATCHING AND DISCHARGING INTERIOR CONDENSATION TO THE EXTERIOR.

AGANIST AIR INFILTRATION AND WATER LEAKAGE.

- 7.13 : THE DESIGN OF EXTERIOR GLAZING SHOULD ALLOW FOR BUILDING MOVEMENTS DUE TO WIND LOADS THERMAL EXPANSIONS AND CONTRACTION, FLOOR DEFLECTIONS
- 7.14 : DESIGN, FABRICATE AND INSTALL PARTS SO THAT THE COMPLETED EXTERIOR GLAZING ASSEMBLY INCLUDING GLASS WILL WITHSTAND THE OUTWARD WINDLOADS.
- 7.15 : PROVIDE ALLOWANCE FOR EXPANSION JOINTS. LOCATION OF JOINTS SHALL BE REVIEWED WITH ARCHITECT'S PRIOR TO WORK.
- 7.16 : ALL FLASHING SHALL BE IN ALUMINUM WITH FINISH TO MATCH MAIN MEMBERS. ALL 5 GENERAL NOTES :-VERTICAL JOINTS IN FLASHING SHALL HAVE LOCKED SEAMS, RESIDENTIAL HOUSES SHALL USE 0.5MM THK. PRE-PAINTED G. I. SHEET U.N.O.

- 7.17 : ALL DISSIMILAR MATERIAL SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER AS REQUIRED TO PREVENT MOLECULAR BREAKDOWN.
- 7.18 : COORDINATE WITH THE WINDOW CLEANING EQUIPMENT FOR THE BACK AS STIPULATED IN THE RELEVANT INTERNATIONAL CODES.
- 7.19 : ALL GLASS, GLAZING COMPONENTS SHALL COMPLY WITH ALL THE RELEVANT INTERNATIONAL CODES AND GOVERNING AUTHORITIES. INCLUDING GLAZING CENTER PANE U-VALUES FOR VISION AND SPANDREL SHADOW BOD. FOR SPANDREL PANELS INCLUDE THERMAL INSULATION TO MASONARY WORKS OR INTERIOR SHEATHING.
- 7.20 : EDGE PREPARATION OF ALL GLASS SHALL CONFIRM TO MANUFACTERERS STANDARDS AND SHALL COMPLY WITH THE RELEVANT INTERNATIONAL CODES AND GOVERNING AUTHORITIES.
- 7.21 : ALL VERTICAL GLAZING MUST HAVE A SAFETY FACTOR OF 2.5
- 7.22 : SUBMIT TO THE ENGINEER A CERTIFICATE STATING THAT THE GLASS INSTALLATION METHODS ADOPTED WERE PROPER AND ADEQUATE FOR CONDITIONS OF INSTALLATION AND USE ON THIS PROJECT. THE CERTIFICATE SHALL INCLUDE, BUT NOT BE LIMITED TO THE MANUFACTERERS REVIEW OF THE DETAILS AND CERTIFICATION THAT THERE ARE NO THERMAL AND SHADOW STRESSES WHICH WILL CAUSE FAILURE IN THE GLASS / GLAZING SYSTEMS.
- 7.23 : ALL FINISHES AND DETAIL MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO FABRICATION.
- 7.24 : ALL GLASS TYPES AND THICKNESS SPECIFIED ON DRAWINGS MUST BE VERIFIED IN WRITING WITH THE GLASS MANUFACTERER FOR APPROPRIATENESS OF USE IN THE PROJECT.
- 7.25 : THE CONTRACTOR SHALL PREPARE AN FULL SIZE MOCK-UP AT SITE AS DIRECTED BY THE ARCHITECT FOR THE PURPOSE OF TESTING AND VISUAL REVIEW AT WHICH TIME ALL RELEVANT ANCHORAGE DETAILS AND THE MATERIALS USED FOR THE SAME SHALL BE REVIEWED AND FINALIZED.
- 7.26 :THE CONTRACTOR SHALL MAINTAIN THROUGHOUT THE PERIOD OF CONSTRUCTION, CONTROL SAMPLES OF ALL THE MATERIALS APPROVED BY THE ARCHITECT FOR THE
- 7.27 :ALL EXPOSED ALUMINIUM PROFILES SHALL BE SUPER DURABLE POWDER COATED FINISH TO MATCH THE ARCHITECT'S SAMPLE (UNO).
- 7.28 :ALL WINDOWS, GLAZINGS, CURTAIN WALLS ETC... SHALL BE PROVIDED WITH THE COMPLETE HARDWARE FOR THE PROPER AND INTENED OPERATION OF THE RELEVANT UNITS. THE SAMPLES OF THE HARDWARE SHALL BE APPROVED BY THE ARCHITECT
- PRIOR TO WORK 7.29 :ALL DIMENSIONS AND QUANTITIES SHALL BE VERIFIED AT SITE PRIOR TO TAKING UP RELATED WORKS IN HAND.
- 7.30 :THE NOMINATED ALUMINIUM CONTRACTOR SHALL CO-ORDINATE AND KEEP ALL PROVISIONS IN THE DOOR FRAMEWORK FOR HOUSING SUCH ASSEMBLIES THAT ARE REQUIRED WITH THE USE OF CARD ACCESS CONTROL SYSTEMS AND SHALL INSTALL THE CARD ACCESS SYSTEM AND ACCESSORIES IN THE ALUMINIUM DOORS IN CO-ORDINATION WITH THE NOMINATED HARDWARE SUPPLIER.

#### GENERAL NOTES FOR DOOR CONSTRUCTIONS :-

- 8.1: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT SITE PRIOR TO FABRICATION.
- 8.2 : THE CONTRACTOR SHALL SUBMIT SAMPLES FOR MATERIALS. COLOURS. FABRICATION & WORKMANSHIP PRIOR TO WORK FOR THE ARCHITECT'S APPROVAL.
- 8.3 : ALL FRAMES FOR WOODEN DOORS SHALL BE FABRICATED FROM FIRST QUALITY SOLID WOOD, FINISHED WITH CLEAR POLYURETHANE LACQUER OVER NATURAL STAIN
- TO MATCH ARCHITECT'S SAMPLE U.N.O. 8.4 : ALL WOODEN DOORS EXCEPT FIRE DOORS SHALL BE 45mm (OVERALL THK.) SEMI SOLID CORE (80% SOLID) FLUSH DOOR WITH 6mm THK MARINE BOARD ON BOTH SIDES WITH HIGH PRESSURE LAMINATE WITH 8MM THK. SOLID WOOD LIPPING ON
- ALL FOUR EDGES & FINISH TO MATCH ARCHITECT'S SAMPLE U.N.O. 8.5 : FOR HARDWARE SCHEDULE REFER TO RELATED PART OF SPECIFICATIONS.
- 8.6 : ALL FIRE RATED DOORS SHALL COMPLY WITH LOCAL AUTHORITY REGULATIONS.
- 8.7 : ALL FIRE RATED DOORS SHALL BE TESTED FROM APPROVED LABS & CERTIFICATES FIRE RATING SHALL BE SUBMITTED PRIOR TO WORK.
- 8.8 : THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS (Auto CAD) FOR THE ARCHITECT'S APPROVAL TO A SCALE OF 1:50/25/10.
- 8.9 : IN CASE OF 'INTERIOR DESIGN' ALL WOODEN DOOR MUST ALSO BE COORDINATED WITH INTERIOR DESIGN & NECESSARY APPROVALS OF SHOP DRAWINGS MUST BE OBTAINED FROM THE INTERIOR DESIGNER.
- 8.10: ALL EXTERNAL DOORS MUST BE WEATHER SEALED FROM ALL FOUR EDGES.

#### GENERAL NOTES FOR FINISHES :-

- 9.1 ALL EXPOSED SERVICES SUCH AS PIPES. DUCTS ETC. AT BASEMENT / PODIUM PARKING FL. SHALL BE PAINTED TO MATCH ADJACENT SURFACE
- 9.2 PROVIDE GALV. STEEL LADDER WITH GRP LINING WITH ACCESS DOOR FROM OUTSIDE FOR THE WATER TANK
- 9.3 PROVIDE PAINTED GALV. STEEL LADDER IN THE LIFT PIT AND GALV. STEEL LADDER & SAFETY RAILING IN THE LIFT MACHINE ROOM. PROVIDE LIGHTS AT EVERY ALT. FLOOR IN THE LIFT SHAFT IN CO-ORDINATION WITH THE ELEVATOR DRAWINGS.
- 9.4 PROVIDE ROAD MARKING, ROAD SIGNS & PARKING NUMBERING AS PER AUTHORITY REGULATIONS IN PARKING / DRIVEWAY/RAMP AREA.
- 9.5 PROVIDE 1.0M HIGH NEOPRENE CORNER GUARDS AT ALL EXPOSED CORNERS IN PARKING, DRIVEWAY, RAMP & ISLANDS.
- 9.6 PROVIDE 2000MM LONG 150MM WIDE RUBBER WHEEL STOPPER AT EACH PARKING 9.7 PROVIDE 1 ROW OF RUBBER PROTECTION GUARDS AT BOTH SIDES OF RAMP AND TO
- CIRCULAR COLUMNS IN PARKING/DRIVEWAY. 9.8 PROVIDE HANDRAIL AT STAIRWELL AS PER DETAIL
- 9.9 PROVIDE GARBAGE COLLECTION TROLLEY'S/COMPACTOR AS/ AUTHORITY REQUIREMENTS WITH HOSE REEL AND SPRAY JET FOR CLÉANING.CONTRACTOR TO CO-ORDINATE WITH LOCAL AUTHORITY FOR CENTRAL GARBAGE COLLECTION REQUIREMENTS.
- 9.10 PROVIDE GALVANIZED STEEL PAINTED CHEQUERED PLATES OVER TRENCHES. TRENCH LAYOUT SHALL BE AS /MERALCO/M.E.P. DRAWINGS.
- 9.11 PROVIDE WATERPROOFING ON FLOOR SLAB IN ALL SHAFTS/AIRWELLS/ MECH'L ROOMS/TOILETS/ PANTRY/TERRACE/ROOFS/BALCONY ETC.
- 9.12 PROVIDE 300mm (MIN.) HIGH CONCRETE UPSTAND AROUND THE AIR WELL/SHAFTS. 9.13 PROVIDE AN INSECT MESH/BIRD SCREEN BEHIND LOUVRE'S FOR GROUND AND PODIUM FLOOR AREAS FOR EXTRACT, SUBSTATION, GENERATOR AND PARKING.

- 5.1 : THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL FLOOR AND WALL SLEEVES AND SHAFTS IN CONCRETE SLABS & WALLS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL & ARCHITECTURAL DWGS AND DISCREPANCIES, IF ANY, TO BE BROUGHT TO THE NOTICE OF THE ARCHITECT'S PRIOR TO THE EXECUTION OF WORK.
- 5.2 : NOTES APPEARING ON VARIOUS DRAWINGS FOR DIFFERENT SYSTEM & MATERIALS SHEET ARE TO BE REVIEWED AND NOTES ON ANY ONE DRAWING ARE TO BE APPLIED TO RELATED DRAWINGS & DETAILS. · ANY DETAILS SYSTEMS MATERIALS WHICH ARE PROPOSED TO RE CHANGED MILIST

- 9.14 PROVIDE FIBRE GLASS APPLIED ON LINING OVER WATER PROOFING SYSTEM TO THE PLANTER FROM INSIDE.
- 9.15 PROVIDE CERAMIC/MARBLE CLADDED ACCESS PANEL WITH CONCEALED FIXING SYSTEM AND MAGNETIC CATCH TO SHAFTS (LOCATION AS/ MECH'L DRGS.)
- 9.16 PROVIDE PANTRY/KITCHEN CABINETS AND WALL UNIT WITH GRANITE TOP AS PER DETAIL (SUBJECT TO ID APPROVAL IF REQUIRED).
- 9.17 PROVIDE VANITY COUNTER AS / DETAIL (SUBJECT TO ID APPROVAL IF REQUIRED).
- 9.18 PROVIDE FLOOR/WALL FINISH BELOW/BEHIND TOILET/BATH MIRROR AND VANITY COUNTERS.
- 9.19 WALL SURFACE BEHIND WARDROBES WILL RECEIVE PLASTER RENDER WITHOUT PAINT.
- 9.20 WALL SURFACE BEHIND KITCHEN BASE UNIT & WALL UNIT WILL ONLY RECEIVE RENDER (WITHOUT ANY WALL TILES)
- 9.21 PROVIDE GALVANIZED STEEL PAINTED LADDER FOR MAINTENANCE ACCESS TO UPPER ROOF.
- 9.22 ALL FHC'S IN THE PARKING FLOORS SHALL BE WALL MOUNTED PAINTED CABINETS AS PER CIVIL DEFENSE REQUIREMENTS (U.N.O.) 9.23 ALL VERTICAL RISERS/PIPES/DUCTS IN DRIVE WAY / PARKING SHALL BE PROTECTED
- BY 1.0M HIGH HEAVY DUTY G.I. PROTECTION BARRIER PAINTED WITH YELLOW & 9.24 CONTRACTOR MUST COORDINATE WITH ALL MEP. SERVICES (PIPES / EQUIPMENTS
- ETC.) & SUBMIT SHOP DRAWINGS FOR G.I. CROSS OVER & G.I. STEPS FOR ARCHITECT'S APPROVAL. 9.25 ALL GYPSUM BOARD IN THE WET AREA & EXTERNAL SPACES LIKE BALCONY SHALL
- BE MOISTURE RESISTANT OR FIBER CEMENT (HARDIFLEX) 9.26 ALL UPSTAND & ALL EXTERNAL HORIZONTAL AND VERTICAL SURFACE (BLOCK WALL OR R.C) U.N.O. IN THE GROUND FL./POOL DECK LVL. / ROOF / UPPER ROOF LEVEL / ELEVATIONS SHALL RECEIVE EPOXY PAINT OVER SAND CEMENT RENDER COLOUR TO MATCH ADJACENT SURFACE AND AS/ AUTHORITY REQUIRE.
- 9.27 ALL MEP PIPES / DUCTS ETC. IN PARKING AND DRIVEWAY MUST BE PROTECTED WITH PAINTED HEAVY DUTY G.I PROTECTION GUARD AS / ARCHITECT'S APPROVAL 9.28 ALL KERB STONES ALONG THE DRIVEWAY / RAMP / PARKINGS / ISLANDS MUST BE
- PAINTED IN ALTERNATE BLACK & WHITE STRIPS OF 1000MM WIDE. 9.29 ELEVATOR PITS FLOORING SHALL BE ELASTOMERIC WATERPROOF MEMBRANE WITH 100MM HIGH SKIRTING AS PER SPECIFICATIONS.
- 9.30 ALL REFLECTED CEILING FIRE RATING SHALL BE IN ACCORDANCE WITH LATEST REGULATIONS
- 9.31 ALL WALL SURFACE AND SLAB SOFFIT ABOVE REFLECTED CEILING IN THE WET AREA MUST RECEIVED ANTI FUNGUS PAINT.
- 10 GENERAL NOTES FOR FABRICATION OF WARDROBES / UNDER VANITY CABINETS :-
- 10.1 THE CONT. SHALL VERIFY ALL DIMENSIONS AT SITE PRIOR TO
- FABRICATION. 10.2 ALL WARDROBES SHALL BE 600 DEEP & 2340mm HIGH WITH GYPSUM BOARD BULK HEAD ABOVE OR U.N.O.
- 10.3 THE CONTRACTOR SHALL SUBMIT SAMPLES FOR MATERIALS, COLOURS, FABRICATION & WORKMANSHIP PRIOR TO WORK FOR THE ENGINEERS APPROVAL.
- 10.4 IN CASE, A SEPERATE INTERIOR DESIGN PACKAGE IS AVAILABLE, THEN THE ABOVE NOTES MUST BE READ IN CONJUCTION WITH INTERIOR DESIGN. THE CONTRACTOR MUST ALSO OBTAIN NECESSARY APPROVAL FROM THE INTERIOR DESIGNER PRIOR TO FABRICATION & EXECUTION OF THE WORK.
- 10.5 ALL CABINETS SHALL BE PROVIDED WITH COMPLETE HARDWARE & ACCESSORIES LIKE HINGES (SELF & SOFT CLOSING), DRAWER RUNNER SYSTEM (SELF & SOFT CLOSING), RAILS, DRAWERS, HANGER BARS/RODS ETC. REQUIRED FOR THE COMPLETE OPERATION OF THE UNITS.

#### 11 GENERAL NOTES FOR KITCHEN/PANTRY COUNTERS / CABINETS :-

- 11.1 THE CONT. SHALL VERIFY ALL DIMENSIONS AT SITE PRIOR TO FABRICATION
- 11.2 ALL OVERHEAD CABINETS SHALL BE 300mm DEEP(U.N.O.) AND HEIGHT SHALL BE AS
- 11.3 ALL CABINETS SHALL BE PROVIDED WITH COMPLETE HARDWARE & ACCESSORIES LIKE HINGES (SELF & SOFT CLOSING), DRAWER RUNNER SYSTEM (SELF & SOFT CLOSING), RAILS, DRAWERS, ETC. REQUIRED FOR THE COMPLETE OPERATION OF THE
- 11.4 THE CABINET DIMENSIONS SHOWN ARE INDICATIVE ONLY, CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING THE COMPLETE DETAILED SHOP DRAWING TO ENGRS. **APPROVAL**
- 11.5 REFER TYPICAL KITCHEN/PANTRY CABINET
- 11.6 CO-ORDINATE WITH M.E.P. DRAWINGS FOR THE ACCESS PANEL
- LOCATIONS/SIZE/TYPE. 11.7 THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS (Auto CAD) FOR THE ENGINEERS APPROVAL TO
- 11.8 A SCALE OF 1:50/25/10. THE CONTRACTOR SHALL SUBMIT SAMPLES FOR MATERIALS, COLOURS, FABRICATION & WORKMANSHIP PRIOR TO WORK FOR THE ENGINEERS APPROVAL
- 11.9 IN CASE, A SEPERATE INTERIOR DESIGN PACKAGE IS AVAILABLE. THEN THE ABOVE NOTES MUST BE READ IN CONJUCTION WITH INTERIOR DESIGN. THE CONTRACTOR MUST ALSO OBTAIN NECESSARY APPROVAL FROM THE INTERIOR DESIGNER PRIOR TO FABRICATION & EXECUTION OF THE WORK.

#### 12 GENERAL NOTES FOR JOINERY WORKS :-

- 12.1 : THE CONTRACTOR SHALL PREPARE THE SHOP DRAWINGS FOR ENGINEER'S APPROVAL TO A SCALE OF 1:50/25/10 (PRIOR TO PROCUREMENT AND FABRICATION OF THE MATERIAL). THE DETAILS IN THE SHOP DRAWINGS SHALL INCLUDE (BUT NOT LIMITED TO) THE DESIGN INTENT DETAILS INDICATED IN THIS DESIGN INTENT DRAWING. FURTHER CONSTRUCTION DETAILS HAVE TO BE PROVIDED BY THE CONTRACTOR AS / JOINERY CONTRACTOR & AS RECOMMENDED BY THE ENGINEER.
- 12.2 : THE CONTRACTOR SHALL SHALL VERIFY ALL DIMENSIONS AT SITE PRIOR TO FABRICATION.
- 12.3 : THE CONTRACTOR SHALL SUBMIT FULL SIZE MOCK UP SECTION FOR VARIOUS JOINERY CONDITION FOR ARCHITECT'S REVIEW PRIOR TO FABRICATION.
- 12.4 : UNLESS STATED OTHERWISE, SEASONED SOLID TANGUILE WOOD (WHICH WILL NOT WARP, SHRINK OR TWIST IN EXPOSED WEATHER CONDITION) WILL BE USED FOR ALL JOINERY
- 12.5 : ALL METAL ELEMENTS USE TO FABRICATE THE COMPLETE JOINERY WORKS WILL BE IN STAINLESS STEEL. GAUGE. THE SIZE & THICKNESS OF VARIOUS STAINLESS STEEL FIXING ELEMENTS WILL BE AS PER JOINERY CONTRACTOR'S RECOMMENDATION.
- REQUIRED TO FORM HIGH QUALITY RIGID JOINERY SYSTEM BASED ON DETAIL SPECIFICATION. 12.7 : THE WOODEN JOINERY / DETAILS INDICATED ARE SCHEMATIC IN NATURE. THE JOINERY CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEVELOPMENT OF FINAL DETAILS TO

12.6 : THE JOINERY DESIGN INDICATED, SHALL BE COMPLETE SYSTEM INCLUDING ALL NUTS /

BOLTS / SPIGOT / STRUCTURAL FIXING SIZE OF VARIOUS FIXING ELEMENTS SHALL BE AS

- ACCOMMODATE THE FABRICATION AND INSTALLATION OF THE WORK AND IN ACCORDANCE WITH THE DESIGN INPUT SHOWN ON RELEVANT DRAWINGS. 12.8 : NO EXPOSED METAL ELEMENTS / CABLES (CLAMPS / NUTS / BOLTS) WILL BE ALLOWED IN THE WOODED STRUCTURE.
- SHOP DRAWINGS FOR REVIEW. 12.10FOR FINISHES AND TEXTURE MAIN CONTRACTOR TO SUBMIT SAMPLE OF WOOD / POLISH

SYSTEM AND SHADES FOR ARCHITECT'S APPROVAL.

