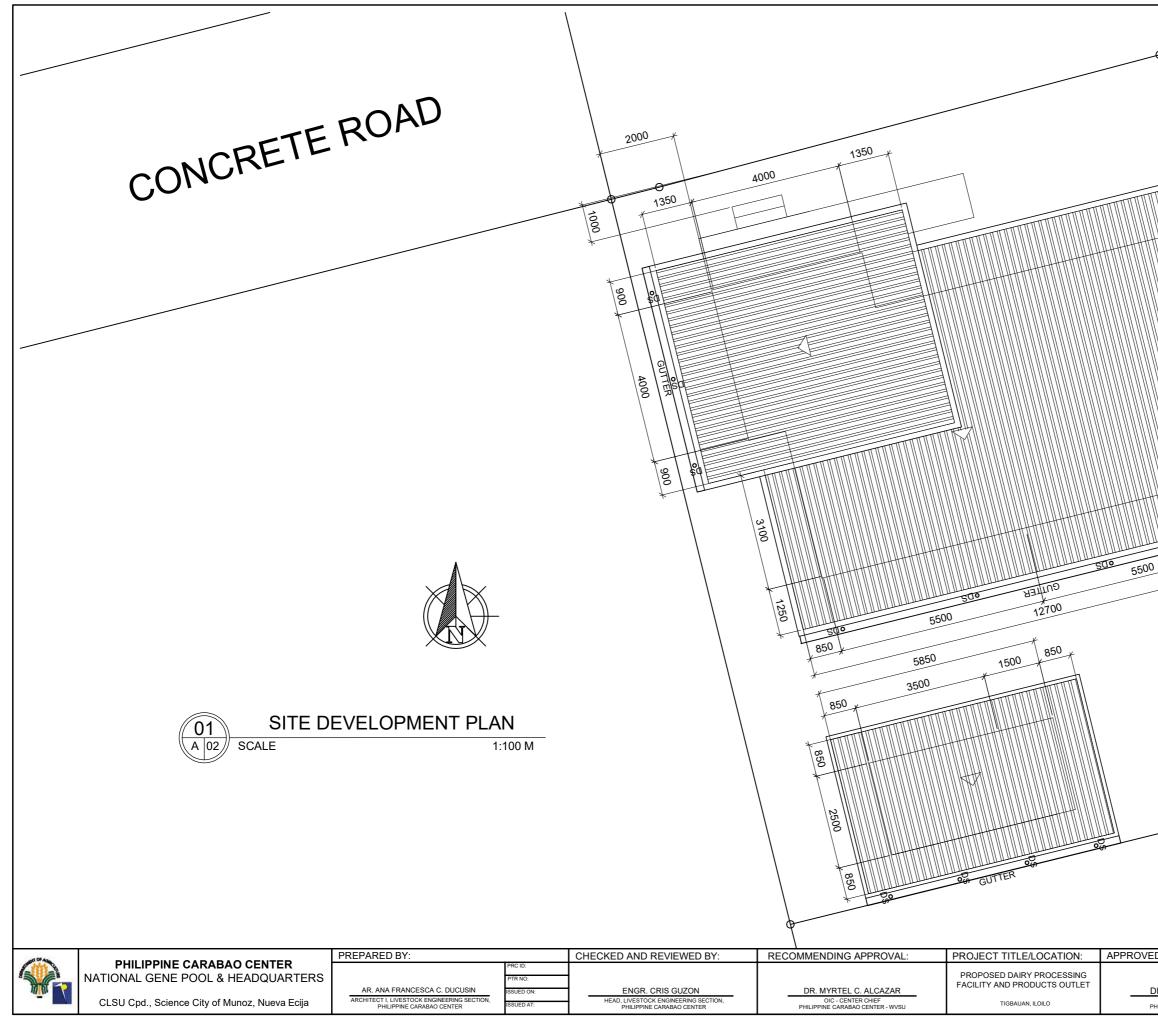
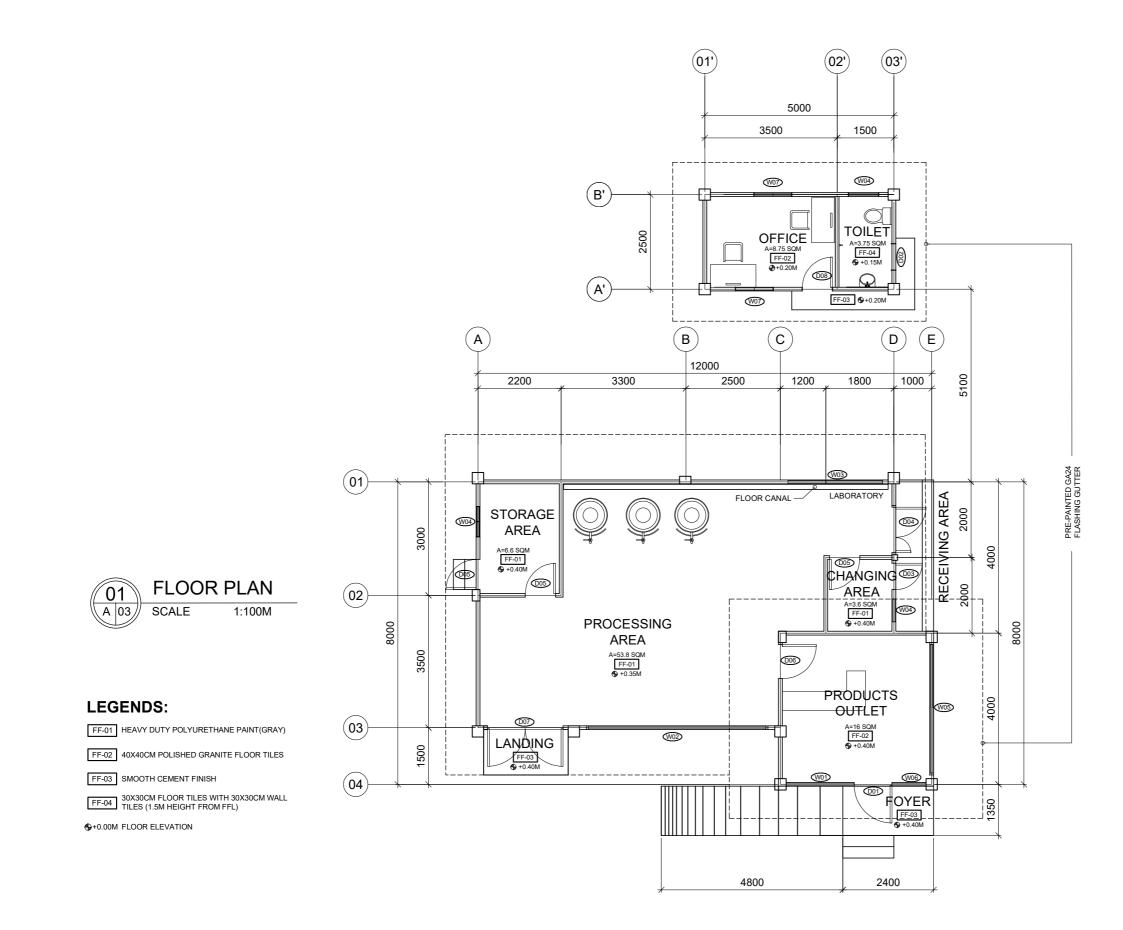


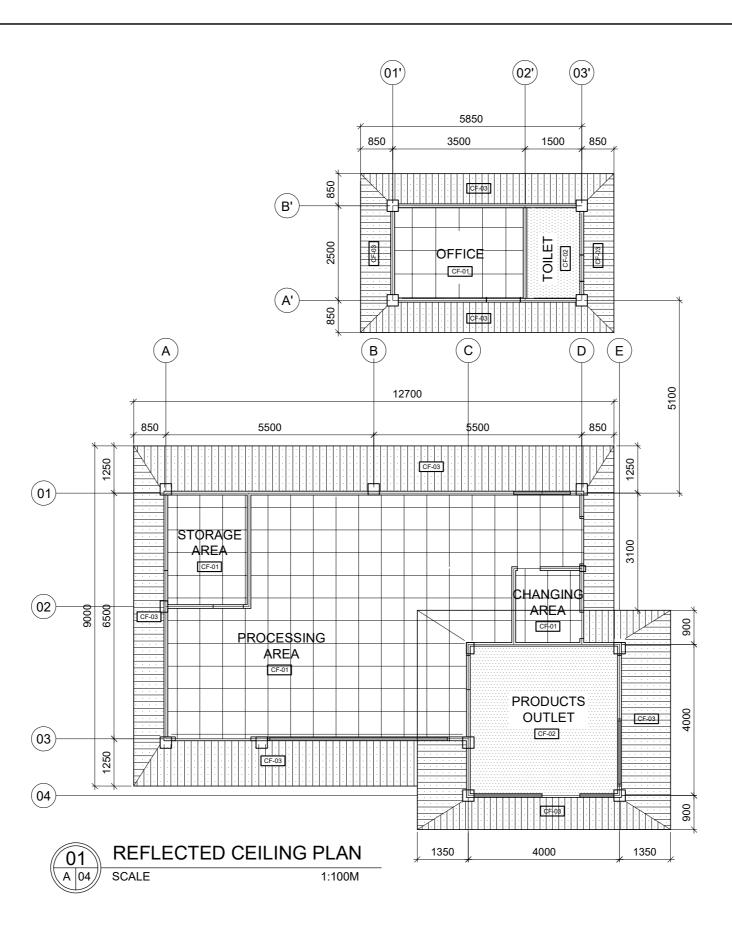
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EXECUTIVE DIRECTOR, PHILIPPINE CARABAO CENTER			02 22



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	PHILIPPINE CARABAO CENTER ATIONAL GENE POOL & HEADQUARTERS		PRC ID:			PROPOSED DAIRY PROCESSING		-	AS SHOWN	
	RTIONAL GENE FOOL & HEADQUARTERS	AR. ANA FRANCESCA C. DUCUSIN	ISSUED ON:	ENGR. CRIS GUZON	DR. MYRTEL C. ALCAZAR	FACILITY AND PRODUCTS OUTLET	DR. LIZA G. BATTAD	REVISION:		A-03
	CLSU Cpd., Science City of Munoz, Nueva Ecija	ARCHITECT I, LIVESTOCK ENGINEERING SECTION, PHILIPPINE CARABAO CENTER	ISSUED AT:	HEAD, LIVESTOCK ENGINEERING SECTION, PHILIPPINE CARABAO CENTER	OIC - CENTER CHIEF PHILIPPINE CARABAO CENTER - WVSU	TIGBAUAN, ILOILO	EXECUTIVE DIRECTOR, PHILIPPINE CARABAO CENTER			0322

