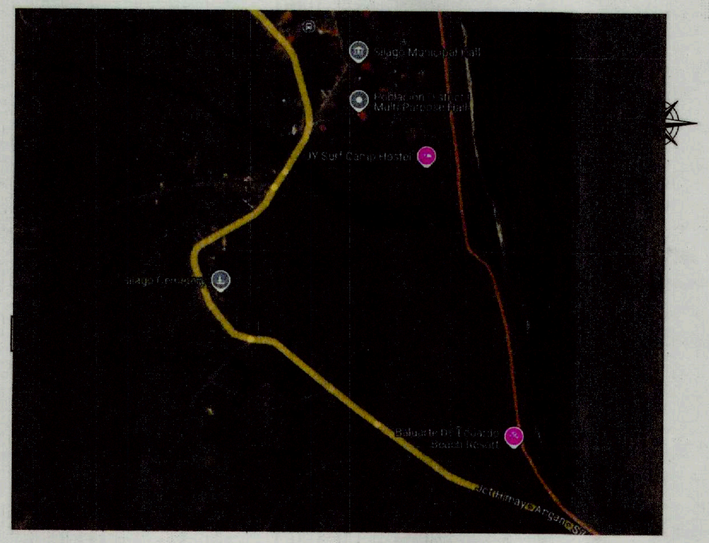
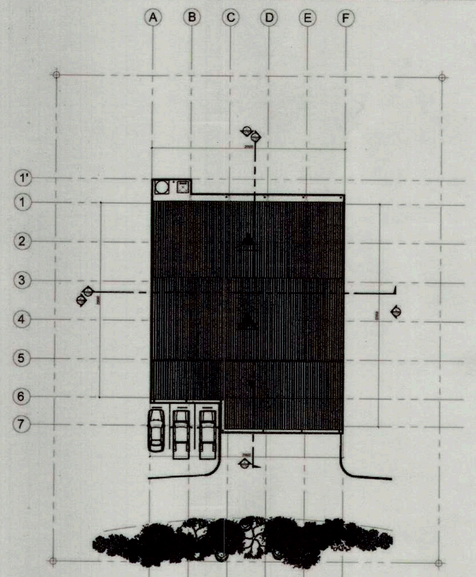
PERSPECTIVE



VICINITY/ LOCATION MAP



SITE DEVELOPMENT PLAN

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C. **REINFORCED CONCRETE WORKS**
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E. **MASONRY WORKS**
F. **DOORS AND WINDOWS**
G. **FINISHING WORKS**
H. **CEILING WORKS**
I. **OTHER FINISHES**
J. **PAINTING WORKS**
K. **SANITARY/PLUMBING WORKS**
L. **ELECTRICAL WORKS**
M. **SITE DEVELOPMENTS**

NOTES:

1. VERIFY ACTUAL ELEVATION MARKS AND LOT BOUNDARIES PRIOR TO COMMENCING WORKS.
2. VERIFY ACTUAL BEARINGS, DISTANCES AND TECHNICAL SITE CONDITIONS.
3. ALL WORKS TO BE DONE HEREIN SHALL BE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. ANY DEVIATIONS OR CHANGES IN THE PLANS AND/OR SPECIFICATIONS SHALL BE SUBJECT TO THE APPROVAL OF PEPD DESIGNER.

REPUBLIC OF PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAY
OFFICE OF THE BUILDING OFFICIAL

DISTRICT/ MUNICIPALITY/ CITY

LAND USED AND ZONING

LINE AND GRADE

ARCHITECTURAL

CIVIL / STRUCTURAL

ELECTRICAL

MECHANICAL

SANITARY

PLUMBING

ELECTRONICS

GEODETIC

PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE/LOCATION
BERNIE B. DEMIAO	BIENVENIDO C. BARRERA Jr.	LEMUEL P. HONOR	SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP):PROMOTING SUSTAINABILITY THROUGH ECO-HERITAGE TOURISM
ARCHITECT/DRAFTSMAN	MUNICIPAL ENGINEER	MUNICIPAL MAYOR	LOCATION: SILAGO, SOUTHERN LEYTE

TIEZA
TOURISM INFRASTRUCTURE AND ENTERPRISE ZONE AUTHORITY
6th & 7th FLOORS TOWER-1, DOUBLE DRAGON PLAZA, DOUBLE DRAGON MERIDIAN PARK MACAPAGAL AVENUE CORNER EDSA EXTENSION BAY AREA, PASAY CITY 1308

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CHECKED BY: RADY E. ADAME	REVIEWED BY: JEOFFREY L. MACALALAD	GREGORY A. OLLER	MARK T. LAPID	GC 01 / 01 28
MANAGER PROJECT PLANNING & DESIGN DIVISION	MANAGER PROJECT EVALUATION & PLANNING DEPARTMENT	ASSISTANT CHIEF OPERATING OFFICER ARCHITECTURAL & ENGINEERING SERVICES SECTOR	CHIEF OPERATING OFFICER	

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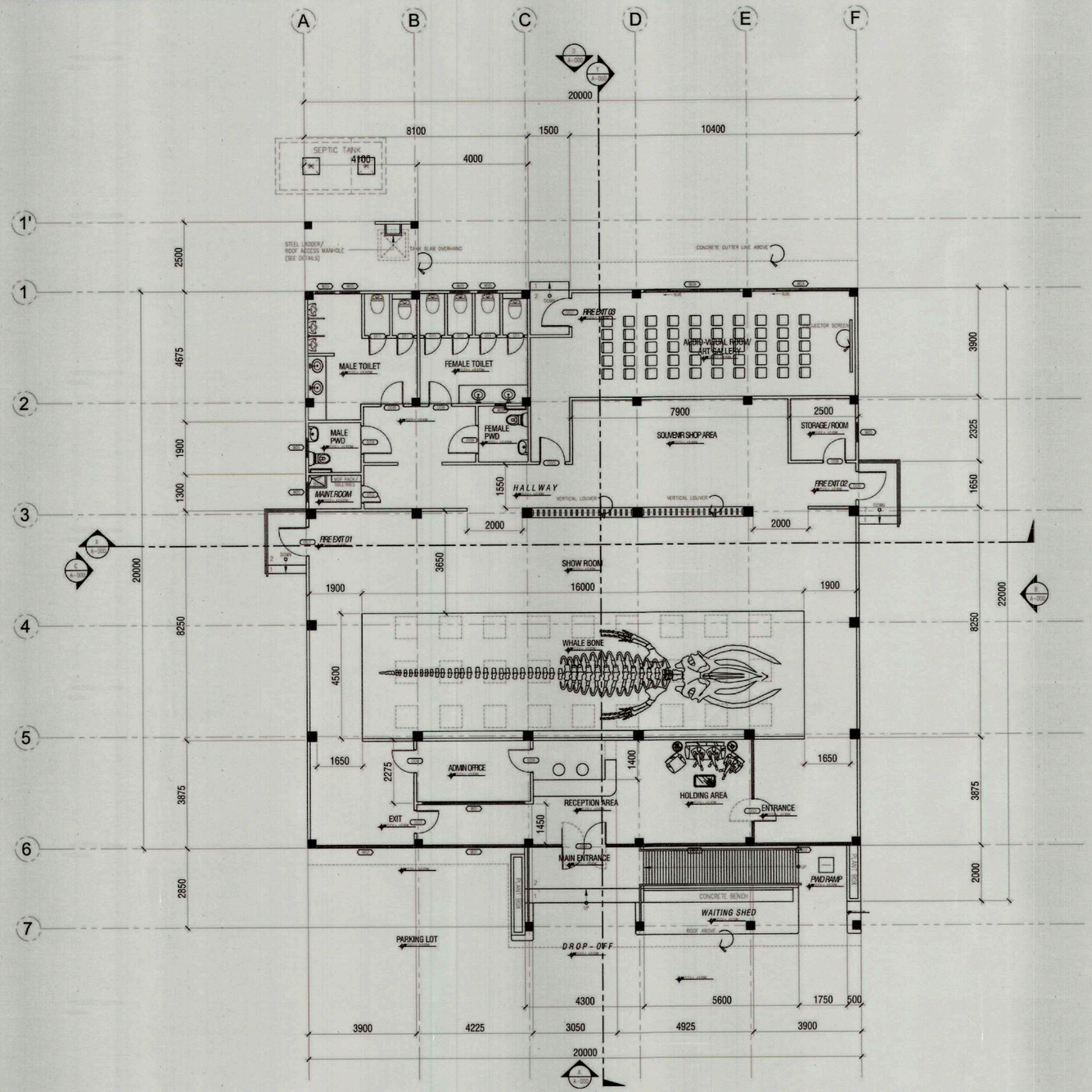

SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP)

FLOOR PLAN

A 01 — SCALE 1 : 100 MTS

PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE/LOCATION
BERNIE B. DEMIAO	BIENVENIDO C. BARRERA Jr.	LEMUEL PHONOR	SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP):PROMOTING SUSTAINABILITY THROUGH ECO-HERITAGE TOURISM
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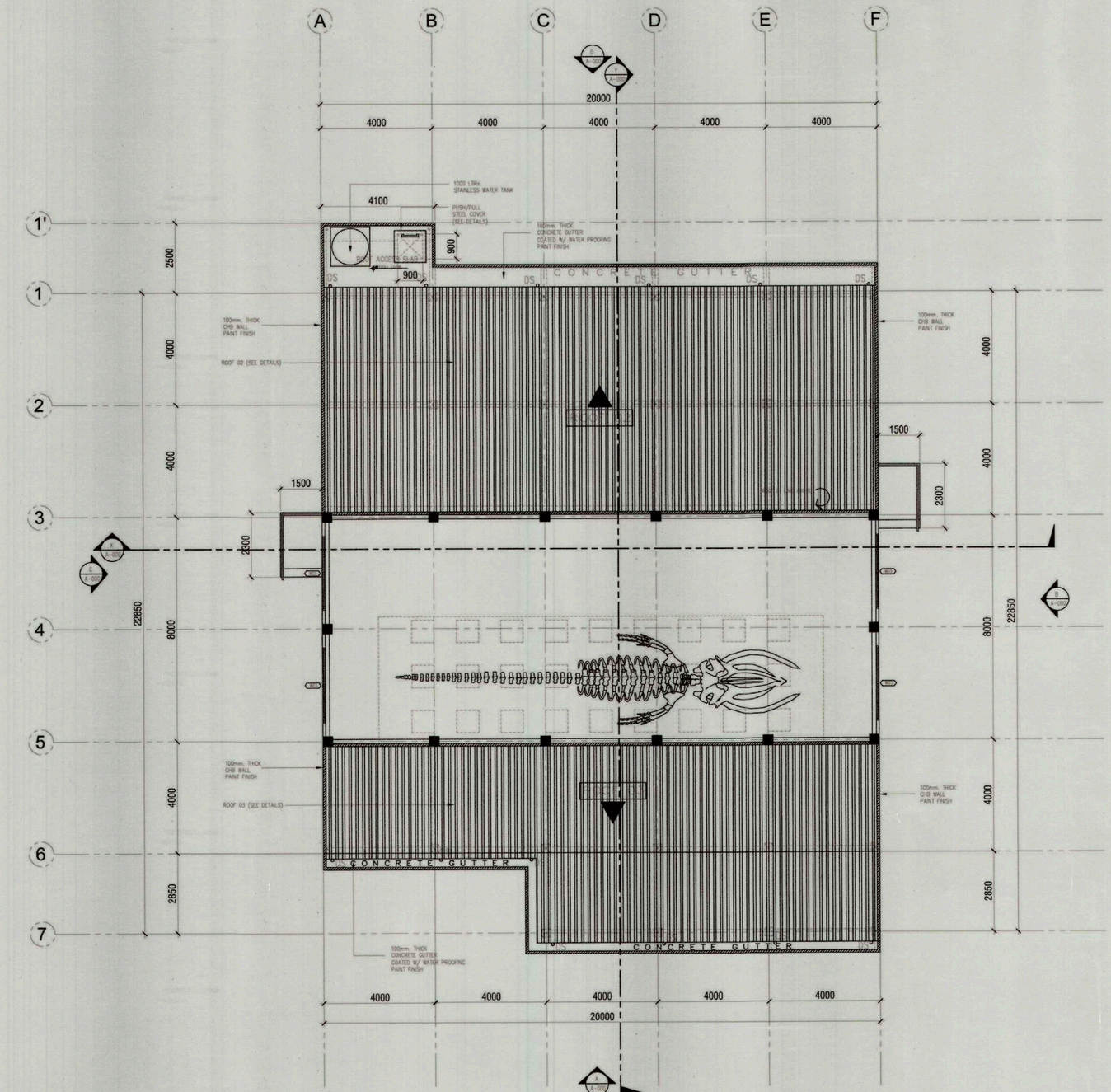

SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

A 02 **LOWER ROOF PLAN**

SCALE 1:100 MTS

PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE/LOCATION
BERNIE B. DEMIAO	BIENVENIDO C. BARRERA Jr.	LEMUEL PHONOR	SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP):PROMOTING SUSTAINABILITY THROUGH ECO-HERITAGE TOURISM
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MANAGER, PROJECT PLANNING & DESIGN DIVISION	MANAGER, PROJECT EVALUATION & PLANNING DEPARTMENT	ASSISTANT CHIEF OPERATING OFFICER, ARCHITECTURAL & ENGINEERING SERVICES SECTOR	CHIEF OPERATING OFFICER	

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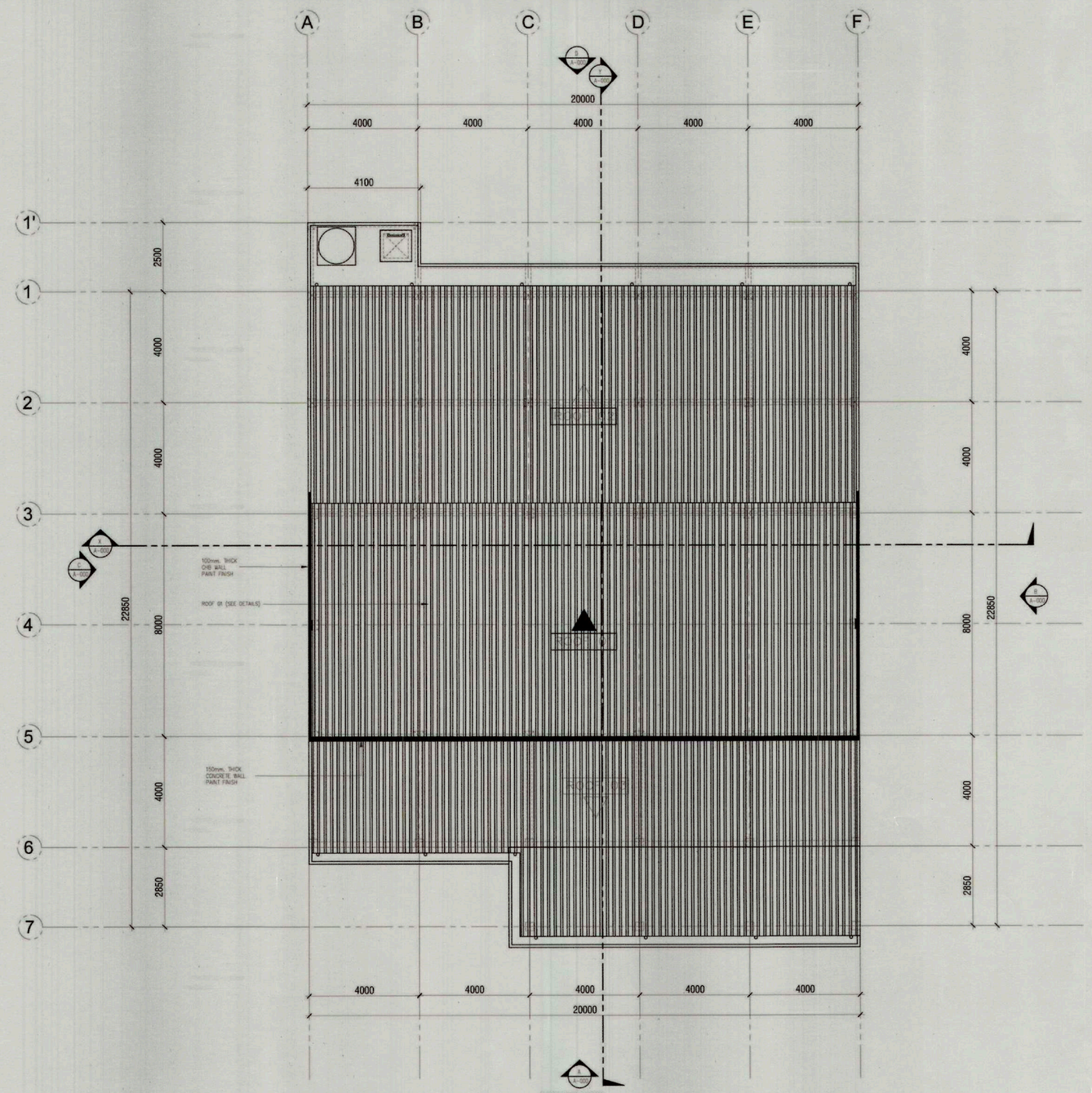

A 03

SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP)

UPPER ROOF PLAN

SCALE 1 : 100 MTS

PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE/LOCATION
BERNIE B. DEMIAO	BIENVENIDO C. BARRERA Jr.	LEMUEL P. HONOR	SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP):PROMOTING SUSTAINABILITY THROUGH ECO-HERITAGE TOURISM
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CHECKED BY:	REVIEWED BY:			A 03
RADY E. ADAME	JEOFFREY L. MACALALAD	GREGORY A. OLLER	MARK T. LAPID	04 28
MANAGER PROJECT PLANNING & DESIGN DIVISION	MANAGER PROJECT EVALUATION & PLANNING DEPARTMENT	ASSISTANT CHIEF OPERATING OFFICER ARCHITECTURAL & ENGINEERING SERVICES SECTOR	CHIEF OPERATING OFFICER	