12.9 : MAIN CONTRACTOR TO COORDINATE WITH ALL RELEVANT SERVICES PRIOR TO SUBMITTING

- 13.1 : THE MAIN CONTRACTOR MUST APPOINT ON TIME SPECIALIST SUPPLIERS/ FABRICATORS / ERRECTORS WHO ARE APPROVED BY RELEVANT AUTHORITY FOR CARRYING OUT THE WORKS.
- 13.1 : THE SPECIALIST CONTRACTOR MUST CARRY OUT NECESSARY COORDINATION WITH THE MAIN CONTRACTOR & ALL SUB CONTRACTORS FOR ALL SERVICES & INTERFACE WITH BUILDING TO PROVIDE A WELL COORDINATED SHOP DRAWINGS (& CALCULATIONS AS REQUIRED) FOR
- ENGINEER'S REVIEW / APPROVAL PRIOR TO PROCUREMENT FABRICATION ON SITE. 13.2 : THE SUBMITTED SHOP DRAWINGS MUST CLEARLY IDENTIFY ALL CONDITIONS WHERE THE STRUCTURAL STEEL & (OR) STRUCTURAL WOOD WORK HAS INTERFACE WITH VARIOUS OTHER
- 13.3 : THE FINAL DESIGN OF STRUCTURAL STEEL & (OR) STRUCTURAL WOOD SYSTEM MUST BE COMPLETE SYSTEM THAT WORK WITH THE COMPLETE BUILDING STRUCTURE BASED ON THE
- 13.4 : THE STRUCTURAL STEEL & STRUCTURAL WOOD SYSTEM MUST ACHIEVE RELEVANT FIRE RATING BASED ON AUTHORITY REQUIREMENTS.
- 13.5 : ALL STEEL STRUCTURE MUST RECEIVE ANTI CORROSION COATING AS / SPECIFICATION OR AS RECOMMENDED BY THE SPECIALIST CONTRACTOR.

#### 14 ACOUSTICAL / NOISE ISOLATION NOTES

BUILDING ELEMENTS.

- 14.1 REFER APPROVED ACOUSTIC REPORT FOR MINIMUM SOUND TRANSMISSION CLAS (STC) REQUIREMENTS.
- 14.2 EXTERIOR GLAZING, GLAZING EXPOSED TO HIGH NOISE LEVEL SHALL ACHIEVE A MINIMUM OF STC AS PER THE APPROVED ACOUSTICAL REPORT.
- 14.3 REFER ROOFING / ROOF EQUIPEMENT DETAILS FOR ROOF INSULATION DETAILS & REQUIREMENTS, ROOF CONSTRCUTION SHALL ACHIVE A MINIMUM OF "STC-48". 14.4 SERVICES OUTLET TO BE AVOIDED FROM THE DEMISING WALL BETWEEN TWO
- UNITS, IN CASE OF UN AVOIDABLE SITUATION THE OUTLETS SHALL BE POSITONED TO AVOID BACK-TO-BACK CONDITION, ALL ELECTRICAL OUTLETS SHALL BE BACKED WITH 3M PUTTY PAD OR SIMILAR PRODUCTS AND SEALED AIRTIGHT ON ALL SIDES OF THE BOX.
- 14.5 ALL TRASH CHUTES MUST BE ISOLATED FROM THE STRUCTURE BY HAVING CHUTE BRACKETS RESTING ON NEOPRENE ISOLATORS (MASON INDUSTRIES "ND" ISOLOTORS OR SIMILAR), NO RIGID CONTACT BETWEEN CHUTE AND STRUCTURE IS ALLOWED.
- 14.6 CEILINGS OF THE MAJOR PLANT ROOMS SUCH AS TRANSFORMER/LV/GENERATOR/PUMP ROOM/MDF ETS ROOM...ETC, TO BE INSULATED WITH ACOUSTICAL SPRAY PRODUCTS SUCH AS ECOPHON OR PYORK OR SIMILAR APPROVED PRODUCTS.
- 14.7 FLOOR CEILING ASSEMBLY SHALL ACHIEVE AN IMPACT ISOLATION CLASS (IIC) OF MINIMUM "IIC-55".
- 14.8 ADJOINING WALLS BETWEEN RETAIL UNITS AND FOLLOWING SPACES IN TYPICAL FLOORS / GROUND FLOORS SHALL BE ACOUSTICALLY INSULATED WITH 50MM INSULATION & CAVITY WALL OR WITH SIMILAR APPROVED ACOUSTICAL SPRAY / MATERIAL
  - GARBAGE ROOMS
  - PUMP ROOMS
  - LIFT M/C ROOMS
  - TRANSFORMER/ LV ROOMS / GENERATOR ROOMS - ANY OTHER SERVICES ROOMS GENERATES NOISE.

- ANY OTHER PUBLIC FACILITES WHICH GENERATES NOISE.

- GYMNASIUM / HEALTH CLUB, CHANGE ROOMS..E.T.C - MULTI PURPOSE HALL/ CHILD. PLAY ROOM..ETC
- SQAUSH COURT / RECREATION ROOM ...ETC

#### 13 GENERAL NOTES FOR STRUCTURAL STEEL & STRUCTURAL WOOD WORKS :-

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Jan

IAPOA NO. 22697-37		0490-093022	VALIDITY	JUN 30, 2024				
	REG.	NO.	0025728		PTR NO.	1864534		ISSUED ON
	TIN 226314175000		ISSUED AT	CALOOCAN CI	TY	MAR 07, 2024		

LITO G. CARISMA

ARCHITECT / ENGINEER

#### CLIENT:

DESIGNER:

CAPT. MARK ERVIN V. ARANDELA

PROJECT TITLE:

PROPOSED 2 STOREY RESIDENTIAL PROJECT

#### PROJECT ADDRESS:

LOT 2. BLK 56. CASA BUENA SUBDVISION, PULILAN, BULACAN

#### **DESIGN AND BUILD BY:**



#### LEIGH DESIGN STUDIOS ARCHITECTURAL + ENGINEERING

BUILDING SOLUTIONS

ADDRESS: #15 MH DEL PILAR ST., GUITNANG BAYAN 1. SAN MATEO. RIZAL

0936-947-4847

FACEBOOK: @LEIGHDESIGNSTUDIOS

0997-883-1896

EMAIL: LEIGHDESIGNSTUDIOS@GMAIL.COM

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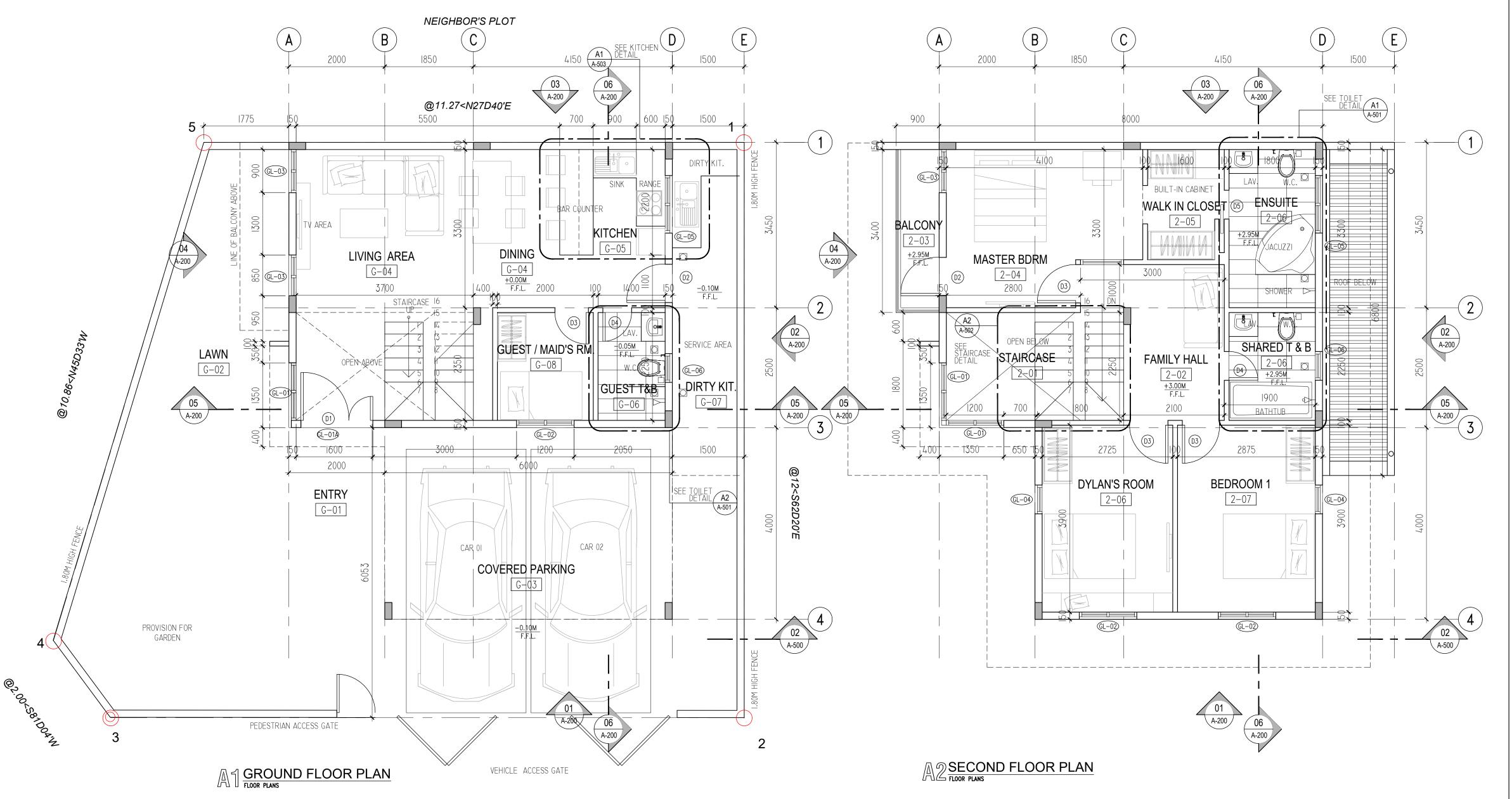
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# 2 OF 2

LDS / 002 / 2024

				FII	NIS	HIN	١G	S	CHE	EDULE					
FLOOR	ROOM NO.	ROOM NAME (LOCATION)	FLOOR	SKIRTING	WALL	CEILING	CEILING HEIGHT	FLOOR	ROOM NO.	ROOM NAME (LOCATION)	FLOOR	SKIRTING	WALL	CEILING	CEILING HEIGHT
										_					
	G-01	ENTRY	CT-7	-	CP-1	PVC-1	2.80 M	<u>~</u>	2-01	STAIRCASE	WOOD P	LANKS	CP-1	SC-1	2.80 M
00R	G-02	LAWN / OUTDOOR COURT		(NOT PA	RT OF SCOF	PE)		90R	2-02	FAMILY HALL	SPC-1	SPC-2	CP-1	PVC-1	2.80 M
FLO	G-03	PARKING AREA	CT-7	_	CP-1	SC-2	2.70 M	년	2-03	BALCONY	CT-7	_	CP-1	PVC-1	2.80 M
_	G-04	LIVING/ DINING AREA	CT-1	-	CP-1	SC-1	2.80 M	2ND	2-04	MASTER BEDROOM	SPC-1	SPC-2	CP-1	SC-1	2.80 M
GROUND	G-05	KITCHEN AREA	CT-1	-	CT-1	CP-1	2.70 M	]	2-05	WALK IN CLOSET	SPC-1	SPC-2	CP-1	SC-1	2.40 M
89	G-06	GUEST T & B	CT-5		CT-6	SC-2	2.40 M	1	2-06	ENSUITE	CT-5	_	CT-6	SC-3	2.40 M
	G-07	DIRTY KITCHEN/SERVICE AREA	CT-7		CP-1	-		1	2-07	BEDROOM 1	SPC-1	SPC-2	CP-1	SC-1	2.80 M
	G-08	GUEST / MAID'S ROOM	SPC-1	SPC-2	CP-1	SC-1	2.80 M	]	2-08	DYLAN'S ROOM	SPC-1	SPC-2	CP-1	SC-1	2.80 M
								]	2-09	SHARED TOILET AND BATH	CT-5	_	CT-6	SC-3	2.40 M
	1		· · · · · · · · · · · · · · · · · · ·					1							1

#### MATERIAL ABBREVIATIONS CT | CERAMIC / GRANITI TILES CP | CEMENT PLASTER PAINTED : CEMENT PLASTER WITH ACRYLIC LATEX PAINT (SEMI-GLOSS) 600 X 600 MM GLAZED GRANITE TILES CT-2 : 600 X 600 MM UNGLAZED GRANITE TILES : PAINT ON STEEL DECK SOFFIT : 300 X 300MM GLAZED CERAMIC TILES. SC SUSPENDED CEILING : 300 X 300MM UNGLAZED CERAMIC TILES. : 300 X 600MM UNGLAZED CERAMIC TILES. SUSPENDED CALCIUM SCILICATE BOARD/BULKHEAD ON RIGID FRAMEWORK, FINISHED WITH PAINT TO : 300 X 600MM GLAZED CERAMIC TILES. MATCH THE ADJACENT WALL AND CONCRETE SURFACE. : 400 X 400MM NON-SKID CERAMIC TILES. SUSPENDED FIBRE CEMENT BOARD/BULKHEAD ON RIGID FRAMEWORK, FINISHED WITH PAINT TO : 158 X 1200MM UNGLAZED SPC FLOORING MATCH THE ADJACENT WALL AND CONCRETE SURFACE. SPC 2 : 85 X 2400MM SPC BASEBOARD : SUSPENDED FIBRE PVC CEILING/BULKHEAD ON RIGID FRAMEWORK, CSF | CONCRETE SLAB FINISH SC-20 : PAINT ON SOFFIT SLAB PER SPECS. PCF-1 : PLAIN CEMENT FINISH - GYPSUM BOARD / TILES IN WET AREA SHALL BE MOISTURE RESISTANT. CSF-4 : POWER FLOATED CONC. SLAB WITH SOLVENT FREE EPOXY RESIN COATING AS PER SPECIFICATIONS (SUITABLE FOR TRAFFIC)



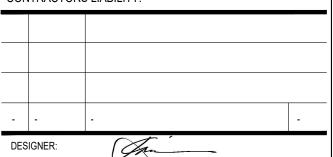
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ARCHITECT / ENGINEER IAPOA NO. 22697-370490-093022 VALIDITY JUN 30, 2024

LITO G. CARISMA

REG. NO. 0025728 PTR NO. 1864534 ISSUED ON TIN 226314175000 ISSUED AT CALOOCAN CITY MAR 07, 2024

CLIENT:

CAPT. MARK ERVIN V. ARANDELA

PROJECT TITLE:

PROPOSED 2 STOREY RESIDENTIAL PROJECT

PROJECT ADDRESS:

LOT 2, BLK 56, CASA BUENA SUBDVISION, PULILAN, BULACAN

DESIGN AND BUILD BY:



LEIGH DESIGN STUDIOS

ARCHITECTURAL + ENGINEERING BUILDING SOLUTIONS

ADDRESS: #15 MH DEL PILAR ST., GUITNANG BAYAN 1, SAN MATEO, RIZAL

0997-883-1896

0936-947-4847

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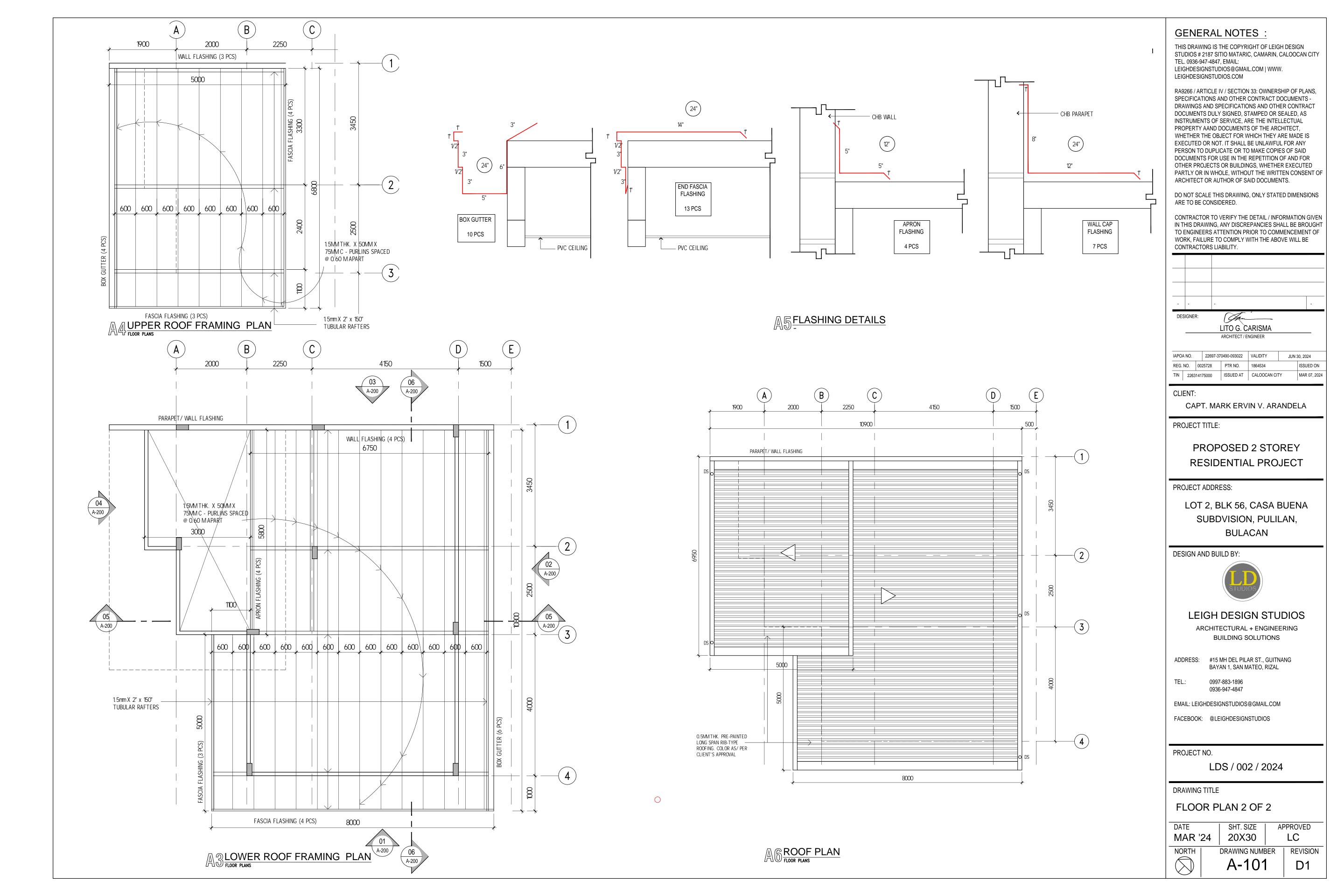
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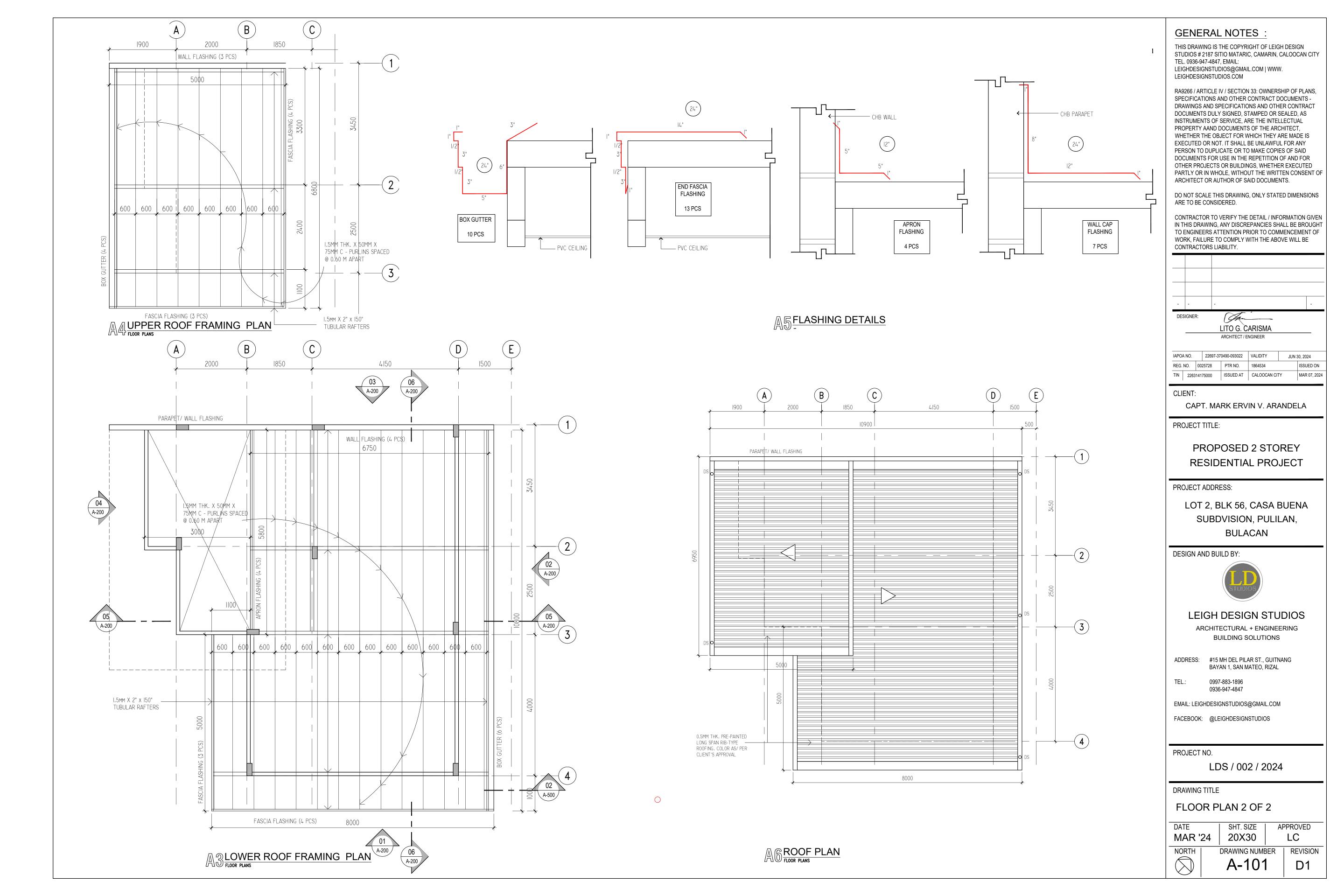
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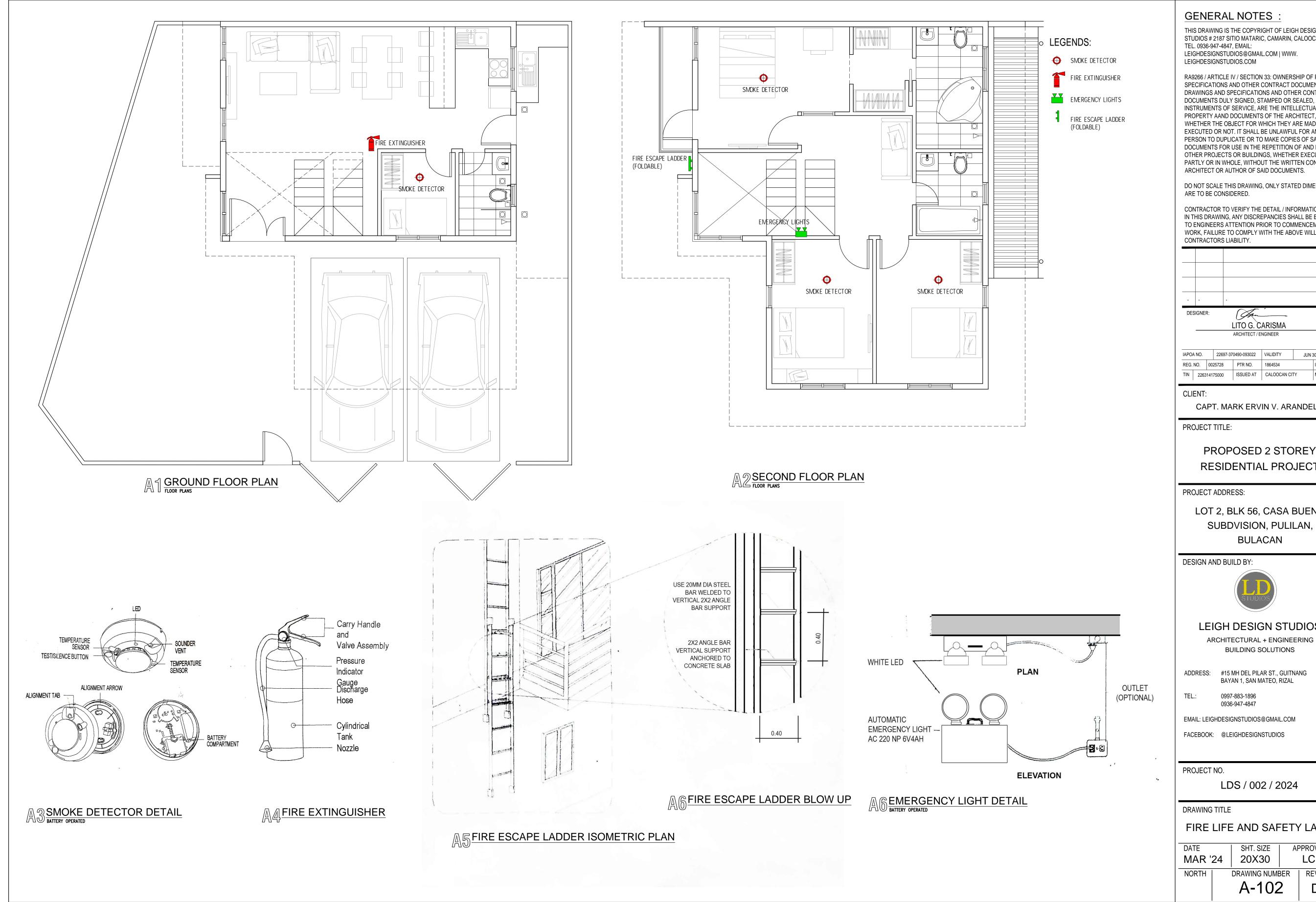
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FLOOR PLAN 1 OF 2

MAR '24	SHT. SIZE APPROVED LC			
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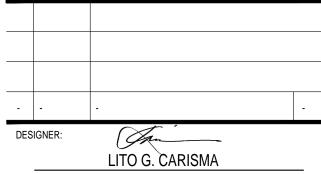
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CAPT. MARK ERVIN V. ARANDELA

PROPOSED 2 STOREY RESIDENTIAL PROJECT

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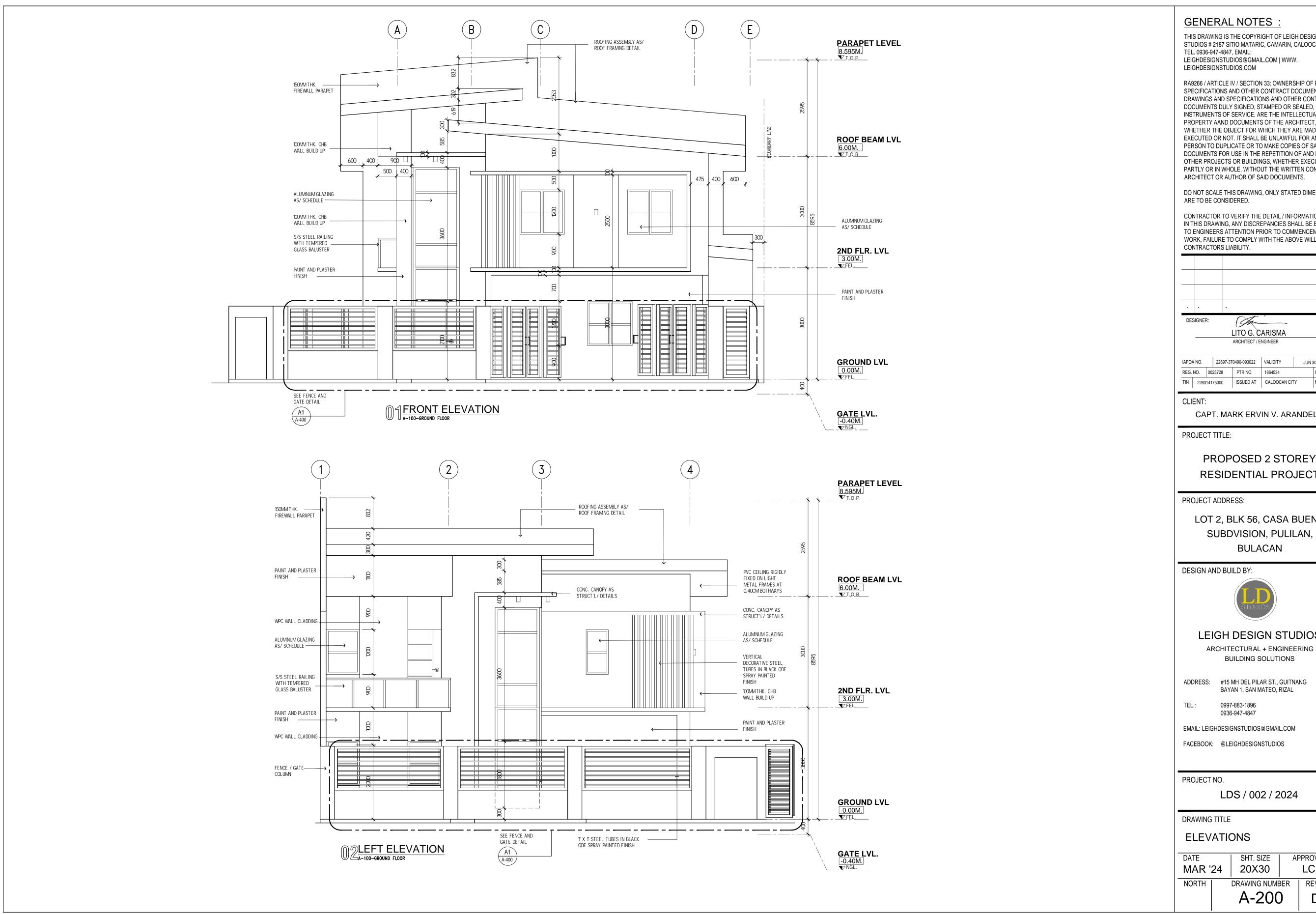
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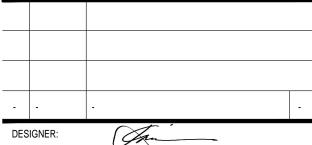
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LOT 2, BLK 56, CASA BUENA SUBDVISION, PULILAN, **BULACAN** 

DESIGN AND BUILD BY:



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BUILDING SOLUTIONS

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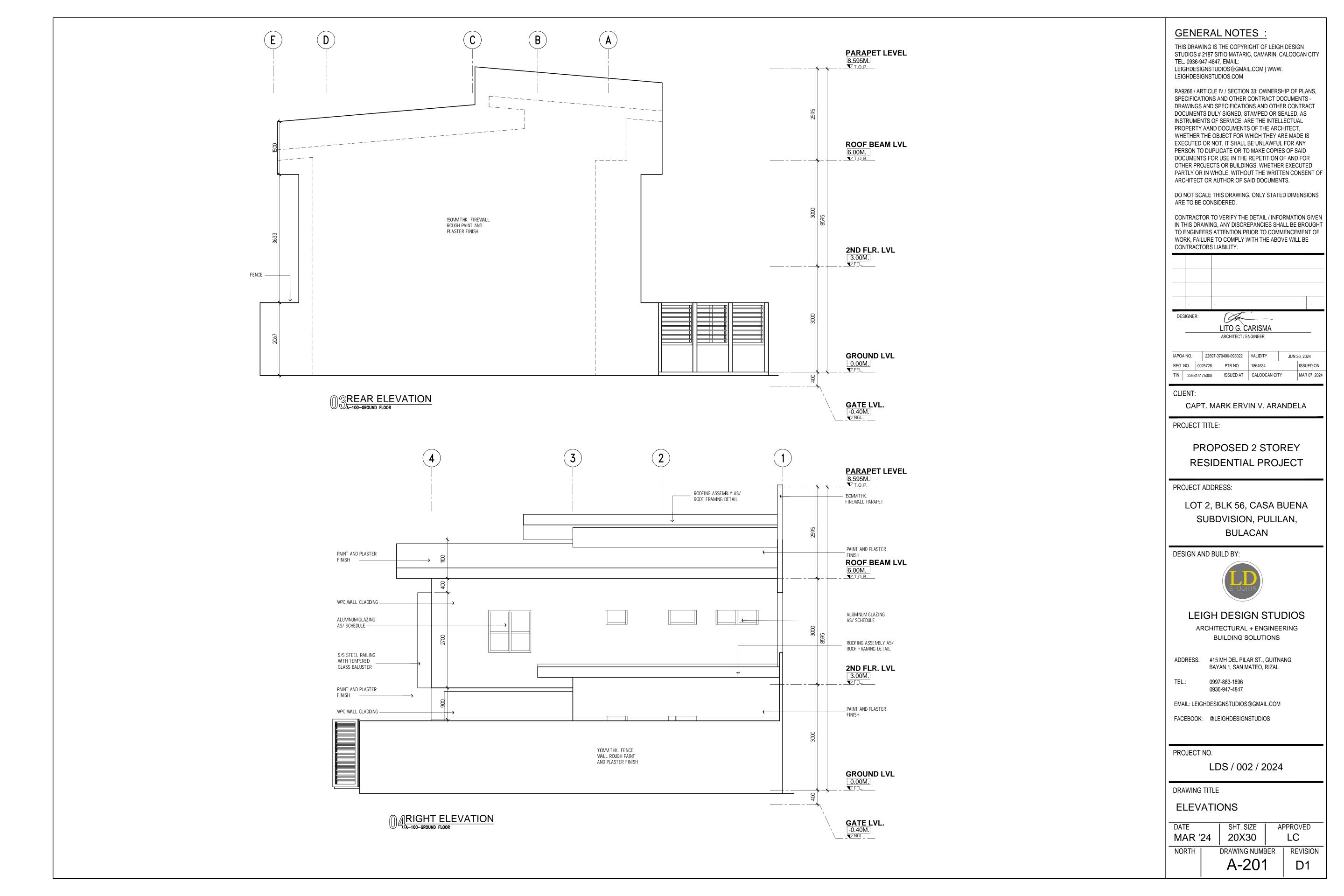
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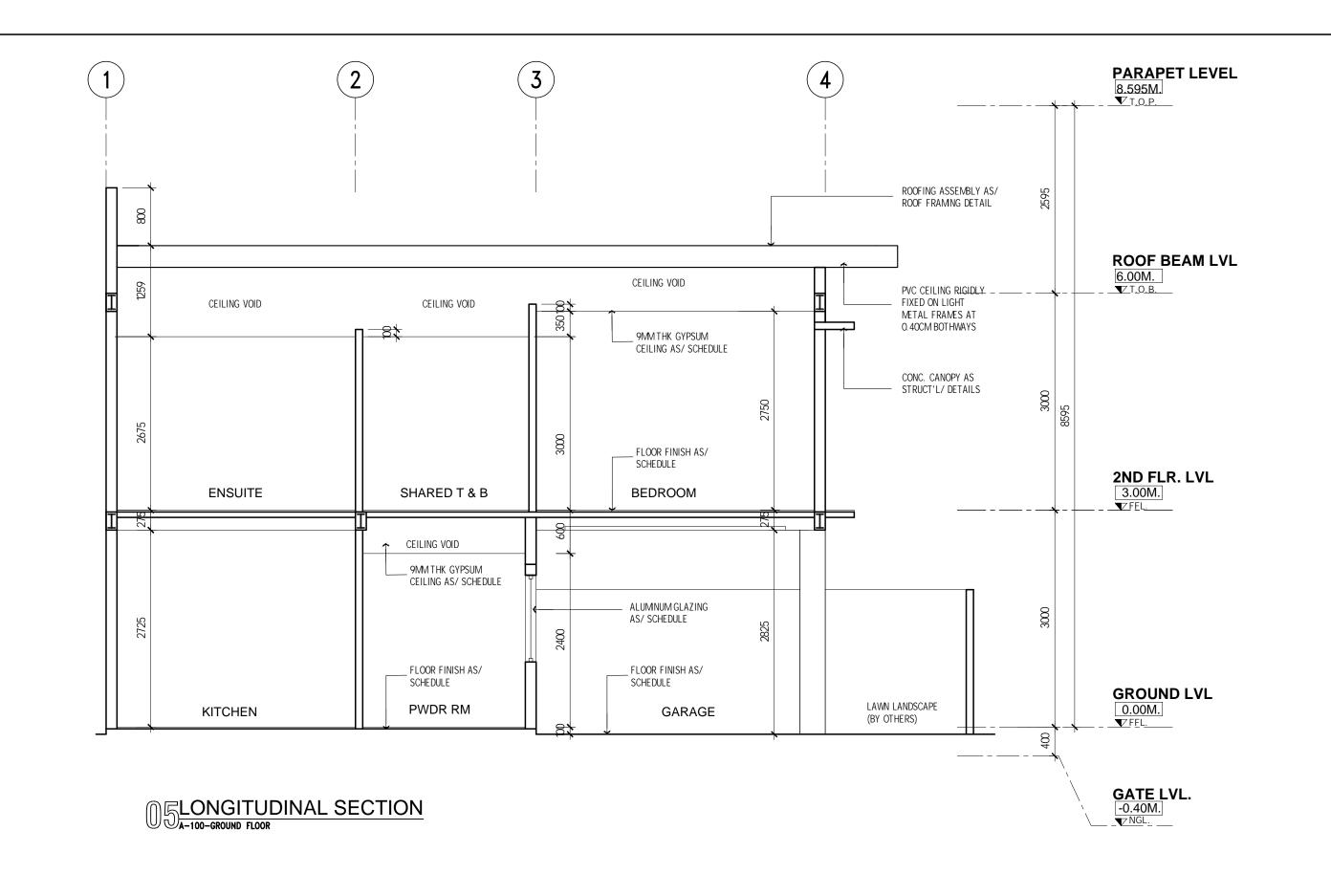
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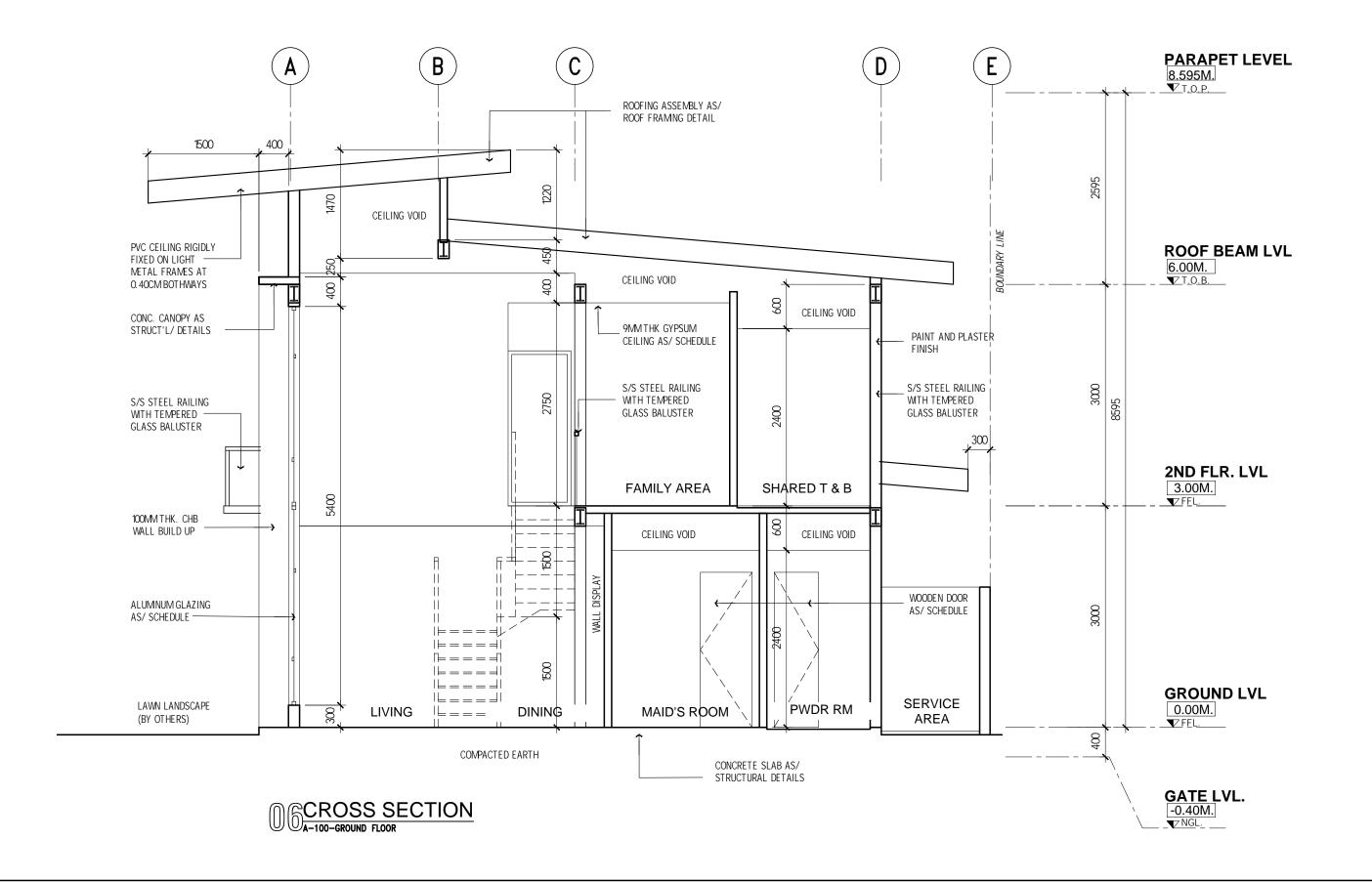
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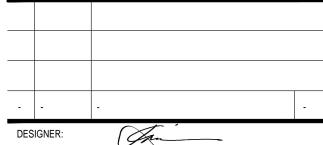
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CLIENT:

CAPT. MARK ERVIN V. ARANDELA

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PROPOSED 2 STOREY
RESIDENTIAL PROJECT

PROJECT ADDRESS:

LOT 2, BLK 56, CASA BUENA SUBDVISION, PULILAN, BULACAN

DESIGN AND BUILD BY:



#### LEIGH DESIGN STUDIOS

ARCHITECTURAL + ENGINEERING
BUILDING SOLUTIONS

ADDRESS: #15 MH DEL PILAR ST., GUITNANG

TEL.:

BAYAN 1, SAN MATEO, RIZAL

0997-883-1896 0936-947-4847

EMAIL: LEIGHDESIGNSTUDIOS@GMAIL.COM

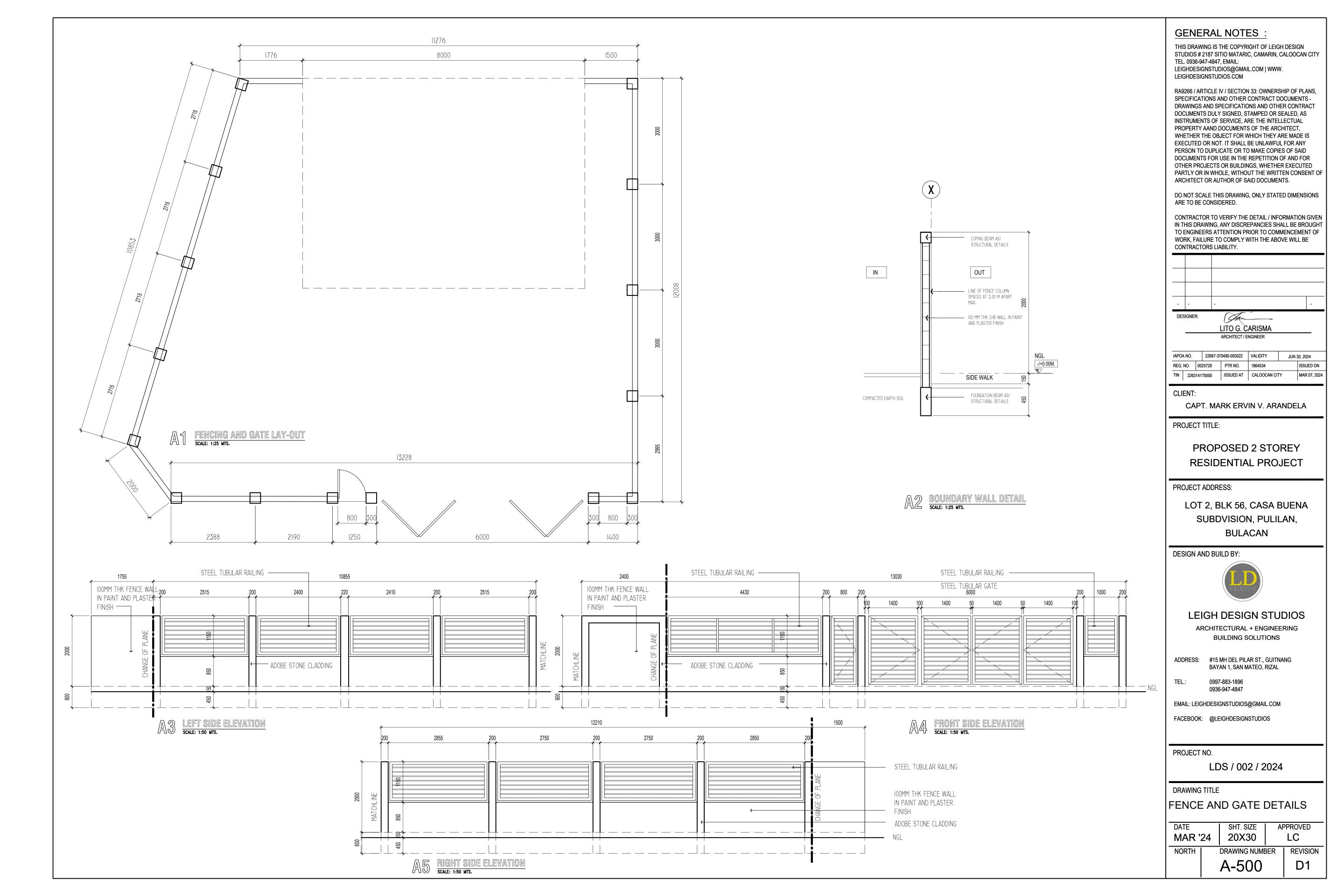
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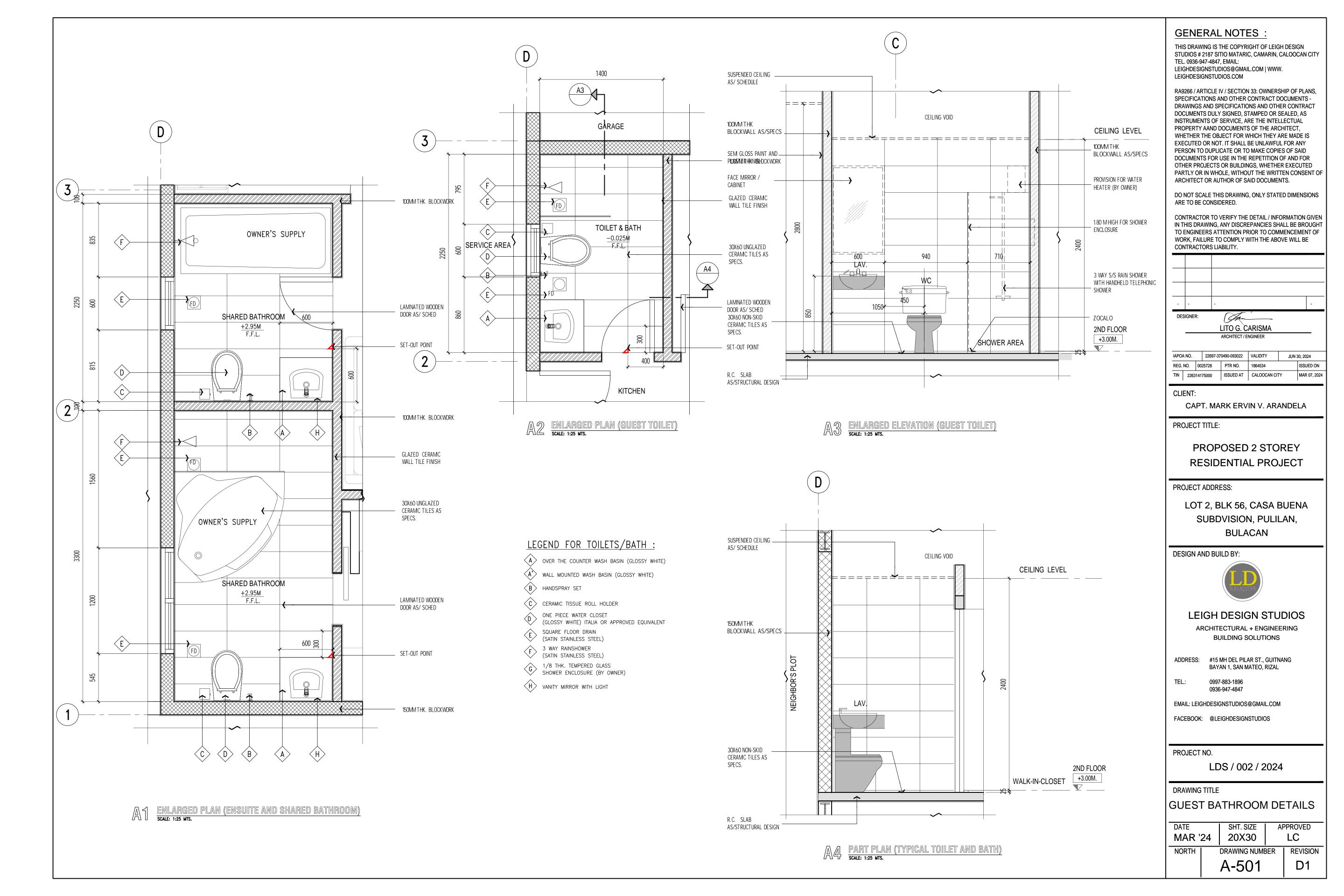
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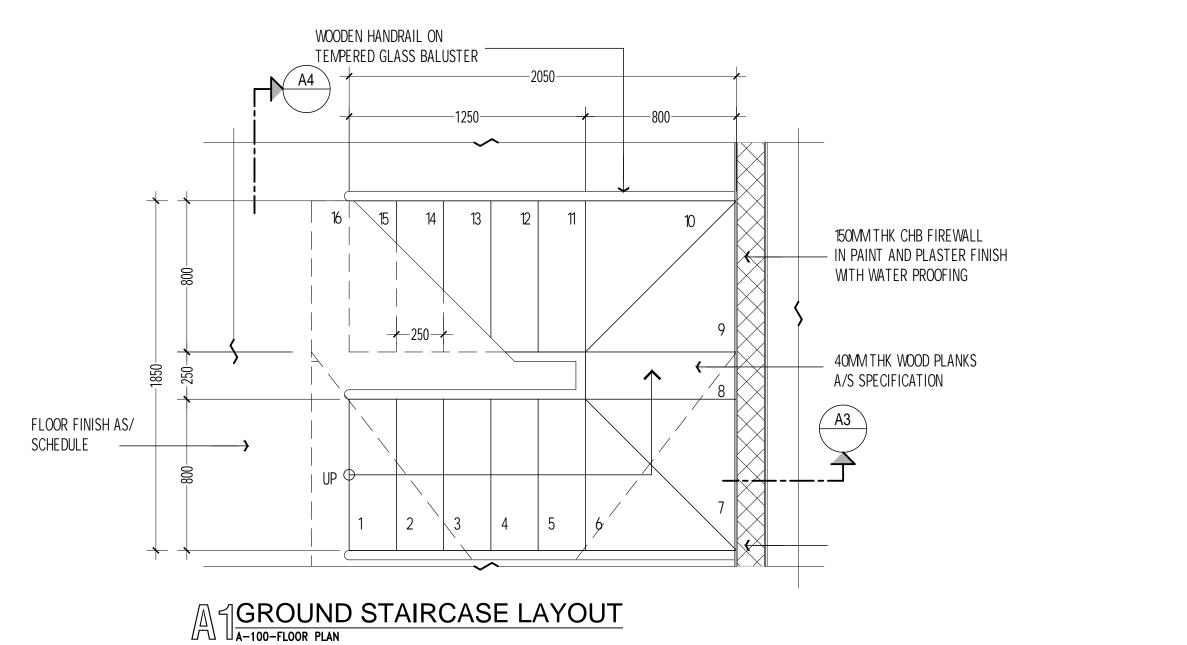
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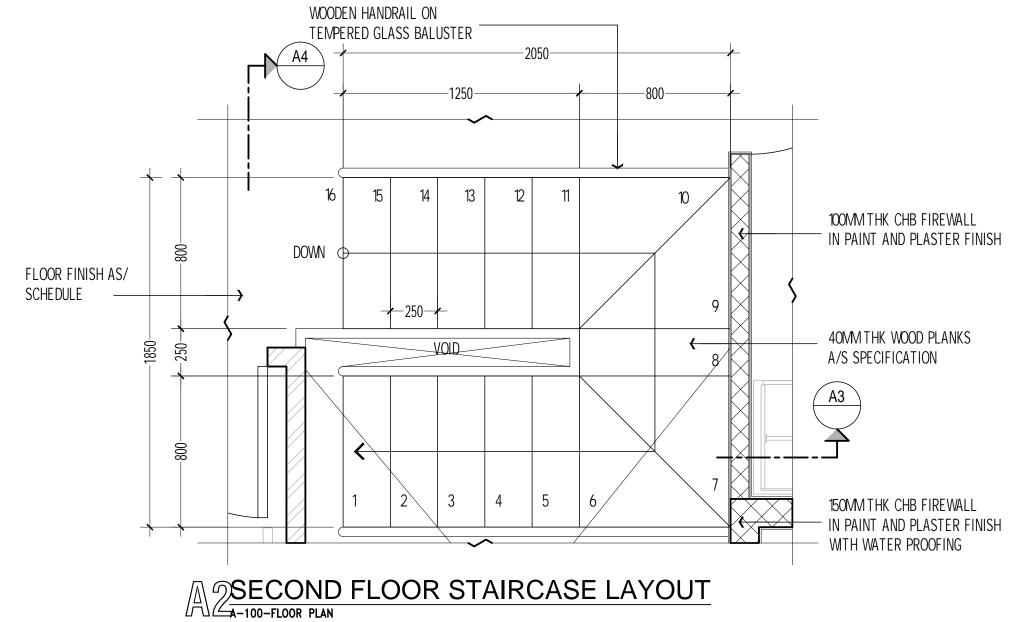
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	A-300	)	D1



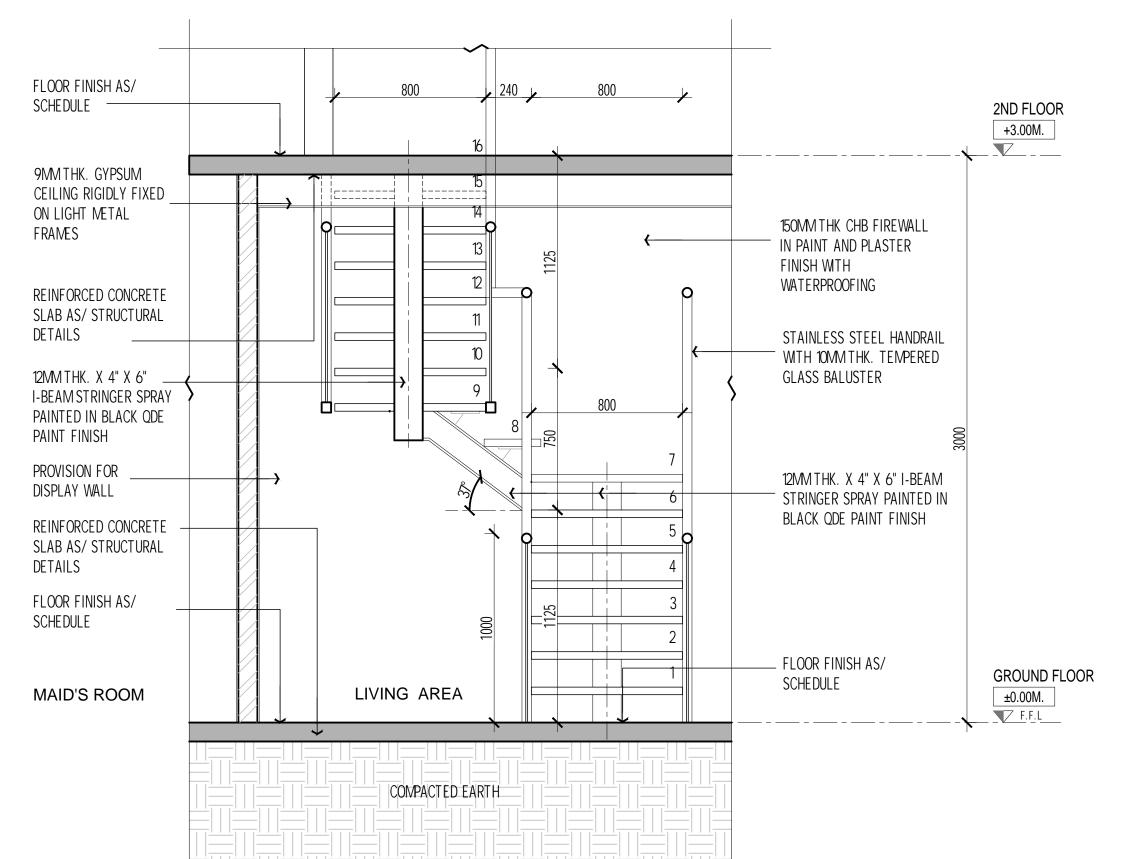






## HALL FLOOR FINISH AS/ STAINLESS STEEL HANDRAIL SCHEDULE 2ND FLOOR WITH 10MM THK. TEMPERED +3.00M. GLASS BALUSTER 9MM THK. GYPSUM CEILING RIGIDLY FIXED ON LIGHT METAL FRAMES 150MM THK CHB FIREWALL REINFORCED CONCRETE SLAB IN PAINT AND PLASTER FINISH AS/ STRUCTURAL DETAILS WITH WATERPROOFING 4" X 6" I-BEAM STRINGER SPRAY PAINTED IN BLACK QDE DISPLAY WALL PAINT PAINT FINISH AND PLASTER FINISH LANDING REINFORCED CONCRETE SLAB AS/ STRUCTURAL DETAILS FLOOR FINISH AS/ SCHEDULE FLOOR FINISH AS/ **GROUND FLOOR** SCHEDULE ±0.00M. F.F.L COMPACTED EARTH

STAIRCASE SECTION 1



# STAIRCASE SECTION 2 LA-300 - SECTIONS

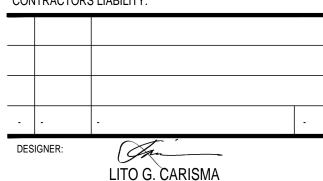
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ADDRESS: #15 MH DEL PILAR ST., GUITNANG BAYAN 1, SAN MATEO, RIZAL

0997-883-1896

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EMAIL: LEIGHDESIGNSTUDIOS@GMAIL.COM

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PROJECT NO.