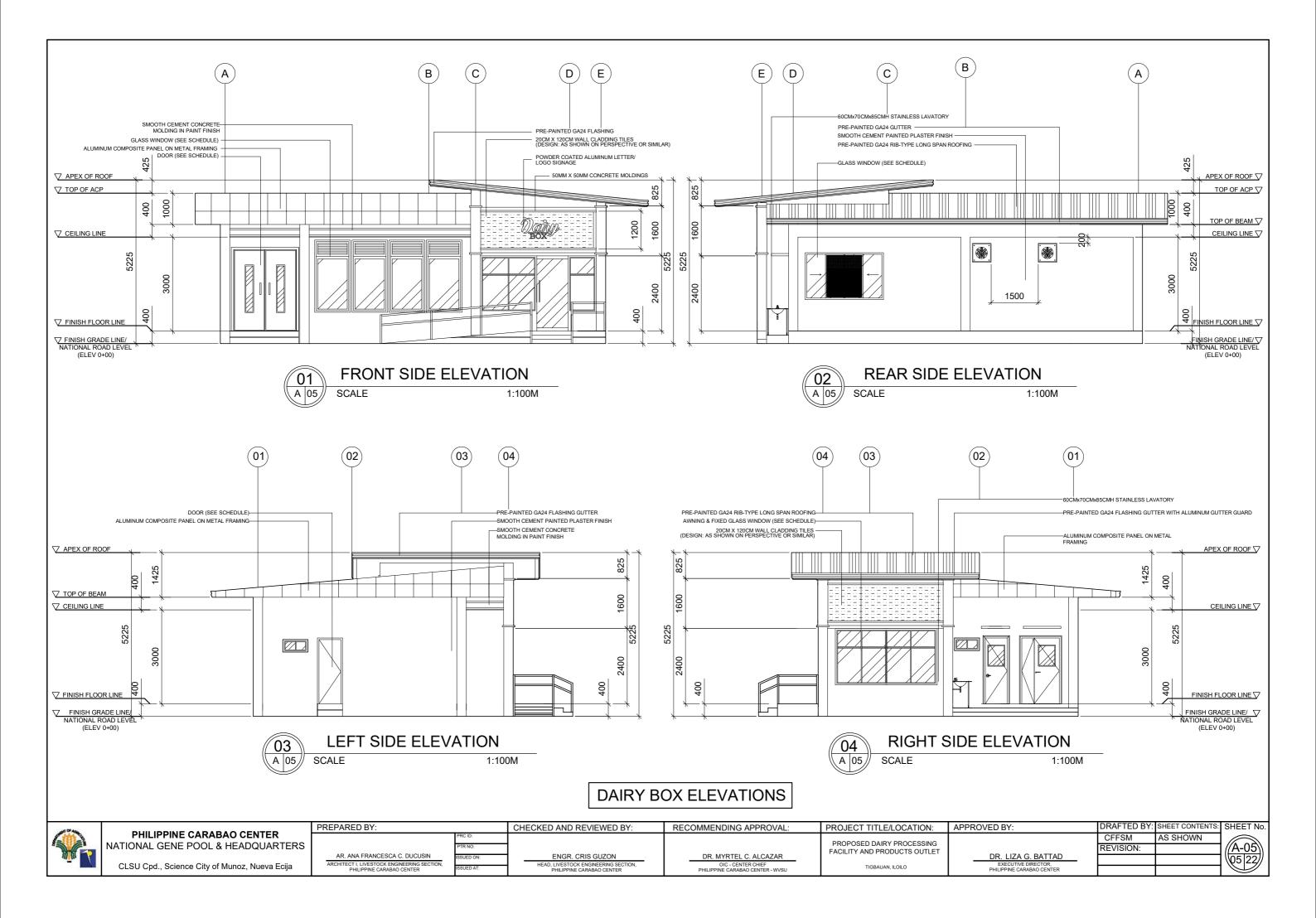


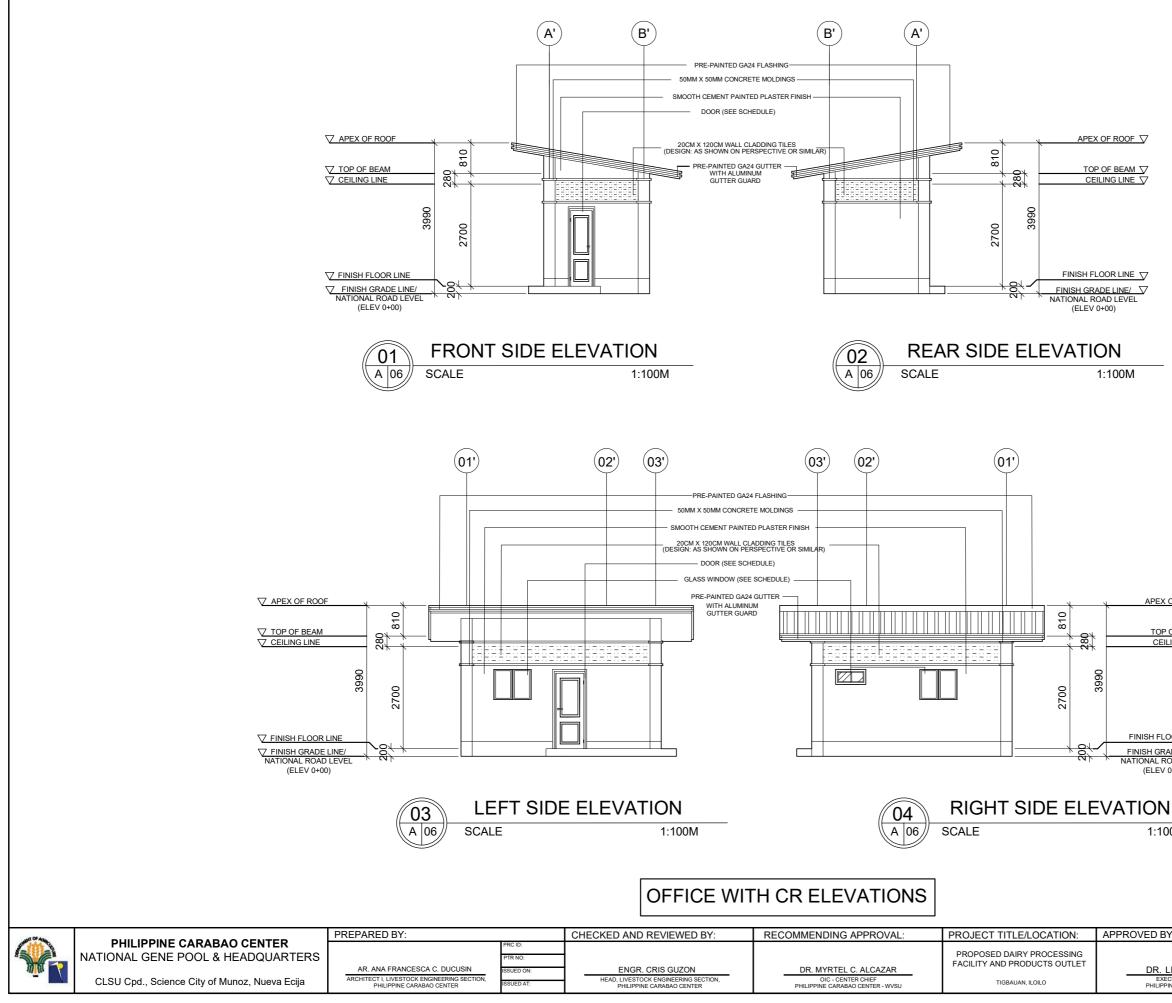
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	PHILIPPINE CARABAO CENTER NATIONAL GENE POOL & HEADQUARTERS	PRC ID: PTR NO:	_		PROPOSED DAIRY PROCESSING		CFFSM REVISION:	AS SHOWN	A-04
din 💦		AR. ANA FRANCESCA C. DUCUSIN ISSUED ON:	ENGR. CRIS GUZON	DR. MYRTEL C. ALCAZAR	FACILITY AND PRODUCTS OUTLET	DR. LIZA G. BATTAD			(04 22)
	CLSU Cpd., Science City of Munoz, Nueva Ecija	PHILIPPINE CARABAO CENTER ISSUED AT:	PHILIPPINE CARABAO CENTER	PHILIPPINE CARABAO CENTER - WVSU	TIGBAUAN, ILOILO	PHILIPPINE CARABAO CENTER			

LEGENDS:

CF-01 60X60CM MOISTURE-RESISTANT PVC LAMINATED GYPSUM CEILING ON METAL T-RUNNERS CF-02 FIBER CEMENT BOARD ON METAL FURRING IN FLAT ACRYLIC PAINT FINISH

CF-03 METAL SPANDREL CEILING ON METAL FURRINGS





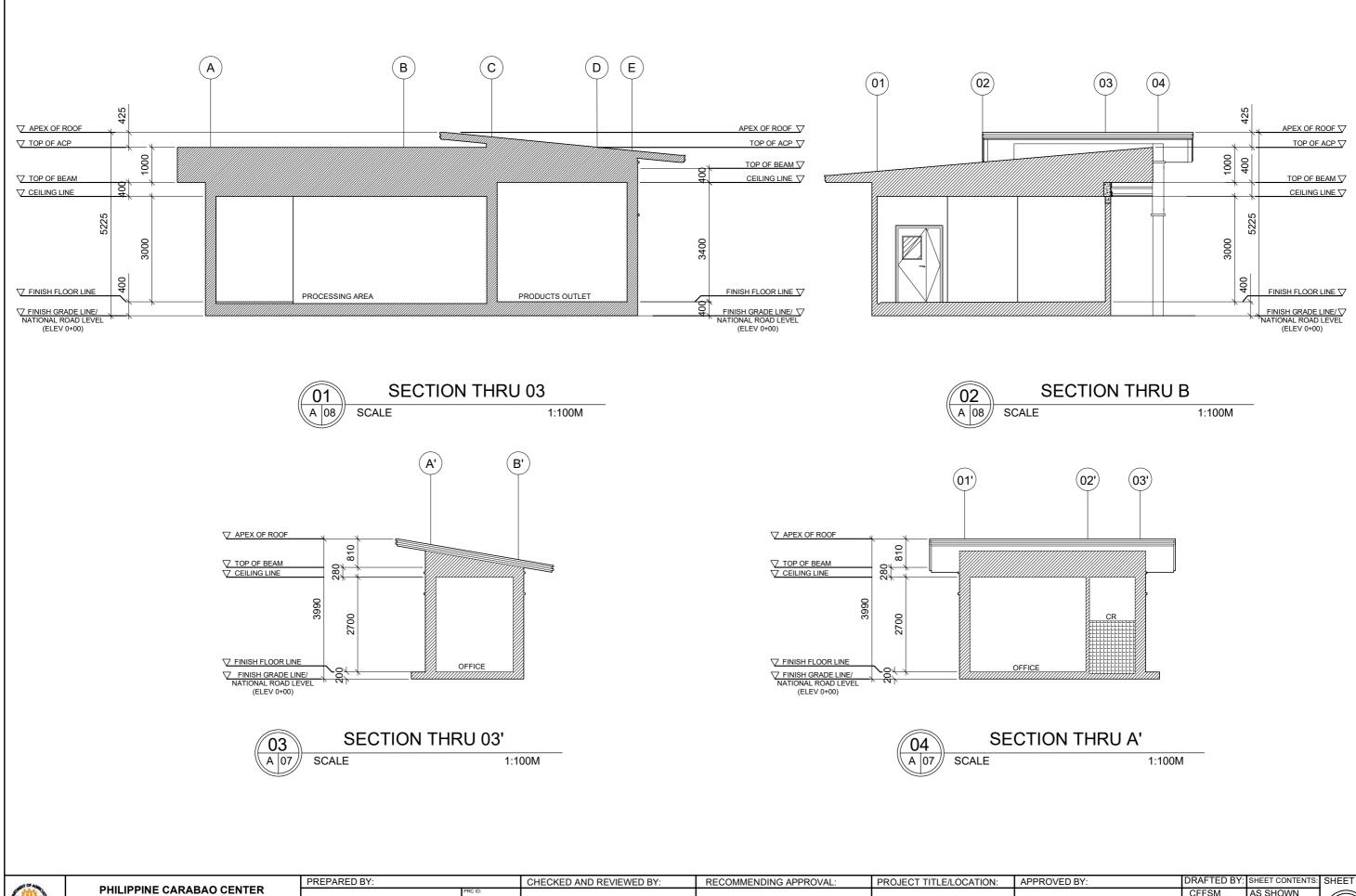
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	CFFSM	AS SHOWN	
	REVISION:		((A-06))
DR. LIZA G. BATTAD EXECUTIVE DIRECTOR.			\06 22//
PHILIPPINE CARABAO CENTER			

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ENGR. CRIS GUZON HEAD, LIVESTOCK ENGINEERING SECTION, PHILIPPINE CARABAO CENTER

AR. ANA FRANCESCA C. DUCUSIN ARCHITECT I, LIVESTOCK ENGINEERING SECTI PHILIPPINE CARABAO CENTER

NATIONAL GENE POOL & HEADQUARTERS

CLSU Cpd., Science City of Munoz, Nueva Ecija

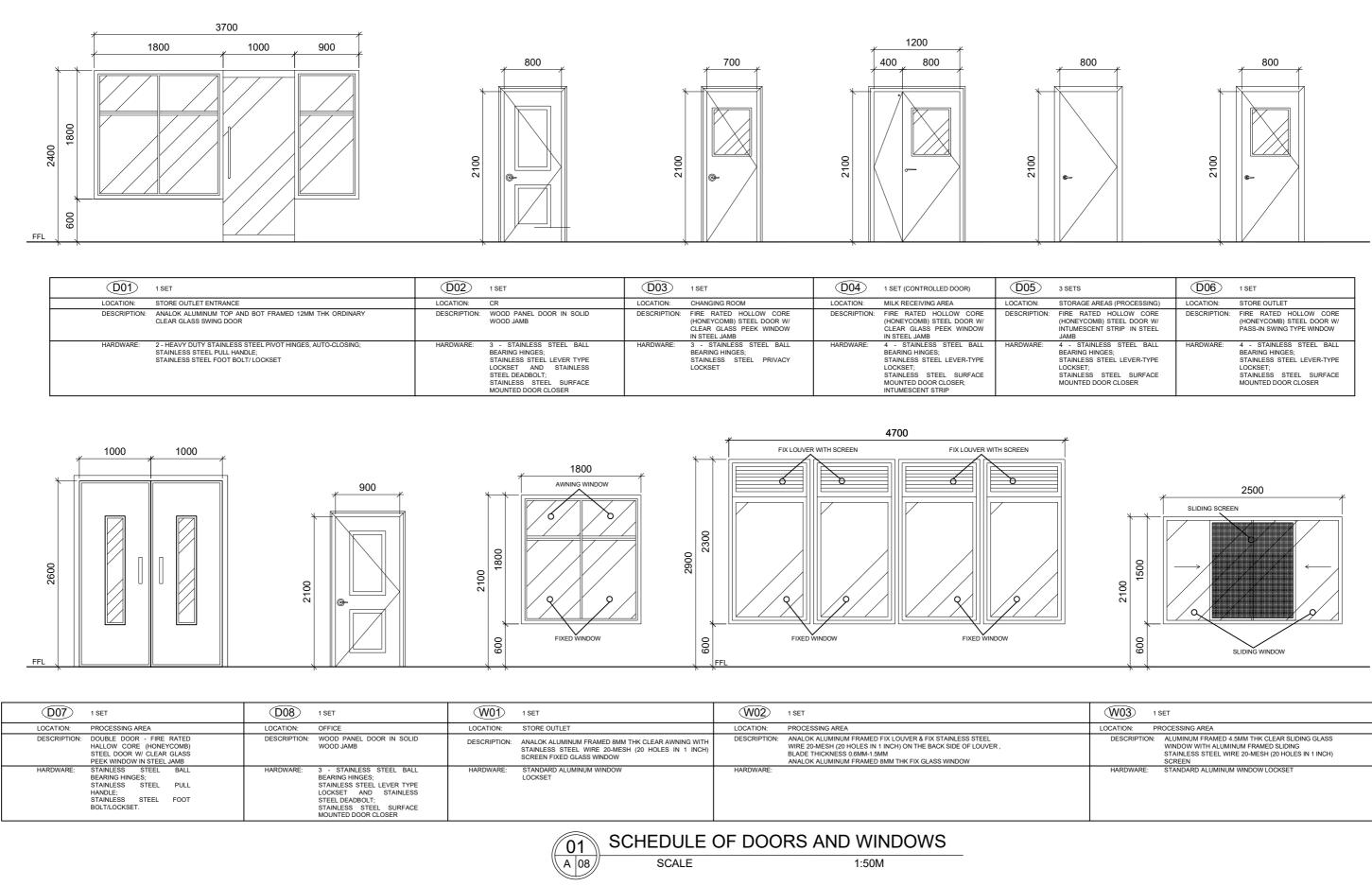
PROPOSED DAIRY PROCESSING

FACILITY AND PRODUCTS OUTLET

TIGBAUAN, ILOILO

DR. MYRTEL C. ALCAZAR OIC - CENTER CHIEF PHILIPPINE CARABAO CENTER - WVSU

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DR. LIZA G. BATTAD EXECUTIVE DIRECTOR.			07 22//
PHILIPPINE CARABAO CENTER			