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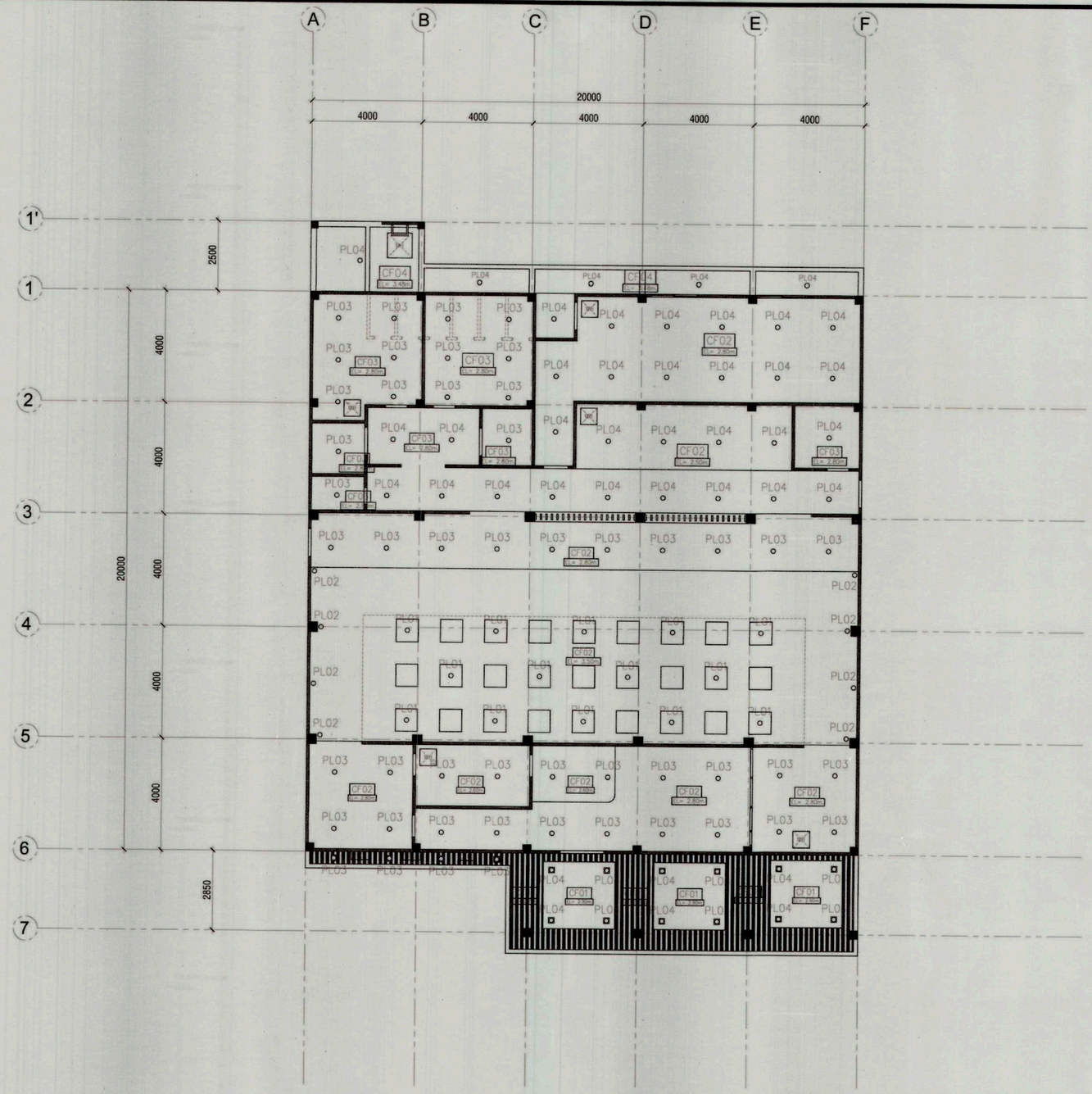

CEILING FINISH LEGEND	
CEILING REFERENCE	DESCRIPTION
CF01	WPC PANEL CEILING
CF02	12mm. THICK GYPSUM BOARD PAINT FINISH
CF03	6mm. THICK PLYWOOD PAINT FINISH
CF04	GUTTER SLAB SOFFIT PAINT FINISH

LIGHTING LEGEND	
LIGHT REFERENCE	DESCRIPTION
PL01	PIN LIGHT TYPE 01 ; DROP LIGHT
PL02	PIN LIGHT TYPE 02 ; WALL LAMP
PL03	PIN LIGHT TYPE 03 ; WARM LIGHT
PL04	PIN LIGHT TYPE 04 ; DAYLIGHT

NOTE : FINAL CEILING FINISH, LIGHTS, OTHER DETAILS & SPECIFICATIONS BY INTERIOR DESIGNER

SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

A 04 **REFLECTED CEILING PLAN**

SCALE 1 : 100 MTS

PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE/LOCATION
BERNIE B. DEMIAO	BIENVENIDO C. BARRERA Jr.	LEMUEL P. HONOR	SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP):PROMOTING SUSTAINABILITY THROUGH ECO-HERITAGE TOURISM
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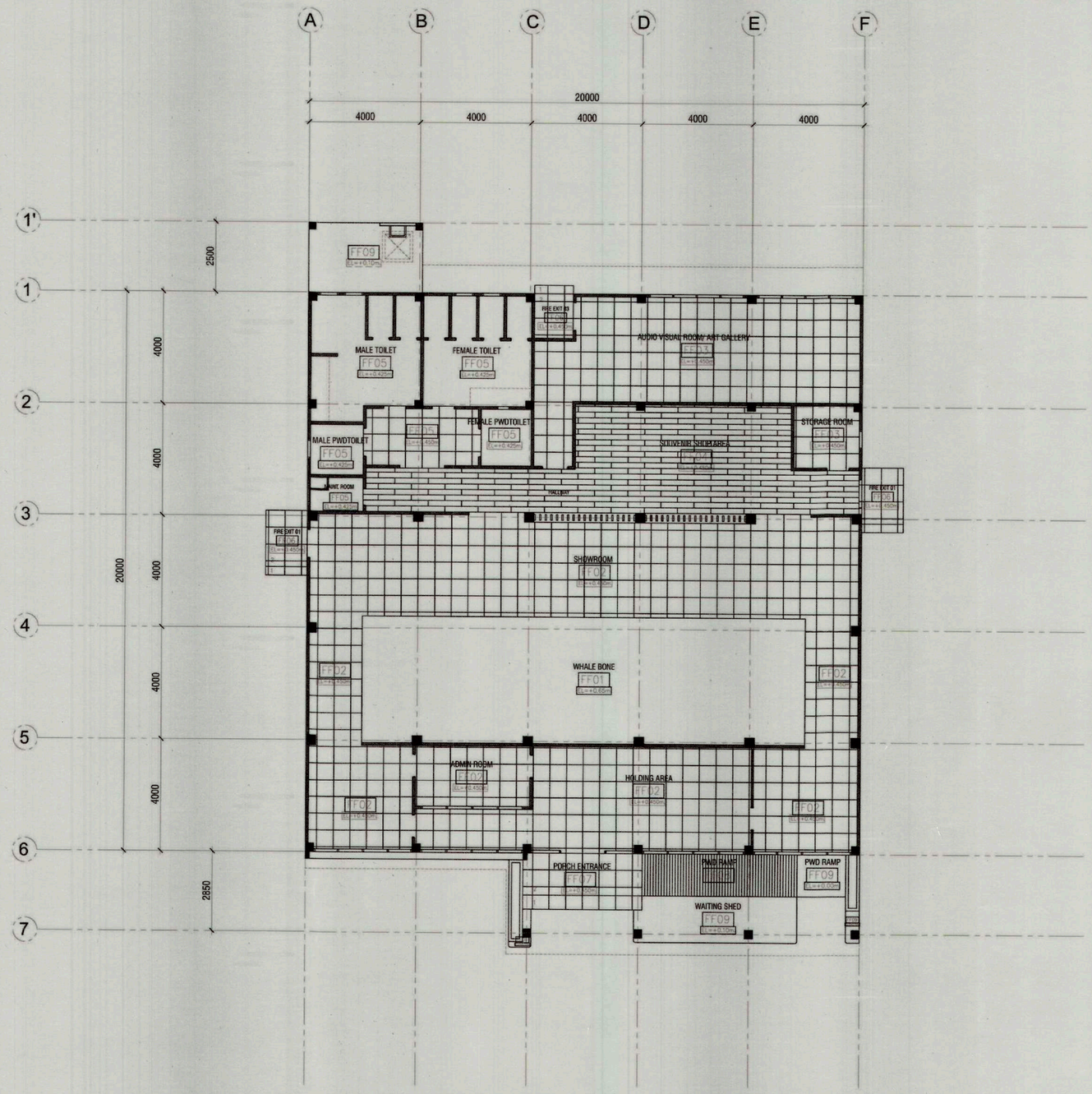

FLOOR FINISH LEGEND		
MATERIAL	FLOOR REFERENCE	DESCRIPTION
	FF01	PLAIN CEMENT SMOOTH FINISH WITH CONCRETE HARDENER
	FF02	600X600mm. HOMOGENOUS FLOOR TILE FINISH; GLAZED
	FF03	600X600mm. HOMOGENOUS FLOOR TILE FINISH; GLAZED
	FF04	200X1200mm. HOMOGENOUS FLOOR TILE FINISH; GLAZED
	FF05	600X600mm. HOMOGENOUS FLOOR TILE FINISH; NON SKID
	FF06	600X600mm. HOMOGENOUS FLOOR TILE FINISH; NON SKID
	FF07	600X600mm. HOMOGENOUS FLOOR TILE FINISH; NON SKID
	FF08	ROUGH FLOOR FINISH W/ 10mm. GROOVES SPACED 100mm.
	FF09	BROOM FINISH

NOTE : FINAL FLOOR & WALL FINISH DETAILS & SPECIFICATIONS BY INTERIOR DESIGNER

A 05

SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

FLOOR FINISH LAYOUT PLAN

SCALE 1 : 100 MTS

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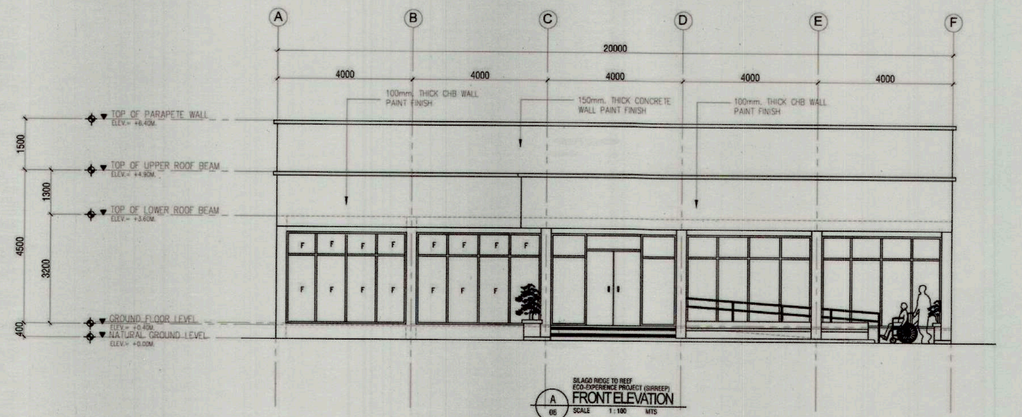
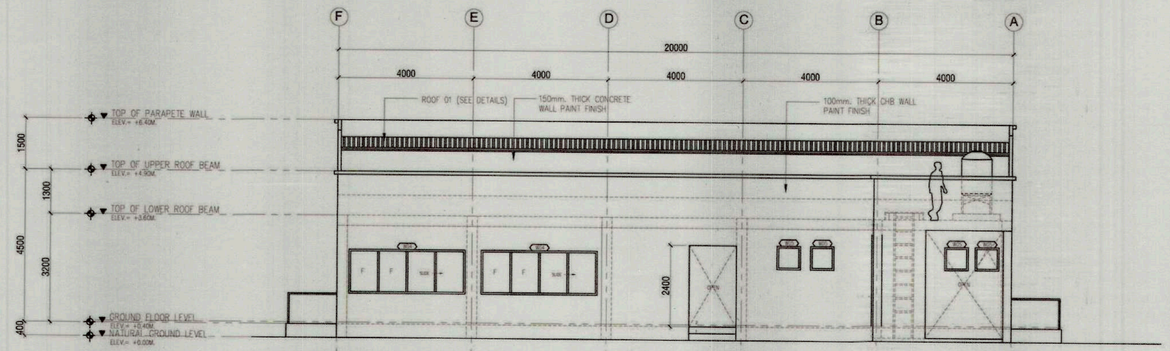
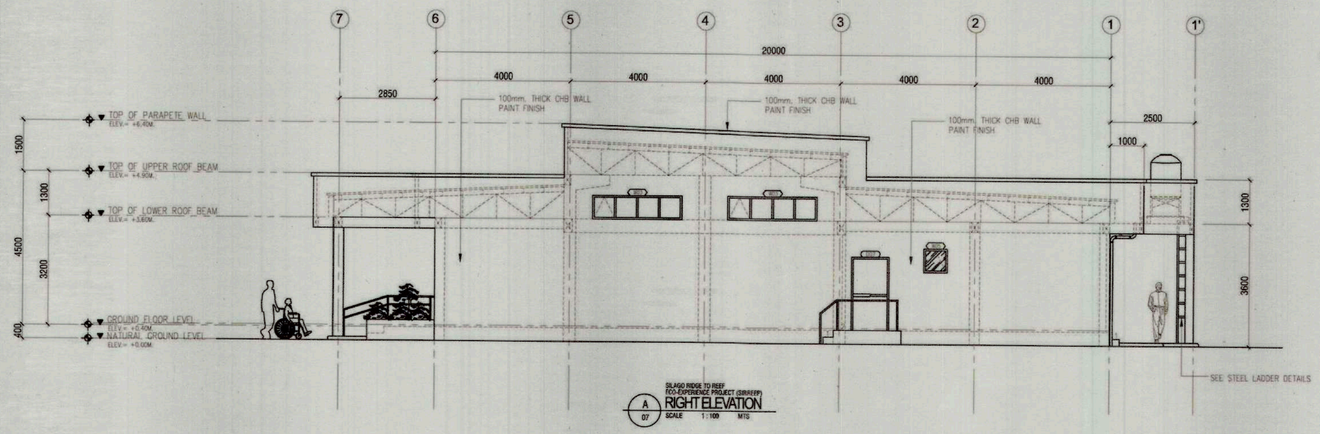


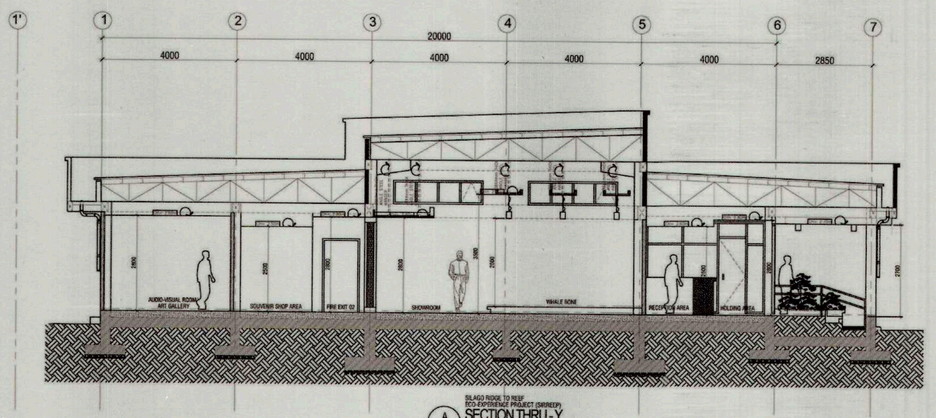
SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP)
A 06 FRONT ELEVATION
SCALE 1:100 MTS



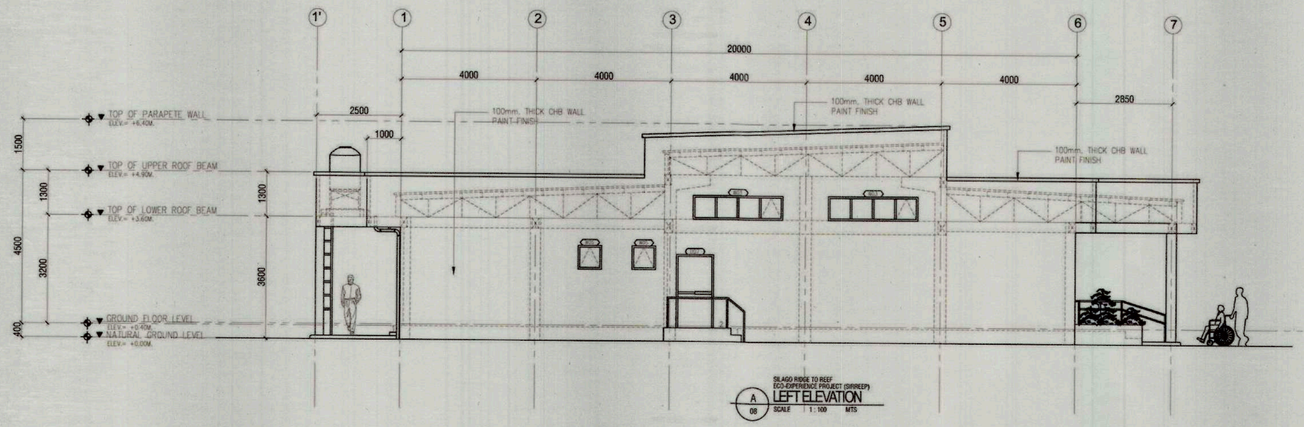
SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP)
A 09 REAR ELEVATION
SCALE 1:100 MTS



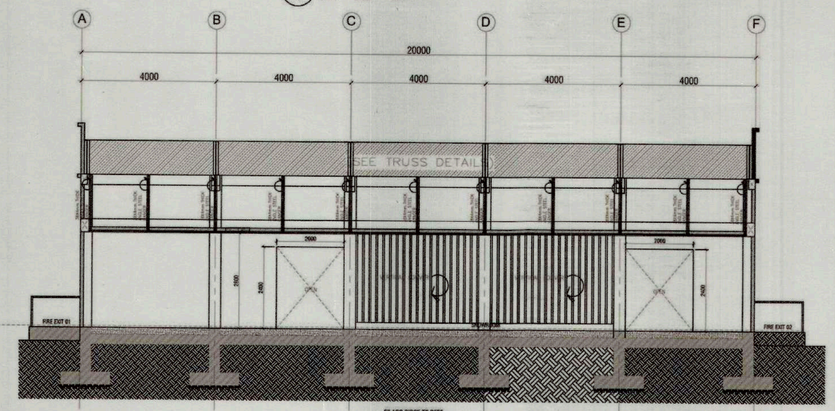
SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP)
A 07 RIGHT ELEVATION
SCALE 1:100 MTS



SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP)
A 10 SECTION THRU - Y
SCALE 1:100 MTS



SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP)
A 08 LEFT ELEVATION
SCALE 1:100 MTS



SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP)
A 11 SECTION THRU - X
SCALE 1:100 MTS

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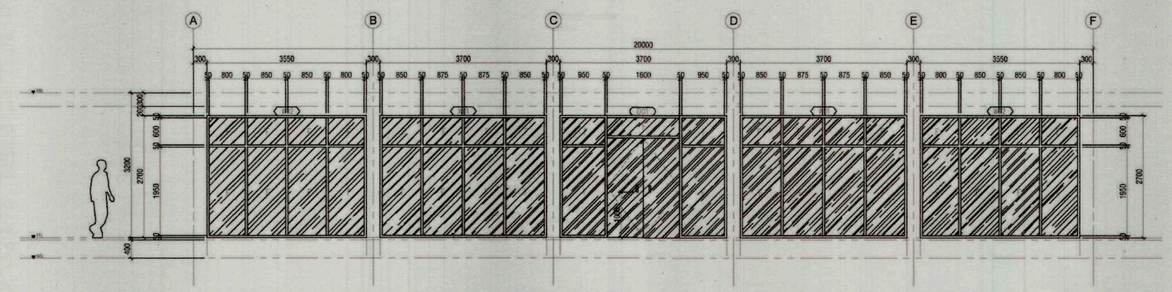
SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

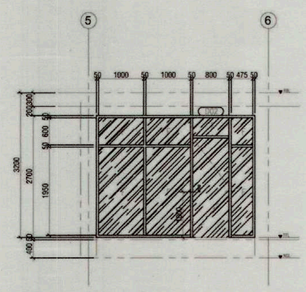
A/12 SCHEDULE OF DOORS & WINDOWS

SCALE 1 : 75 MTS

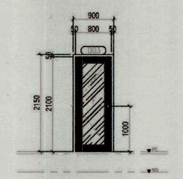
MARK	001
LOCATION	MAIN ENTRANCE
QUANTITY	1 SET
SPECIFICATIONS	-DOUBLE SWING GLASS DOOR & FIXED GLASS WINDOWS -CLEAR GLASS ON POWDER COATED ALUMINUM FRAMES -W/ STAINLESS STEEL LOCKSET -LOWER TRACK & THRESHOLD FLUSH ,MOUNTED TO F.F.L.