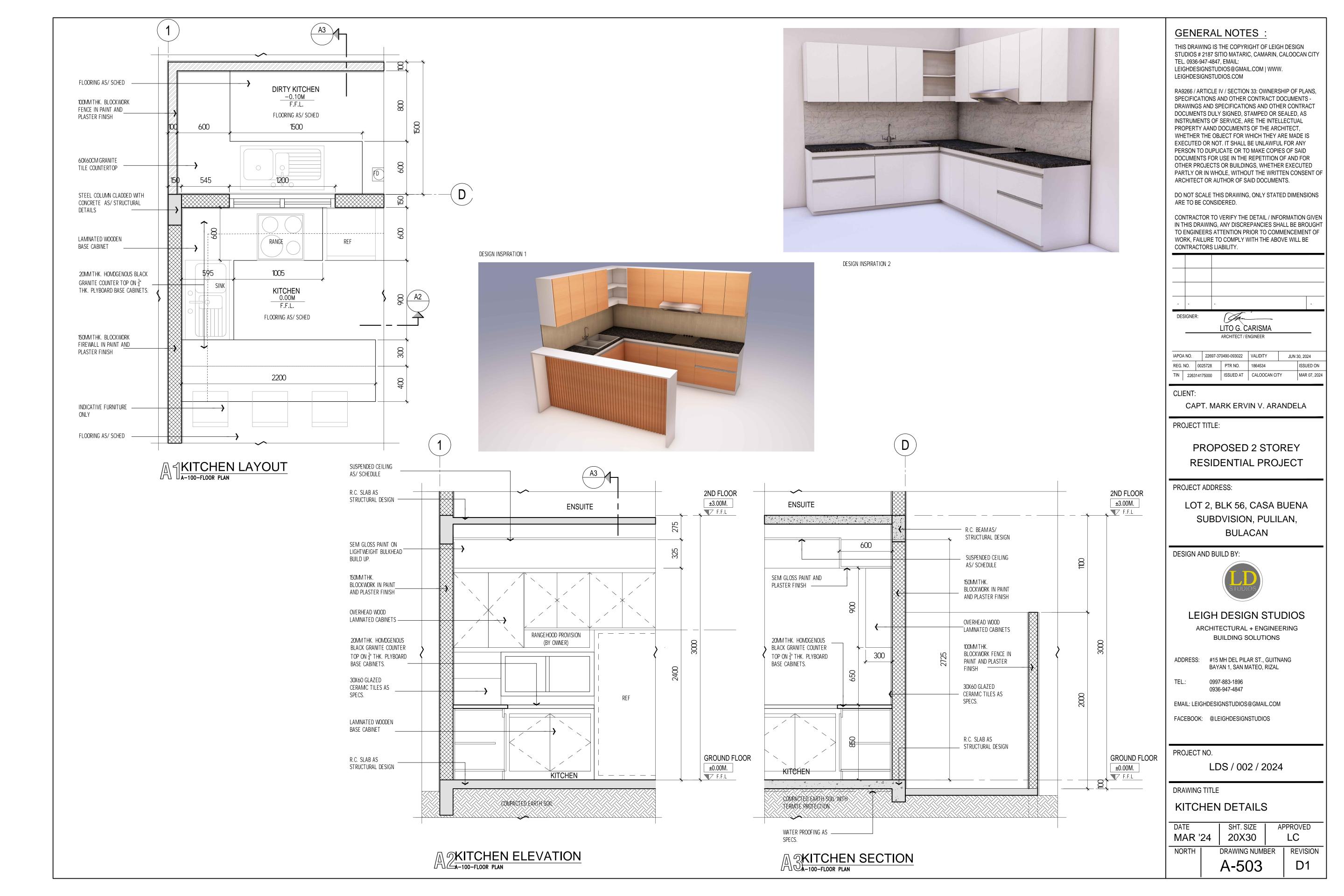
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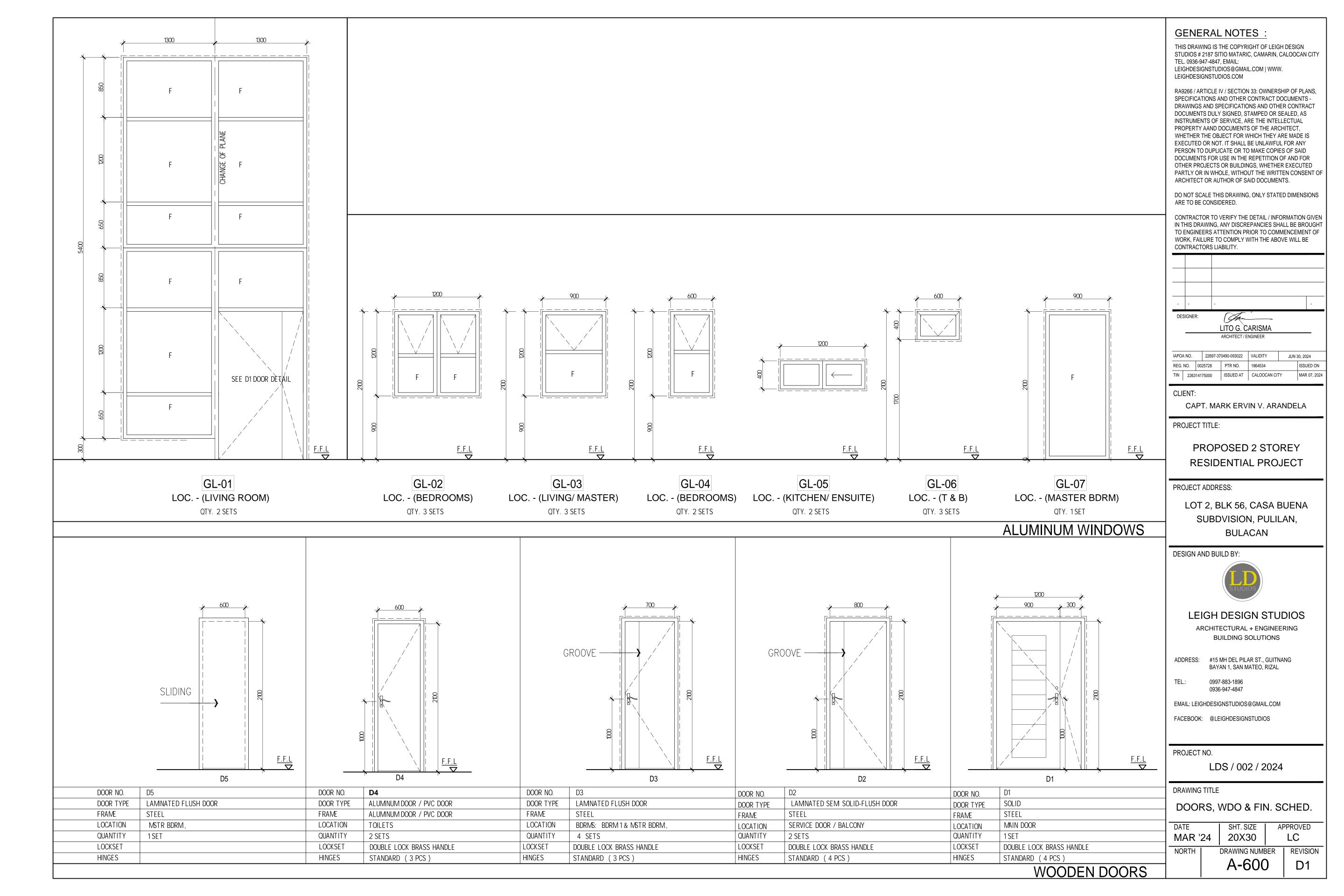
LDS / 002 / 2024

DRAWING TITLE

STAIRCASE DETAILS

		A-502	<b>)</b>	D1	
NORTH		DRAWING NUM	REVISION		
MAR '	24	20X30	LC		
DATE		SHT. SIZE	<b>A</b> F	PPROVED	





## CONSTRUCTION GENERAL NOTES

- A. GENERAL NOTES:
- DISTANCES OR SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES
- THE CONTRACTOR SHALL COORDINATE WITH THE AR, ME, SE, EE, AND OTHER UTILITIES AND EQUIPMENT PLANS FOR THE EXACT SIZE, NUMBER AND LOCATIONS OF ALL SLEEVES OR OPENINGS THRU FLOOR SLABS, BEAMS AND WALLS AND ALSO BUILDING DIMENSIONS
- ALL REINFORCED CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE ACI-318-14 BUILDING CODE, AND ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS (LATEST EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENTS.
- 4. ALL SLABS, BEAMS, GIRDERS AND OTHER STRUCTURAL ELEMENTS WHICH ARE NOT INDICATED DETAILED, DESIGNATED OR INADVERTENTLY OMITTED BUT ARE NECESSARY TO BE COORDINATED WITH ARCHITECTURAL AND OTHER ALLIED ENSINEERING PLANS AS WELL AS TO COMPLETE THE STRUCTURAL WORKS IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS THE CONTRACTOR HAS PROVIDED AND INCLUDED ALL THESE ITEMSIN THEIR BID.
- B. NOTES ON CONCRETE MIXES AND PLACING
- . UNLESS OTHERWISE INDICATED IN PLANS OR NOTED IN THE SPECIFICATIONS THE MINIMUM 28-DAYS CYLINDER COMPRESSIVE STRENGTH OF CONCRETE f'c, SHALL BE AS FOLLOWS: 1.1 PILE CAPS, BORED PILES 21 MPa (3000 psi)
- 1.2 PEDESTAL 21 MPa (3000 psi) 1.3 FLOOR SLABS, FOOTING, BEAMS & GIRDERS 21 MPa (3000 psi)
- 1.4 PARTITIONS, CURTAIN WALLS, BEDDED SLABS, SIDEWALKS, 17.50 MPa (2500 psi) CURB, GUTTER & OTHER STRUCTURAL ELEMENTS.
- CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION, REHANDLING OR FLOWING, PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKETS OR WHEEL BARROWS. NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEEL BARROWS OR BUCKETS, IN WHICH CASE, THEY
- NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATION IS EXTREMELY DIFFICULT TO ACCOMPLISH.

SHALL NOT EXCEED SIX THOUSAND (6000mm) IN AGGREGATE LENGTH

- C. NOTES ON REINFORCING STEEL BARS
- ALL REINFORCING STEEL BARS SHALL BE NEW BILLET, HOT ROLLED, WELDABLE, DEFORMED BARS CONFORMING TO THE SPECIFICATIONS OF PNS 49: 1986 (ASTM 615) .AND ASTM A706 (GR. 60. WELDABLE) WHOSE GRADE IS SHOWN ON TABLE 1

TAB	LE-1
GRADE	BAR DIAMETER
GRADE 275 (fy = 40 ksi)	FOR 12MM AND SMALLER DIAMETERS
GRADE 414 (fy = 60 ksi)	FOR 16MM AND LARGER

- THE SUPPLEMENTARY REQUIREMENTS OF WELDABLE DEFORMED REINFORCING BARS SHALL BE AS FOLLOWS:
- 2.1 THE MAXIMUM YIELD STRENGTH OF WELDABLE BARS = 540 MPa.
- 2.2 THE TENSILE STRENGTH SHALL NOT BE LESS THAN 1.25 TIMES THE ACTUAL YIELD
- 3. ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS, SECURED IN THE REQUIRED LOCATION IN ACCORDANCE WITH WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE BUILDING CODE AND THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI-315.
- THE REQUIRED LENGTH OF LAP FOR TENSION SPLICES IS BASED ON THE DEVELOPMENT LENGTH, Ld, SHOWN IN TABLE 2 FOR RC BEAMS AND GIRDERS, ON THE FOLLOWING CLASSIFICATIONS:
- 6. TOP BARS ARE HORIZONTAL BARS WITH AT LEAST 300 mm OF CONCRETE CAST BELOW IT.

TENSION SPLICE

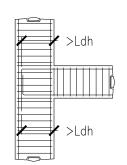
	02.	0011 101 111011				
	С	LASS A		1.0 Ld		
	C	LASS B		1.3 Ld		
			TABLE-2			
DEVELO	PMENT LENGT	H, Ld, IN TE	NSION FOR R	.C. BEAMS,	GIRDERS &	COLUMNS
		(PRISMAT	IC & NON-P	RISMATIC)		
BAR SIZE		56 MPa 0 psi)		42 MPa O psi)		28 MPa 10 psi)
(mm)	TOP BARS (mm)	OTHERS (mm)	TOP BARS (mm)	OTHERS (mm)	TOP BARS (mm)	OTHERS (mm)
10ø	300	300	300	300	325	300
12ø	300	300	320	300	390	300
16ø	550	425	635	490	775	600
20ø	685	530	795	610	970	750
25ø	1060	815	1225	940	1500	1155
28ø	1185	915	1370	1055	1680	1290
32ø	1355	1045	1565	1205	1915	1475
36ø	1525	1175	1760	1355	2155	1660

SPLICE LENGTH

NOTE: FOR BUNDLED BARS (3 BUNDLES/4 BUNDLES) MULTIPLY ABOVE TABLE BY 1.3

TABLE-3  DEVELOPMENT LENGTH FOR STANDARD HOOKS IN TENSION, Ldh							
BAR SIZE	fc' = 21MPa (3,000 psi)	fc' = 28MPa (4,000 psi)	fc' = 35MPa (5,000 psi)	fc' = 42MPa (6,000 psi)	fc' = 56MPa (8,000 psi)		
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
10ø	220	190	170	155	135		
12ø	265	230	205	185	160		
16ø	350	305	270	250	215		
20ø	435	380	340	310	270		
25ø	545	470	420	385	335		
28ø	610	530	475	430	375		
32ø	695	605	540	495	425		
36ø	785	680	605	555	480		

 $\psi_{\rm e} = 1.0$  (NON-EPOXY COATED REINFORCEMENT). FOR BUNDLED BARS (3 BUNDLES/4 BUNDLES) MULTIPLY ABOVE TABLE BY 1.3



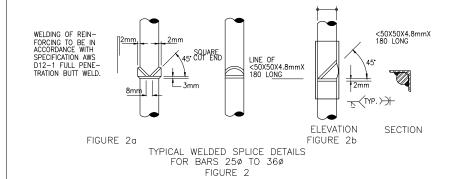
COLUMN TO BEAM CONNECTION DETAIL FIGURE 1

ABLE 4.

Tł	HE REQUIRED	D LENGTH OF LAP FOR	COMPRESSION SPLICES	SHALL BE AS SHOWN II	√ TAE
	TABL	E-4 LENGTH OF L	AP COMPRESSION	SPLICES(mm)	
	BAR SIZE (mm)	f'c = 21.0 MPa (3,000psi)	f'c = 28.0 MPa (4,000psi)	f'c = 34.5 MPa (5,000psi)	
	16	420	390	360	
	20	540	510	450	
	25	720	600	540	
	28	810	720	690	
	32	900	780	720	
	36	990	900	810	

A FULL WELDED SPLICES SHALL HAVE BARS BUTTED AND WELDED TO DEVELOP IN TENSION AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH fy, OF THE BAR.

(SEE FIGURE 1a &1b)



- 9. ALL WELDING OF REINFORCEMENT SHALL CONFORM TO THE PROVISIONS OF THE STRUCTURAL WELDING CODE-REINFORCING STEEL, AWS D1.4
- A FULL MECHANICAL CONNECTION (REBAR SPLICER) SHALL DEVELOP IN TENSION OR COMPRESSION, AS REQUIRED, 125 PERCENT OF THE SPECIFIED YIELD STRENGTH fy, OF THE BAR. IF USED, SUBMIT SAMPLE FOR APPROVAL OF THE STRUCTURAL ENGINEER.
- 11. CLEAR CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS:
- 1) CONCRETE CAST AGAINST EARTH 2) CONCRETE EXPOSED TO EARTH OR WEATHER-20 mm TO 36 mm BARS 16 mm BARS AND SMALLER 3) CONCRETE NOT EXPOSED TO EARTH OR WEATHER-
  - SLABS, WALLS, JOINTS BEAMS AND COLUMNS
- D. NOTES ON FOUNDATION
- 1. THE FOUNDATION IS DESIGNED WITH AN ASSUMED 100kPg SOIL BEARING CAPACITY ACTUAL DEPTH OF FOOTING MAY VARY DEPENDING ON THE ACTUAL CONDITION OF SOIL.

  THE STRUCTURAL ENGINEER MUST BE INFORMED IMMEDIATELY UPON EXCAVATION ON THE SOIL CONDITION.

  START OF FOOTING WORKS SHALL NOT COMMENCE WITHOUT THE REVALIDATION OF THE SIGNED ENGINEER,
- BE EMBEDDED AT LEAST 800mm FROM THE NATURAL GRADE LEVEL,
- 3. PROVIDE TEMPORARY REMOVAL OF WATER FROM ANY SOURCE DURING CONSTRUCTION. DEWATERING SHALL BE CAREFULLY AND PROPERLY PERFORMED TO AVOID DISTURBING THE FOUNDATIONS AND SLAB BEARING SURFACES.
- 4. CONTRACTOR SHALL DESIGN, INSTALL AND MONITOR EXCAVATIONS RETENTION SYSTEMS, AS REQUIRED FOR PROTECTION OF ADJACENT PROPERTIES AND PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO MINIMIZE SETTLEMENT AND PREVENT DAMAGE TO ADJACENT EXISTING OR NEW CONSTRUCTION.
- PREPARE CONDITIONS OF CONCRETE SUPPLY AND PLACEMENT OF THE COMPLETE FOUNDATION FOR THE FULL THICKNESS AS A CONTINUOUS MONOLITHIC CASTING.
- 6. DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL GROUND FLOOR SLABS HAVE BEEN PLACED AND THE CONCRETE HAS ATTAINED THE REQUIRED STRENGTH.
- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL ELEVATOR DETAILS, REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND OTHER TRADES FOR SUBSOIL DRAINAGE SYSTEM, MACHINERY ANCHORS AND OTHER EMBEDDED ITEMS, DEPRESSIONS, FINISHES, DOWELS FOR MASONRY WALLS, CURBS, ETC
- 8. SEE TYPICAL DETAIL OF LIMITING SLOPE OF ADJACENT FOOTING AT DIFFERENT ELEVATION. (REFER TO FIGURE 3)

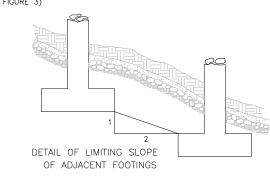
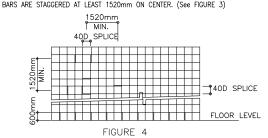


FIGURE 3

- E. NOTES ON SLAB-ON-GRADE
- 1. THE SOIL SUBGRADE AND FILL LAYERS BELOW ALL SLABS ON GRADE, PAVING AND PIT SLABS SHALL BE MECHANICALLY COMPACTED IN LAYERS TO A MINIMUM OF 95 PERCENT OF THE MODIFIED PROCTOR DENSITY, PER ASTM D1557.
- 2. ALL SLABS-ON-GRADE SHALL BE PROVIDED WITH A MINIMUM OF 100mm THK. COMPACTED CLEAN COARSE GRAVEL BED, EXCEPT AS OTHERWISE DETAILED IN THE PLANS.
- UNLESS OTHERWISE NOTED, ALL BEDDED SLABS SHALL BE REINFORCED WITH 10mm BARS AT 200mm O.C. EACH WAY AT THE UPPER THIRD PORTION OF THE SLAB.
- 4. PLACE CONCRETE FOR ALL SLABS—ON—GRADE IN CHECKERBOARD FASHION BETWEEN CONSTRUCTION JOINTS IN AREAS NOT TO EXCEED 300 SQ. METERS WITH A MINIMUM OF 24 HOURS BETWEEN ADJACENT AREAS OF PLACEMENT. CONSTRUCTION JOINTS SHALL NOI BE FARTHER APART THAN 8.00 METERS IN ANY DIRECTION. ALL SLABS ON GRADE SHALL BE SAW CUT ON EACH GRID LINE AND MID BAY LINE (IN BOTH DIRECTIONS) WITHIN 24
- F. NOTES ON CONCRETE WALLS
- 1. ALL WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF WALL REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS. (REFER TO TABLE-5)

	TABLE-5	SCHEDULE OF WALL	REINFORCEMENT	
WALL THICKNESS	REINFO	RCEMENT	D E H A D K C	VERTICAL
(mm)	HORIZONTAL	VERTICAL	REMARKS	SECTION
100	10mm @ 250 o.c.	10mm @ 300 o.c.	HORIZONTAL BAR AT CENTER VERTICAL BARS STAGGERED OUTSIDE	$\Box$
125	10mm @ 200 o.c.	10mm @ 250 o.c.	DITTO	]   <b>!</b>
150	12mm @ 288 o.c.	12mm @ 250 o.c.	DITTO	7   •
175	20mm @ 250 o.c.e.f.	12mm @ 200 o.c.e.f.	DITTO	] 🔱
200	10mm @ 288 o.c.e.f.	10mm @ 250 o.c.e.f.	BOTH FACES HORIZONTAL SHALL BE OUTSIDE	]_
225	12mm @ 200 o.c.e.f.	12mm @ 228 o.c.e.f.	DITTO	
250	12mm @ 250 o.c.e.f.	12mm @ 300 o.c.e.f.	DITTO	71141
275	12mm @ 228 o.e.e.f.	12mm @ 250 o.e.e.f.	DITTO	7
300	12mm @ 200 o.c.e.f.	12mm @ 250 o.c.e.f.	DITTO	7111
350	12mm @ 180 o.c.e.f.	12mm @ 200 o.c.e.f.	DITTO	711.11
400	16mm @ 330 o.c.e.f.	16mm @ 355 o.c.e.f.	DITTO	7 IJ [[

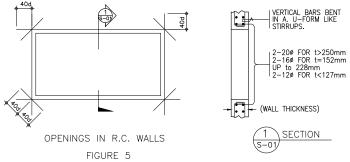
- REINFORCING BARS SHALL HAVE 25mm MINIMUM CLEAR DISTANCE FROM WALL FACE EXCEPT FOR WALLS DEPOSITED AGAINST THE GROUND WHERE A MINIMUM OF 63mm SHALL BE PROVIDED AND FOR EXPOSED FACES OF FORMED WALLS WHERE THE MINIMUM SHALL BE 50mm, CLEAR FOR BARS LARGER THAN 16mm, AND 38mm FOR 16mm BARS OR SMALLER
- WALLS END. HORIZONTAL AND VERTICAL BARS SHALL BE SPLICED BY LAPPING A DISTANCE EQUAL TO 40 DIA. AND WIRED SECURELY WITH NO. 16 G.I. WIRE PROVIDED THAT SPLICES IN ADJACENT BARS ARE STAGGERED AT LEAST 1520mm ON CENTER. (See FIGURE 3)



- UNLESS OTHERWISE NOTED IN THE PLANS ALL OPENINGS IN WALLS 250mm OR THICKER SHALL BE REINFORCED AROUND WITH 2-20mm BARS, FOR 225mm-,200mm-,175mm-, 150mm THK WALLS, USE 2-16mm BARS. FOR 125mm THK. WALLS, USE 2-12mm BARS.
- LIKE STIRRUPS AND SPACED ACCORDING TO THE SCHEDULE UNLESS OTHERWISE NOTED.

  (REFER TO SECTION 1 ON FIGURE 5) ALL CONCRETE WORKS SHALL BE REINFORCED WITH BARS OF AREA AT LEAST EQUAL TO THAT SPECIFIED IN ACI 318-89 BUILDING CODE.