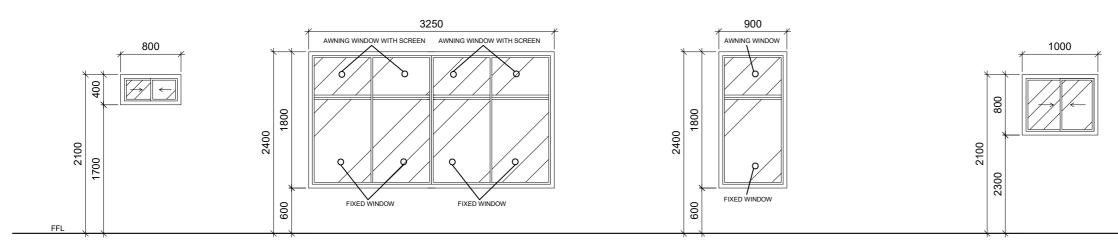


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PHILIPPINE CARABAO CENTER NATIONAL GENE POOL & HEADQUARTERS	PRC	C ID: R NO:			PROPOSED DAIRY PROCESSING		CFFSM REVISION:	AS SHOWN	A-08
		UED ON:		DR. MYRTEL C. ALCAZAR	FACILITY AND PRODUCTS OUTLET	DR. LIZA G. BATTAD	INE VISION.		(08 22)
CLSU Cpd., Science City of Munoz, Nueva Ecija		UED AT:	PHILIPPINE CARABAO CENTER	PHILIPPINE CARABAO CENTER - WVSU	TIGBAUAN, ILOILO	PHILIPPINE CARABAO CENTER			

ETS	(D06)	1 SET
ORAGE AREAS (PROCESSING)	LOCATION:	STORE OUTLET
E RATED HOLLOW CORE DNEYCOMB) STEEL DOOR W/ UMESCENT STRIP IN STEEL MB	DESCRIPTION:	FIRE RATED HOLLOW CORE (HONEYCOMB) STEEL DOOR W/ PASS-IN SWING TYPE WINDOW
- STAINLESS STEEL BALL ARING HINGES; AINLESS STEEL LEVER-TYPE CKSET; AINLESS STEEL SURFACE UNTED DOOR CLOSER	HARDWARE:	4 - STAINLESS STEEL BALL BEARING HINGES; STAINLESS STEEL LEVER-TYPE LOCKSET; STAINLESS STEEL SURFACE MOUNTED DOOR CLOSER

W03 15	SET
LOCATION: PF	ROCESSING AREA
DESCRIPTION:	ALUMINUM FRAMED 4.5MM THK CLEAR SLIDING GLASS WINDOW WITH ALUMINUM FRAMED SLIDING STAINLESS STEEL WIRE 20-MESH (20 HOLES IN 1 INCH) SCREEN
HARDWARE:	STANDARD ALUMINUM WINDOW LOCKSET



$\langle V \rangle$	104 3 SET	W05	1 SET	W06	1 SET	W07	2 SET
LOCA	TION: CHANGING ROOM, CR, STORAGE	LOCATION:	STORE OUTLET	LOCATION:	STORE OUTLET	LOCATION:	OFFICE AREA
DESC	CRIPTION: ANALOK ALUMINUM FRAMED 4.5MM THK CLEAF SLIDING GLASS WINDOW WITH ALUMINUM FRAMED SLIDING STAINLESS STEEL WIRE 20-MESH (20 HOLES IN 1 INCH) SCREEN		ANALOK ALUMINUM FRAMED 8MM THK CLEAR AWNING WITH STAINLESS STEEL WIRE 20-MESH (20 HOLES IN 1 INCH) SCREEN AND FIXED GLASS WINDOW	DESCRIPTION:	ANALOK ALUMINUM FRAMED 8MM THK CLEAR AWNING WITH STAINLESS STEEL WIRE 20-MESH (20 HOLES IN 1 INCH) SCREEN FIXED GLASS WINDOW	DESCRIPTION:	ANALOK ALUMINUM FRAMED 4.5MM THK CL SLIDING GLASS WINDOW WITH ALUMI FRAMED SLIDING STAINLESS STEEL \ 20-MESH (20 HOLES IN 1 INCH) SCREEN
HARD	WARE: STANDARD ALUMINUM WINDOW LOCKSET	HARDWARE:	STANDARD ALUMINUM WINDOW LOCKSET	HARDWARE:	STANDARD ALUMINUM WINDOW LOCKSET	HARDWARE:	STANDARD ALUMINUM WINDOW LOCKSET



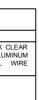
	FLOOR FINISH	CEILING FINISH	WALL FINISH	1	
AREA/ROOM	FLOOR FINISH		INTERIOR WALL FINISH	EXTERIOR WALL FINISH	REMARKS
PRODUCTS OUTLET	40X40CM POLISHED GRANITE FLOOR TILES	FIBER CEMENT BOARD ON METAL FURRING IN FLAT ACRYLIC PAINT FINISH (WHITE)	SUN & RAIN SR+418 LOVELY DAYS OR SIMILAR	SR+418 LOVELY DAYS OR SIMILAR, CHOCO BROWN SR-933 OR SIMILAR	
PROCESSING AREA	HEAVY DUTY POLYURETHANE PAINT (GRAY)	60CM x 60CM MOISTURE-RESISTANT ACOUSTIC CEILING ON METAL T-RUNNERS (WHITE)	PAINT FINISH, SEMI-GLOSS LATEX WHITE	SR+418 LOVELY DAYS OR SIMILAR, CHOCO BROWN SR-933 OR SIMILAR	150MM BASEBOARD HEAVY DUTY POLYURETHANE PAINT (GRAY)
CHANGING AREA	HEAVY DUTY POLYURETHANE PAINT (GRAY)	60CM x 60CM MOISTURE-RESISTANT ACOUSTIC CEILING ON METAL T-RUNNERS (WHITE)	PAINT FINISH, SEMI-GLOSS LATEX WHITE	SR+418 LOVELY DAYS OR SIMILAR, CHOCO BROWN SR-933 OR SIMILAR	150MM BASEBOARD HEAVY DUTY POLYURETHANE PAINT (GRAY)
STORAGE	HEAVY DUTY POLYURETHANE PAINT (GRAY)	60CM x 60CM MOISTURE-RESISTANT ACOUSTIC CEILING ON METAL T-RUNNERS (WHITE)	PAINT FINISH, SEMI-GLOSS LATEX WHITE	SR+418 LOVELY DAYS OR SIMILAR, CHOCO BROWN SR-933 OR SIMILAR	150MM BASEBOARD HEAVY DUTY POLYURETHANE PAINT (GRAY)
OFFICE	40X40CM POLISHED GRANITE FLOOR TILES	60CM x 60CM MOISTURE-RESISTANT ACOUSTIC CEILING ON METAL T-RUNNERS (WHITE)	PAINT FINISH, SEMI-GLOSS LATEX WHITE	SR+418 LOVELY DAYS OR SIMILAR, CHOCO BROWN SR-933 OR SIMILAR	150MM BASEBOARD HEAVY DUTY POLYURETHANE PAINT (GRAY)
COMFORT ROOM	30X30CM FLOOR TILES	FIBER CEMENT BOARD ON METAL FURRING IN FLAT ACRYLIC PAINT FINISH (WHITE)	30X30CM WALL TILES (1.5M HEIGHT FROM FFL), PAINT THE REMAINING WALL.	SR+418 LOVELY DAYS OR SIMILAR, CHOCO BROWN SR-933 OR SIMILAR	
OUTSIDE FLOOR & CEILING	SMOOTH CEMENT FINISH	METAL SPANDREL (WHITE)			

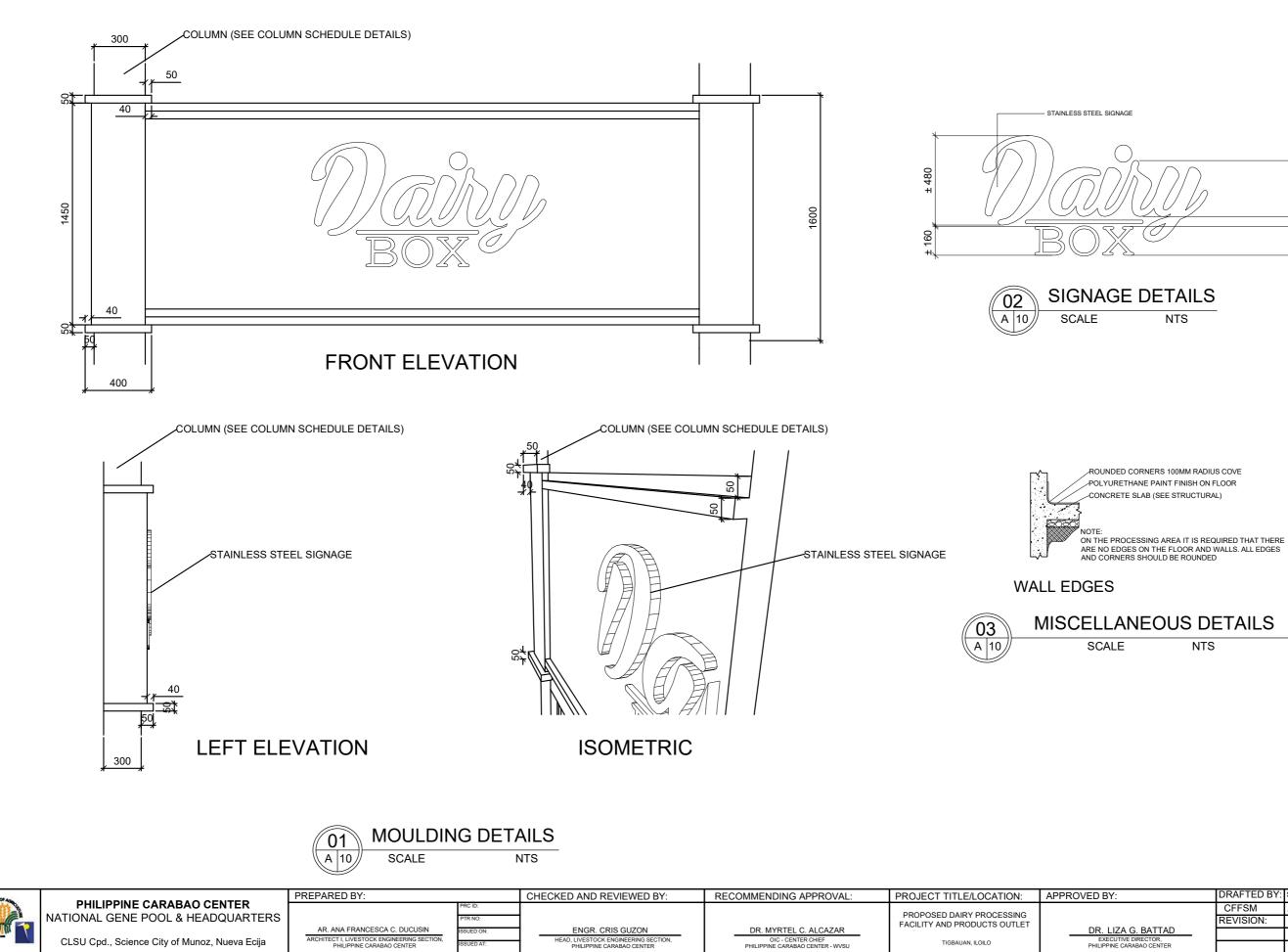


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NATIONAL GENE POOL & HEADQUARTERS				FACILITY AND PRODUCTS OUTLET		REVISION:		<u>(A-09)</u>
CLELL and Science City of Munor Music Faile	AR. ANA FRANCESCA C. DUCUSIN ISSUED ON: ARCHITECT I. LIVESTOCK ENGINEERING SECTION.	ENGR. CRIS GUZON HEAD. LIVESTOCK ENGINEERING SECTION.	DR. MYRTEL C. ALCAZAR OIC - CENTER CHIEF		DR. LIZA G. BATTAD EXECUTIVE DIRECTOR.			\09 22//
CLSU Cpd., Science City of Munoz, Nueva Ecija	PHILIPPINE CARABAO CENTER ISSUED AT:	PHILIPPINE CARABAO CENTER	PHILIPPINE CARABAO CENTER - WVSU	TIGBAUAN, ILOILO	PHILIPPINE CARABAO CENTER			

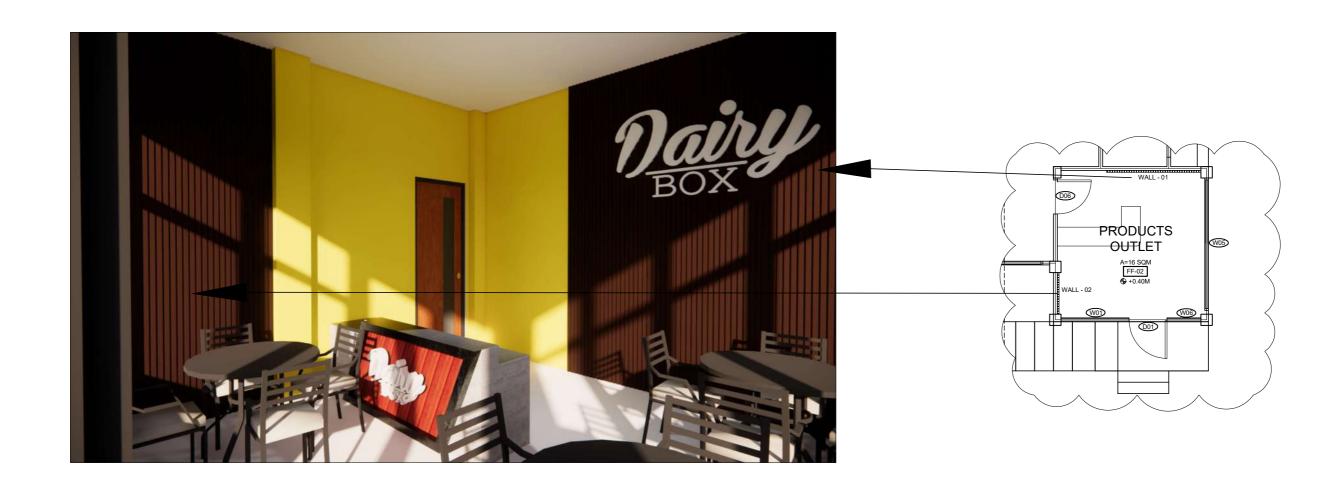


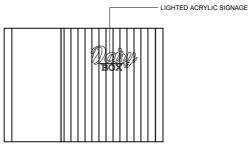
NOTE: ON THE PROCESSING AREA IT IS REQUIRED TO INSTALL ALUMINUM RUBBER BOTTOM DOOR SEAL ON EVERY DOOR.