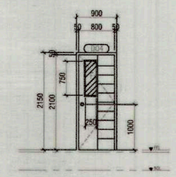
MARK	002
LOCATION	HOLDING AREA
QUANTITY	1 SET
SPECIFICATIONS	-DOUBLE SWING GLASS DOOR W/ FIXED GLASS WINDOWS -CLEAR GLASS ON POWDER COATED ALUMINUM FRAMES -W/ STAINLESS STEEL LOCKSET -LOWER TRACK & THRESHOLD FLUSH ,MOUNTED TO F.F.L.



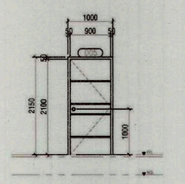
MARK	003
LOCATION	EXIT
QUANTITY	1 SET
SPECIFICATIONS	- SWING WOOD PANEL DOOR -WOOD JAMB W/ 6mm. RABBET -W/ CLEAR FIXED GLASS -STAINLESS DOOR LOCKSET



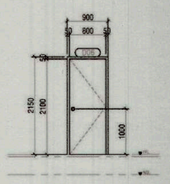
MARK	004
LOCATION	ADMIN OFFICE
QUANTITY	2 SETS
SPECIFICATIONS	- SWING WOOD PANEL DOOR - WOOD JAMB W/ 6mm. RABBET -W/ VISION PANEL -W/ STAINLESS DOOR LOCKSET



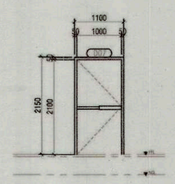
MARK	005
LOCATION	AUDIO VISUAL ROOM
QUANTITY	1 SET
SPECIFICATIONS	- SWING WOOD PANEL DOOR -WOOD JAMB W/ 6mm. RABBET -W/ STAINLESS DOOR LOCKSET



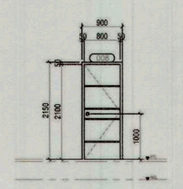
MARK	006
LOCATION	STORAGE ROOM
QUANTITY	1 SET
SPECIFICATIONS	- SWING WOOD PANEL DOOR -WOOD JAMB W/ 6mm. RABBET -W/ STAINLESS DOOR LOCKSET



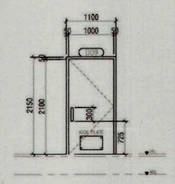
MARK	007
LOCATION	FIRE EXITS
QUANTITY	3 SETS
SPECIFICATIONS	- PRE-PAINTED STEEL DOOR -W/ PANIC DEVICE & DOOR CLOSER -STEEL DOOR JAMB -& OTHER ACCESSORIES



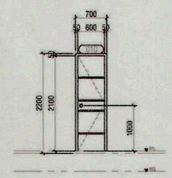
MARK	008
LOCATION	MALE & FEMALE TOILET
QUANTITY	2 SETS
SPECIFICATIONS	- SWING WOOD PANEL DOOR -WOOD JAMB W/ 6mm. RABBET -W/ STAINLESS DOOR LOCKSET



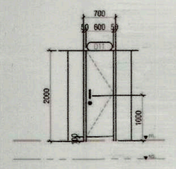
MARK	009
LOCATION	MALE & FEMALE PWD TOILETS
QUANTITY	2 SETS
SPECIFICATIONS	- SWING WOOD PANEL DOOR -WOOD JAMB W/ 6mm. RABBET -WITH KICK PLATE -W/ STAINLESS DOOR LOCKSET



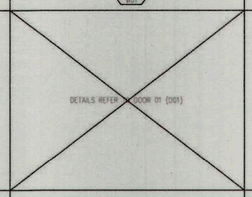
MARK	010
LOCATION	JANITOR ROOM
QUANTITY	1 SET
SPECIFICATIONS	- SWING WOOD PANEL DOOR -WOOD JAMB W/ 6mm. RABBET -W/ STAINLESS DOOR LOCKSET



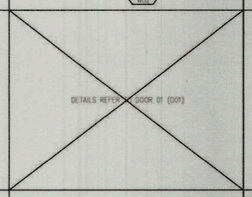
MARK	011
LOCATION	MALE & FEMALE CUBICLE
QUANTITY	6 SETS
SPECIFICATIONS	- 12mm. SANDWICHED PHENOLIC BOARD LAMINATED -STAINLESS CUBICLE DOOR LOCK W/ PRIVACY INDICATOR -TOWEL HOOK MOUNTED INSIDE



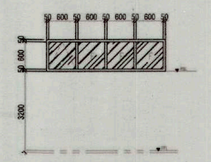
MARK	012
LOCATION	
QUANTITY	
SPECIFICATIONS	



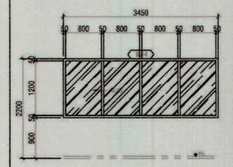
MARK	013
LOCATION	
QUANTITY	
SPECIFICATIONS	



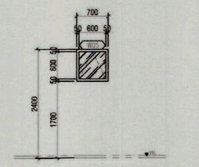
MARK	014
LOCATION	SHOW ROOM
QUANTITY	4 SETS
SPECIFICATIONS	-AWNING GLASS WINDOW & FIXED GLASS WINDOW -CLEAR GLASS W/ ALUMINUM FRAMES



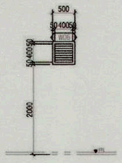
MARK	015
LOCATION	AUDIO VISUAL & GALLERY ROOM
QUANTITY	2 SETS
SPECIFICATIONS	-SLIDING GLASS WINDOW & FIXED GLASS WINDOW -CLEAR GLASS W/ ALUMINUM FRAMES



MARK	016
LOCATION	MALE, FEMALE, MALE PWD, STORAGE & JANITORS ROOM
QUANTITY	7 SETS
SPECIFICATIONS	-AWNING GLASS WINDOW -CLEAR GLASS W/ ALUMINUM FRAMES



MARK	017
LOCATION	FEMALE PWD
QUANTITY	1 SET
SPECIFICATIONS	-LOUVER WINDOW -GOOD LUMBER PAINT FINISH



NOTE : FINAL DOORS, WINDOWS, DETAILS & SPECIFICATIONS IS BY INTERIOR DESIGNER

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ARCHITECT/DRAFTSMAN	MUNICIPAL ENGINEER	MUNICIPAL MAYOR	LOCATION: SILAGO, SOUTHERN LEYTE

TIEZA
TOURISM INFRASTRUCTURE AND ENTERPRISE ZONE AUTHORITY
6th & 7th FLOORS TOWER-1, DOUBLE DRAGON PLAZA, DOUBLE DRAGON MERIDIAN PARK MACAPAGAL AVENUE CORNER EDSA EXTENSION BAY AREA, PASAY CITY 1308

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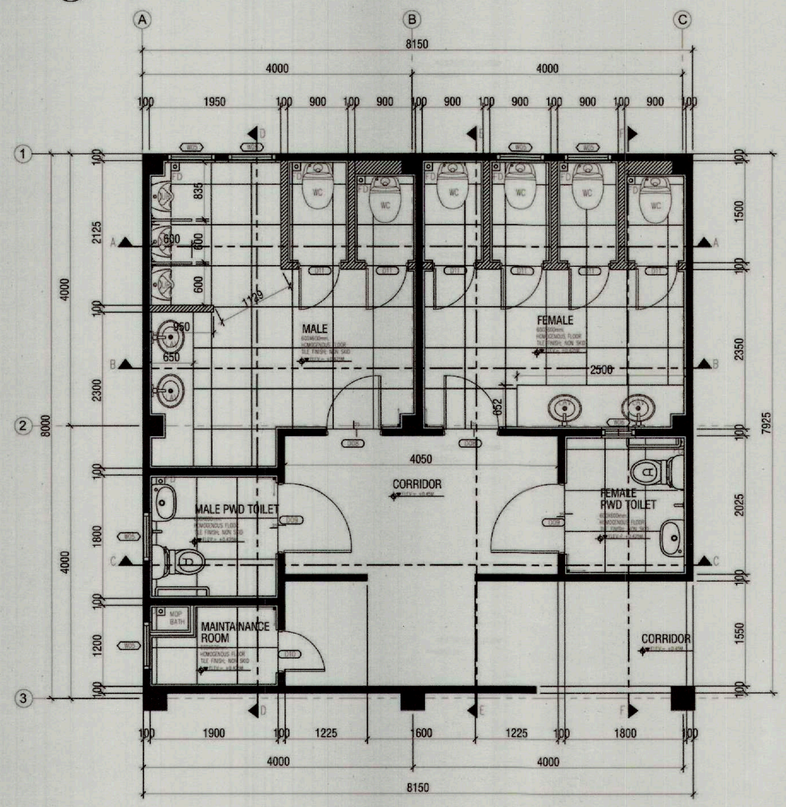
SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

A 13 TOILET FLOOR PLAN

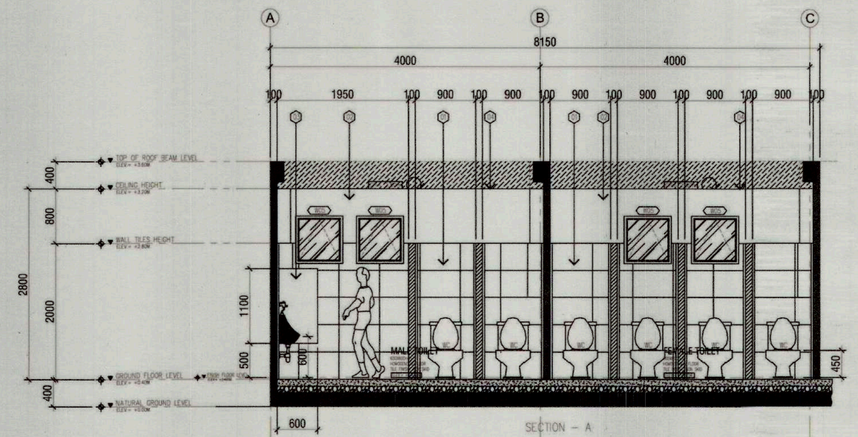
SCALE 1 : 50 MTS.



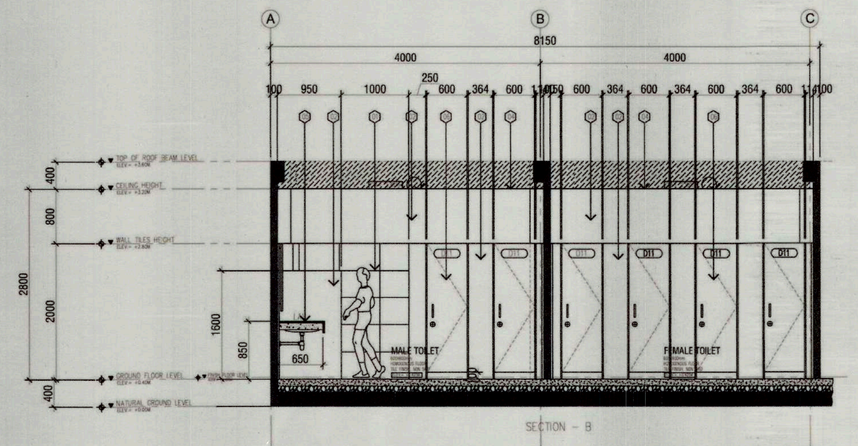
WALL FINISH LEGENDS :

- (A) 600X400mm. HOMOGENOUS FLOOR TILE FINISH, NON SKID
- (B) 100mm. THICK CHB WALL PAINT FINISH
- (C) 12mm. PHENOLIC BOARD LAMINATED FINISH MOUNTED IN WALL
- (D) 6mm. THICK PLYWOOD PAINT FINISH
- (E) SYNTHETIC GRANITE SOLID SURFACE COUNTER
- (F) D-11 DETAILS REFER TO SCHEDULE OF DOORS & WINDOWS
- (G) TOILET PAPER DISPENSER
- (H) 38mm.ø STAINLESS GRAB BAR
- (I) MOP BATH
- (J) REFLECTED MIRROR
- (K) 12mm. THICK GYPSUM BOARD PAINT FINISH