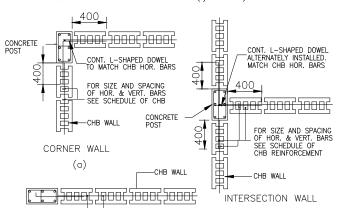
ALL WALL OPENING SHALL HAVE VERTICAL REINFORCEMENT BENT TO A U-FORM

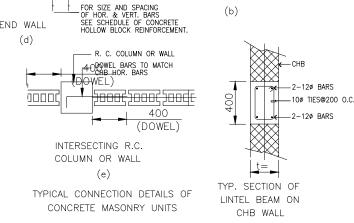


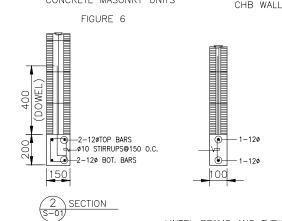
- G. NOTES ON MASONRY WALLS
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION AND UNIFORM BUILDING CODE.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 GRADE N, WITH A MINIMUM COMPRESSIVE STRENGTH OF 5 MPa (700 psi).
- MORTAR AND GROUT FOR ALL REINFORCED MASONRY SHALL CONFORM TO ASTM 270-TYPE M AND SHALL HAVE A MINIMUM 28-DAYS STANDARD CYLINDER COMPRESSIVE OF 21 MPa(3000 PSI).
- ALL MASONRY WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF CONCRETE HOLLOW BLOCK REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS.

- ALL CELLS CONTAINING REINFORCING BARS OR INSERTS SHALL BE COMPLETELY FILLED WITH CONCRETE GROUT.
- 6. FOR TYPICAL CONNECTION DETAILS ON MASONRY UNITS, REFER TO FIGURES 6, 7 & 8

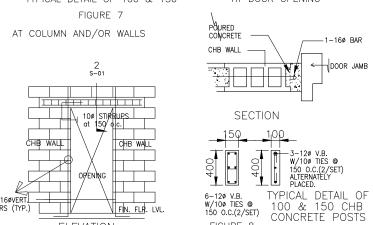
IABLE-6							
SCHEDULE OF CONCRETE HOLLOW BLOCK REINFORCEMENT							
BLOCK	REINFO	RCEMENT	N O T E				
THICKNESS mm	HORIZONTAL	VERTICAL	NOTE				
100	10ø@600mm o.c.	10mm@400mm 0.C.	A. MINIMUM LAP SPLICES = 30 DIA.  B. PROVIDE 1-160 VERTICAL BAR ⊕  CORNERS, INTERSECTIONS, END OF WALLS, AND EACH SIDE OF OPENING.				
150	12ø@600mm o.c.	12mm@400mm 0.C.	C. WHERE CHB WALLS ADJOIN COLUMNS RC BEAMS & WALLS DOWELS WITH THE SAME SIZE AS VERTICAL OR HORIZONTAL REINFORCEMENT SHALL BE PROVIDED.				
			D. LINTEL BEAMS SHALL BEAR AT LEAST  16 INCHES (400 mm) ON EACH SIDE OF MASONRY WALL OPENING.				
200	12ø@600mm o.c.	12mm@400mm 0.C.	E. PROVIDE POST & LINTEL BEAM @ 3000 O.C.				
NOTE: ALL REBAR FOR CHB IS GRADE 275 (fy = 40ksi)							

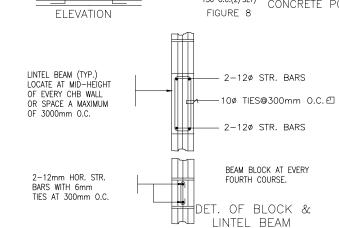






LINTEL BEAMS AND TYPICAL DETAILS TYPICAL DETAIL OF 100 & 150





- H. NOTES ON CONCRETE SLABS ALL SLAB REINFORCEMENTS SHALL HAVE A MINIMUM CLEAR DISTANCE OF 20mm FROM THE BOTTOM AND FROM THE TOP OF SLABS.
- 2. UNLESS OTHERWISE DETAILED, FOR CONTINUOUS SLABS WITH THE MAIN REINFORCEMENT RUNNING IN ONE DIRECTION, REINFORCING BARS SHALL BE BENT UP, EXTENDED OR CUT AS SHOWN IN THE SLAB SCHEDULE
- 3. IF SLABS ARE REINFORCED BOTHWAYS, BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONG SPAN AT THE CENTER OF THE SLAB AND BE PLACED OVER THE LONGER SPAN BARS ON AREAS NEAR THE SUPPORTS. THE SPACING OF THE BARS AT THE COLUMN STRIPS SHALL BE APPROXIMATELY ONE AND ONE-HALF (1-1/2) TIMES THAT IN THE MIDDLE STRIPS BUT IN NO CASE GREATER THAN TWO AND ONE-HALF (2-1/2) TIMES THE SLAB THICKNESS OR 450mm.
- 4. TEMPERATURE BARS FOR SLABS SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN .0025 BT(SEE SCHEDULE).

ADDITIONAL REINFORCEMENT AT THE LOCATION OF DROP AS SHOWN IN

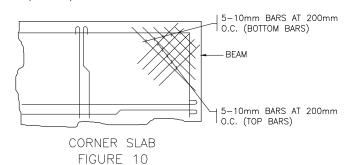
5. UNLESS OTHERWISE NOTED, DROP SLABS SHALL BE PROVIDED WITH

\_\_\_ 10mm ADDITIONAL TIES AT 150mm O.C. - 4-10mm CONT. <u>VLDROP</u> OF SLAB 300mm L/5 CLEAR SPAN I

DROP SLAB

FIGURE 9

6. PROVIDE EXTRA REINFORCEMENT FOR CORNER SLAB (TWO ADJACENT DISCONTINUOUS EDGES) AS SHOWN BELOW AND AT ENDS AND CORNERS OF SHEAR WALL (See FIG.10)



- 6. SEE MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR ALL SUSPENDED AND EMBEDDED PIPING CONDUITS DUCTWORK EQUIPMENT ETC.
- 7. UNLESS OTHERWISE NOTED, EMBEDDED CONDUITS SHALL BE RUN GENERALLY AT MID—BAY AND PARALLEL CONDUITS SHALL BE AT THREE DIAMETERS ON CENTER.
  CONDUIT SIZE NOT EXCEED 1/4 OF THE SLAB THICKNESS AND SHALL BE LOCATED AT MID THICKNESS OF THE SLAB.
- I. NOTES ON COLUMNS
- 1. WHERE COLUMNS CHANGE IN SIZE, VERTICAL REINFORCEMENTS SHALL BE OFFSET PER ITEM E BELOW FOR JOINTS WITHBAR OFFSETS. (AS SHOWN ON FIGURE 11)

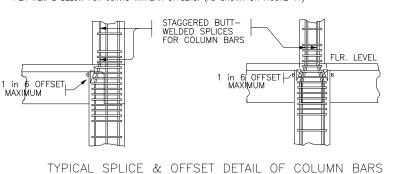
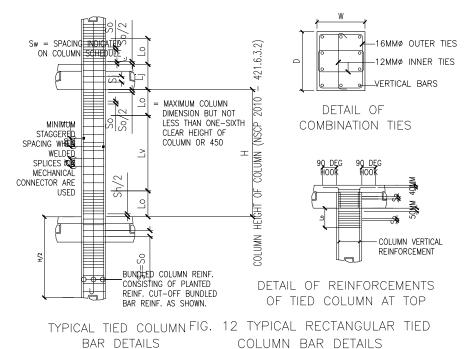


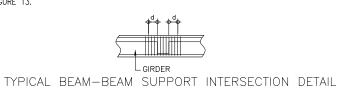
FIG. 11

- 2. LAP SPLICES, WHEN REQUIRED, ARE PERMITTED ONLY WITHIN THE CENTER HALF OF THE COLUMN LENGTH AND SHALL BE PROPORTIONED AS TENSION SPLICES. IN NO CASE SHALL THE LAP SPLICE BE LOCATED CLOSER THAN A DISTANCE EQUAL TO THE MAXIMUM COLUMN DIMENSION FROM THE ACE OF THE BEAM-COLUMN JOINT PROVIDE EXTRA TRANSVERSE REINFORCEMENT OF THE SAMI SIZE AND ARRANGEMENT INDICATED IN THE COLUMN SCHEDULE SPACED AT MOST ONE-FOURTH THE MINIMUM COLUMN SECTION DIMENSION THROUGHOUT THE LENGTH OF THE SPLICE OR 100mm
- 3. WELDED SPLICES AND MECHANICAL CONNECTIONS MAY BE USED AT ANY SECTION PROVIDED NOT MORE THAN ALTERNATE BARS IN EACH LAYER AT LONGITUDINAL REINFORCEMENT ARE SPLICED AT ANY SECTION AND THE CENTER TO CENTER DISTANCE BETWEEN SPLICES OF ADJACENT BARS MUST BE  $600 \mathrm{mm}$  OR MORE MEASURED ALONG THE AXIS OF THE COLUMN.
- 4. WELDED SPLICES AND MECHANICAL CONNECTIONS SHALL BE AS INDICATED UNDER ITEMS 8, 9, AND 10 OF THE NOTES ON REINFORCING STEEL BARS ON SHEET S - 1.
- 5. FOR ALL TIFD COLUMNS, PROVIDE TRANSVERSE REINFORCEMENT OF THE SAME SIZE AND ARRANGEMENT INDICATED IN THE COLUMN SECTION SCHEDULE AND SPACED NO GREATER THAN ONE-QUARTER THE MINIMUM COLUMN SECTION DIMENSION NOR 100mm, OVER A DISTANCE FROM EACH JOINT FACE OF NOT LESS THAN THE LARGER OF THE MAXIMUM COLUMN SECTION DIMENSION, OR ONE-SIXTH OF THE CLEAR HEIGHT OF THE COLUMN OR 450mm
- 6. BEAM-COLUMN JOINTS SHALL BE PROVIDED WITH TRANSVERSE REINFORCEMENT SPACED AT TWICE THAT REQUIRED BY ITEM E WHEN THERE ARE BEAMS HAVING WIDTHS AT LEAST ONE—HALF TH COLUMN WIDTH AND DEPTHS NOT LESS THAN THREE—QUARTERS OF THE DEEPEST BEAM THAT FRAME INTO FOUR SIDES OF THE COLUMN. FOR ALL OTHER CONDITIONS PROVIDE SAME SPACING AS REQUIRED IN ITEM 5.
- 7. UNLESS OTHERWISE DETAILED, TYPICAL BAR DETAILS FOR TIED COLULMNS ARE AS SHOWN IN



- Sj = 100 MM O.C MAX., EXCEPT AS INDICATED IN SCHEDULE.
- So = 100 MM O.C. MAX., EXCEPT AS INDICATED IN SCHEDULE (SEE COLUMN SCHEDULE FOR TIES)
- Sv = 150 MM O.C., MAX.
- H = FLOOR TO FLOOR HEIGHT OF COLUMN Lv = PART OF COLUMN BEYOND CONFINEMENT REGION
- Lo. Li = CONFINEMENT REGION
- J. NOTES ON BEAMS AND GIRDERS
- UNLESS OTHERWISE NOTED IN PLANS OR SPECIFICATIONS, CAMBER ALL BEAMS AT LEAST 6mm FOR EVERY 4500mm OF SPAN EXCEPT FOR CANTILEVERS FOR WHICH THE CAMBER SHALL BE AS NOTED IN THE PLANS OR AS ORDERED BY THE STRUCTURAL ENGINEERS 2. IF THERE ARE TWO OR MORE LAYERS OF LONGITUDINAL REINFORCING BARS IN A BEAM OR GIRDER, USE SEPARATORS OF A SIZE NOT LESS THAN 25mm BARS SPACED ABOUT 900mm ON CENTER. IN CASE SHALL THERE BE LESS THAN TWO (2) SEPARATORS
- BETWEEN LAYERS OF BARS.

  LONGITUDINAL REINFORCING BARS SHALL BE PLACED SYMMETRICALLY ABOUT THE VERTICAL CENTER LINE OF THE BEAM OR GIRDER SECTION WHERE POSSIBLE WITH UPPER LAYER BARS PLACED DIRECTLY ABOVE THOSE IN THE BOTTOM LAYER. 4. MINIMUM CONCRETE PROTECTION OF REINFORCING BARS OR SHAPES SHALL BE AS SHOWN



WHEN A BEAM CROSSES A GIRDER, REST BEAM BARS ON TOP OF THE GIRDER BARS, PROVIDE ADDITIONAL TIES AS SHOWN IN FIGURE 14 WHEN BEAMS OF DIFFERENT TOP ELEVATIONS CROSS A GIRDER.

FIG. 14

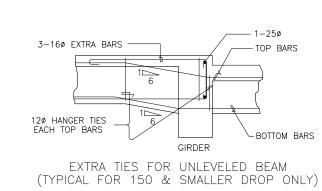
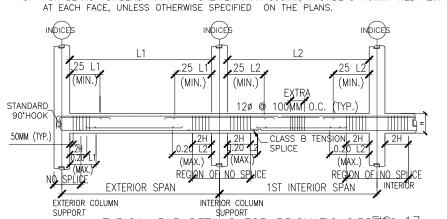


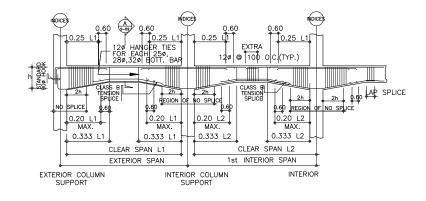
FIG. 15

#### TYPICAL BAR DETAILS FOR BEAMS FIG. 16

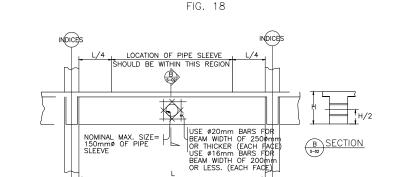
- 13. PIPE AND DUCT SLEEVES SHALL BE LOCATED BEYOND THE REGION BOUNDED BY ONE-FOURTH OF CLEAR SPAN LENGTH FROM THE SUPPORTS. (SEE FIGURE 18)
- 14. SHEAR REINFORCEMENT SHALL BE IN THE FORM OF HOOPS IN REGIONS WHERE CONFINEMENT
- IS REQUIRED. SINGLE-AND TWO-PIECE HOOPS SHALL BE AS DETAILED IN FIGURE 20. 15. FOR BEAMS GIRDERS WITH "h" GREATER THAN 900MM, PROVIDE 5-16MMØ WEB REINFORCEMENT\$



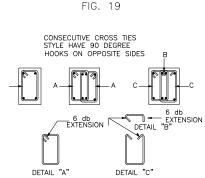
TYPICAL BAR DETAILS FOR PRISMATIC GIRDERS 17



#### EACH 25ø,28ø & 32ø B. BARS 12ø HANGER TIES A SECTION TYPICAL BAR DETAILS FOR HAUNCHED GIRDERS

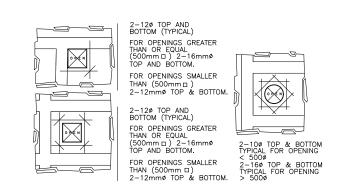


TYPICAL PIPE SLEEVE DETAIL

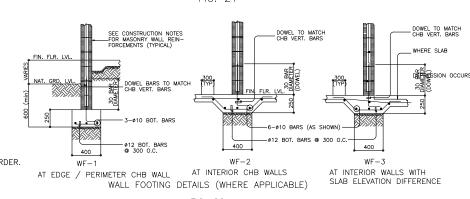


SINGLE - AND TWO - PIECE HOOPS

FIG. 20



TYPICAL SLAB OPENING DETAIL FIG. 21



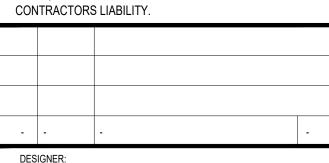
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CLIENT:

CAPT. MARK ERVIN V. ARANDELA

PROJECT TITLE:

PROPOSED 2 STOREY RESIDENTIAL PROJECT

PROJECT ADDRESS:

LOT 2, BLK 56, CASA BUENA SUBDVISION, PULILAN, BULACAN

**DESIGN AND BUILD BY:** 



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ARCHITECTURAL + ENGINEERING

BUILDING SOLUTIONS

ADDRESS: #15 MH DEL PILAR ST., GUITNANG BAYAN 1, SAN MATEO, RIZAL

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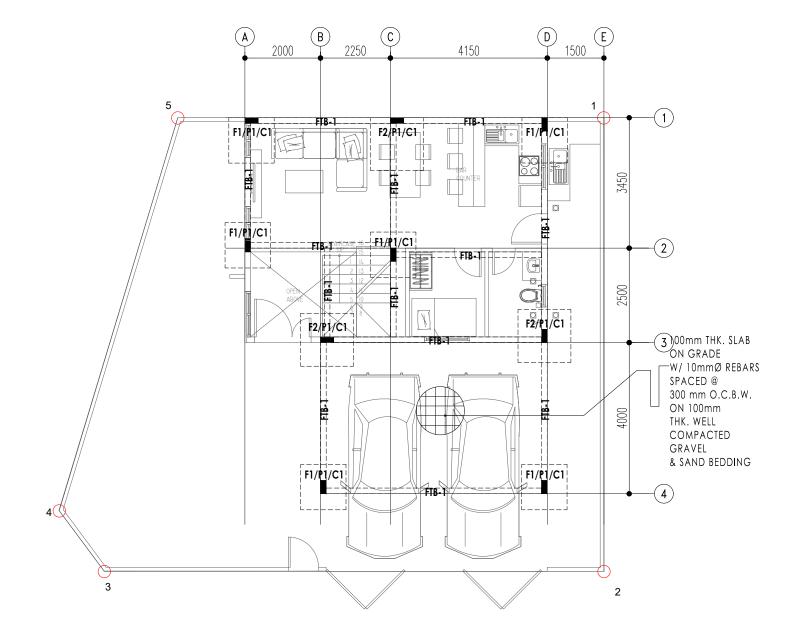
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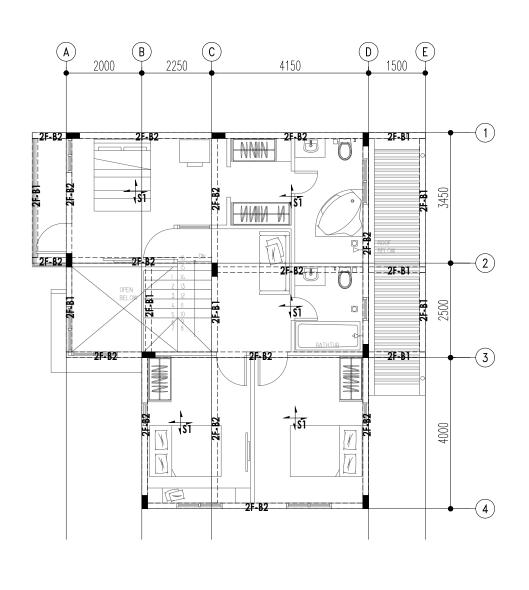
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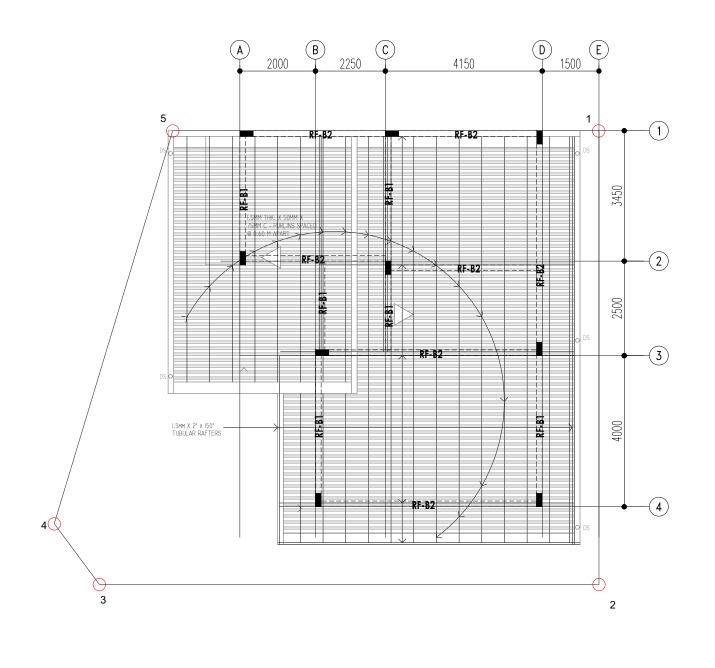
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CONSTRUCTION GENERAL NOTES

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3 RF FRAMING PLAN
SCALE: 1:100 MTS.