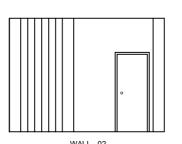


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	REVISION:		(/A-10))
DR. LIZA G. BATTAD EXECUTIVE DIRECTOR.			(10 22)
PHILIPPINE CARABAO CENTER			





WALL - 01 14 PCS 185x20x2900MM WPC WALL CLADDING



WALL - 02 6 PCS 185x20x1200MM WPC WALL CLADDING









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-	NATIONAL GENE POOL & HEADQUARTERS	PTR NO:			FACILITY AND PRODUCTS OUTLET		REVISION:		<u>((A-11)</u>)
X	CLSU Cpd., Science City of Munoz, Nueva Ecija	AR. ANA FRANCESCA C. DUCUSIN ISSUED ON: ARCHITECT I, LIVESTOCK ENGINEERING SECTION,	ENGR. CRIS GUZON HEAD, LIVESTOCK ENGINEERING SECTION,	DR. MYRTEL C. ALCAZAR		DR. LIZA G. BATTAD EXECUTIVE DIRECTOR,			
	CLOU CPU., Science City of Multioz, Nueva Ecija	PHILIPPINE CARABAO CENTER ISSUED AT:	PHILIPPINE CARABAO CENTER	PHILIPPINE CARABAO CENTER - WVSU	TIGBAUAN, ILOILO	PHILIPPINE CARABAO CENTER			



A. GENERAL

- 1. CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
- 2. SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEEL, MISCELLANEOUS IRON, PRE-CAST CONCRETE ETC. SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL BEFORE FABRICATION.
- 3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ALL WORK IS TO BEGIN, CHECK WITH MECHANICAL AND ELECTRICAL CONTRACTORS FOR CONDUITS. PIPE SLEEVES. ETC. TO BE EMBEDDED IN CONCRETE.
- 4 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORINGS AND BRACINGS OF THE STRUCTURE FOR ALL LOADS THAT MAYBE IMPOSED DURING CONSTRUCTION.

B. CONCRETE & REINFORCEMENT

- 1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE LATEST BULDING CODE OF AMERICAN CONCRETE INSTITUTE (ACI-318).
- 2. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS WITH CORRESPONDING MAXIMUM SIZE AGGREGATE AND SLUMPS AS FOLLOWS :

LOCATION	28 DAYS STRENGTH	MAX. SIZE AGGREGATE	MAX. SLUMP
LEDGE & SLAB ON GRADE	3000 PSI	1 IN. (25MM.)	4 IN. (100MM.)
FOUNDATION	3000 PSI	1 IN. (25MM.)	4 IN. (100MM.)
WALL FOOTING	3000 PSI	1 IN. (25MM.)	4 IN. (100MM.)
COLUMN	3000 PSI	1 IN. (25MM.)	4 IN. (100MM.)
BEAMS & SLABS	3000 PSI	1 IN. (25MM.)	4 IN. (100MM.)

- 3. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 FOR DIA. 16 AND LARGER BARS AND GRADE 40 FOR DIA. 12 AND SMALLER BARS
- 4. IN GENERAL, THE LATEST EDITION OF ACI-315, MANUAL OF STANDARD PRACTICE DETAILING REINFORCED CONCRETE STRUCTURES SHALL BE ADHERED TO, UNLESS OTHERWISE SHOWN OR NOTED.
- 5. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

SUSPENDED SLABS	3/4 IN. (19 MM.)	
SLAB ON GRADE 1	1/2 IN. (38 MM.)	
WALLS ABOVE GRADE	1 IN. (25 MM.)	
BEAM STIRRUPS AND COLUMN TIES	1 1/2 IN. (38 MM.)	
WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS	2 IN. (50 MM.)	
WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH	. 3 IN. (75 MM.)	

- 6. SPLICES SHALL BE SECURELY WIRED TOGETHER AND SHALL LAP OR EXTEND IN
- 7. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN (7) CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
- 8. STRIPPING OF FORMS AND SHORES: FOUNDATION 24 HRS SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED 28 DAYS WALLS 18 HRS.

BEAMS 14 DAYS

STRUCTURAL NOTES

C. FOOTINGS

- UNLESS OTHERWISE INDICATED IN THE PLANS, THE ALLOWABLE SOIL PRESSURE SHALL BE AT LEAST 2000 PSE
- FOUNDATION SHALL REST ON NATURAL SOIL, UNLESS OTHERWISE NOTED BY THE 2. ENGINEER, NO PART OF THE FOUNDATION SHALL REST ON FILL (PROVIDE 1m MINIMUM EMBEDMENT FROM NATURAL SOIL LEVEL AND BELOW).
- TO MAKE SURE OF THE DEPTH OF EXCAVATION, THE CONTRACTOR SHALL 3. EXCAVATE FIRST AT LEAST FOUR (4) FOOTINGS LOCATED AT THE CORNERS OF THE PROPOSED BUILDING. THE DEPTH OF THE EXCAVATION SHALL BE CONFIRMED BY THE STRUCTURAL ENGINEER AS BASIS OF EXCAVATION FOR ALL OTHER FOOTINGS
- 4. THE STRUCTURAL ENGINEER SHALL BE INFORMED OF ANY DEVIATION OF THE SOIL LAYERING AS COMPARED TO THE FIRST FOUR (4) EXCAVATION
- 5. EXISTING UNDERGROUND PIPES, TUNNELS ETC. SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR EVALUATION
- ANY EXCAVATION ADJACENT TO ANY EXISTING STRUCTURE SHALL BE PROVIDED WITH ADEQUATE 6. SHEET PILING BY THE CONTRACTOR. THE SHEET PILES SHALL BE PROPERLY DESIGNED TO RESIST THE EARTH AND WATER PRESSURES AS WELL AS SURCHARGED LOADINGS ON THE FOOTINGS OF THE ADJACENT EXISTING STRUCTURES
- 7. UNLESS OTHERWISE SPECIFIED BY THE STRUCTURAL ENGINEER, THE CHB WALL FOOTING SHALL BE AS SHOWN IN THE STRUCTURAL PLAN
- R.C. SLABS ON FILL SHALL BE 0.15 M THICK WITH 12MM REINFORCING BARS AT 0.30M O.C. EACH WAY 8. UNLESS OTHERWISE SPECIFIED IN THE PLANS
- PARKING SIDEWALKS ETC., SHALL BE COMPACTED 90% COMPACTION IN LAYERS OF 0.30M UNLESS 9. OTHERWISE SPECIFIED BY THE STRUCTURAL ENGINEER.

D. REINFORCED CONCRETE SLABS

- UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS, CAMBER ALL R.C. SLABS 3mm FOR EVERY 3,300mm OF THE SHORTER SPAN
- IF SLABS ARE REINFORCED BOTHWAYS, BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONGER SPAN AT THE CENTER AND OVER THE LONGER BARS NEAR THE 2. SUPPORTS
- LENGTHS OF BAR CUT-OFFS SHALL BE AS SHOWN IN THE STRUCTURAL PLANS
- FOR FLAT SLABS, LONG SPAN BOTTOM BARS SHALL BE PLACED BELOW THE SHORT SPAN BARS AND 4 TOP BARS, VICE VERSA
- CONCRETE COVERING SHALL BE 20mm CLEAR FOR TOP AND BOTTOM BARS
- UNLESS OTHERWISE SPECIFIED BY THE STRUCTURAL ENGINEER, BAR CHAIRS SHALL BE PROVIDED AT LEAST 600mm EACH WAY TO SUPPORT THE TOP AND BOTTOM BARS SEPARATELY.

E. CHB WALLS

- UNLESS OTHERWISE SPECIFIED, THE VERTICAL AND HORIZONTAL REINFORCEMENTS FO CHB SHALL BE 12MM AT 0.40M O.C. FOR WALL THICKNESS, LAP SPLICES SHALL BE 0.30M LONG (MINIMUM)
- 2. LINTEL BEAMS TO BE USED SHALL BE (t x 0.20M) REINFORCED BY 4-12MM BARS WITH 10MM AT 0.30M O.C. TIES WHERE "t" IS THE CHB WALL THICKNESS
- LINTEL BEAMS SHALL BE PROVIDED AT THE TOP OF CHB WALL OPENINGS. IT SHALL BE EXTENDED 3. AT LEAST 0.20M BEYOND OPENINGS
- 4. FOR HIGH WALLS, LINTEL BEAMS SHALL BE PROVIDED AT 3.00m O.C.
- 5. FOR LONG WALLS, LINTEL BEAMS ACTING AS COLUMN SHALL BE PROVIDED AT 3.0m O.C.
- WHERE CHB WALL ADJOINS R.C. COLUMN AND BEAMS PRIOR TO POURING TO MATCH CHB WALL 6. REINFORCEMENT. THE DOWEL SHALL BE 12mm BARS AT 0.40m O.C.
- WHERE THE TOP CHB WALL ADJOINS A BEAM. PROVIDE A 25mm TO FILLED WITH SOFT MATERIAL 7. LIKE BACKER ROD AND SEALANT.
- WHERE COLUMNS AND BEAMS ARE TO BE POURED WITHOUT CHB WALL DOWEL PROVIDE RAMPSETS 8 AND 16 GA GALVANIZED STEEL STRAPS 0.40m O.C. NO CHIPPING OF CONCRETE COLUMNS AND BEAMS IS ALLOWED UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.

F. STRUCTURAL TOLERANCE

AND PRE-STRESSING STEEL DUCTS

DIMENSIONS LESS THAN 200mm 200mm TO 600mm OVER 600mm

G. CONSTRUCTION JOINTS

- GIRDERS
- RESIST 100% SHEAR OF THE CONSTRUCTION JOINT
- MAXIMUM DIMENSION OR 1/6 THE STORY HEIGHT
- 5. SHALL BE AS APPROVED BY THE ENGINEER

H. STANDARD HOOK

1. A STANDARD HOOK FOR REBARS IF REQUIRED SHALL BE EITHER OF THE FOLLOWING: A SEMICIRCULAR TUM PLUS AN EXTENSION OF AT LEAST 4 DIA. BUT NOT LESS THAN 62mm AT 1.1. THE FREE END OF THE BAR A 90 DEG. TURN PLUS AN EXTENSION OF AT LEAST 12 DIA. AT THE FREE AND OF THE BAR

2. MINIMUM DIAMETER OF BEND MEASURED ON THE INSIDE OF THE BAR SHALL BE AS FOLLOW

10mm DIAMETER 28mm DIAMETER NO. 14 TO NO. 1

I. R.C. SLABS ON GROUND

TYPES OF OCCUPANCY:

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OCCUPANCY
DOMESTIC OR LIGHT COM
COMMERCIAL
INDUSTRIAL PLANTS, GAS STATIO
INDUSTRIAL



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PHILIPPINE CARABAO CENTER NATIONAL GENE POOL & HEADQUARTERS CLSU Cpd., Science City of Munoz, Nueva Ecija	ENGR. CHRISTOPHER FEBB F. SAN MIGUEL ENGINEER I, LIVESTOCK ENGINEERING SECTION, PHILIPPINE CARABAO CENTER	PRC ID: PTR NO: ISSUED ON: ISSUED AT:	ENGR. CRIS GUZON HEAD, LIVESTOCK ENGINEERING SECTION, PHILIPPINE CARABAO CENTER	DR. MYRTEL C. ALCAZAR OIC - CENTER CHIEF PHILIPPINE CARABAO CENTER - WVSU	PROPOSED DAIRY PROCESSING FACILITY AND PRODUCTS OUTLET TIGBAUAN, ILOILO	DR. LI EXEC PHILIPPIN

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UNLESS OTHERWISE SPECIFIED BY THE STRUCTURAL ENGINEER THE FOLLOWING ARE ACCEPTABLE STRUCTURAL TOLERANCES FOR CAST-IN-PLACE CONCRETE CONTRUCTION. ALL DIMENSION WHICH ARE NOT WITHIN THE REQUIRED TOLERANCES SHALL BE CORRECTED PRIOR TO POURING OF CONCRETE. TOLERANCES FOR PRE-CAST CONCRETE CONSTRUCTION SHALL ¹/₂ OF THE VALUES GIVEN BELOW

1.A CROSS SECTIONAL DIMENSIONS AND LOCATION OF REINFORCEMENTS, PRE-STRESSING STEEL

+/- 6mm +/- 9mm +/- 12mm

2.B. MEMBER LENGTH OR HEIGHT +/- 6mm PER 3.0m (MAXIMUM LIMITATION = 12mm)

3.C. DEVIATION FROM STRAIGHT LINE (SWEEP AND / OR PLUMBERS) +/- 6mm PER 3.0m

4.D. LOCATION OF BAR CUT-OFFS OR BENDS +/- 50mm

1. CONSTRUCTION JOINTS SHALL BE LOCATED NEAR THE MIDDLE OF THE SPAN OF SLABS,, BEAMS OR

2. AT BEAM / GIRDER INTERSECTION, THE CONSTRUCTION JOINT ON THE GIRDER SHALL BE OFFSET AT A DISTANCE EQUAL TO TWICE THE WIDTH OF THE BEAM. DIAGONAL BARS SHALL BE PROVIDED TO