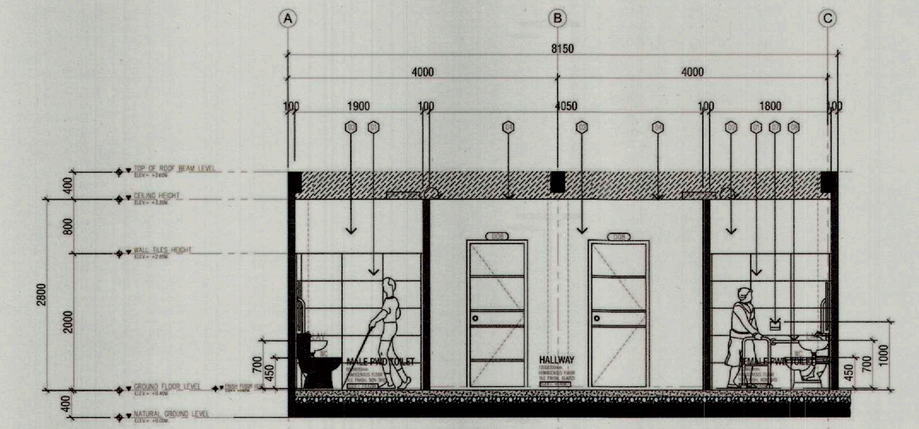
NOTE : FINAL WALL FINISH DETAILS & SPECIFICATIONS BY INTERIOR DESIGNER



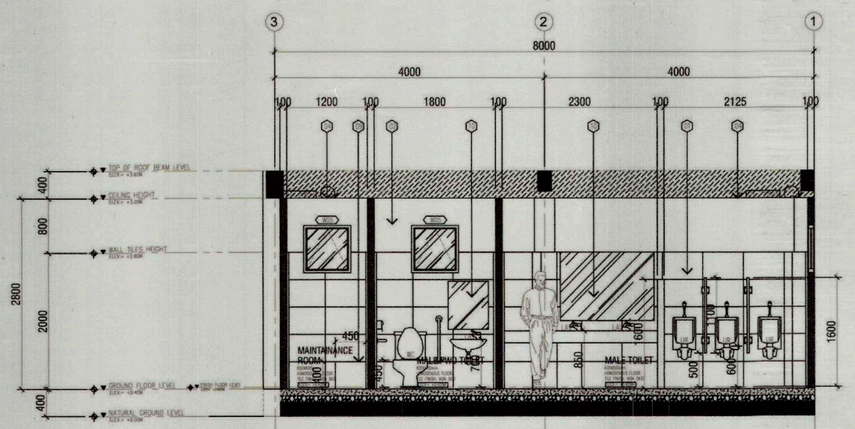
SECTION – A



SECTION – B



SECTION – C



SECTION – D

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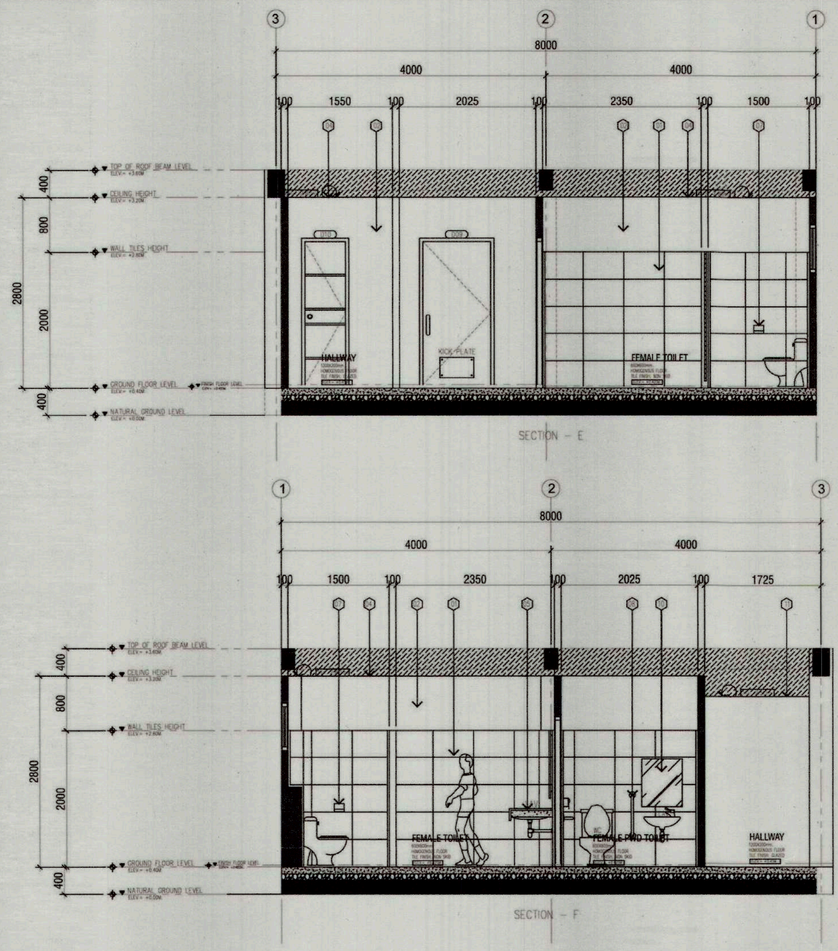
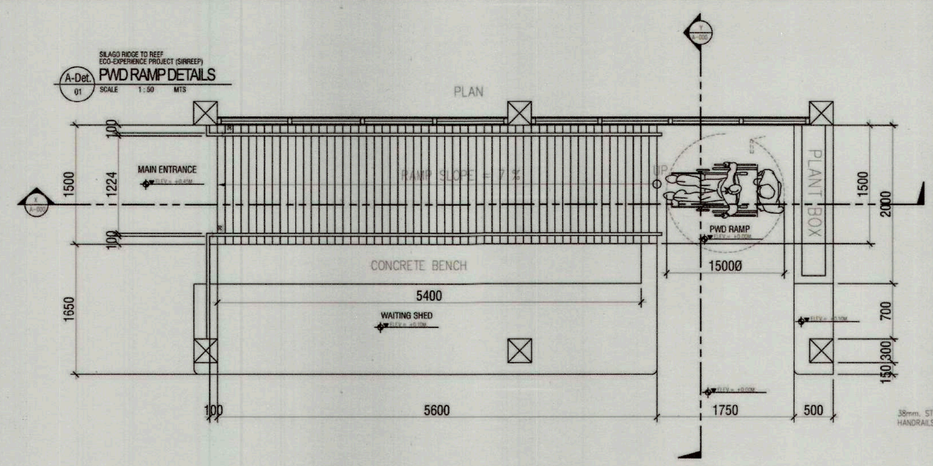
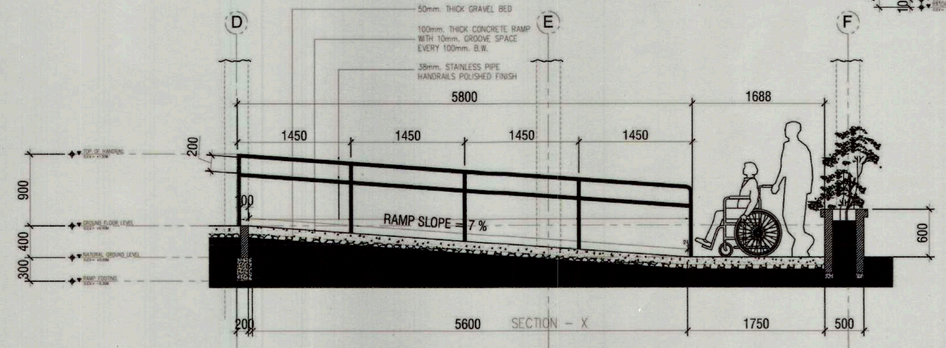
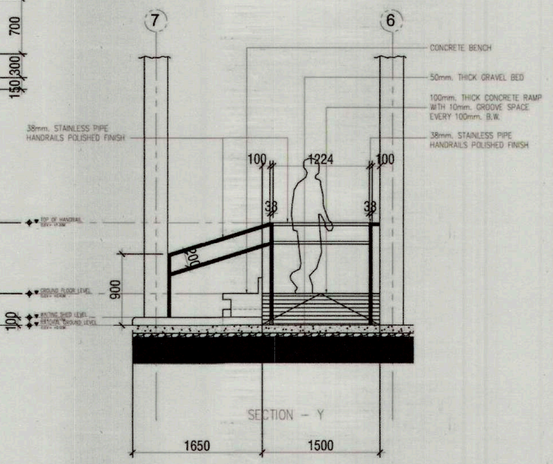
SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

A-Det. 01 **PWD RAMP DETAILS**
SCALE 1:50 MTS



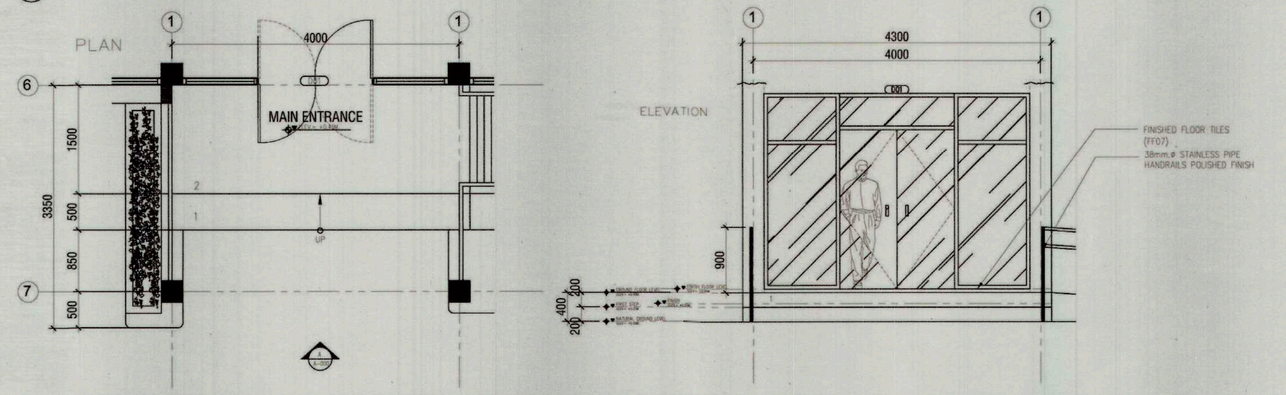






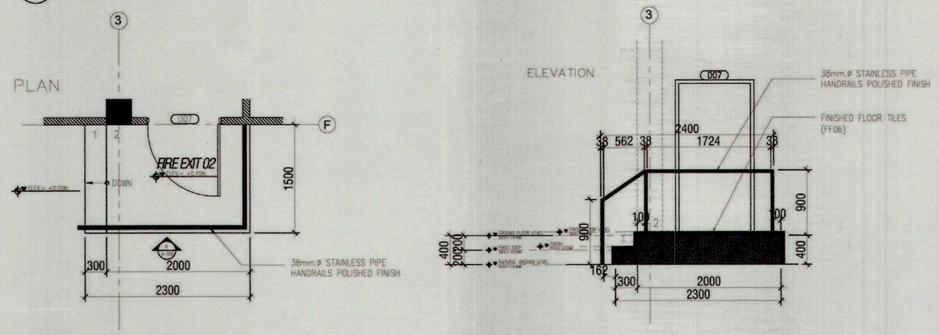
SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

A-Det. 02 **PORCH ENTRANCE ACCEESS STAIR**
SCALE 1:45 MTS



ECO-EXPERIENCE PROJECT (SIRREEP)
SILAGO RIDGE TO REEF

A-Det. 03 **TYPICAL FIRE EXIT ACCESS STAIR DETAILS**
SCALE 1:40 MTS



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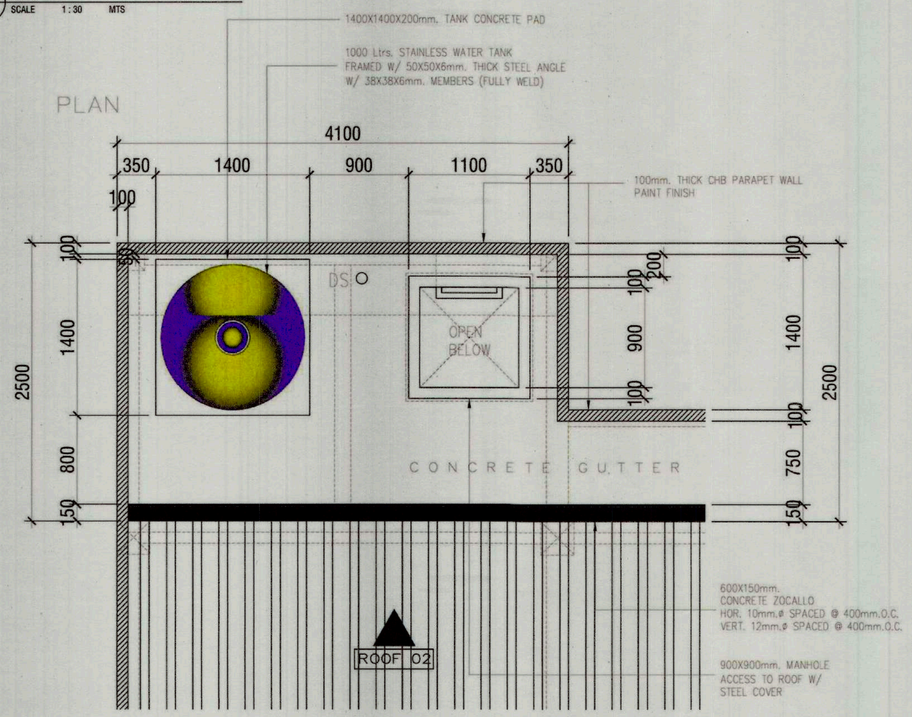
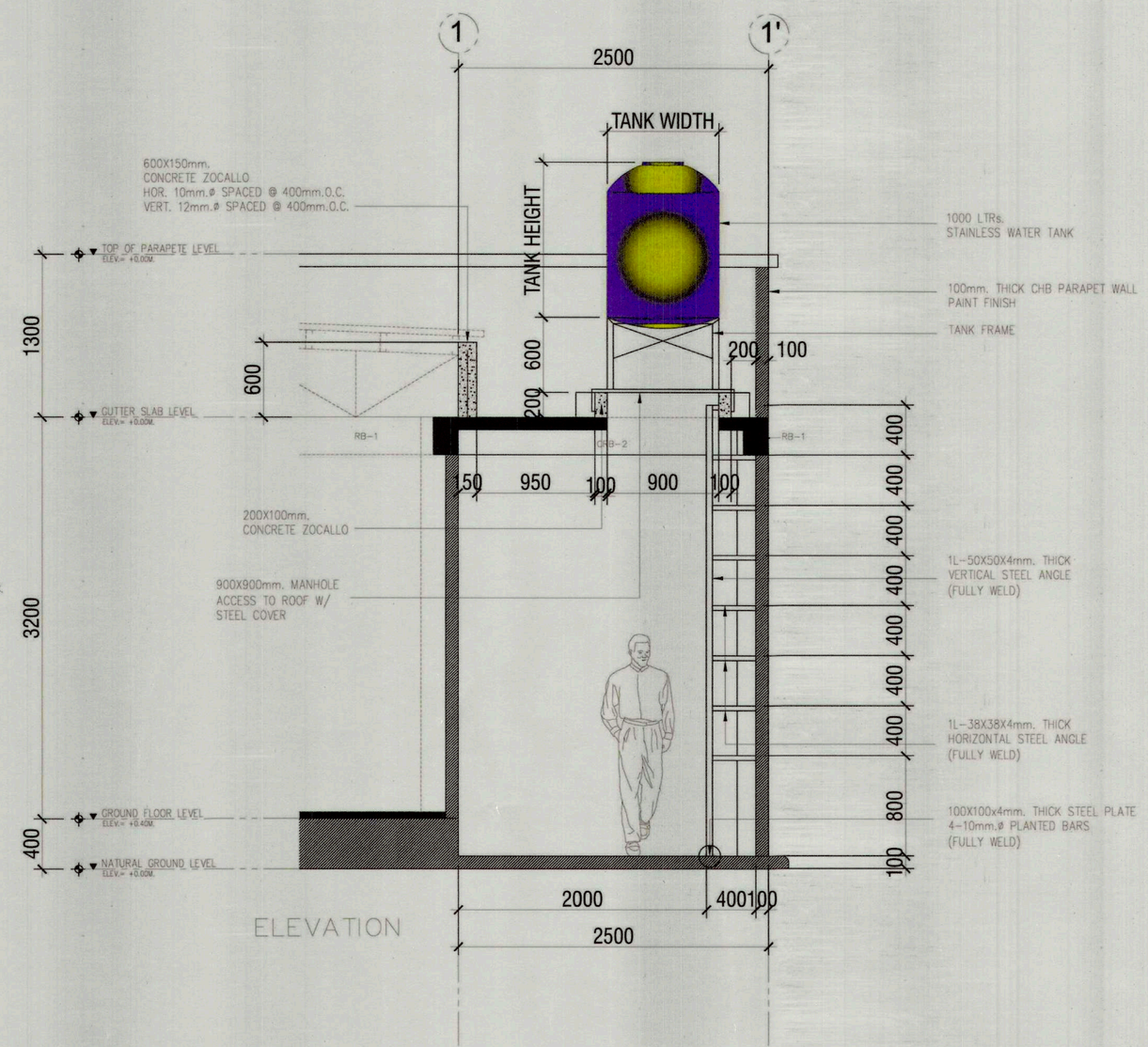
SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

TANK SLAB & ACCESS TO ROOF DETAILS

A-Det. 04 — SCALE 1:30 MTS

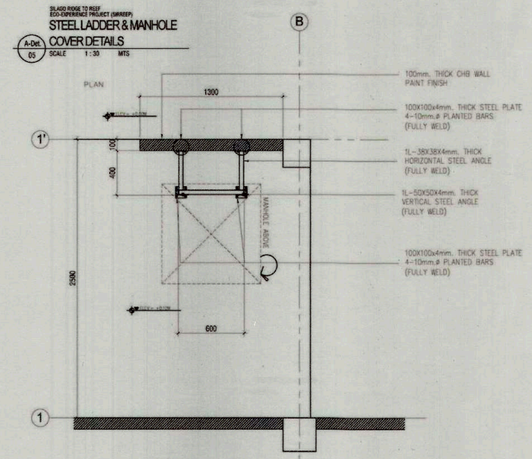




SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

STEEL LADDER & MANHOLE COVER DETAILS

A-Det. 05 — SCALE 1:30 MTS



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RF-25-01

GENERAL CONSTRUCTION NOTES

GENERAL NOTES

1.0 STANDARDS AND REFERENCES

THE FOLLOWING SHALL GOVERN THE DESIGN, FABRICATION AND CONSTRUCTION OF THE PROJECT.

1.1 NATIONAL STRUCTURAL CODE OF THE PHILIPPINES (N.S.C.P.). VOL. 1, 6TH EDITION, 2010.

2.0 DESIGN CRITERIA

2.1 LOADINGS

A. DEAD LOAD

CONCRETE	23.56kN/m
STEEL	76.93kN/m
150mm THK. CHB WALL	2.73 kPa
100mm THK. CHB WALL	2.11 kPa

B. LIVE LOAD

ROOF	1.00 kPa
CLASSROOMS	1.90 kPa
TOILETS	2.40 kPa
CORRIDORS ABOVE, STAIRS	3.80 kPa
CORRIDORS ON GROUND	4.80 kPa

C. WIND LOAD (NSCP 2010)

BASIC WIND VELOCITY, V = 250 KPH

P = qh [(GCpf)–(GCpi)] (DESIGN WIND PRESSURE)

WHERE: qh = VELOCITY PRESSURE, kPa)
GCpf = EXTERNAL PRESSURE COEFFICIENT
GCpi = INTERNAL PRESSURE COEFFICIENT

D. SEISMIC LOAD (NSCP 2010)

$$V = \frac{CvI}{RT} W \quad \text{(DESIGN BASE SHEAR)}$$

$$Vmax = \frac{2.50\ CaI}{R} W \qquad Vmin = 0.11\ CaIW$$

$$Vmin = \frac{0.80\ ZNvI}{R} W \text{ (ZONE 4)}$$

WHERE: W = TOTAL DEAD LOAD
T = NATURAL PERIOD = $C_t (h_n)^{2/3}$;
WHERE: C = NUMERICAL COEFFICIENT
h = BUILDING HEIGHT
I = IMPORTANCE FACTOR = 1.50
R = NUMERICAL FACTOR = 8.50
SEISMIC COEFFICIENT Cv = 0.44Nv
Ca = 0.64N
NEAR SOURCE FACTOR (10km) Nv = 1.2
Na = 1.0
Z = SEISMIC ZONE = 0.40 (ZONE 4)
S = SOIL TYPE = D

2.2 DESIGN STRESSES

A. CONCRETE FOR FOOTING, COLUMNS, BEAMS AND SLAB ON FILL COMPRESSIVE STRENGTH @ 28 DAYS	fc' = 20.7 MPa (3,000 psi)
B. REINFORCING STEEL BARS a. FOR BARS 16mmø AND GREATER INTERMEDIATE GRADE DEFORMED BAR	fy = 275 MPa (40,000 psi)
b. FOR BARS LESS THAN 16mmø (STRUCTURAL GRADE DEFORMED BAR)	fy = 230 MPa (33,000 psi)
C. STRUCTURAL STEEL, ASTM–A36 FOR TRUSSES, BRACINGS, & STRUTS	fy = 248 MPa (36,000 psi)
D. PURLINS COLD FORMED LIGHT GAGE SHAPES	fy = 248 MPa (36,000 psi)
E. MASONRY UNIT (CHB) NON–LOAD BEARING CHB WALLS	fm' = 3.45 MPa (500 psi)
F. WELDS–USED E–60xx ELECTRODE	
G. STRUCTURAL BOLTS, ASTM–A307 a. Ft = 96.60 MPa (14,000 psi) b. Fv = 69 MPa (10,000 psi)	

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

NOTES ON CONCRETE MIXES & PLACING

1. ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS W/ CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMPS AS FOLLOWS.

LOCATION	28 DAYS STRENGTH	MAX. SIZE OF AGGREGATE	MAX. SLUMP
ALL OTHERS, INCLUDING SUSPENDED SLABS,	3000 PSI (20.7 MPa)	20mm	100mm
COLUMNS	3000 PSI (20.7 MPa)	20mm	100mm
BEAMS, SLABS	3000 PSI (20.7 MPa)	20mm	100mm
SLAB ON FILL	2500 PSI (17.5 MPa)	20mm	100mm

2. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS.

SUSPENDED SLABS	20mm
SLAB ON GRADE	40mm
WALLS ABOVE GRADE	25mm
BEAM STIRRUPS AND COLUMN TIES	40mm
WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS	50mm
WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH	75mm

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

FOUNDATION	24 HRS.
SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	8 DAYS
WALLS	21 DAYS
BEAMS	14 DAYS
COLUMNS	21 DAYS

8. THE CONTRACTOR SHALL SUBMIT THE SCHEDULE OF POURING AND THE LOCATION OF THE CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER AT LEAST (4) DAYS PRIOR TO THE POURING FOR APPROVAL.
9. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE FORMS AND SHORINGS UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH.