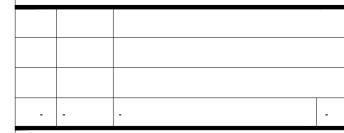
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PROJECT TITLE:

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ADDRESS: #15 MH DEL PILAR ST., GUITNANG

TEL.:

BAYAN 1, SAN MATEO, RIZAL

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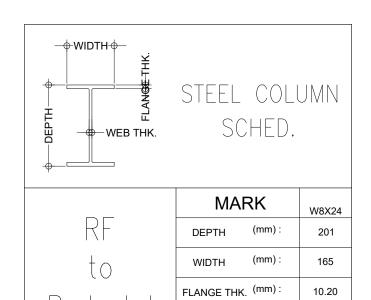
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FRAMING PLANS

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		S 2 3		D1



Pedestal

**SIDE VIEW** 

R.C. COLUMN PEDESTAL SCHED  NOTE: 415 Mpa for Rebars 3000 psi for concrete				
COLU MA		Р	1	
MARK  PEDESTAL LVL  TO  FDN LEVEL		VERTICAL BARS 6-Ø16		
TIES	ø10		00,REST@150 LE HEIGTH	

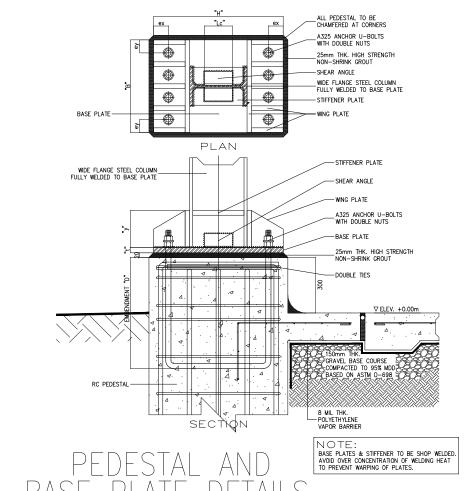
WEB THK. (mm):

6.22

DEPTH——HTDIW——WHT ELANGETHK.	STEEL S(	BE,		
	MAF	RK	RF-B1 W6x9	RF-B2 W8x10
	DEPTH	(mm) :	150	200
ROOF	WIDTH	(mm) :	100	100
	FLANGE THK.	(mm) :	5.46	5.21
	WEB THK.	(mm) :	4.32	4.32
	MAF	RK	2F-B1 W8x10	2F-B2 W8X24
	DEPTH	(mm) :	200	201
2F	WIDTH	(mm) :	100	165
	FLANGE THK.	(mm) :	5.21	10.20
	WEB THK.	(mm) :	4.32	6.22

MARK	BP-1
BASE PLATE	250mm("H") x 200mm("B") x 20mm("t") THK.
SHEAR ANGLE	16MM THK. Plate. (Lc=150mm)
STIFFENER/WING PLATE	6-16mm THK. / 16mm THK -150mm("y") HIGH
ANCHOR U-BOLT	6-SETS OF 20mmØ A325 U-BOLTS 600mm("d") DEEP EMBEDMENT

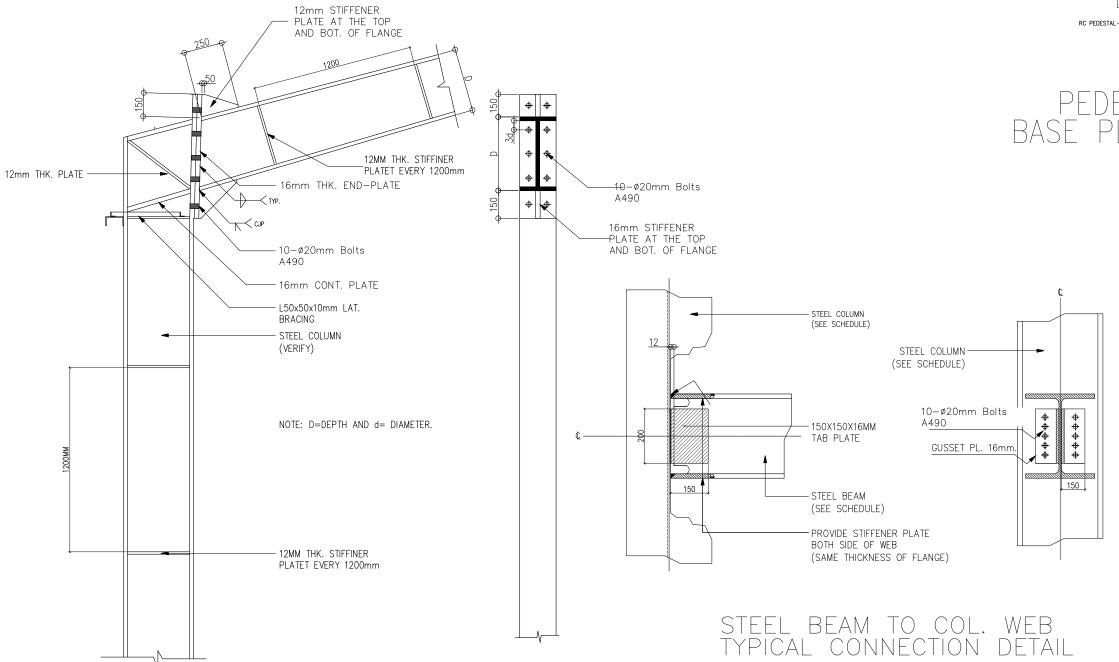
TYPICAL BASE PLATE DETAIL



STEEL DECK DETAIL

METALDECK /

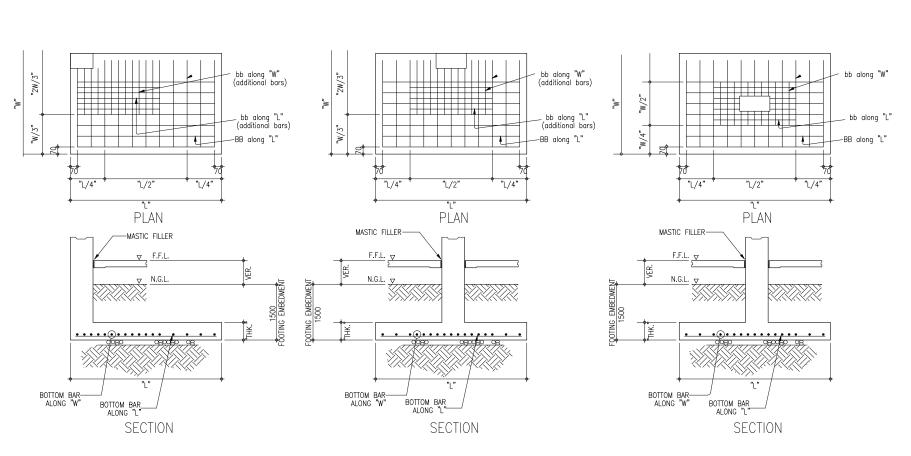
•	psi for concrete R.C. BEAM SCHEDULE  Mpa for Rebars						
LOCATION			DIMENSION (mm)		REINFORCEMENT BAR		
LOCATION	MARK	р	h	REBAR (mm)	LEFT SUPPORT	MID SUPPORT	RIGHT SUPPOR
ГПИ	ETD 4		400	10 d	3	3	3
F D IN	- [) N   FTB-1   200		400	16ø	3	3	3



**FRONT VIEW** 

STEEL RAFTER/BEAM TO COL. TYPICAL CONN. DETAIL

	SCHE	)ULE	OF FO	OTING		fC=3000 psi fy=415 Mpa	ASBC=1	25 KPA
FOOTING	FOOTING SIZ		M)		STEEL REQUIREMENTS		MINIMUM	TYPE
MARK	L	W	$\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	BAR Ø UNLESS OTHERWISE SPECIFIED	ALONG "L"	ALONG "W"	EMBEDMENT	IIFE
F-1	1200	1200	300	16	7	7	2000	ISOLATED
F-2	1400	1400	300	16	8	8	2000	ISOLATED



TYP. DET. OF ISOLATED FOOTING

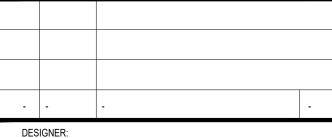
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RESIDENTIAL PROJECT

#### PROJECT ADDRESS:

LOT 2, BLK 56, CASA BUENA SUBDVISION, PULILAN, BULACAN

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ARCHITECTURAL + ENGINEERING
BUILDING SOLUTIONS

ADDRESS: #15 MH DEL PILAR ST., GUITNANG

BAYAN 1, SAN MATEO, RIZAL

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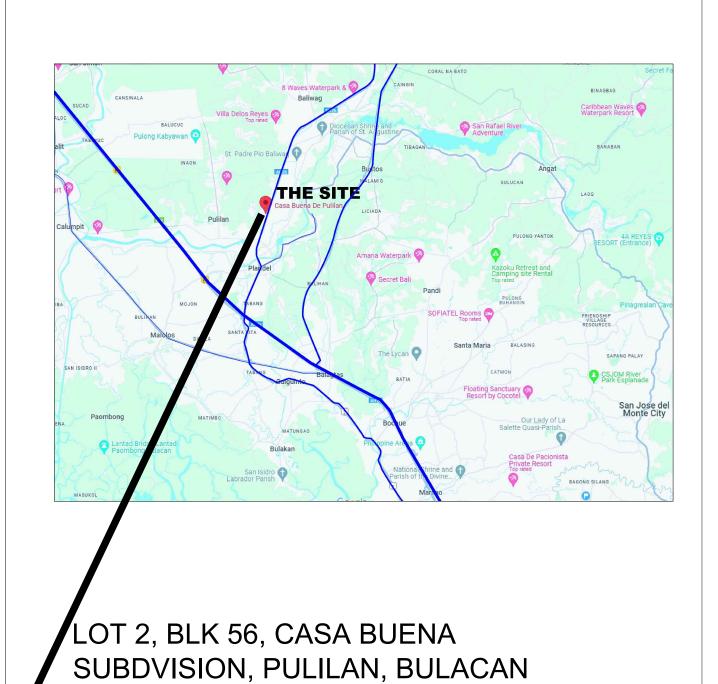
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NORTH		DRAWING NUME	BER	REVISION	_
		S 3 3		D1	



#### PLUMBING SYMBOLS



100/110 mmØ PVC POLYVINYL 100/150mmØ SP CHLORIDE 100/110mmØ SSP SOIL PIPE PVC/HDPE 100mmØ WC 100-150mmØ SP 100mmØ CO 75mmØ FD 50mmØ LAV. 50mmØ KS 50mmØ VTR 75mmØ DS

AD

CB

SOIL STACK PIPE WATER CLOSET SOIL PIPE PVC CLEAN OUT FLOOR DRAIN LAVATORY KITCHEN SINK **VENT THRU ROOF** DOWNSPOUT

AREA DRAIN CATCH BASIN FOR WATER LINE

3/4"Ø-11/2"Ø CWL COLD WATER LINE HOT WATER LINE (PPR) **GATE VALVE** 3/4"Ø WC SHOWER 3/4"Ø LAV. WATER CLOSET LAVATORY LAUNDRY SINK 3/4"Ø-11/2"Ø RISERAUCET HOSE BIBB RISER PIPE SEWER LINE

STORM DRAINAGE LINE WATER SUPPLY LINE

#### **PLUMBING NOTES:**

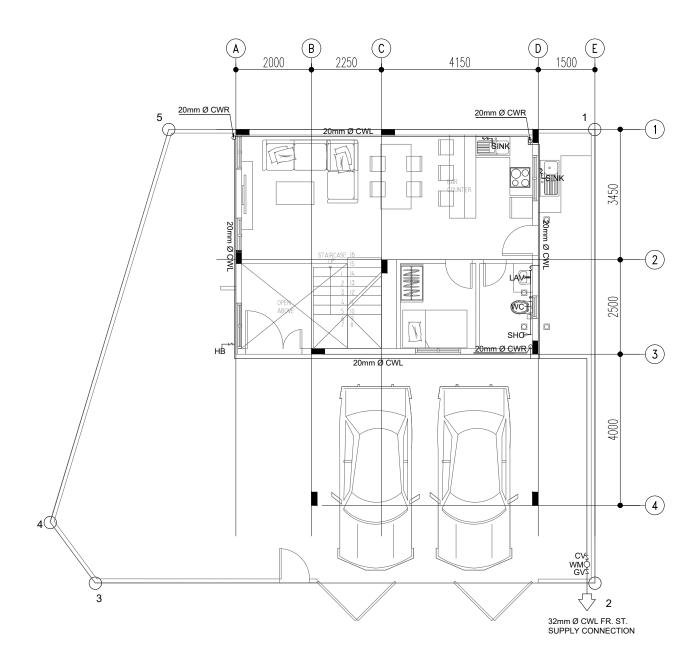
#### A . DRAINAGE SYSTEM :

- 1. SCHEDULE 40 POLYVINYL CHLORIDE (PVC) PIPES & FITTINGS SHALL BE USED FOR ALL SOIL, WASTE, STORM AND UNPOLLUTED WASTE DRAINAGE SYSTEM.
- 2. THE INSTALLATION IS GENERALLY SHOWN ON THE DRAWING.
- 3. DRAINAGE PIPING SYSTEM SHALL BE PROPERLY ALIGNED AND INSTALLED AT A UNIFORM SLOPE OF NOT LESS THAN 2 % AND ADEQUATELY SUPPORTED.
- 4. DRAINAGE SYSTEM SHALL BE ADEQUATELY VENTED. THE INSTALLATION IS SHOWN ON THE DRAWING.
- 5. ALL SECTION OF DRAINAGE AND VENT SYSTEM SHALL BE SUBJECT TO A WATER TEST OF NOT LESS THAN 3 METERS HEAD AND SHALL BE KEPT ON THE SYSTEM FOR NOT LESS THAN 15 MINUTES BEFORE INSPECTION

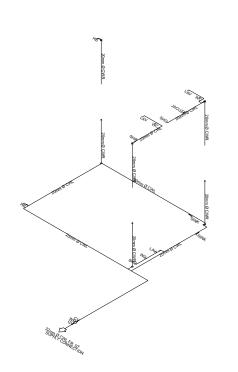
#### B. WATER SUPPLY SYSTEM:

- 1. LOCATION AND DESCRIPTIONOF SEPTIC TANK AND CATCH BASINS ARE SHOWN ON THE DRAWING.
- 2. PPR PIPES AND FITTING SHALL BE USE FOR ALL HOT AND COLD WATER SUPPLY SYSTEMS.
- 3. ALL SECTION OF HOT AND COLD WATER SYSTEM SHALL BE SUBJECTED TO AN AIR PRESSURE TEST OF NOT LESS THAN 344.5 KPa ( 50 Psi ) FOR NOT LESS THAN 15 MINUTES . PIPING MUST NOT LEAK WHEN
- 4. THE INSTALLATION OF WATER SUPPLY SYSTEM INCLUDING WATER PUMPS, STORAGE TANK, WATER HEATERS AND VALVES IS GENERALLY SHOWN ON THE DRAWING.

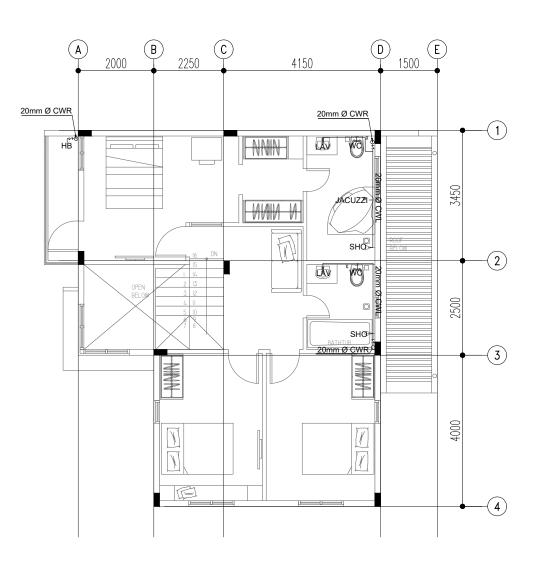
- 1. UNDERGROUND PIPES SHALL BE BURIED TO A MINIMUM DEPTH OF 30 CM. BELOW THE TOP OF THE GROUND AND AT A MINIMUM DISTANCE OF 60 CM. FROM THE BUILDING .
- 2. ALL PIPINGS PASSING THROUGH THE WALLS , SLABS , BEAMS OR ANY PART OF THE BUILDING , SHALL BE PROTECTED FROM BREAKAGE AND ALL CONNECTIONS SHALL NOT BE SUBJECTED TO UNDUE STRAIN AND
- 3. ALL PLUMBING WORKS PERFORMED SHALL BE CARRIED OUT OR UNDER THE SUPERVISION OF A FULLY LICENSED PLUMBER AND SHALL COMPLY IN ALL RESPECT TO THE LATEST UNIFORM PLUMBING CODE.
- 4. ALL MATERIALS, METHOD OF INSTALLATION AND QUALITY OF WORKMANSHIP SHALL BE SUBJECTED TO THE APPROVAL OF A SANITARY ENGINEER.



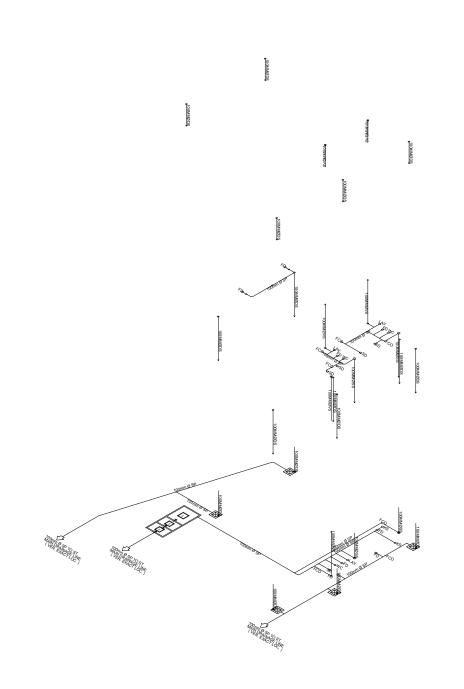














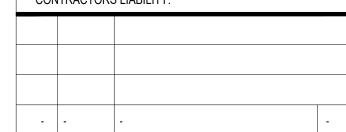
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CAPT. MARK ERVIN V. ARANDELA

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BAYAN 1. SAN MATEO. RIZAL

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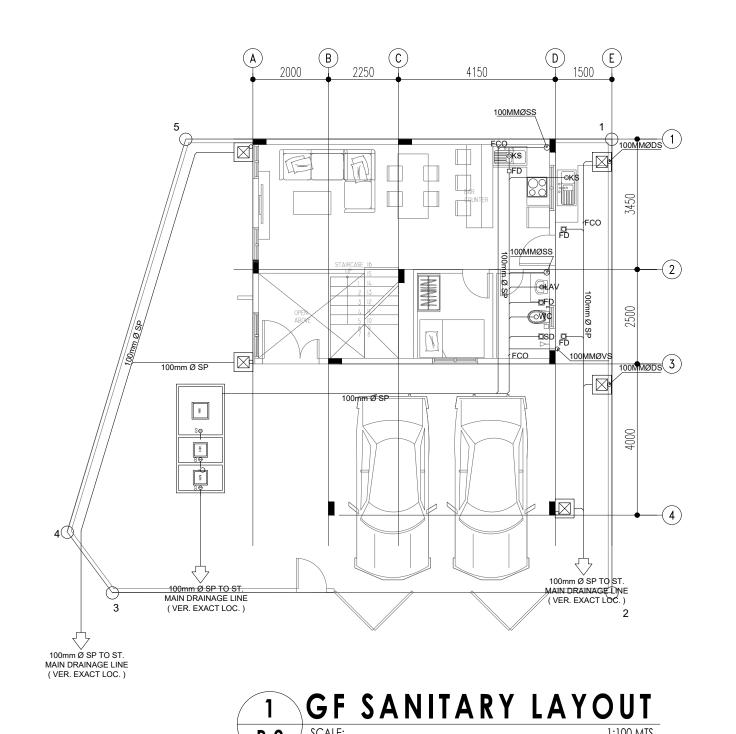
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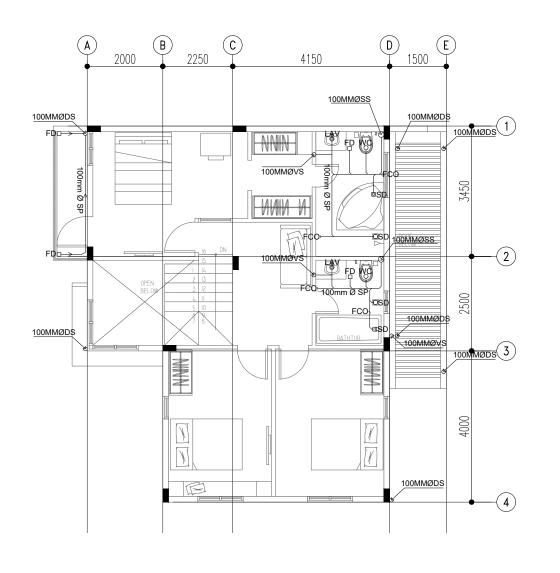
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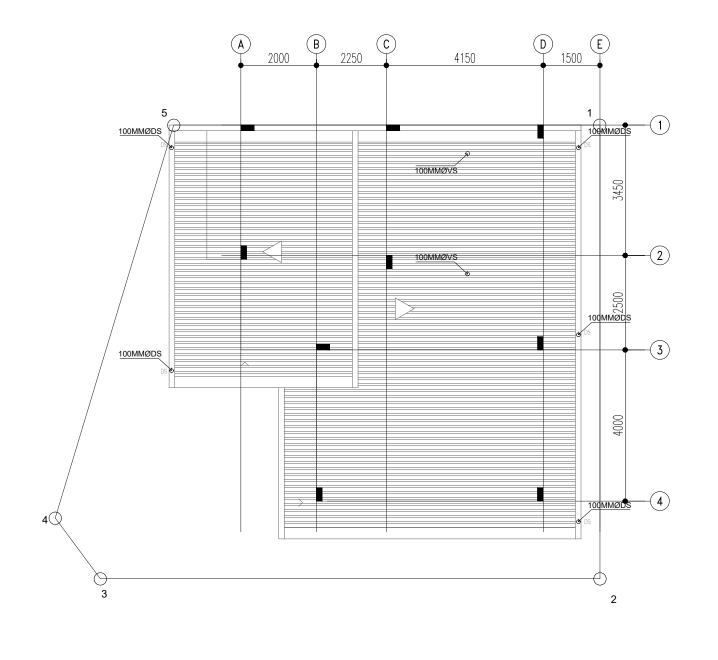
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WATERLINE LAYOUT & ISO VIEWS