3. CONSTRUCTION JOINTS IN COLUMN SHALL BE LOCATED A DISTANCE ABOVE THE FLOOR EQUAL TO

4. WHERE THE JOINT IS TO BE MADE, THE SURFACE OF THE CONCRETE SHALL BE THOROUGHLY WETTED AND COATED WITH NEAT CEMENT GROUT IMMEDIATELY BEFORE PLACING NEW CONCRETE

CONSTRUCTION JOINTS IN WALLS, SLABS AND OTHER STRUCTURES THAT ARE SUBJECTED TO WATER PRESSURE SHALL BE PROVIDED WITH WATER STOPS, KIND, TYPE AND SIZE OF WATER STOPS

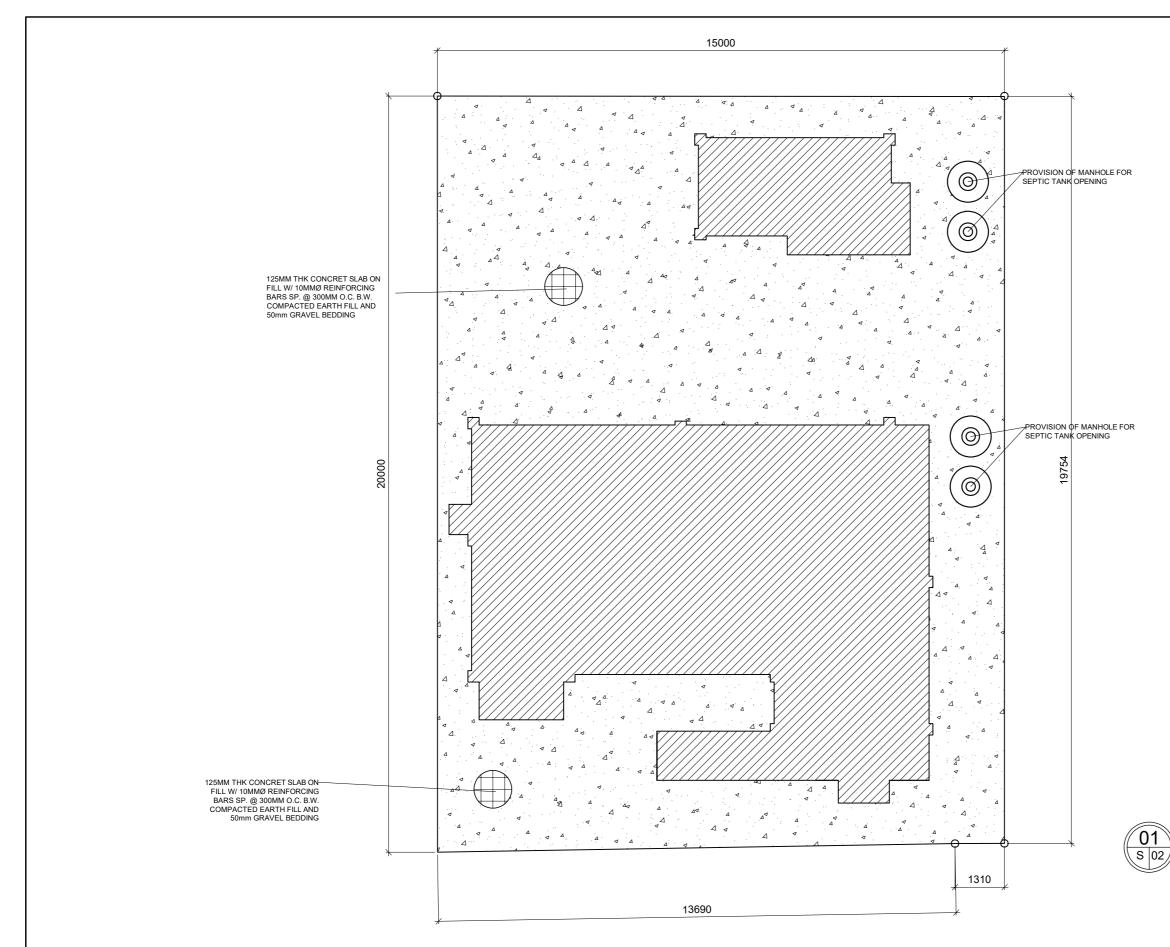
R TO 25mm DIAMETER	6 DIA.
R TO 26mm DIAMETER	8 DIA.
8	10 DIA.

UNLESS OTHERWISE SPECIFIED, THICKNESS AND REINFORCEMENT OF R.C. SLABS FOR DIFFERENT

BAR SIZE	fc' = 20.7 MPa	fc' = 27.8 MPa
10	300	300
12	300	300
16	360	360
20	430	430
25	810	710
28	1,550	1,350
32	1,980	1,700
36	2,440	2,100

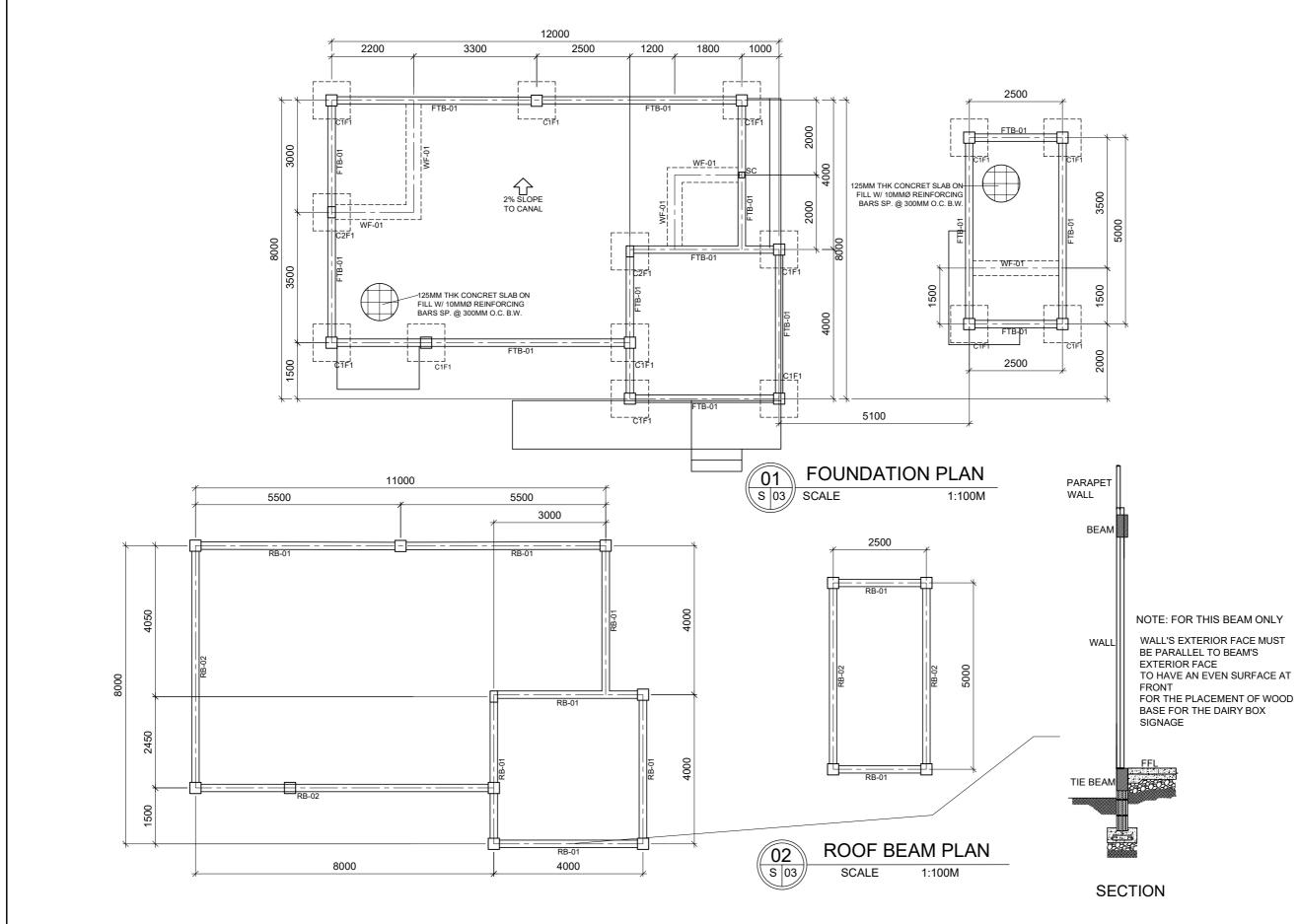
	ALLOWABLE	SLAB	REINFORCEMENT
	LIVE LOAD	THICKNESS	REINFORCEMENT
IMERCIAL	4.8 kPa	0.100 M	10mm DIAMETER @ 300mm B.W.
	7.2 kPa	0.123 M	10mm DIAMETER @ 300mm B.W.
ONS & GARAGES	24.0 kPa	0.150 M	12mm DIAMETER @ 300mm B.W.
	48.0 kPa	0.200 M	12mm DIAMETER @ 300mm
	10.0 14 4	0.200 141	B.W. TOP & BOTTOM

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		(12 22)
	CFFSM	



will OF Actor		PREPARED BY:		CHECKED AND REVIEWED BY:	RECOMMENDING APPROVAL:	PROJECT TITLE/LOCATION:	APPROVED BY:	DRAFTED BY:	SHEET CONTENTS:	SHEET No.
	PHILIPPINE CARABAO CENTER		PRC ID:			PROPOSED DAIRY PROCESSING		CFFSM	AS SHOWN	
	NATIONAL GENE POOL & HEADQUARTERS		PTR NO:			FACILITY AND PRODUCTS OUTLET		REVISION:		<u>(S-02</u>)
11/10	CLOULOnd, Crience City of Munor, Nueve Faile	ENGR. CHRISTOPHER FEBB F. SAN MIGUEL	ISSUED ON:	ENGR. CRIS GUZON	DR. MYRTEL C. ALCAZAR		DR. LIZA G. BATTAD			13 22
	CLSU Cpd., Science City of Munoz, Nueva Ecija	PHILIPPINE CARABAO CENTER	ISSUED AT:	PHILIPPINE CARABAO CENTER	PHILIPPINE CARABAO CENTER - WVSU	TIGBAUAN, ILOILO	PHILIPPINE CARABAO CENTER			

\int	SLAB PI	_AN
ho	SCALE	1:100M



-

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PHILIPPINE CARABAO CENTER NATIONAL GENE POOL & HEADQUARTERS		PRC ID: PTR NO:	-		PROPOSED DAIRY PROCESSING FACILITY AND PRODUCTS OUTLET	
CLSU Cpd., Science City of Munoz, Nueva Ecija	ENGR. CHRISTOPHER FEBB F. SAN MIGUEL ENGINEER I, LIVESTOCK ENGINEERING SECTION, PHILIPPINE CARABAO CENTER	ISSUED ON: ISSUED AT:	ENGR. CRIS GUZON HEAD, LIVESTOCK ENGINEERING SECTION, PHILIPPINE CARABAO CENTER	DR. MYRTEL C. ALCAZAR OIC - CENTER CHIEF PHILIPPINE CARABAO CENTER - WVSU	TIGBAUAN, ILOILO	DR. LIZA G. BATTAD EXECUTIVE DIRECTOR, PHILIPPINE CARABAO CENTER

WALL'S EXTERIOR FACE MUST BE PARALLEL TO BEAM'S

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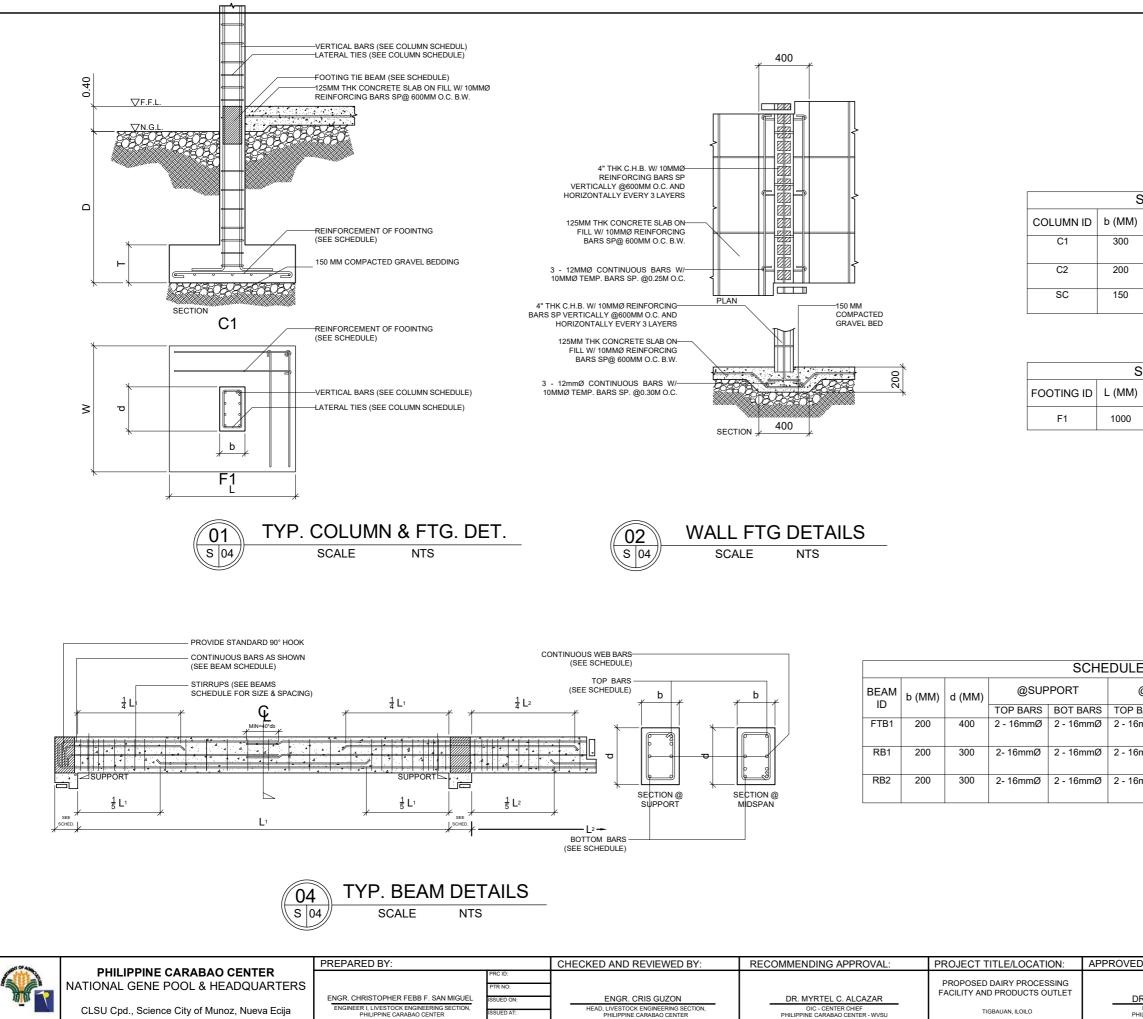
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REVISION:

EXTERIOR FACE TO HAVE AN EVEN SURFACE AT FRONT

SIGNAGE

FFL

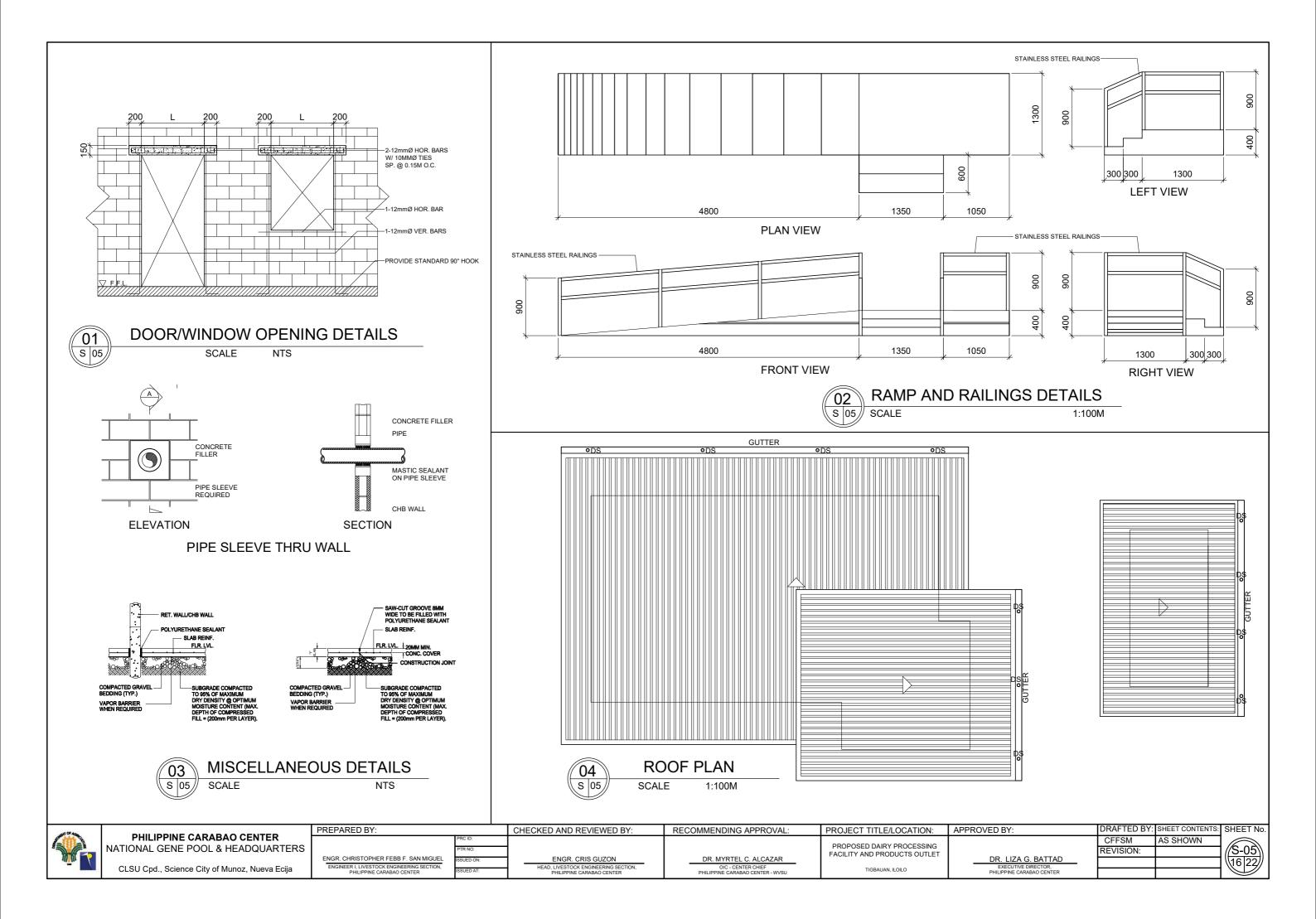


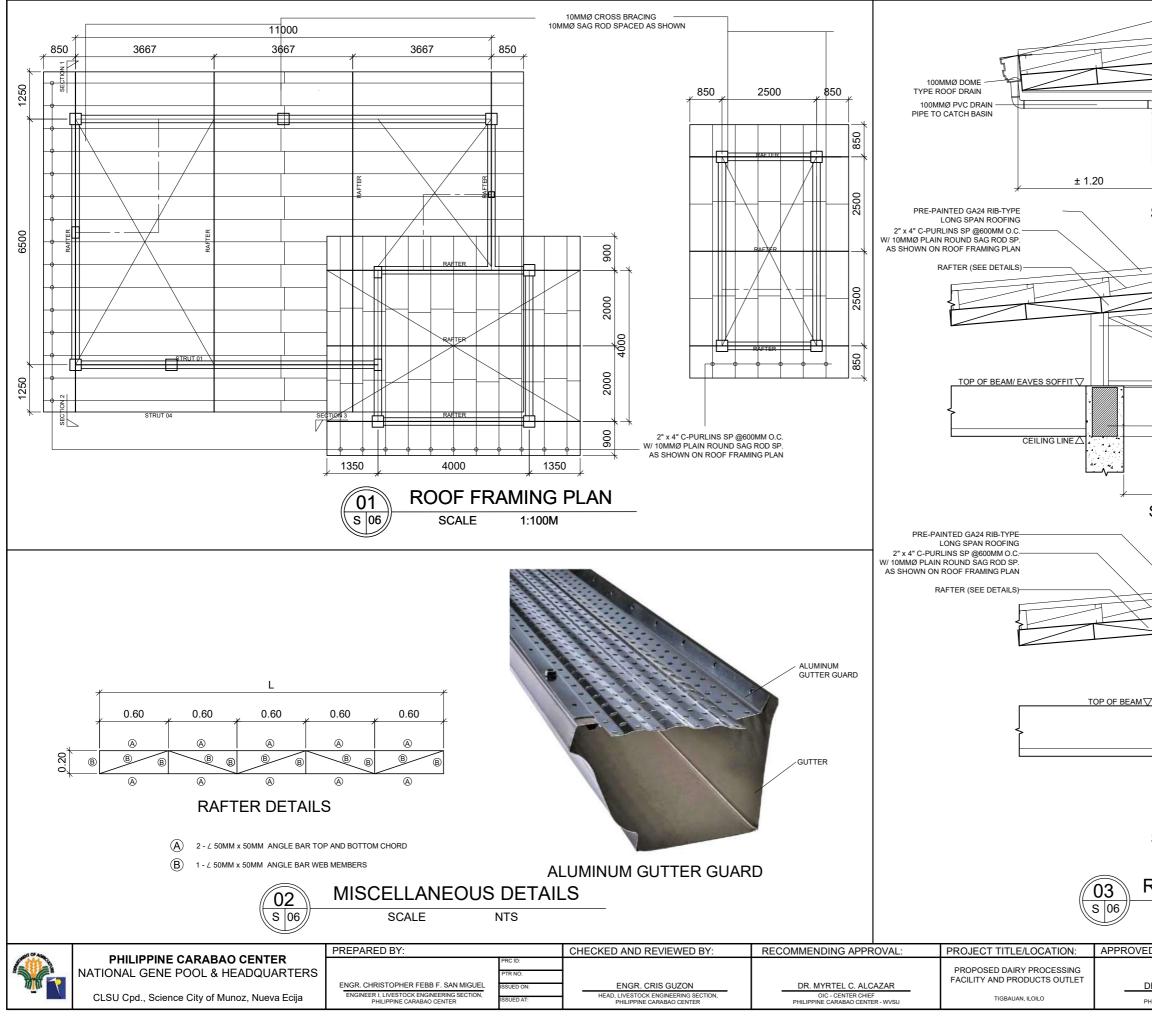
S	SCHEDULE OF COLUMNS									
)	d (MM)	VERTICAL	LAT. TIES							
	300	8 - 16mmØ	10MMØ SP. 2@.05, 2@0.10, 2@.15 REST @ .20M. O.C.							
	300	6 - 16mmØ	10MMØ SP. 2@.05, 2@0.10, 2@.15 REST @ .20M. O.C.							
	150	4 - 16mmØ	10MMØ SP. 2@.05, 2@0.10, 2@.15 REST @ .20M. O.C.							

S	SCHEDULE OF FOOTINGS								
)	W (MM)	T (MM)	D (MM)	TEMP. BARS					
	1000 300		1500	7 - 16mmØ BOTH WAYS					

E OF	E OF BEAMS									
@MID	SPAN	WEB BARS	STIRRUPS							
BARS	BOT BARS									
6mmØ	2 - 16mmØ	-	10MMØ SP. 4@.05, 2@0.10, 2@.15 REST @ .20M. O.C.							
6mmØ	2 - 16mmØ	-	10MMØ SP. 4@.05, 2@0.10, 2@.15 REST @ .20M. O.C.							
ômmØ	2 - 16mmØ	2 - 12MMØ	10MMØ SP. 4@.05, 2@0.10, 2@.15 REST @ .20M. O.C.							

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	CFFSM	AS SHOWN	
	REVISION:		(/S-04))
DR. LIZA G. BATTAD EXECUTIVE DIRECTOR.			(15 22)
PHILIPPINE CARABAO CENTER			



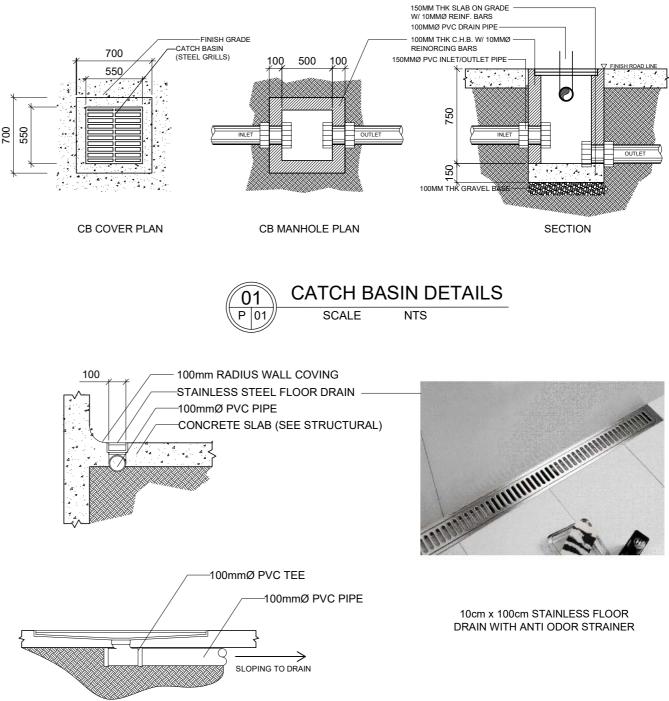


PRE-PAINTED GA24 GUTTER WITH ALUMINUM GUTTER GUARD RAFTER (SEE DETAILS)
GA24ALUMINUM FLASHING GUTTER 4.5MM THK ALUMINUM COMPOSITE CLADDING IN LIGHT METAL FRAMING 1 - 25MM x 25MM x 6MM THK ANGLE BAR FRAME PARAPET WALL
± 1.20 SECTION 2 PRE-PAINTED GA24 GUTTER WITH ALUMINUM GUTTER GUARD
PARAPET WALL
± 1.10
ROOF FRAMING DETAILS SCALE NTS
D BY: DRAFTED BY: SHEET CONTENTS: SHEET No. CFFSM AS SHOWN REVISION: S-06 17 22

PRE-PAINTED GA24 GUTTER

PLUMBING NOTES

- 1. ALL MATERIALS, FIXTURES & EQUIPMENT TO BE USED IN THE PLUMBING INSTALLATION SHALL BE NEW, OF THE APPROVED TYPE & SIZE AS TO ITS INTENDED USAGE.
- 2. ALL INSTALLATION SHALL BE IN CONFORMANCE WITH THE PLUMBING CODE OF THE PHILIPPINES, ITS RULES & REGULATIONS.
- 3. DRAINAGE PIPING SHALL BE PROVIDED WITH APPROVED INLET FITTINGS FOR FIXTURE CONNECTIONS, CORRECTLY LOCATED ACCORDING TO THE SIZE & TYPE OF FIXTURE PROPOSED TO BE CONNECTED.
- 4. CHANGE IN DIRECTION OF DRAINAGE PIPING SHALL BE MADE WITH APPROPRIATE USE OF APPROVED FITTINGS & SHALL BE OF THE ANGLES REPRESENTED BY A 1/16 BEND, 1/8 BEND, 1/6 BEND OR OTHER APPROVED FITTINGS OR EQUIVALENT SWEEP.
- 5. PROVIDE CLEAN-OUT FOR EACH CHANGE IN DIRECTION IF THE TOTAL AGGREGATE CHANGE EXCEEDS 135 DEGREES.
- 6. EACH CLEAN-OUT SHALL BE INSTALLED SO THAT IT OPENS IN A DIRECTION OPPOSITE TO THE FLOW OF SOIL OR WASTE OR AT RIGHT ANGLES THERETO. ADDITIONAL CLEANOUTS SHALL BE INSTALLED AT INTERVALS NOT TO EXCEED 100 FT (30.5 m.) IN STRAIGHT RUNS.
- 7. HORIZONTAL DRAINAGE PIPING SHALL RUN IN PRACTICAL ALIGNMENT & A UNIFORM SLOPE OF NOT LESS THAN 1/4 OF AN INCH PER FOOT (20.8 mm/mt.) OR 2% TOWARD THE POINT OF DISPOSAL.
- 8. UNLESS PROHIBITED BY STRUCTURAL CONDITIONS, EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN 6" (152.4 mm ABOVE THE FLOOD LEVEL RIM OF THE FIXTURE SERVED BEFORE) OFFSETTING HORIZONTALLY.
- 9. EACH VENT PIPE OR STACK SHALL EXTEND THROUGH ITS FLASHING & SHALL TERMINATE VERTICALLY NOT LESS THAN 6" (152.4 mm) ABOVE THE ROOF & ONE FOOT (0.30 m.) FROM ANY VERTICAL SURFACE.
- 10. PIPING SHALL BE LAID ON A FIRM BED THROUGHOUT ITS ENTIRE LENGTH. IF ANY SUCH PIPING IS LAID IN MADE OR FILLED GROUND, IT SHALL BE LAID ON A BED OF APPROVED MATERIALS & SHALL BE ADEQUATELY SUPPORTED.