NOTES ON FOOTINGS

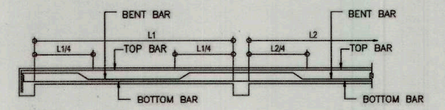
1. FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 96 KPa (2000 psf). CONTRACTOR SHALL REPORT TO THE ENGINEER, IN WRITING, THE ACTUAL SOIL CONDITIONS UNCOVERED AND CONFIRM ACTUAL BEARING CAPACITY OF SOIL BEFORE DEPOSITING CONCRETE.
2. FOOTING SHALL REST AT LEAST 1500mm BELOW NATURAL GRADE LINE UNLESS OTHERWISE INDICATED IN PLANS. NO FOOTING SHALL REST ON FILL.
3. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENTS SHALL BE 75mm CLEAR FOR CONCRETE DEPOSITED THE GROUND AND 50mm FOR CONCRETE DEPOSITED AGAINST A FORMWORK.
4. IN CASES WHERE THE SOIL CONDITION IS SUCH THAT THE MINIMUM ALLOWABLE SOIL PRESSURE OF 96 KPa (2,000 psf) CAN NOT BE ATTAINED AT PRACTICAL DEPTHS, THE USE OF MICROPILES, BORED PILES. OR DRIVEN PILES MAY BE ADOPTED IN LIEU OF STANDARD ISOLATED FOOTINGS.

NOTES ON REINFORCEMENT

1. UNLESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:
   A. FOOTINGS, FOOTING BEAMS AND GIRDERS ------- fy = 275 MPa (40,000 psi)
   B. COLUMNS AND SHEAR WALLS ---------- fy = 275 MPa (40,000 psi)
   C. BEAMS AND GIRDER ---------- fy = 275 MPa (40,000 psi)
   D. NON–LOAD BEARING WALL PARTITIONS, BEDDED SLABS, FLOOR & ROOF SLABS, PARAPETS, CATCH BASIN, SIDE WALK. ---------- fy = 227.5 MPa (33,000 psi)
2. ALL REINFORCING BARS SIZE 10mm OR LARGER SHALL BE DEFORMED IN ACCORDANCE WITH ASTM A 706. BARS SMALLER THAN 10mm MAY BE PLAIN.
3. SPLICES SHALL BE SECURELY WIRED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE W/ TABLE A & TABLE B (TABLE OF LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS, SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.

NOTES ON CONCRETE SLABS

1. ALL SLAB REINFORCEMENTS SHALL BE 20mm CLEAR MINIMUM FROM BOTTOM AND FROM THE TOP OF SLAB.
2. UNLESS OTHERWISE SHOWN, REINFORCEMENT IN CONTINUOUS ELEVATED SLAB SHALL BE CUT AS FOLLOWS:



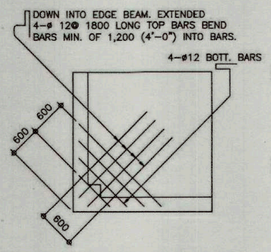
TYPICAL BAR BENDING AND CUTTING DETAILS FOR SLABS

3. IF SLABS ARE REINFORCED BOTHWAYS BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONG SPAN AT THE CENTER AND OVER THE LONGER SPAN FOR REINFORCING BARS NEAR THE SUPPORTS. THE SPACING OF THE BARS AT THE COLUMN STRIPS SHALL NOT BE MORE THAN ONE AND A HALF (1 1/2) SLAB THICKNESS
4. TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN 0.0025 x GROSS CROSS–SECTIONAL AREA (Ag) OF THE SLAB (SEE SCHEDULE BELOW)

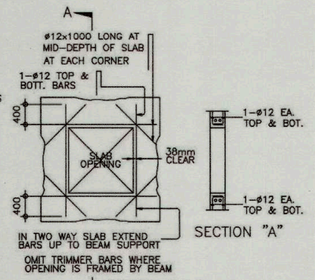
SCHEDULE OF MINIMUM SLAB REINFORCEMENT

THICKNESS	MINIMUM TEMPERATURE BARS
100 mm	10 mm ø @ 250mm EACH WAY
125 mm	10 mm ø @ 225mm EACH WAY
150 mm	10 mm ø @ 185mm EACH WAY
175 mm	10 mm ø @ 150mm EACH WAY
200 mm	10 mm ø @ 140mm EACH WAY

5. UNLESS OTHERWISE NOTED IN THE PLANS ALL BEDDED SLABS SHALL BE REINFORCED WITH 10mm ø AT 250mm O.C EACH WAY TO CENTER OF SLAB AND CONSTRUCTION JOINTS FOR SAME SHALL NOT BE LESS THAN 3.65 METER APART
6. PROVIDE EXTRA REINFORCEMENTS FOR CORNER SLAB (TWO ADJACENT DISCONTINUOUS EDGES) AS SHOWN BELOW.
7. CONCRETE SLAB REINFORCEMENTS SHALL BE PROPERLY SUPPORTED WITH 10mmø STEEL CHAIR OR APPROVED EQUIVALENT SPACED AT 1.0 METER ON CENTER BOTHWAYS



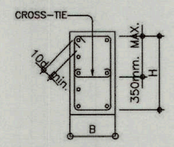
TYPICAL CORNER SLAB DETAIL

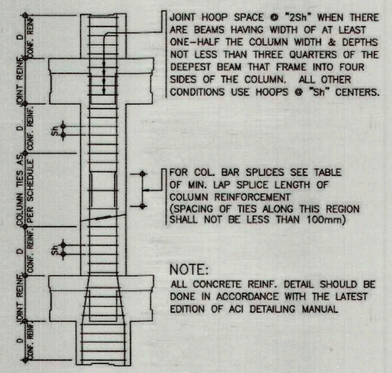


TYPICAL SLAB OPENING DET.

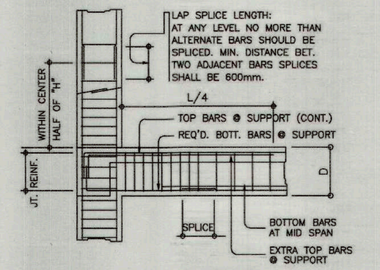
NOTES ON COLUMNS

1. PROVIDE EXTRA SETS OF TIES AT 100mm O.C. FOR TIED COLUMN REINFORCEMENT ABOVE AND BELOW BEAM–COLUMN CONNECTIONS FOR A DISTANCE FROM FACE OF CONNECTION EQUAL TO THE GREATER OF THE OVERALL THICKNESS OF COLUMN, 1/6 THE CLEAR HEIGHT OF COLUMN OR 450mm.
2. COLUMN TIES SHALL BE PROTECTED EVERYWHERE BY A COVERING OF CONCRETE CAST MONOLITHICALLY WITH THE CORE WITH THE MINIMUM THICKNESS OF 40mm AND NOT LESS THAN 40 TIMES THE MAXIMUM SIZE OF COARSE AGGREGATE IN MILLIMETERS.
3. WHERE COLUMNS CHANGE IN SIZE, VERTICAL REINFORCEMENTS SHALL SHALL BE OFFSET AT A SLOPE OF NOT MORE THAN 1 IN 6 AND EXTRA 10mm TIES AT 100mm SHALL BE PROVIDED THRU OUT THE OFFSET REGION.
4. UNLESS OTHERWISE INDICATED IN THE PLANS, LAP SPLICES FOR VERTICAL COLUMN REINFORCEMENT SHALL BE MADE WITHIN THE CENTER HALF OF COLUMN HEIGHT, AND THE SPLICE LENGTH SHALL NOT BE LESS THAN 40 BAR DIAMETERS. WELDING OR APPROVED MECHANICAL DEVICES MAY BE USED PROVIDED THAT NOT MORE THAN ALTERNATE BARS ARE WELDED OR MECHANICALLY SPLICED AT ANY LEVEL AND THE VERTICAL DISTANCES BETWEEN THESE WELDS OR SPLICES OF ADJACENT BARS IS NOT LESS THAN 600mm.





TYPICAL COLUMN ELEV. SHOWING DOWELS AND TIES SPACING



TYP. DETAIL OF COL. LAP SPLICE & EXT. GIRDER TO COL. CONNECT.

NOTES ON BEAMS AND GIRDERS

1. UNLESS , OTHERWISE NOTED IN PLANS, CAMBER ALL BEAMS AND GIRDER AT LEAST 6mmø FOR EVERY 4.50M OF SPAN , EXCEPT CANTILEVERS FOR WHICH THE CAMBER SHALL BE AS NOTED IN PLANS OR AS ORDERED BY THE ENGINEER BUT IN NO CASE LESS THAN 20mm FOR EVERY 3.0M OF FREE SPAN.
2. TYPICAL BARS BENDING AND CUTTING DETAILS FOR BEAMS SHALL BE AS SHOWN IN FIG. B–1.

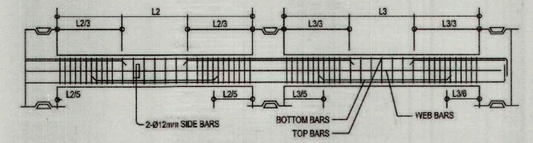


FIG. B–1

PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE/LOCATION
BERNIE B. DEMIAO	BIENVENIDO C. BARRERA Jr.	LEMUEL P. HONOR	SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP):PROMOTING SUSTAINABILITY THROUGH ECO-HERITAGE TOURISM
ARCHITECT/DRAFTSMAN	MUNICIPAL ENGINEER	MUNICIPAL MAYOR	LOCATION: SILAGO, SOUTHERN LEYTE

TIEZA
TOURISM INFRASTRUCTURE AND ENTERPRISE ZONE AUTHORITY
6th & 7th FLOORS TOWER-1, DOUBLE DRAGON PLAZA, DOUBLE DRAGON MERIDIAN PARK MACAPAGAL AVENUE CORNER EDSA EXTENSION BAY AREA, PASAY CITY 1308

PROJECT EVALUATION AND PLANNING DEPARTMENT		RECOMMENDING APPROVAL :	APPROVED:	SHEET NO.
CHECKED BY: RADY E. ADAME	REVIEWED BY: JEOFFREY L. MACALALAD	GREGORY A. OLLER	MARK T. LAPID	S 01 / 12 28
MANAGER PROJECT PLANNING & DESIGN DIVISION	MANAGER PROJECT EVALUATION & PLANNING DEPARTMENT	ASSISTANT CHIEF OPERATING OFFICER ARCHITECTURAL & ENGINEERING SERVICES SECTOR	CHIEF OPERATING OFFICER	

PEPD.QF.02a

RS-25-01

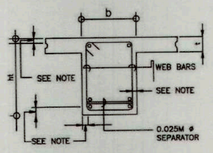
TABLE 'A' TENSION BARS EMBEDMENT LENGTHS AND LAPPED SPLICED IN MILLIMETERS				
BAR SIZE (DEFORMED)	fc'= 20.7MPa(3000psi)		fc'= 27.6MPa(4000psi)	
	EMBEDMENT	LAPPED	EMBEDMENT	LAPPED
10mm ø	300	300	300	300
12mm ø	300	300	300	300
16mm ø	300	400	300	400
20mm ø	400	550	350	500
25mm ø	600	800	550	750
28mm ø	750	1000	650	850
32mm ø	950	1300	850	1100

NOTE : TOP PLAIN BARS , MULTIPLY VALUE BY 2

TABLE 'B' COMPRESSION BARS EMBEDMENT LENGTHS AND LAPPED SPLICED IN MILLIMETERS				
BAR SIZE (DEFORMED)	fc'= 20.7MPa(3000psi)		fc'= 27.6MPa(4000psi)	
	EMBEDMENT	LAPPED	EMBEDMENT	LAPPED
10mm ø	225	300	200	300
12mm ø	275	300	250	300
16mm ø	350	400	325	400
20mm ø	450	500	475	500
25mm ø	550	625	550	625
28mm ø	625	675	625	675
32mm ø	700	775	700	775

NOTE : TOP PLAIN BARS , MULTIPLY VALUE BY 2
VALUES GIVEN ABOVE CAN ALSO BE USED FOR COLUMNS.

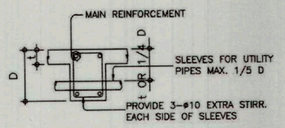
3. IF THE BEAM REINFORCING BARS END IN A WALL THE CLEAR DISTANCE FROM THE BAR TO THE FARTHER FACE OF THE WALL NOT BE LESS THAN 25mm. EMBEDMENT LENGTH SHALL BE AS SHOWN IN A TABLE 'A' FOR TENSION BARS AND TABLE 'B' FOR COMPRESSION BARS UNLESS SPECIFIED IN PLAN. TOP BAR SHALL NOT BE SPLICED WITHIN THE COLUMN OR WITHIN A DISTANCE TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. AT LEAST TWO STIRRUPS SHALL BE PROVIDED AT ALL SPLICES.
4. IF THERE ARE TWO OR MORE LAYERS OF REINFORCING BARS, USE 25mmø BAR SEPARATORS SPACED AT 1.0M ON CENTER. IN NO CASE SHALL THERE BE LESS THAN TWO (2) SEPARATORS BETWEEN TWO LAYERS OF BARS.
5. MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS OR STEEL SHAPES SHALL BE AS SHOWN IN FIG. B-2 UNLESS SPECIFIED ELSEWHERE.



NOTE 1

20 mm CLEAR FOR JOIST
40 mm CLEAR FOR BEAMS AND GIRDERS

FIG. B-2



TYP. DET. FOR SLEEVES THRU CONCRETE BEAM

FIG. B-3

6. WHEN A BEAM CROSSES A GIRDER, REST BEAM ON TOP OF GIRDER BARS, BEAM REINF-FORCING BAR SHALL BE SYMMETRICAL ABOUT CENTER LINE WHENEVER POSSIBLE.
7. GENERALLY NO SPLICES SHALL BE PERMITTED AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR, SPLICES WHERE SO PERMITTED SHALL BE INDICATED IN THE TABLE 'A' AND 'B'. WELDED SPLICES SHALL DEVELOP IN TENSION AT LEAST 125 % OF THE SPECIFIED YIELD STRENGTH OF THE BAR. NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION IS ALLOWED TO BE SPLICED THEREIN.

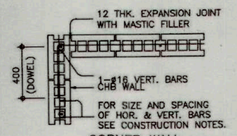
NOTES ON CONCRETE HOLLOW BLOCK WALLS

1. UNLESS OTHERWISE SHOWN IN PLANS ALL CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCKS SHALL BE REINFORCED AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCK REINFORCEMENT.
2. PROVIDE 150mm x 300mm STIFFENER COLUMN REINFORCED WITH 4-12mm WITH 6mmø TIES AT 150mm ON CENTER WHERE CONCRETE HOLLOW BLOCK TERMINATES AND AT EVERY 3.0M LENGTH OF CONCRETE HOLLOW BLOCK WALLS UNLESS NOTED IN STRUCTURAL PLANS.

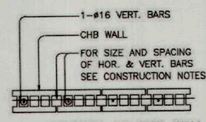
SCHEDULE OF CONCRETE HOLLOW BLOCK AND CERAMIC BLOCK REINFORCEMENT			
BLOCK THICKNESS	REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
75 mm	10mmø @ EVERY 3RD LEVEL	10mmø @ 600mm O.C.	A. MINIMUM LAPS AT SPLICE = 0.25M B. PROVIDE RIGHT ANGLED REINFORCEMENT AT CORNERS 0.92M LONG C. WHERE CHB OR CER. BLK. WALL DOWELS JOIN COL. R.C. BEAMS AND WALL DOWELS WITH THE SAME SIZE AS VERT. OR HOR. REINFORCEMENTS SHALL BE PROVIDED
125 mm	10mmø @ EVERY 3RD LEVEL	10mmø @ 600mm O.C.	
150 mm	10mmø @ EVERY 3RD LEVEL	10mmø @ 600mm O.C.	
200 mm	12mmø @ EVERY 3RD LEVEL	10mmø @ 600mm O.C.	

REINFORCING CONCRETE LINTEL BEAM IN CONCRETE BLOCK WALLS

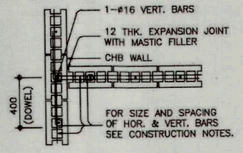
LINTELS IN BLOCK WALLS						
CLEAR SPAN ("L")	TOTAL LENGTH (L+0.40M)	MIN. fc' (MPa)	HEIGHT OF LINTEL (MM)	REINFORCEMENT		
				BOTTOM	TOP	STIRRUPS
1.20M 1.50M 1.80M	1.60M 1.90M 2.20M	14.0	200 200 200	1-ø10 1-ø10 1-ø12	1-ø10 1-ø10 1-ø10	ø6mm @ 200mm ø6mm @ 200mm ø6mm @ 200mm
2.10M 2.40M 2.70M	2.50M 2.90M 3.10M	17.0	250 250 250	1-ø12 1-ø12 1-ø16	1-ø10 1-ø10 1-ø12	ø6mm @ 200mm ø6mm @ 200mm ø10mm @ 200mm
3.00 3.30 3.60	3.40M 3.70M 4.00	20.0	300 300 300	1-ø16 1-ø16 1-ø20	1-ø12 1-ø12 1-ø12	ø10mm @ 200mm ø10mm @ 200mm ø10mm @ 200mm



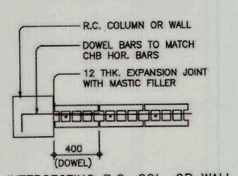
CORNER WALL



OPENING OR END WALL

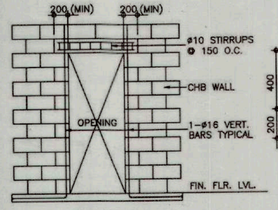


INTERSECTION WALL

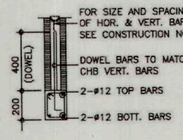


INTERSECTING R.C. COL. OR WALL

TYPICAL CONNECTION DETAIL OF MASONRY WALL

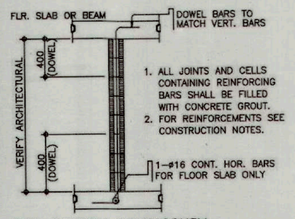


ELEVATION

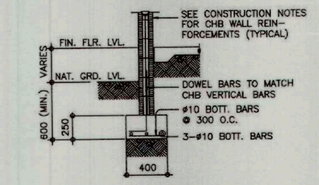


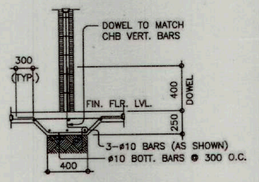
SECTION

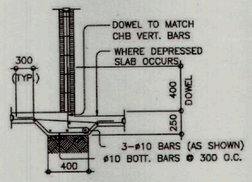
TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING



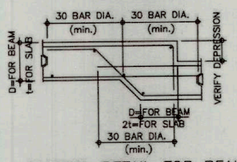
TYP. SECTION OF MASONRY PARTITION REINFORCEMENTS







TYPICAL CHB FOOTING DETAILS (WHERE APPLICABLE)



TYPICAL DETAIL FOR BEAM OR SLAB CHANGE SOFFIT

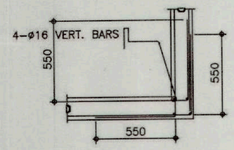
NOTES ON CONCRETE WALLS

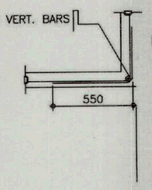
1. ALL WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF WALL REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS.