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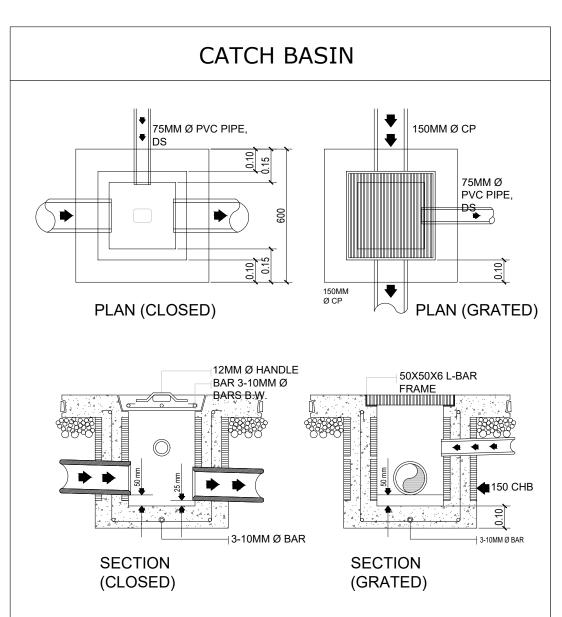


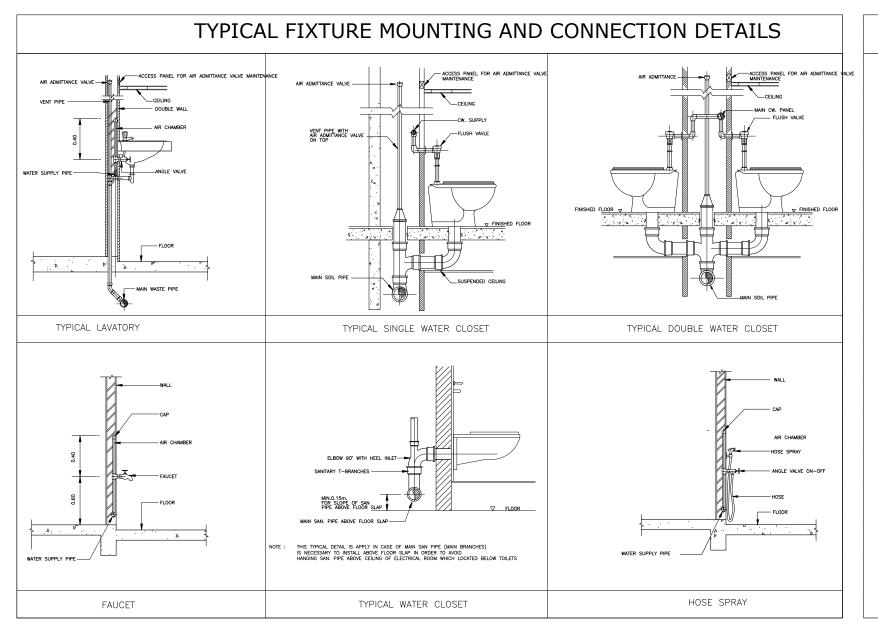


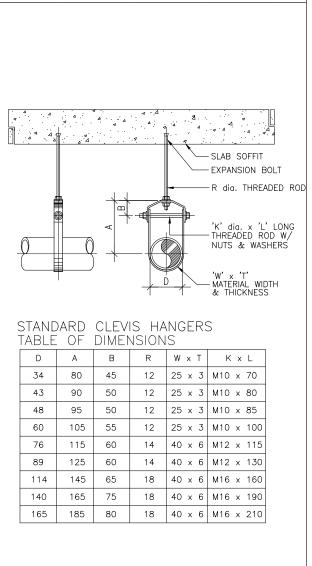




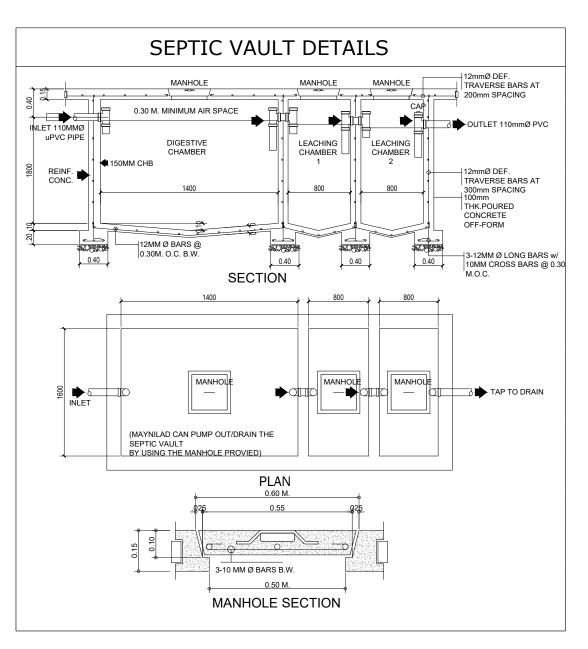








DETAIL OF PIPE HANGER



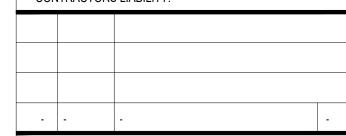
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ADDRESS: #15 MH DEL PILAR ST., GUITNANG BAYAN 1. SAN MATEO. RIZAL

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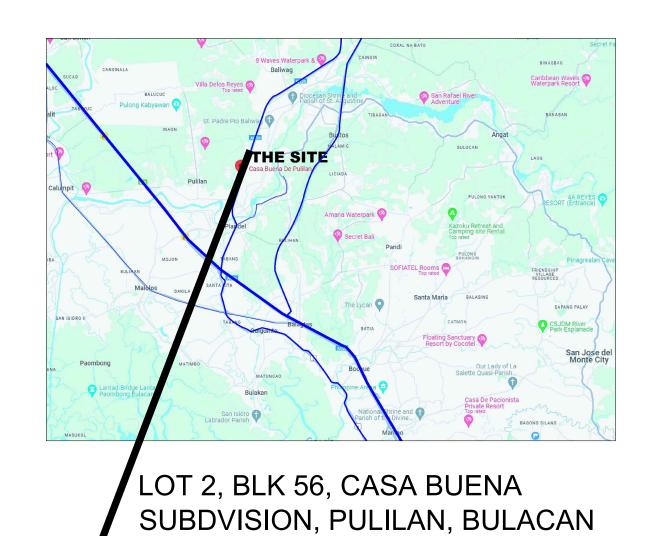
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NORTH	DRAWING NUMB	BER REVISION D1





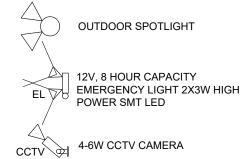
#### LEGENDS:

CEILING MOUNTED CENTER LIGHTS

CEILING MOUNTED PINLIGHTS

SLAB MOUNTED PINLIGHTS

✓ IP 65, WALL MOUNTED



230V, 60HZ, ±50W, SILENT TYPE CEILING MOUNTED FAN WITH SQUARE MODERN GRILLE

### **POWER & AUX. LEGEND**

POWER CONVENIENCE OUTLET (DUPLEX TYPE) INSTALLED PER MANUFACTURER'S SPECIFICATIONS & REQUIREMENTS

DUPLEX CONVENIENCE OUTLET

COUNTER HEIGHT OUTLET WIRE MANAGEMENT LEVEL (MODULAR) WEATHER PROOF OUTLET

TELEVISION

REFRIGERATOR OUTLET **RANGE** 

RANGE HOOD

MICROWAVE OVEN OUTLET

SPECIAL HEIGHT OUTLET STACU - SPLIT TYPE AIR CONDITIONING UNIT

BACKUP GENERATOR INLET TO M.T.S. INSTALLED PER MANUFACTURER'S SPECIFICATIONS & REQUIREMENTS TELEPHONE, DATA, COMMUNICATIONS

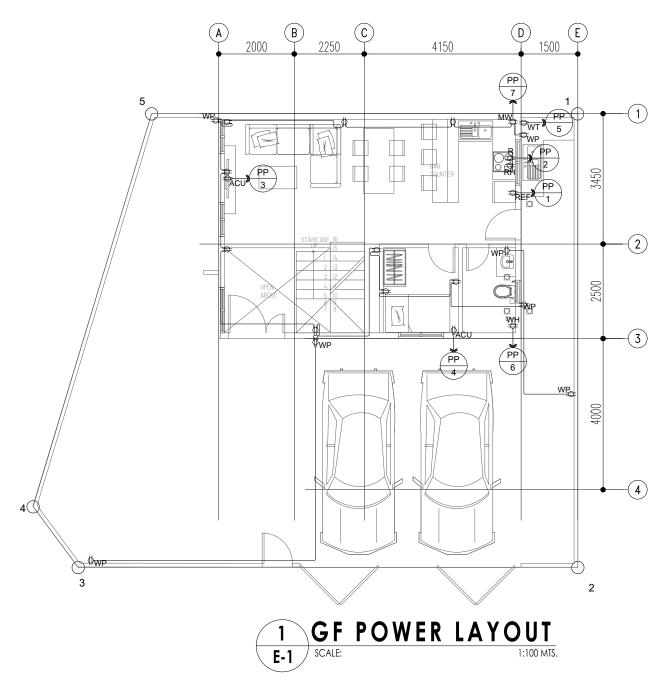
INSTALLED PER MANUFACTURER'S SPECIFICATIONS & REQUIREMENTS CABLE TV OUTLET INSTALLED PER MANUFACTURER'S SPECIFICATIONS & REQUIREMENTS

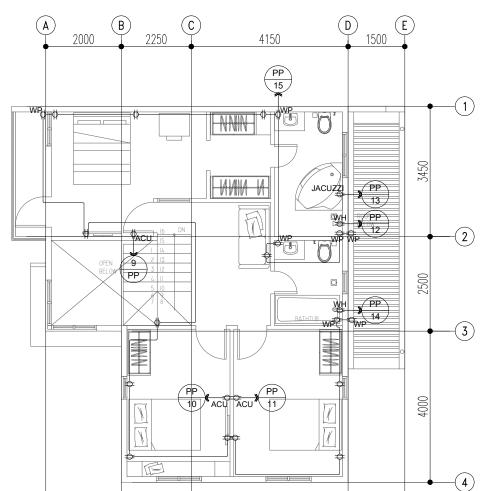
PANEL BOARD → CIRCUIT CUTOUT

SERVICE ENTRANCE M KILOWATT HOUR METTER

#### **ELECTRICAL NOTES:**

- 1. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE LATEST PROVISIONS OF THE PHILIPPINES ELECTRICAL CODE AND SHALL COMPLY WITH THE RULES AND REGULATION OF THE LOCAL GOVERNMENT AUTHORITIES CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS AND ORDINANCE AND WITH THE REQUIREMENTS OF THE LOCAL ELECTRIC UTILITY COMPANY.
- 2. POWER SUPPLY TO THE PROJECT SHALL BE 230 VOLTS, SINGLE PHASE, 2 WIRES AND 60 HERTZ FROM MERALCO.
- 3. TYPE OF WIRING INSTALLATION SHALL BE DONE IN RIGID METAL CONDUIT (R.M.C.) FOR MAIN SERVICE ENTRANCE AND UNPLASTICIZED POLYVINYL CHLORIDE (uPVC) ON ALL BRANCH CIRCUITS. UNLESS OTHERWISE SPECIFIED ON THE PLAN, THE MINIMUM SIZE OF WIRE TO BE USED SHALL BE NO. 2.0mm2, THHN TYPE IN 20mmØ uPVC. FOLLOW SPECIFICATIONS FOR MATERIALS AND PRODUCTS.
- ALL ELECTRICAL EQUIPMENT TO BE USED SHALL BE EQUIPPED WITH PROPER AND ADEQUATE GROUNDING SYSTEM.
- MOUNTING HEADS:
  - A. LIGHTING CONTROL SWITCH: 1.48 M ABOVE FINISH FLOOR LINE (VERIFY SPECS.)
  - B. CONVENIENCE OUTLET : 0.30 M ABOVE FINISH FLOOR LINE (VERIFY SPECS.) C. SPECIAL PURPOSED OUTLET: AS REQUIRED BY EQUIPMENT SERVED (VERIFY SPECS.)
  - : 1.50 M ABOVE FINISH FLOOR LINE (VERIFY SPECS.) D. PANEL BOARD
- 7. ALL ELECTRICAL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED FOR BOTH LOCATION AND PURPOSES. 8. THE CONTRACTOR SHALL STRICTLY FOLLOW SPECIFICATIONS FOR MATERIALS BRANDS AND OTHER MATERIALS NEEDED FOR A COMPLETE INSTALLATION. NO OTHER BRANDS SHALL BE USED, UNLESS/OTHERWISE SPECIFIED IN THE SPECIFICATIONS OR IN THE DRAWINGS. THE USE OF SUBSTANDARD MATERIALS SHALL BE REJECTED AND MUST BE REPLACED AT THE CONTRACTORS EXPENSE.
- 9. ALL ELECTRICAL WORKS HEREIN SHALL BE UNDER THE DIRECT SUPERVISION OF AN EXPERIENCED ELECTRICAL ENGINEER, OR A REGISTERED MASTER ELECTRICIAN WITH EXPERIENCE IN COMPLEX ELECTRICAL WORKS AND RENOVATION PROJECTS. THE CONTRACTOR SHALL UNDERSTAND THE CONTENTS OF THE SPECIFICATIONS AND THE DRAWINGS BEFORE ANY SUPPLY AND



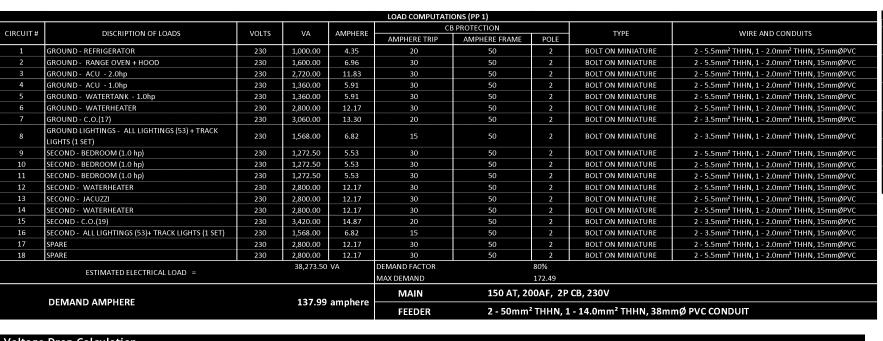




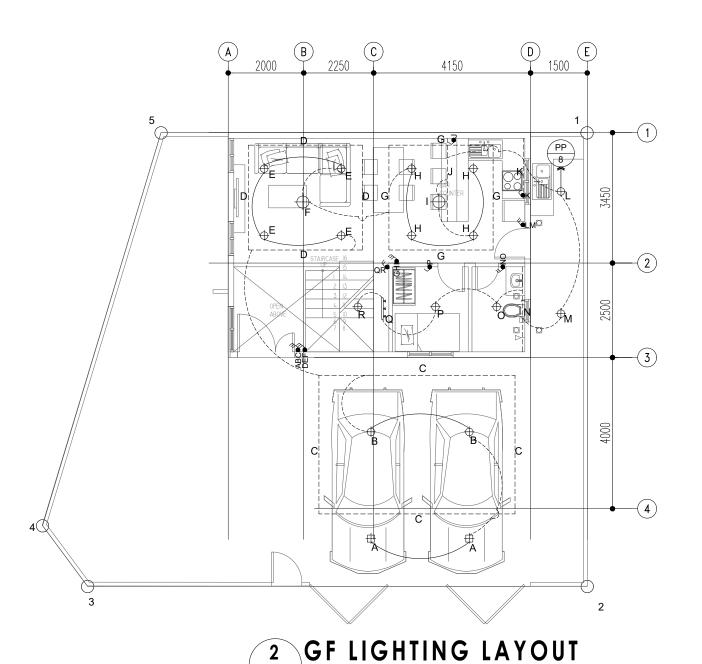
Cable per Estimated Resistance Inductance Factor

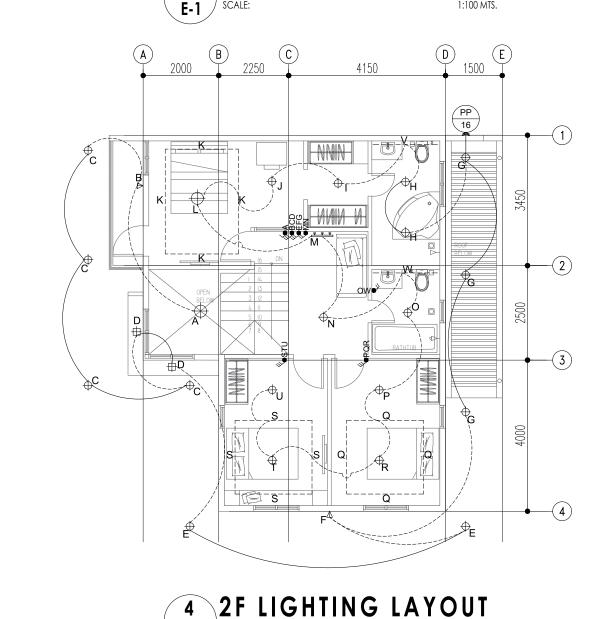
1.00 40.00 0.25 0.0003940 0.85 0.09 4.10 0.02 225.90

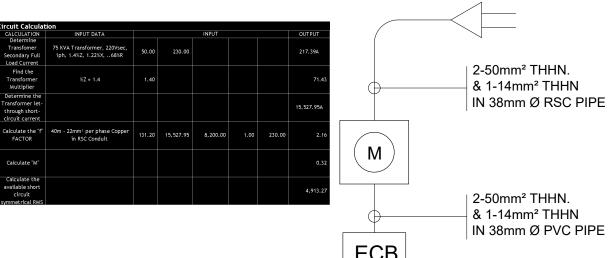
Phase Length (m)  $R(\Omega/305m)$   $X(\Omega/305m)$ 











ECB 150AT 200AF 2-50mm<sup>2</sup> THHN. & 1-14mm<sup>2</sup> THHN IN 38mm Ø PVC PIPE PP1 150AT 200AF **POWER RISER** SINGLE LINE DIAGRAM

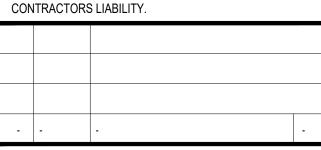
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#### DESIGNER:

#### DEOGRACIAS PASCUAL PROFESSIONAL ELECTRICAL ENGINEER

IAPOA NO.				VALIDITY		
REG.	NO.	002724	PTR NO.			ISSUED ON
TIN	187	908449	ISSUED AT	MALOLOS BUL	ACAN	JAN 2, 2024

#### CLIENT:

CAPT. MARK ERVIN V. ARANDELA

PROJECT TITLE:

PROPOSED 2 STOREY RESIDENTIAL PROJECT

#### PROJECT ADDRESS:

LOT 2, BLK 56, CASA BUENA SUBDVISION, PULILAN, BULACAN

#### DESIGN AND BUILD BY:



### LEIGH DESIGN STUDIOS

ARCHITECTURAL + ENGINEERING **BUILDING SOLUTIONS** 

ADDRESS: #15 MH DEL PILAR ST., GUITNANG BAYAN 1, SAN MATEO, RIZAL

> 0997-883-1896 0936-947-4847

EMAIL: LEIGHDESIGNSTUDIOS@GMAIL.COM FACEBOOK: @LEIGHDESIGNSTUDIOS

PROJECT NO.

TEL.:

DRAWING TITLE POWER AND LIGHTING LAYOUT

LDS / 002 / 2024

DATE	SHT. SIZE	APPROVED		
MAR '24	20X30	LC		
NORTH	DRAWING NUME	BER   REVISION		
	E 1 1	D1		