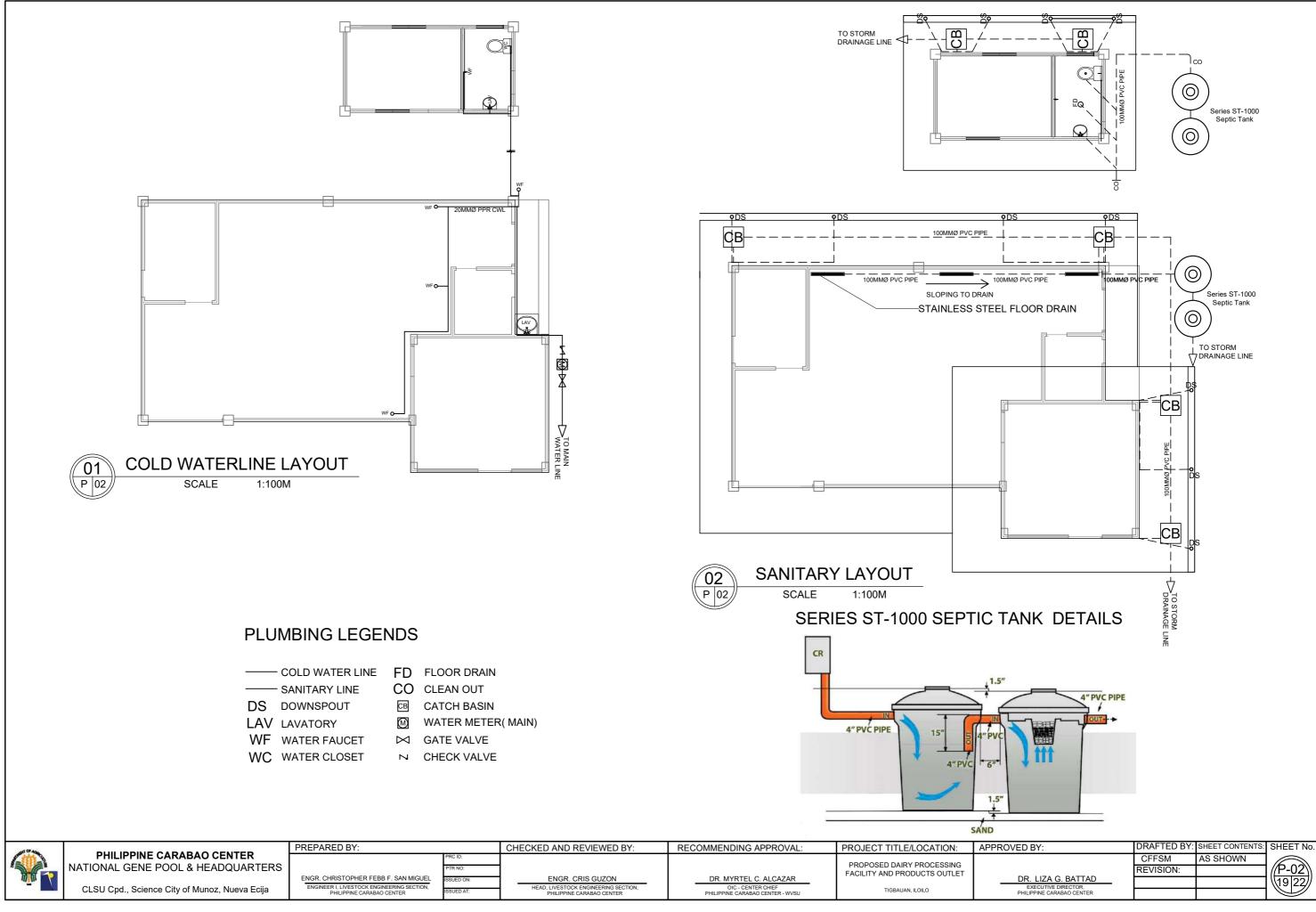




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	PHILIPPINE CARABAO CENTER		PRC ID:			PROPOSED DAIRY PROCESSING			AS SHOWN	
51	NATIONAL GENE POOL & HEADQUARTERS	ENGR. CHRISTOPHER FEBB F. SAN MIGUEL	PTR NO:			FACILITY AND PRODUCTS OUTLET		REVISION:		<u>(P-01)</u>
	CLSU Cpd., Science City of Munoz, Nueva Ecija	ENGINEER LUVESTOCK ENGINEERING SECTION	ISSUED ON:	ENGR. CRIS GUZON HEAD, LIVESTOCK ENGINEERING SECTION,	DR. MYRTEL C. ALCAZAR OIC - CENTER CHIEF		DR. LIZA G. BATTAD EXECUTIVE DIRECTOR,			18 22
	CLOU Opu., Science Ony Of Mullioz, Nueva Ecija	PHILIPPINE CARABAO CENTER	ISSUED AT:	PHILIPPINE CARABAO CENTER	PHILIPPINE CARABAO CENTER - WVSU	TIGBAUAN, ILOILO	PHILIPPINE CARABAO CENTER			

FLOOR CANAL SECTION

NTS



AND OF ACT		PREPARED BY:		CHECKED AND REVIEWED BY:	RECOMMENDING APPROVAL:	PROJECT TITLE/LOCATION:	APPROVED BY:
	PHILIPPINE CARABAO CENTER NATIONAL GENE POOL & HEADQUARTERS CLSU Cpd., Science City of Munoz, Nueva Ecija	ENGR. CHRISTOPHER FEBB F. SAN MIGUEL ENGINEER I, LIVESTOCK ENGINEERING SECTION, PHILIPPINE CARABAO CENTER	PRC ID: PTR NO: ISSUED ON: ISSUED AT:	ENGR. CRIS GUZON HEAD, LIVESTOCK ENGINEERING SECTION, PHILIPPINE CARABAO CENTER	DR. MYRTEL C. ALCAZAR OIC - CENTER CHIEF PHILIPPINE CARABAO CENTER - WVSU	PROPOSED DAIRY PROCESSING FACILITY AND PRODUCTS OUTLET TIGBAUAN, ILOILO	DR. LIZ EXECU PHILIPPINE

ELECTRICAL NOTES

- ALL ELECTRICAL WORKS HEREIN INCLUDED WERE EXECUTED IN ACCORDANCE WITH 1. THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE THE RULES AND REGULATIONS OF THE LOCALITY AND THE REQUIREMENTS OF THE POWER COMPANY.
- ALL ELECTRICAL WORKS HEREIN WERE EXECUTED BY EXPERIENCED MEN UNDER 2. THE DIRECT SUPERVISION OF A FULL-TIME LICENSED ELECTRICAL ENGINEER AND A DULY ACCREDITED ELECTRICAL CONTRACTOR BY PCAB. WORKS WERE NEATLY PLACED, SECURELY FASTENED AND PROPERLY FINISHED.
- TYPE OF SERVICE ENTRANCE WERE THREE-PHASE, THREE-WIRE PLUS GROUND 3. 13.2KVOLTS, 60 HERTZ TO STEP DOWN TO 230V VIA PAD MOUNTED TRANSFORMERS.
- ALL MATERIALS WERE CONFORM WITH THE INTERNATIONALLY ACCREDITED RECOGNIZED STANDARDS, IN EVERY CASE WHERE SUCH A STANDARD HAD 4 BEEN ESTABLISHED FOR THE PARTICULAR TYPE OF MATERIAL IN QUESTION.
- ALL FEEDER CONDUITS WERE INTERMEDIATE METALLIC CONDUIT (IMC) OF HIGH STRENGTH AND GALVANIZED WITH AN ADDITIONAL INTERIOR PROTECTIVE COATING WERE USED OR AS INDICATED ON THE PLAN. ALL EMBEDDED BRANCH CIRCUITS WERE 5. PVC CONDUITS AND FOR EXPOSED INSTALLATION WERE EMT.
- ELECTRICAL TRADE SIZE WERE USED, A MINIMUM OF 15mm Ø FOR CONDUITS AND 6. IN NO CASE THERE WERE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS IN ANY ONE RUN.
- 7. ALL CONDUITS WERE PROTECTED AGAINST DAMAGES BY THE ENTRANCE OF WATER AND FOREIGN MATTER DURING CONSTRUCTION. ALL ENDS OF CONDUITS WERE PLUGGED TO EXCLUDE MOISTURE AND DUST IMMEDIATELY AFTER THE CONDUITS WAS PLACED.
- ALL CONDUIT BENDS WERE FIELD MADE BY USING HYDRAULIC BENDERS. MINIMUM 8. BENDING RADIUS WERE IN ACCORDANCE TO THE CODE REQUIREMENTS.
- SINGLE CONDUCTOR INSULATED THHN / THWN THERMOPLASTIC 600 V WIRES WERE 9. USED IN CONDUIT. MINIMUM SIZE OF WIRES WERE 2.0 mmØ THHN (#12AWG, SOLID) FOR ALL LIGHTING AND POWER SYSTEM.
- 10. ALL WIRES AND CABLES WERE COLOR CODED AND WERE UL LISTED AS FOLLOWS: PHASE A - BLACK GROUND - GREEN PHASE B - RED CONTROL WIRE #1 - BLUE PHASE C - YELLOWCONTROL WIRE #2 - WHITE
- TWISTLOCK CONNECTORS WERE USED IN ALL SPLICING AND CONNECTIONS FROM 11 2.0 mm dia. UP TO 8.0 sq. mm. WIRES, CRIMPING-TYPE LUGS/CONNECTORS IN "ELPRESS".
- WALL SWITCHES WERE RATED 15 AMPERES, 300 VOLTS TUMBLER TYPE AND CONVE-12. NIENCE OUTLETS WERE OF GROUNDING TYPE THREE-WIRE, 250 VOLTS OR AS INDICATED ON THE PLANS AND SPECIFICATIONS.
- SIZING OF ALL PULLBOXES SHALL BE COMPUTED BASED ON THE CODE REQUIREMENTS. 13. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. LOCATION OF PULLBOXES WERE APPROVED BY THE ARCHITECT/ENGINEER AND WAS REFLECTED ON THE "AS-BUILT" PLAN. FABRICATOR OF PULLBOXES WERE THE SAME FABRICATOR FOR THE PANELBOARDS.

- CONTRACTORS HAD SUBMITTED SHOP DRAWINGS OF ALL PANELBOARDS AND PULLBOXES TO 14 THE ENGINEER PRIOR TO FABRICATION. ONLY ONE BRAND OF CIRCUIT BREAKER AND ONLY THE APPROVED PANEL FABRICATOR WERE UTILIZED IN THE ENTIRE PROJECT REQUIREMENT.
- 15. MOUNTING HEIGHTS OF DEVICES WERE AS APPROVED BY THE ARCHITECT AND/OR AS FOLLOWS :
 - ____1.82 M. above finished floor to top of panel PANEL BOARD WALL SWITCHES 1.37 M. above finished floor to center of device CONVENIENCE OUTLET_0.30 M. above finished floor to center of device or 0.15 M. above working counter to center of device
- 16. THERE WERE ADEQUATE AND EFFECTIVE EQUIPMENT GROUNDING.
- 17. UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, THE FOLLOWING TESTS WERE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETAILS ON FORMS APPROVED BY THE OWNER'S REPRESENTATIVE :
 - A. INSULATION RESISTANCE TEST. PHASE SEQUENCE TESTING
 - B. GROUND RESISTANCE TEST F. HI-POT TESTING G. SYSTEM TEST
 - C. OPERATIONAL TEST D. PHASE BALANCING TEST H. ROUTINE TESTING
- 18. DOWN CONDUCTOR FOR THE LIGHTNING PREVENTION SYSTEM WERE STRANDED BARE COPPER, 100mm FOR CONNECTION TO GROUNDING ELECTRODE USING EXOTHERMIC CONNECTIONS.
- 19. AIR TERMINAL/IONZER TO BE USED WERE LISTED PER UL 96A, NFPA-78.
- 20. A PHASE TO PHASE AND PHASE TO GROUND MINIMUM CLEARANCE OF 460mm AND 330mm RESPECTIVELY, WERE MAINTAINED INSIDE THE HIGH VOLTAGE CUBICLE ...
- 21. THE MINIMUM VERTICAL AND HORIZONTAL CLEARANCE OF 34.5KV BARE CONDUCTORS FROM THE BUILDING SHALL BE 3.05 METERS.
- 22. THE GROUND RESISTANCE OF THE SUBSTATION WAS NOT MORE THAN 5 OHMS, IF GROUND RESISTANCE EXCEEDS 5 OHMS, ADDITIONAL GROUND RODS WERE PROVIDED.
- ALL OTHER SIZES WITH APPROVED DIES AND HYDRAULIC CRIMPERS, CONNECTORS WERE 23. THE CONTROLS OF THE MAIN SECONDARY BREAKERS, GENERATOR BREAKERS, THE BREAKERS AND INTERLOCKS WERE TESTED BY MERALCO TO ASSURE THAT THERE IS NO PARALLEL OPERATION WITH OR FEEDBACK INTO THE MERALCO DISTRIBUTION SYSTEM.
 - 24. DANGER SIGNS ON THE POWER ROOM WERE PROVIDED BY THE CUSTOMER.