WALL THICKNESS	REINFORCEMENT			VERTICAL SECTION
	HORIZONTAL	VERTICAL	REMARKS	
100mm 125mm 150mm	ø10mm @ 250mm O.C. ø10mm @ 200mm O.C. ø12mm @ 250mm O.C.	ø10mm @ 300mm O.C. ø10mm @ 250mm O.C. ø12mm @ 300mm O.C.	HORIZONTAL BARS AT CENTERS VERTICAL BARS STAGGERED OUT	VERT. BARS HORIZ. BARS

REINFORCING BARS SHALL HAVE 25mm CLEAR CONCRETE COVER FROM FACE OF WALL EXCEPT FOR WALLS IN CONTACT WITH THE GROUND WHERE A MINIMUM OF 60mm SHALL BE PROVIDED, AND FOR EXPOSED FACES OF FORMED WALLS WHERE THE MINIMUM SHALL BE 50mm CLEAR.

2. CARRY VERTICAL BARS AT LEAST 60mm ABOVE FLOOR LEVEL TO PROVIDE FOR SPLICES WHEN NECESSARY STOP AT 50mm BELOW TOP SLAB OR SOLID BAND WHERE THE WALL ENDS VERTICAL AND HORIZONTAL BARS SHALL BE SPLICED BY LAPPING A DISTANCE EQUAL TO 30 DIAMETERS AND WIRED SECURELY WITH 16 G.I. WIRE PROVIDED THAT SPLICES IN ADJACENT BARS ARE STAGGERED AT LEAST 1.50M.O.C.
3. UNLESS OTHERWISE NOTED IN THE PLANS, ALL OPENINGS IN WALLS 250mm OR THICKER SHALL BE REINFORCED AROUND WITH 2-20mmø BARS FOR 225mm, 200mm, 175mm, 150mm, USE 2-16mmø. FOR 125mm AND 100mm WALLS, USE 2-12mmø BARS. ALL WALLS SPANNING SHALL HAVE VERTICAL REINFORCEMENT BENT TO A U-FORM LIKE STIRRUPS AND SPACED ACCORDING TO THE SCHEDULE UNLESS OTHERWISE NOTED (SEE FIG.1)





TYPICAL CONNECTION DETAIL OF R.C. WALL AT CORNERS

NOTES ON WELDS

1. USE E70xx ELECTRODES FOR ALL MEMBERS WELDED.
2. WELDS SHALL DEVELOP THE FULL STRENGTH OF MEMBERS JOINED UNLESS OTHERWISE SHOWN OR DETAILED IN THE DRAWINGS.

NOTES ON STRUCTURAL STEEL

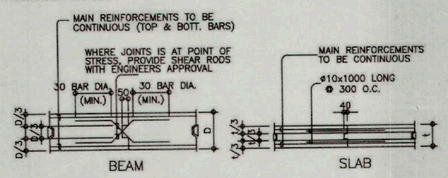
1. STRUCTURAL STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISION OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION.
2. ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
3. ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS CONNECTED.
4. UNLESS OTHERWISE SPECIFIED ALL WELDING RODS SHALL CONFORM AWS E80 ELECTRODES.
5. ALL BOLTS USED UNLESS OTHERWISE SPECIFIED SHALL BE ASTM A 307 BOLTS.

NOTES ON EMBEDED PIPES

A. ALL EMBEDED PIPES FOR UTILITIES, ETC. THAT PASS THRU BEAMS SHALL NOT EXCEED 100mm IN DIAMETER OR 1/3 BEAM DEPTH WHCHEVER IS LESS, UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
B. NO PIPES SHALL BE ALLOWED TO PASS THRU BEAMS VERTICALLY.
C. NO PIPES SHALL BE EMBEDED IN COLUMNS.

NOTES ON CONSTRUCTION JOINTS IN CONCRETE

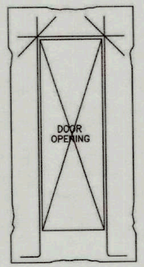
1. WHERE A CONSTRUCTION JOINT IS TO BE MADE, THE SURFACE OF CONCRETE SHALL BE CLEANED AND ALL LAITANCE AND STANDING WATER REMOVED. SHEAR KEY SHALL BE PROVIDED AT THE JOINT.



BEAM

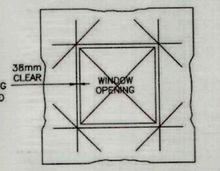
SLAB

TYPICAL SLAB & BEAM CONSTRUCTION JOINT DET.



NOTE:
PROVIDE THESE ADDITIONAL BARS FOR ALL OPENINGS PLUS BARS (NOT SHOWN) PARALLEL TO SIDE OF OPENING EQUAL TO THE NUMBER OF TERMINATED BARS AT OPENING

SEE ARCHITECTURAL & MECHANICAL PLANS FOR SLAB OPENING LOCATION.



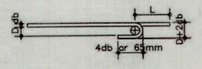
TYP. EXTERIOR WINDOW & DOOR OPENING

NOTES OF STIRRUPS

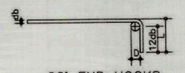
1. ALL REINFORCEMENT SHALL BE BENT COLD UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.

AS SHOWN IN THE DESIGN DRAWINGS OR PERMITTED BY THE STRUCTURAL ENGINEER.

3. TIES & CLOSE STIRRUPS MUST BE BENT AT 135°.

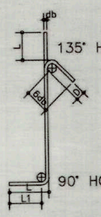


180° END HOOKS



90° END HOOKS

MAIN BAR END HOOKS (ALL GRADES)				
BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK		90° HOOK
		D+2db	L	L
10mm ø	60	75	125	150
12mm ø	75	100	150	200
16mm ø	95	125	175	250
20mm ø	115	150	200	300
25mm ø	150	200	230	450
28mm ø	240	300	350	550
32mm ø	300	335	450	600



135° HOOKS

90° HOOKS

STIRRUP AND TIE HOOKS (ALL GRADES)				
BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK		90° HOOK
		D+2db	L	L
10mm ø	40	125	85	100
12mm ø	50	165	115	115
16mm ø	65	200	140	150
20mm ø	115	250	165	300
25mm ø	150	365	230	405

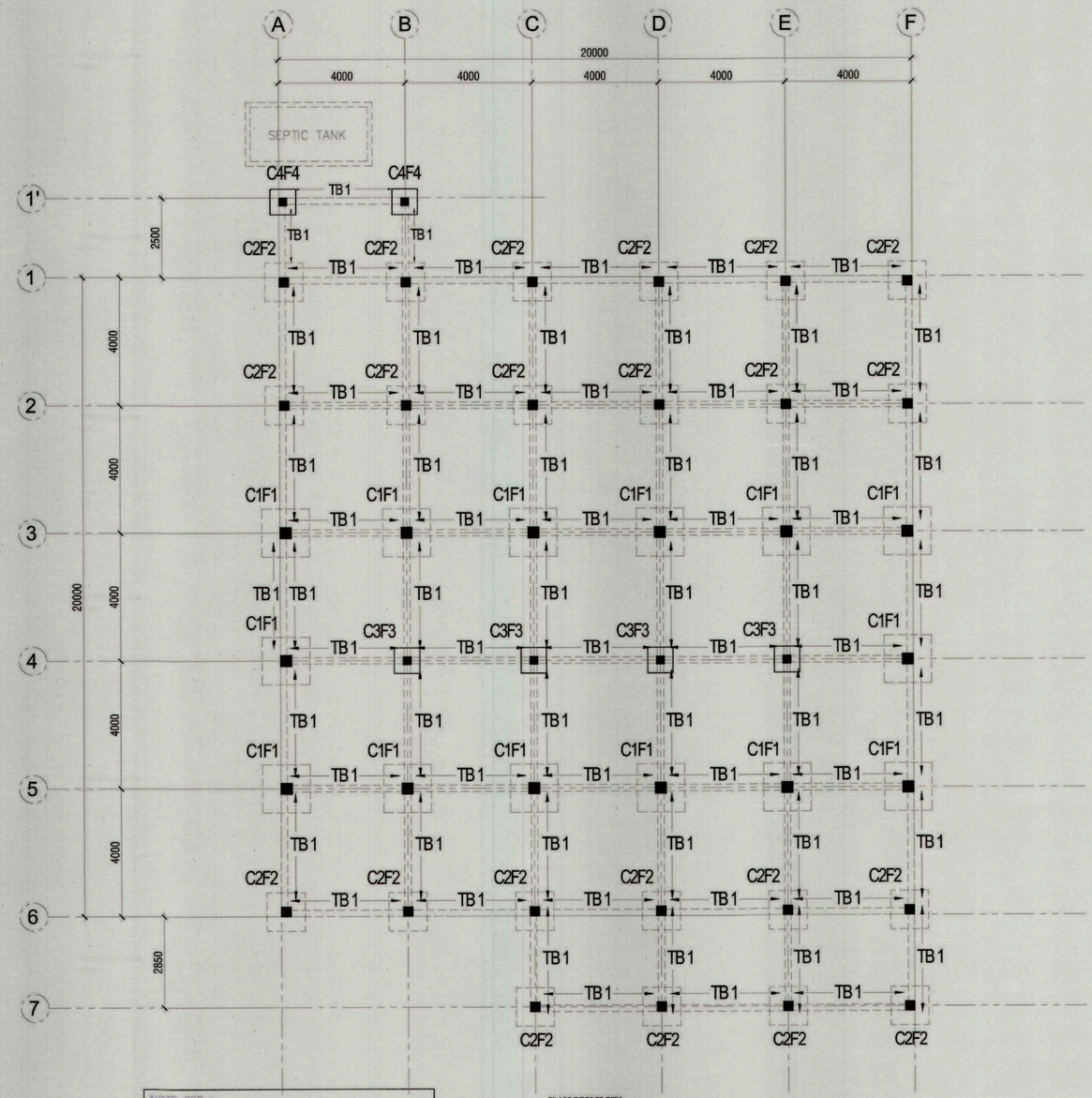
PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE/LOCATION
BERNIE B. DEMIAO	BIENVENIDO C. BARRERA Jr.	LEMUEL P. HONOR	SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP):PROMOTING SUSTAINABILITY THROUGH ECO-HERITAGE TOURISM
ARCHITECT/DRAFTSMAN	MUNICIPAL ENGINEER	MUNICIPAL MAYOR	LOCATION: SILAGO, SOUTHERN LEYTE

TIEZA
TOURISM INFRASTRUCTURE AND ENTERPRISE ZONE AUTHORITY
6th & 7th FLOORS TOWER-1, DOUBLE DRAGON PLAZA, DOUBLE DRAGON MERIDIAN PARK MACAPAGAL AVENUE CORNER EDSA EXTENSION BAY AREA, PASAY CITY 1308

PROJECT EVALUATION AND PLANNING DEPARTMENT		RECOMMENDING APPROVAL :	APPROVED:	SHEET NO.
CHECKED BY: RADY E. ADAME	REVIEWED BY: JEOFFREY L. MACALALAD	GREGORY A. OLLER	MARK T. LAPID	S 02 / 13 28
MANAGER PROJECT PLANNING & DESIGN DIVISION	MANAGER PROJECT EVALUATION & PLANNING DEPARTMENT	ASSISTANT CHIEF OPERATING OFFICER ARCHITECTURAL & ENGINEERING SERVICES SECTOR	CHIEF OPERATING OFFICER	

PEPD.QF.02a

RF-25-01



S 01 — SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP)
FOUNDATION PLAN
SCALE 1:100 MTS

PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE/LOCATION
BERNIE B. DEMIAO	BIENVENIDO C. BARRERA Jr.	LEMUEL P. HONOR	SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP):PROMOTING SUSTAINABILITY THROUGH ECO-HERITAGE TOURISM
ARCHITECT/DRAFTSMAN	MUNICIPAL ENGINEER	MUNICIPAL MAYOR	LOCATION: SILAGO, SOUTHERN LEYTE

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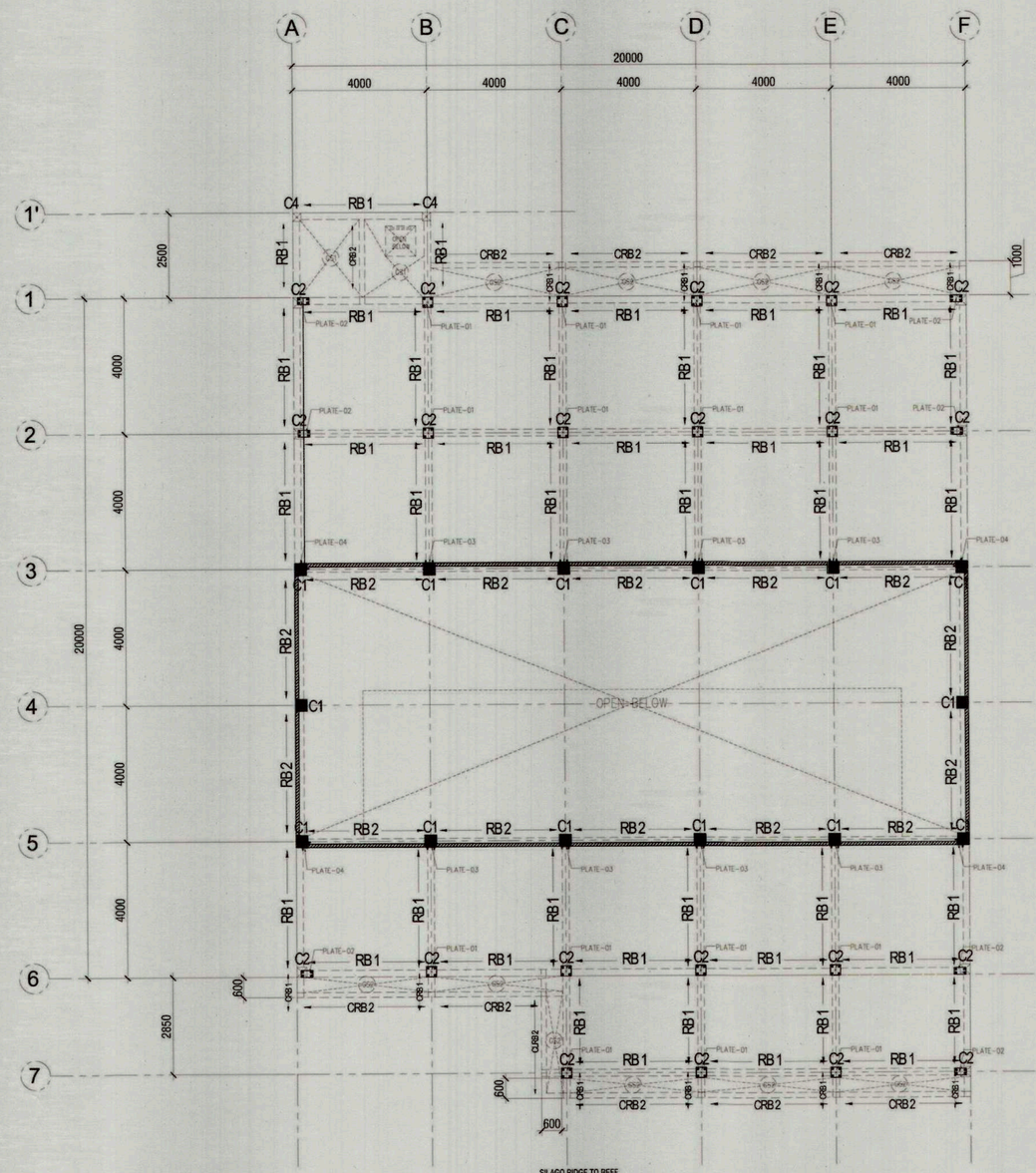
MANAGER PROJECT PLANNING & DESIGN DIVISION	MANAGER PROJECT EVALUATION & PLANNING DEPARTMENT	ASSISTANT CHIEF OPERATING OFFICER ARCHITECTURAL & ENGINEERING SERVICES SECTOR	CHIEF OPERATING OFFICER	