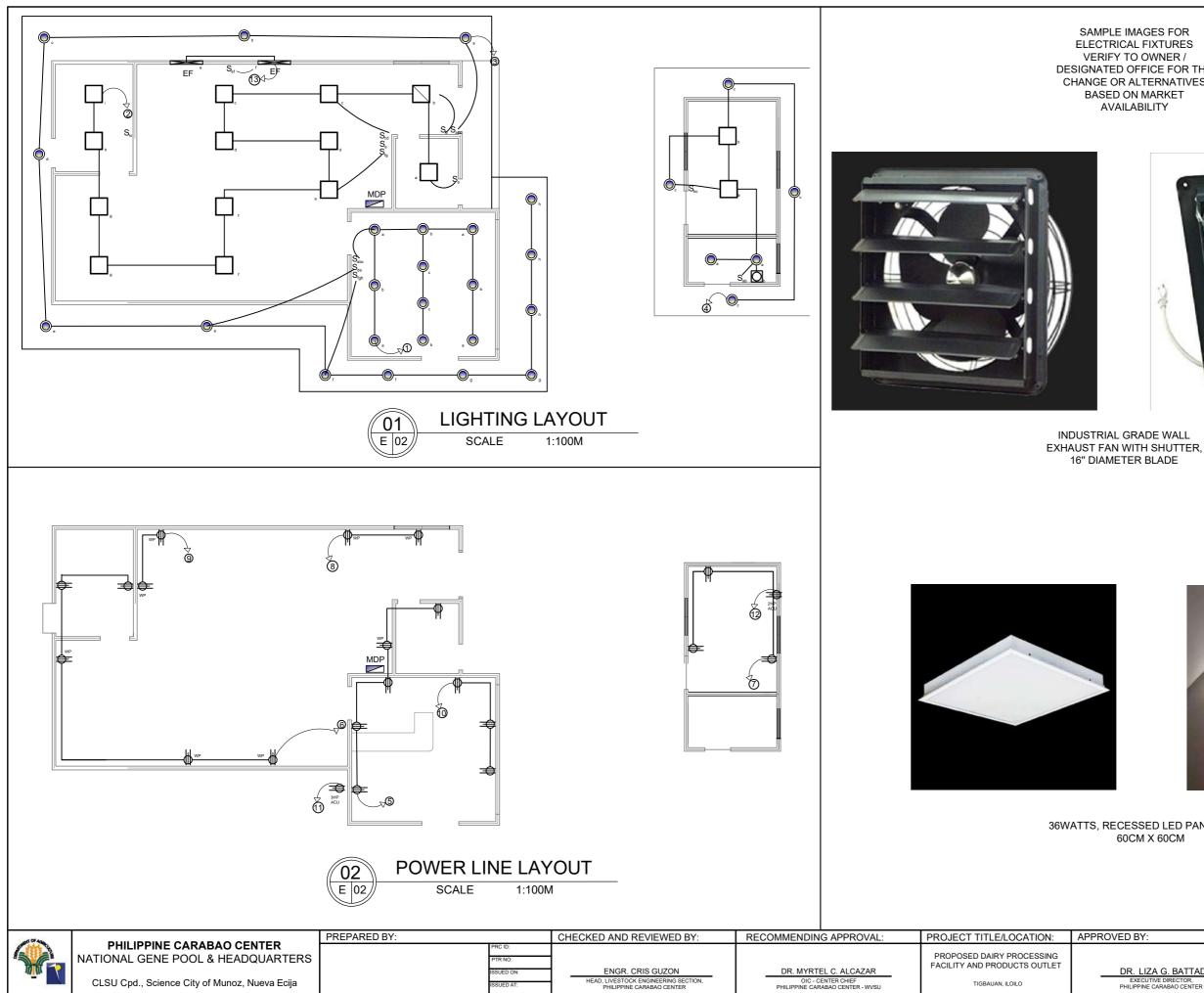
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-	PHILIPPINE CARABAO CENTER NATIONAL GENE POOL & HEADQUARTERS	PRC ID: PTR NO:	:):			PROPOSED DAIRY PROCESSING	
2		ISSUED O	ON:	ENGR. CRIS GUZON	DR. MYRTEL C. ALCAZAR	FACILITY AND PRODUCTS OUTLET	DR.
	CLSU Cpd., Science City of Munoz, Nueva Ecija	ISSUED A	AT:	HEAD, LIVESTOCK ENGINEERING SECTION, PHILIPPINE CARABAO CENTER	OIC - CENTER CHIEF PHILIPPINE CARABAO CENTER - WVSU	TIGBAUAN, ILOILO	EX PHILIP

LE	EGENDS AND SYMBOLS
┏	LP – LIGHTING PANELBOARD PP – POWER PANELBOARD RP – RECEPTACLE PANEL DP – DISTRIBUTION PANEL MDP – MAIN DISTRIBUTION PANEL
	POWER LINES
	Circuit run for lighting
	LIGHTING SWITCH HOMERUN
	CIRCUIT RUN UNDERFLOOR OR UNDERGROUND
) (I)	CIRCUIT HOMERUN DESIGNATION, UPPER HALF DENOTES POWER SOURCE OF THE CIRCUIT WHILE LOWER HALF DESIGNATES CIRCUIT NO.
Oru	CONDUIT RISER UP
Ord	CONDUIT RISER DOWN
^ vv	LIQUIDTIGHT FLEXIBLE CONDUIT
	B ^P ULLBOX, SIZE AS REQUIRED
(DUPLEX CONVENIENCE OUTLET , 3-WIRE GROUNDING TYPE, 230VAC 15 AMPERES, FLOOR MOUNTED
₿	DUPLEX CONVENIENCE OUTLET , 3-WIRE GROUNDING TYPE, 230VAC 15 AMPERES
₿	DITTO , BUT WITH WEATHERPROOF COVER
GFCI	DITTO , BUT WITH GROUND FAULT CIRCUIT INTERRUPTER
	DITTO , BUT WITH WEATHER PROOF COVER AND GROUND FAULT CIRCUIT INTERRUPTER COMBINATION
S1a	SINGLE-GANG SWITCH, 15 A , 230VAC
S2ab	TWO-GANG SWITCH , 15A 230VAC
S3abc	TREE-GANG SWITCH , 15A , 230VAC
S3Wa	ONE-GANG THREE WAY SWITCH 15 A , 230VAC
٥	6" DIAMETER PINLIGHT WITH ALUMINUM REFLECTOR AND GLASS COVER 1 X 13 WATTS LED BULB
	36WATTS, RECESSED LED PANEL LIGHT , 60CM X 60CM
EF	INDUSTRIAL GRADE WALL EXHAUST FAN WITH SHUTTER 16" DIAMETER BLADE
Ø	12X12" CEILING EXHAUST FAN
\rightarrow	SERVICE ENTRANCE, 13.2KV, 30, 4 WIRES, 60HZ
- 🕀	LIGHTING PROTECTION SYSTEM, AIR TERMINAL
	LIGHTNING ARRESTER, 15KV
5	FUSE CUT-OUT, 15KV
	GROUND SYSTEM W/ 20mmø x 3000mmL GROUND ROD
EMH	ELECTRICAL MANHOLE

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DR. LIZA G. BATTAD EXECUTIVE DIRECTOR.			20 22
HILIPPINE CARABAO CENTER			



SAMPLE IMAGES FOR ELECTRICAL FIXTURES VERIFY TO OWNER / DESIGNATED OFFICE FOR THE CHANGE OR ALTERNATIVES BASED ON MARKET AVAILABILITY





36WATTS, RECESSED LED PANEL LIGHT 60CM X 60CM

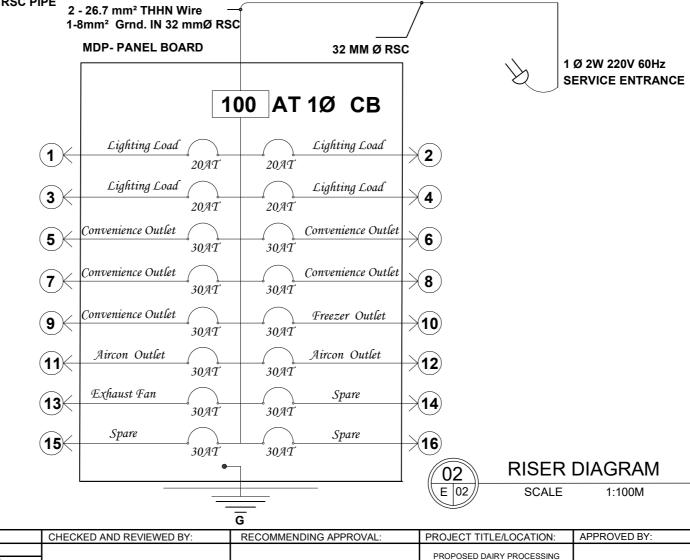
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DR. LIZA G. BATTAD	刃I
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													LOAD SC	HEDULE								
PANEL	CKT	LIGHTING OUTL			TLET			SW		со	OTHERS	QTY	WATTS	VOLT	AMPS	AMPERE	C.B. RATING			2	SIZE OF WIRE (THHN)	SIZE OF CONDUIT
PANEL	NO.	10W	28W	36W	13W	EF	S3G	S2G	S1G	180	OTHERS	QIT	WATTS	VULI	AIVIPS	AB	AT	AF	POLE	KAIC	SIZE OF WIRE (THHN)	(RSC/EMT.PVC)
	1				10		1						130	220	0.590909	0.6	20	100	2	10	2-2.0mm ² , 1-2.0mm ² GRD.	20mmØ PVC
	2			13				3	3				468	220	2.127273	2.13	20	100	2	10	2-2.0mm ² , 1-2.0mm ² GRD.	20mmØ PVC
	3				13		2	1					182	220	0.827273	0.83	20	100	2	10	2-2.0mm ² , 1-2.0mm ² GRD.	20mmØ PVC
	4			2	6			2			CEILING EXHAUST FAN (40W)	1	190	220	0.863636	0.87	20	100	2	10	2-2.0mm ² , 1-2.0mm ² GRD.	20mmØ PVC
	5										POWER OUTLET	5	900	220	4.090909	4.1	30	100	2	10	2-3.5mm ² , 1-2.0mm ² GRD.	20mmØ PVC
	6										POWER OUTLET	5	900	220	4.090909	4.1	30	100	2	10	2-3.5mm ² , 1-2.0mm ² GRD.	20mmØ PVC
	7										POWER OUTLET	3	540	220	2.454545	2.46	30	100	2	10	2-3.5mm ² , 1-2.0mm ² GRD.	20mmØ PVC
PANEL -	8										POWER OUTLET	2	360	219	1.643836	5.46	30	100	2	10	2-3.5mm ² , 1-2.0mm ² GRD.	20mmØ PVC
MDP	9										POWER OUTLET	2	360	220	1.636364	1.64	30	100	2	10	2-3.5mm ² , 1-2.0mm ² GRD.	20mmØ PVC
	10										FREEZER (400W)	3	1200	220	5.454545	5.46	30	100	2	10	2-5.5mm ² , 1-3.5mm ² GRD.	20mmØ PVC
	11										2HP AC	1	1492	220	6.781818	6.79	30	100	2	10	2-5.5mm ² , 1-3.5mm ² GRD.	20mmØ PVC
	12										1HP AC	1	746	220	3.390909	3.4	30	100	2	10	2-5.5mm ² , 1-3.5mm ² GRD.	20mmØ PVC
	13							1			EXHAUST FAN (750W)	2	1500	220	6.818182	6.82	30	100	2	10	2-3.5mm ² , 1-3.5mm ² GRD.	20mmØ PVC
	14										SPARE	1	1500	220	6.818182	6.82	30	100	2	10	2-5.5mm ² , 1-3.5mm ² GRD.	20mmØ PVC
	15										SPARE	1	1500	220	6.818182	6.82	30	100	2	10	2-5.5mm ² , 1-3.5mm ² GRD.	20mmØ PVC
	16										SPARE	1	1500	220	6.818182	6.82	30	100	2	10	2-5.5mm ² , 1-3.5mm ² GRD.	20mmØ PVC
TOTAL				15	29		3	7	3				13468			65.12						

IFL = 13,468/(220) x 1.20 = 78.14 AMPS @ 100% D.F. (BASED ON LOAD CALCULATION)

MCB = 100AT/100AF, 2P, 230V, 10KAIC

USE = 2-26.7mm² THHN WIRE & 1-8mm² GRD THHN WIRE IN 32mm Ø RSC PIPE



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OF Acto		PREPARED BY:	CHECKED AND REVIEWED BY:	RECOMMENDING APPROVAL:	PROJECT TITLE/LOCATION:	APPROVED BY:	DRAFTED BY:	SHEET CONTENTS:	SHEET No.
	PHILIPPINE CARABAO CENTER NATIONAL GENE POOL & HEADQUARTERS	PRC ID:			PROPOSED DAIRY PROCESSING			AS SHOWN	For
	NATIONAL GENE FOOL & HEADQUARTERS	ISSUED ON:	ENGR. CRIS GUZON	DR. MYRTEL C. ALCAZAR	FACILITY AND PRODUCTS OUTLET	DR. LIZA G. BATTAD	REVISION:		(E-03)
	CLSU Cpd., Science City of Munoz, Nueva Ecija	ISSUED AT:	HEAD, LIVESTOCK ENGINEERING SECTION, PHILIPPINE CARABAO CENTER	OIC - CENTER CHIEF PHILIPPINE CARABAO CENTER - WVSU	TIGBAUAN, ILOILO	EXECUTIVE DIRECTOR, PHILIPPINE CARABAO CENTER			2222