PEPD.QF.02a

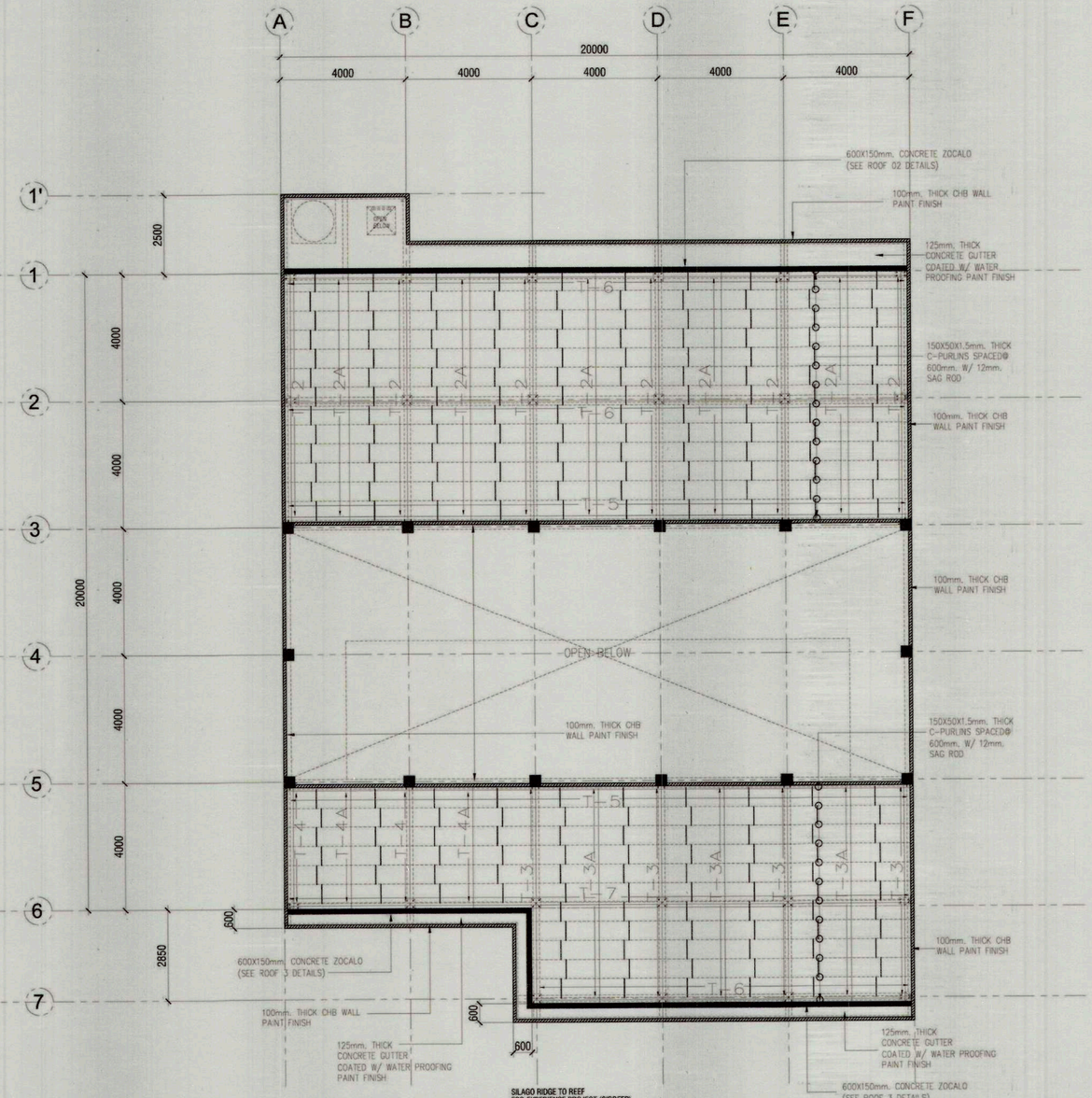
RF-25-01



SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

S 02 LOWER ROOF BEAMPLAN

SCALE 1 : 100 MTS



SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

S 03 LOWER ROOF FRAMING PLAN

SCALE 1 : 100 MTS

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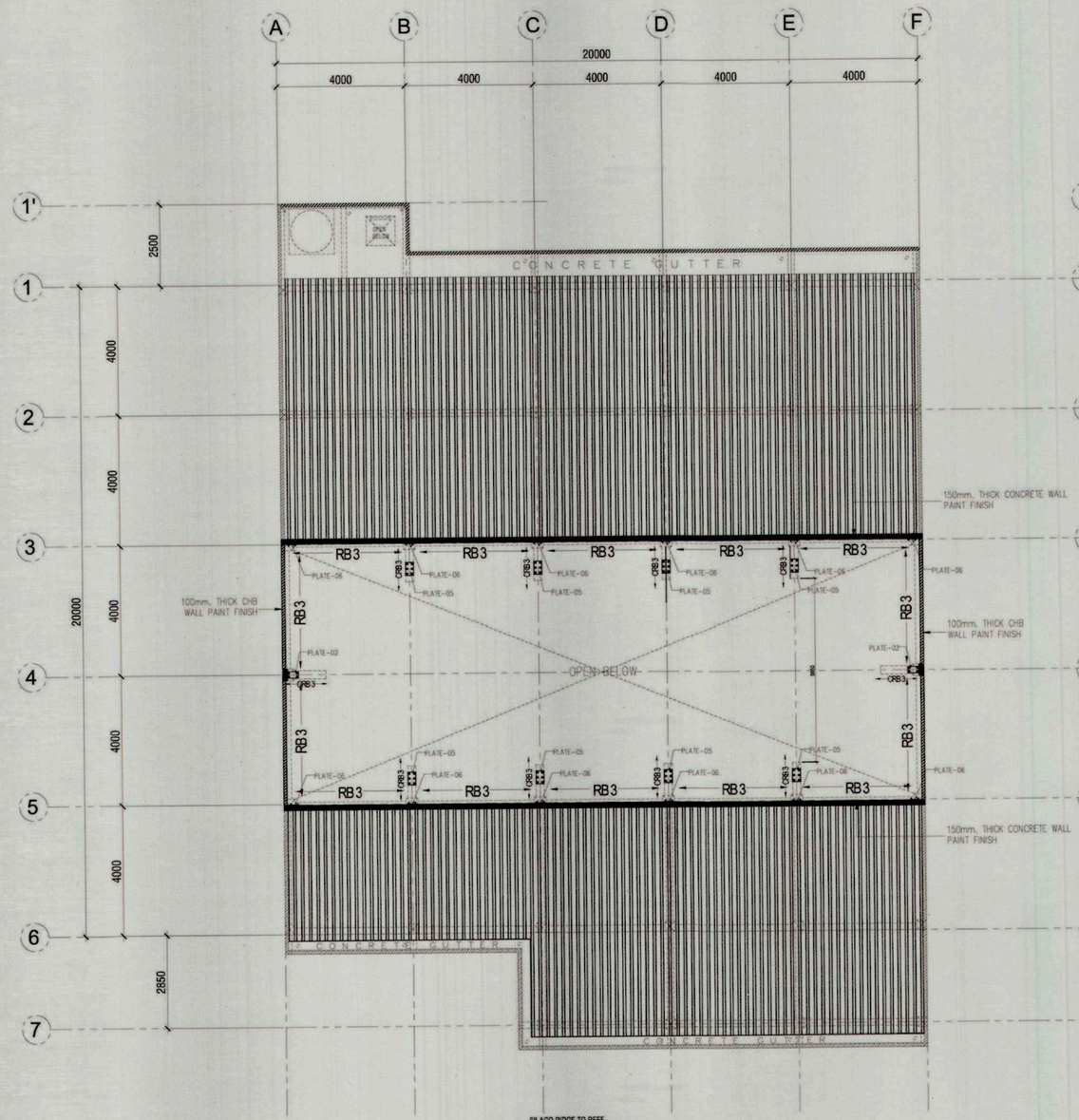
PEPD.QF.02a

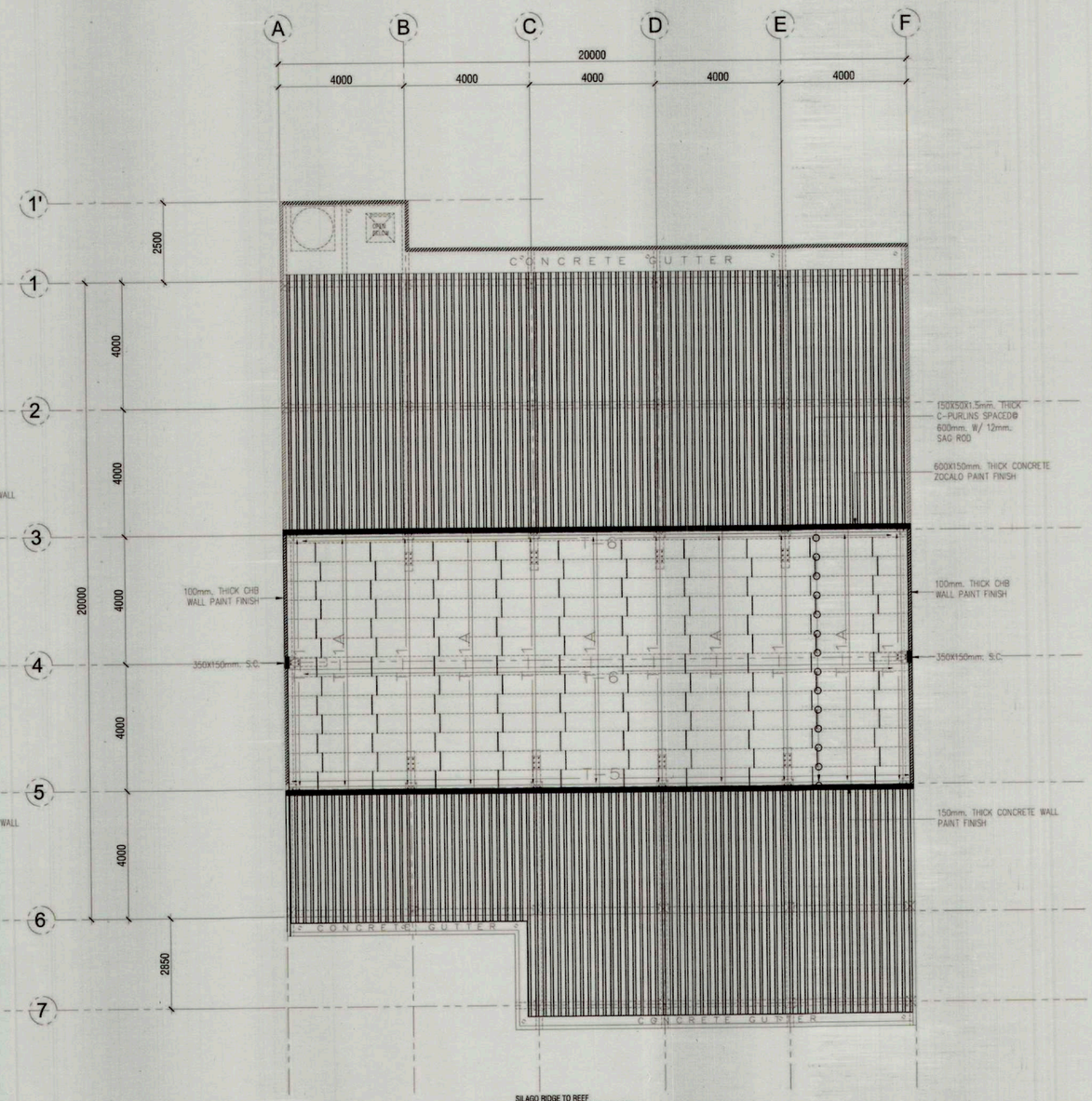
LS-25-01



SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

S 04 UPPER ROOF BEAM PLAN

SCALE 1 : 100 MTS



SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

S 05 UPPER ROOF FRAMING PLAN

SCALE 1 : 100 MTS

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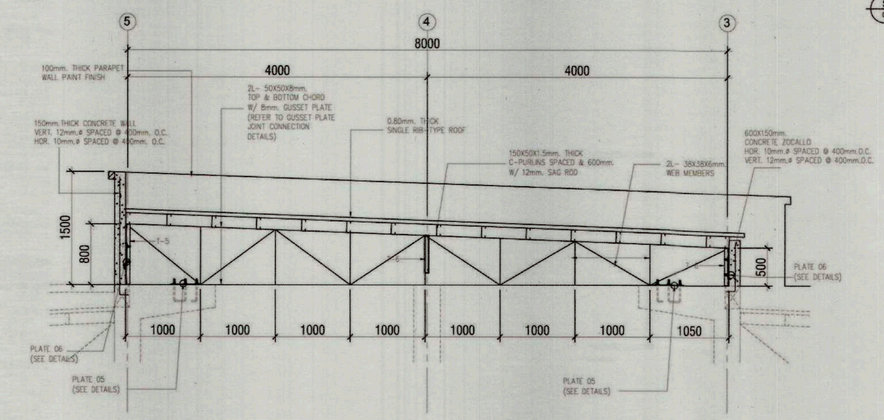
RF-25-01

SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

TRUSS 1 SECTION DETAILS (T1)

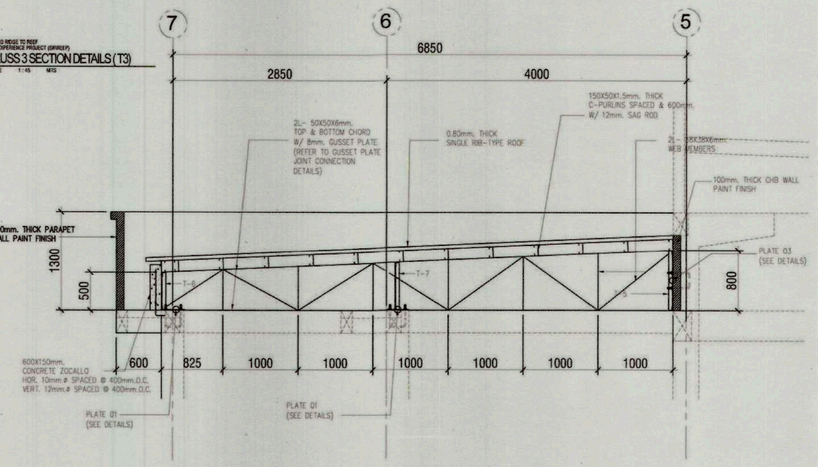
S 06 — SCALE 1:45 MTS

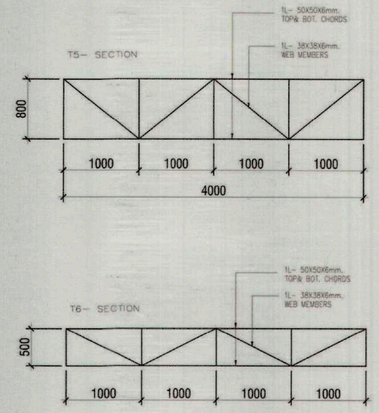


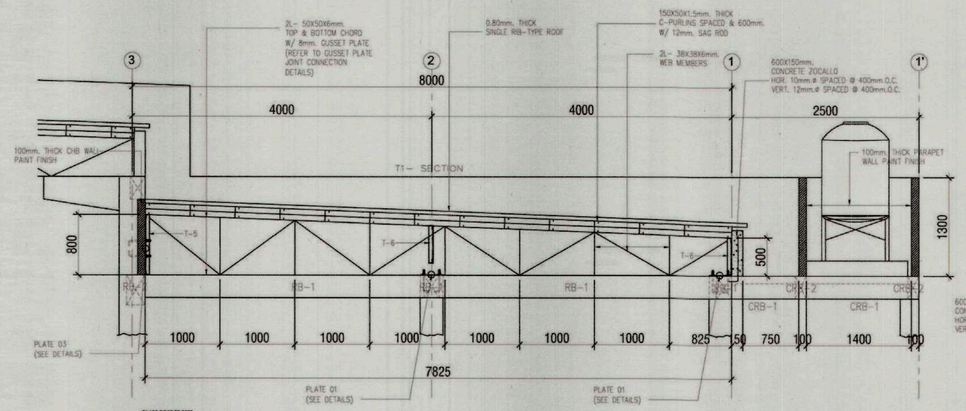
SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

TRUSS 3 SECTION DETAILS (T3)

S 08 — SCALE 1:45 MTS



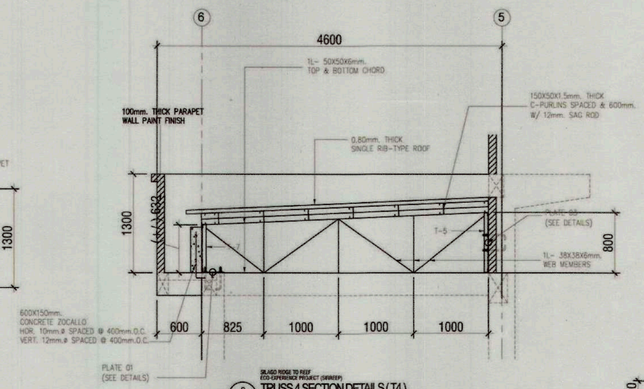




SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

TRUSS 2 SECTION DETAILS (T2)

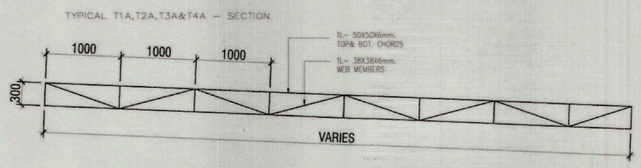
S 07 — SCALE 1:45 MTS



SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

TRUSS 4 SECTION DETAILS (T4)

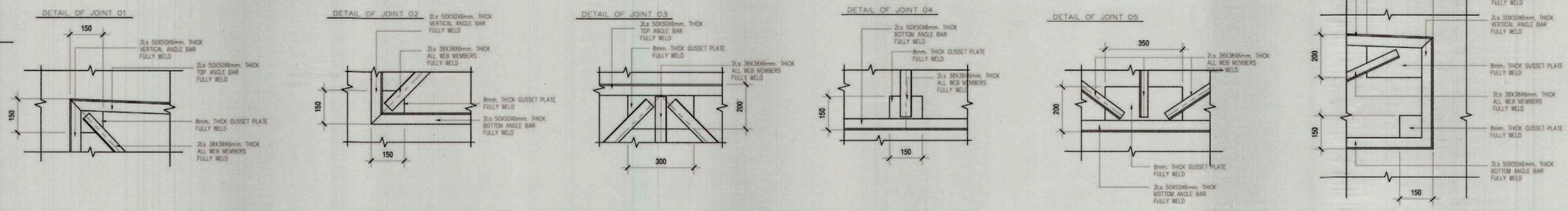
S 09 — SCALE 1:45 MTS



SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

TYPICAL ANGLE STEEL TO GUSSET PLATE CONNECTION DETAILS

S-Det 01 — SCALE 1:10 MTS



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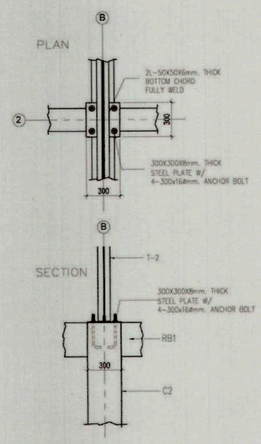
SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

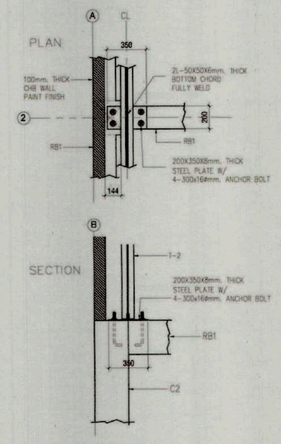
PLATE TO RC COLUMN TO STEELANGLE CONNECTION DETAILS

S-Det. 02 SCALE 1:30 MTS

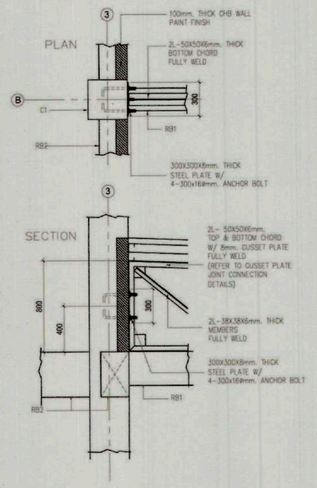
TYPICAL PLATE 01



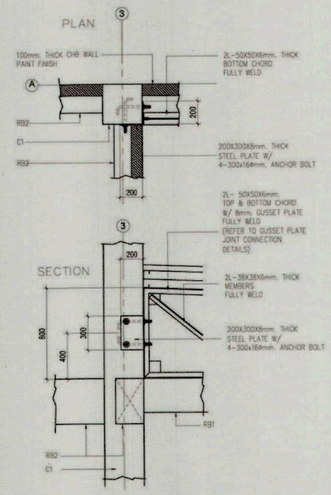
TYPICAL PLATE 02



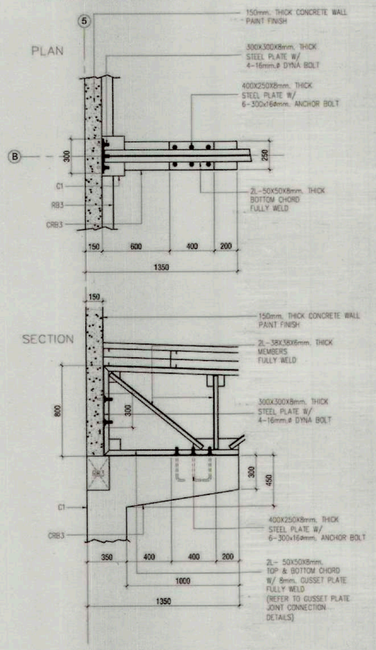
TYPICAL PLATE 03



TYPICAL PLATE 04



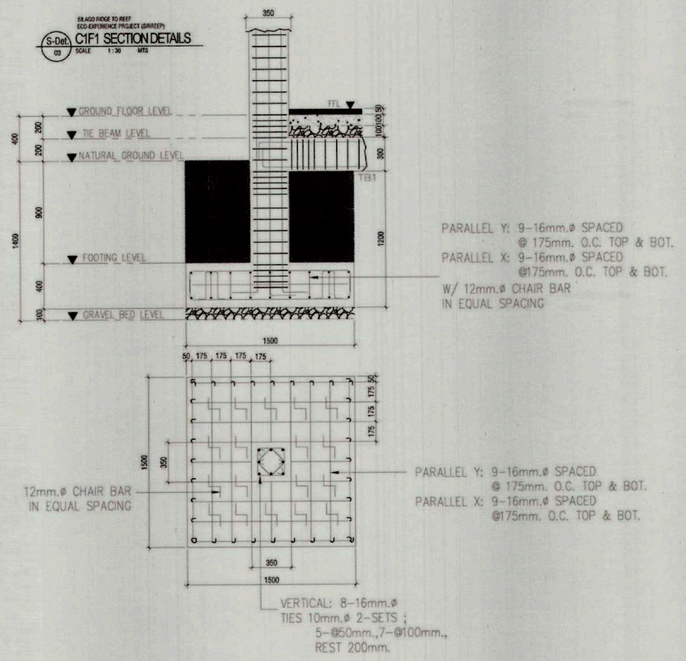
TYPICAL PLATE 05&06



SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

S-Det. 03 C1F1 SECTION DETAILS

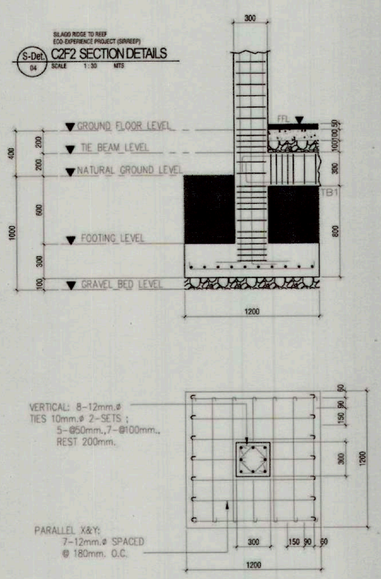
SCALE 1:30 MTS



SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

S-Det. 04 C2F2 SECTION DETAILS

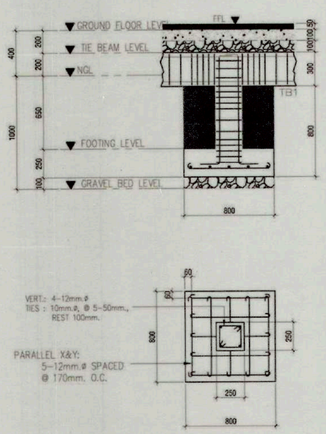
SCALE 1:30 MTS



PROPOSED SILAGO ECO-HERITAGE MUSEUM BUILDING

S-Det. 06 C3F3 PLAN - SECTION DETAILS

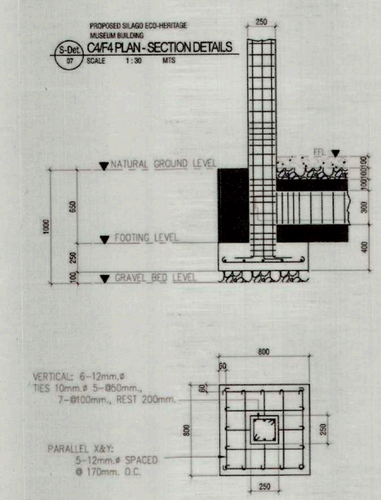
SCALE 1:30 MTS



PROPOSED SILAGO ECO-HERITAGE MUSEUM BUILDING

S-Det. 07 C4F4 PLAN - SECTION DETAILS

SCALE 1:30 MTS



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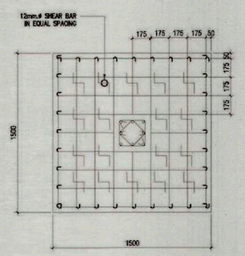
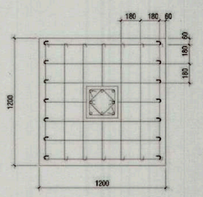
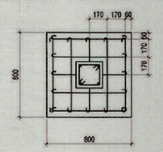
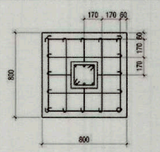
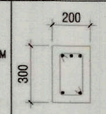
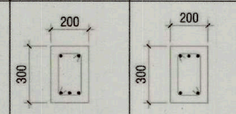
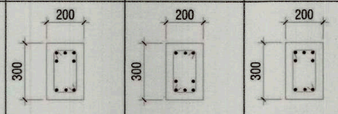
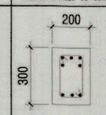
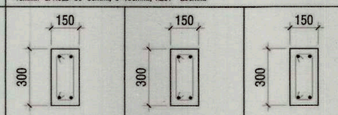
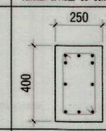
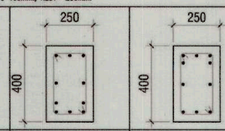
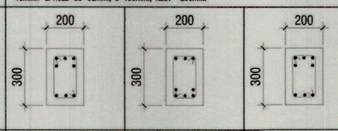
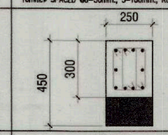
PEPD.QF.02a

R8-25-01

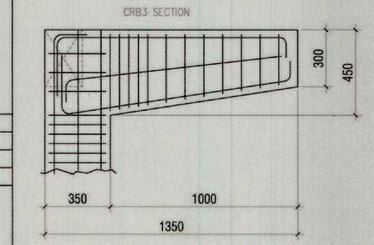
SCHEDULE OF FOOTINGS

F1 – (1500X1500 mm.) t = 400mm.	F2 – (1200X1200 mm.) t = 300mm.
	
PARALLEL Y: 9–16mm.ø SPACED @ 175mm. O.C. TOP & BOT. PARALLEL X: 9–16mm.ø SPACED @ 175mm. O.C. TOP & BOT.	PARALLEL Y & X: 7–12mm.ø SPACED @ 180mm. O.C.
F3 – (800X800 mm.) t = 250mm.	F4 – (800X800 mm.) t = 250mm.
	
PARALLEL Y & X: 5–12mm.ø SPACED @ 170mm. O.C.	PARALLEL Y & X: 5–12mm.ø SPACED @ 170mm. O.C.

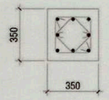
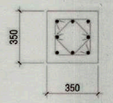
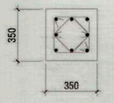
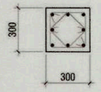
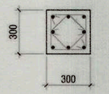
SCHEDULE OF BEAMS

MARK	RIGHT SUPPORT	MID SPAN SUPPORT	LEFT SUPPORT	MARK	RIGHT SUPPORT	MID SPAN SUPPORT	LEFT SUPPORT
TIE BEAM (TB)				RB1			
TOP BARS	3–16mm.ø	2–16mm.ø	3–16mm.ø	TOP BARS	5–16mm.ø	3–16mm.ø	5–16mm.ø
BOTTOM BARS	2–16mm.ø	3–16mm.ø	2–16mm.ø	BOTTOM BARS	3–16mm.ø	5–16mm.ø	3–16mm.ø
WEB BARS				WEB BARS			
STIRRUPS	10mm.ø SPACED @5–50mm., 5–100mm., REST– 200mm.			STIRRUPS	10mm.ø SPACED @5–50mm., 5–100mm., REST– 200mm.		
CRB1				CRB2			
TOP BARS	5–12mm.ø			TOP BARS	2–12mm.ø	2–12mm.ø	2–12mm.ø
BOTTOM BARS	3–12mm.ø			BOTTOM BARS	2–12mm.ø	2–12mm.ø	2–12mm.ø
WEB BARS				WEB BARS			
STIRRUPS	10mm.ø SPACED @5–50mm., 5–100mm., REST– 200mm.			STIRRUPS	10mm.ø SPACED @5–50mm., 5–100mm., REST– 200mm.		
RB2				RB3			
TOP BARS	5–16mm.ø	3–16mm.ø	5–16mm.ø	TOP BARS	5–16mm.ø	3–16mm.ø	5–16mm.ø
BOTTOM BARS	3–16mm.ø	5–16mm.ø	3–16mm.ø	BOTTOM BARS	3–16mm.ø	5–16mm.ø	3–16mm.ø
WEB BARS	2–10mm.ø	2–10mm.ø	2–10mm.ø	WEB BARS			
STIRRUPS	10mm.ø SPACED @6–50mm., 5–100mm., REST– 200mm.			STIRRUPS	10mm.ø SPACED @5–50mm., 5–100mm., REST– 200mm.		
CRB3							
TOP BARS	4–16mm.ø						
BOTTOM BARS	4–16mm.ø						
WEB BARS	2–10mm.ø						
STIRRUPS	10mm.ø REST @ 50mm						

CRB3 SECTION

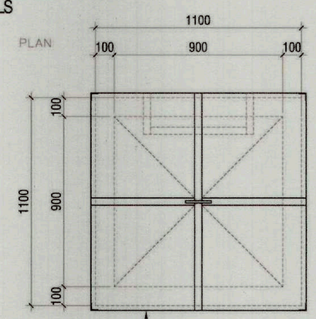


SCHEDULE OF COLUMNS

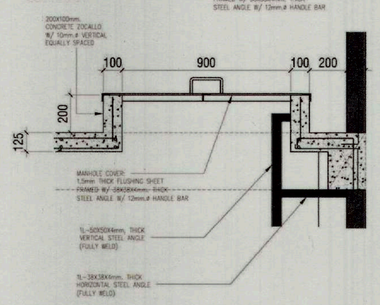
COLUMN (mm)	FLOOR LEVELS			
	FOUNDATION–GROUND FLOOR	GROUND FLOOR–LOWER ROOF	LOWER ROOF–UPPER ROOF BEAM	
C1 (350X350) mm.				
VERTICAL :	8–16mm.ø	8–16mm.ø	8–16mm.ø	
TIES (10ø mm.):	2–SETS ;5–@50mm.,7–@100mm., REST 150mm.	2–SETS ;5–@50mm.,7–@100mm., REST 150mm.	2–SETS ;5–@50mm.,7–@100mm., REST 150mm.	
COLUMN (mm)	FLOOR LEVELS			
	FOUNDATION–GROUND FLOOR	GROUND FLOOR–LOWER ROOF BEAM	LOWER ROOF–UPPER ROOF BEAM	
C2 (300X300) mm.				
VERTICAL :	8–16mm.ø	8–16mm.ø		
TIES (10ø mm.):	2–SETS ;5–@50mm.,7–@100mm., REST 150mm.	2–SETS ;5–@50mm.,7–@100mm., REST 150mm.		
COLUMN (mm)	FLOOR LEVELS			
	FOUNDATION–GROUND FLOOR	GROUND FLOOR–LOWER ROOF	LOWER ROOF–UPPER ROOF BEAM	
C3 (250X250) mm.				
VERTICAL :	4–16mm.ø			
TIES (10ø mm.):	10mm.ø, @ 5–50mm., REST 100mm.			
COLUMN (mm)	FLOOR LEVELS			
	FOUNDATION–GROUND FLOOR	GROUND FLOOR–LOWER ROOF BEAM		
C4 (250X250) mm.				
VERTICAL :	6–12mm.ø	8–12mm.ø		
TIES (10ø mm.):	5–@50mm.,7–@100mm., REST 150mm.	5–@50mm.,7–@100mm., REST 150mm.		

ROOF ACCESS MANHOLE COVER DETAILS

PLAN



SECTION



FLOOR SLAB SCHEDULE

MARK	THICKNESS (mm.)		SHORT SPAN			LONG SPAN			REMARKS
			CONTINOUS EDGE	MID-SPAN	DISCONTINOUS EDGE	CONTINOUS EDGE	MID-SPAN	DISCONTINOUS EDGE	
GFS	100	MAIN BARS	10 mm. Ø @ 400	10 mm. Ø @ 400	10 mm. Ø @ 400	10 mm. Ø @ 400	10 mm. Ø @ 400	10 mm. Ø @ 400	MESH TYPE
GS1	125	TOP BARS	12 mm. Ø @ 200	12 mm. Ø @ 200	12 mm. Ø @ 200	12 mm. Ø @ 200	12 mm. Ø @ 200	12 mm. Ø @ 200	MESH TYPE
		BOTTOM BARS	12 mm. Ø @ 200	12 mm. Ø @ 200	12 mm. Ø @ 200	12 mm. Ø @ 200	12 mm. Ø @ 200	12 mm. Ø @ 200	
GS2	100	MAIN BARS	12 mm. Ø @ 200	12 mm. Ø @ 200	12 mm. Ø @ 200	12 mm. Ø @ 200	12 mm. Ø @ 200	12 mm. Ø @ 200	MESH TYPE

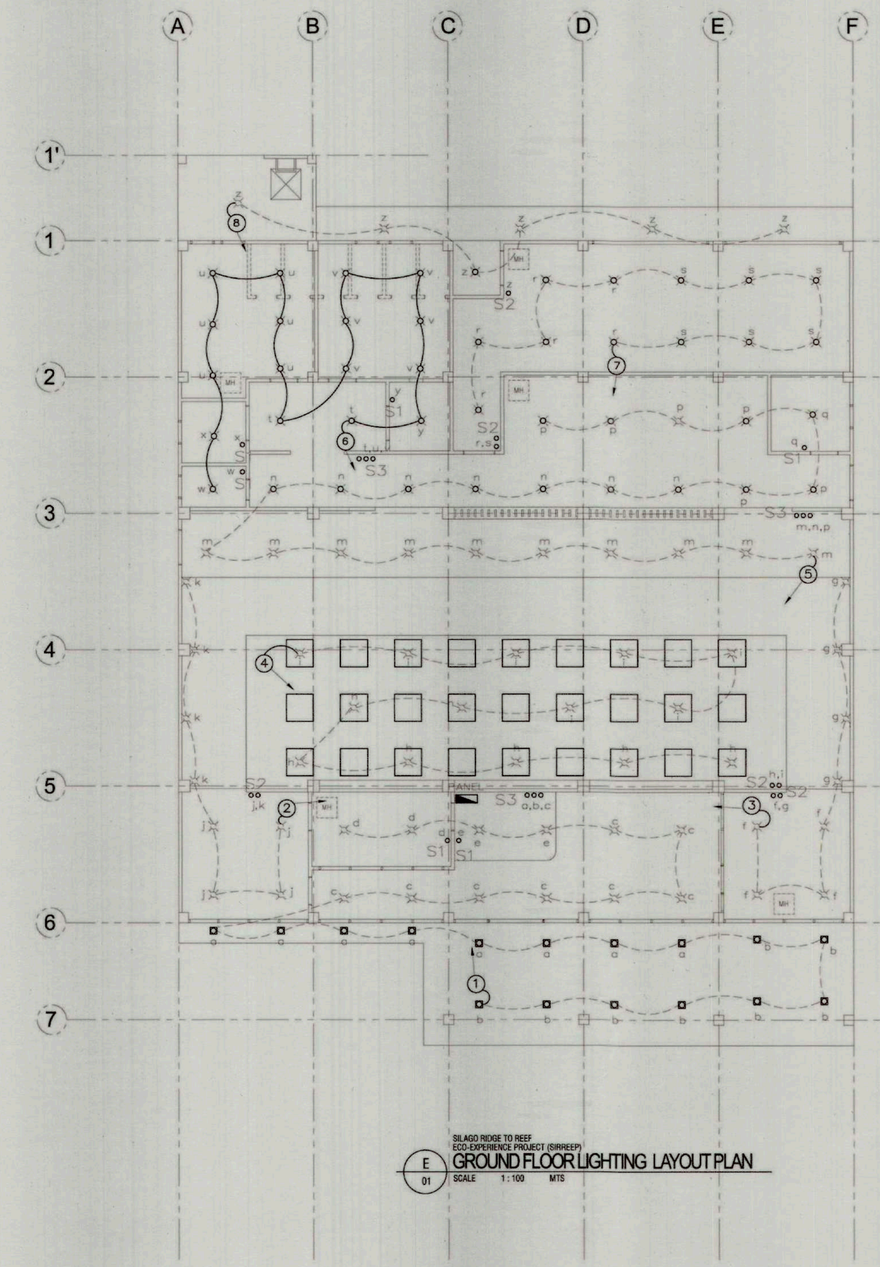
PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE/LOCATION
BERNIE B. DEMIAO	BIENVENIDO C. BARRERA Jr.	LEMUEL P. HONOR	SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP):PROMOTING SUSTAINABILITY THROUGH ECO-HERITAGE TOURISM
ARCHITECT/DRAFTSMAN	MUNICIPAL ENGINEER	MUNICIPAL MAYOR	LOCATION: SILAGO, SOUTHERN LEYTE

TIEZA
TOURISM INFRASTRUCTURE AND ENTERPRISE ZONE AUTHORITY
6th & 7th FLOORS TOWER-1, DOUBLE DRAGON PLAZA, DOUBLE DRAGON MERIDIAN PARK MACAPAGAL AVENUE CORNER EDSA EXTENSION BAY AREA, PASAY CITY 1308

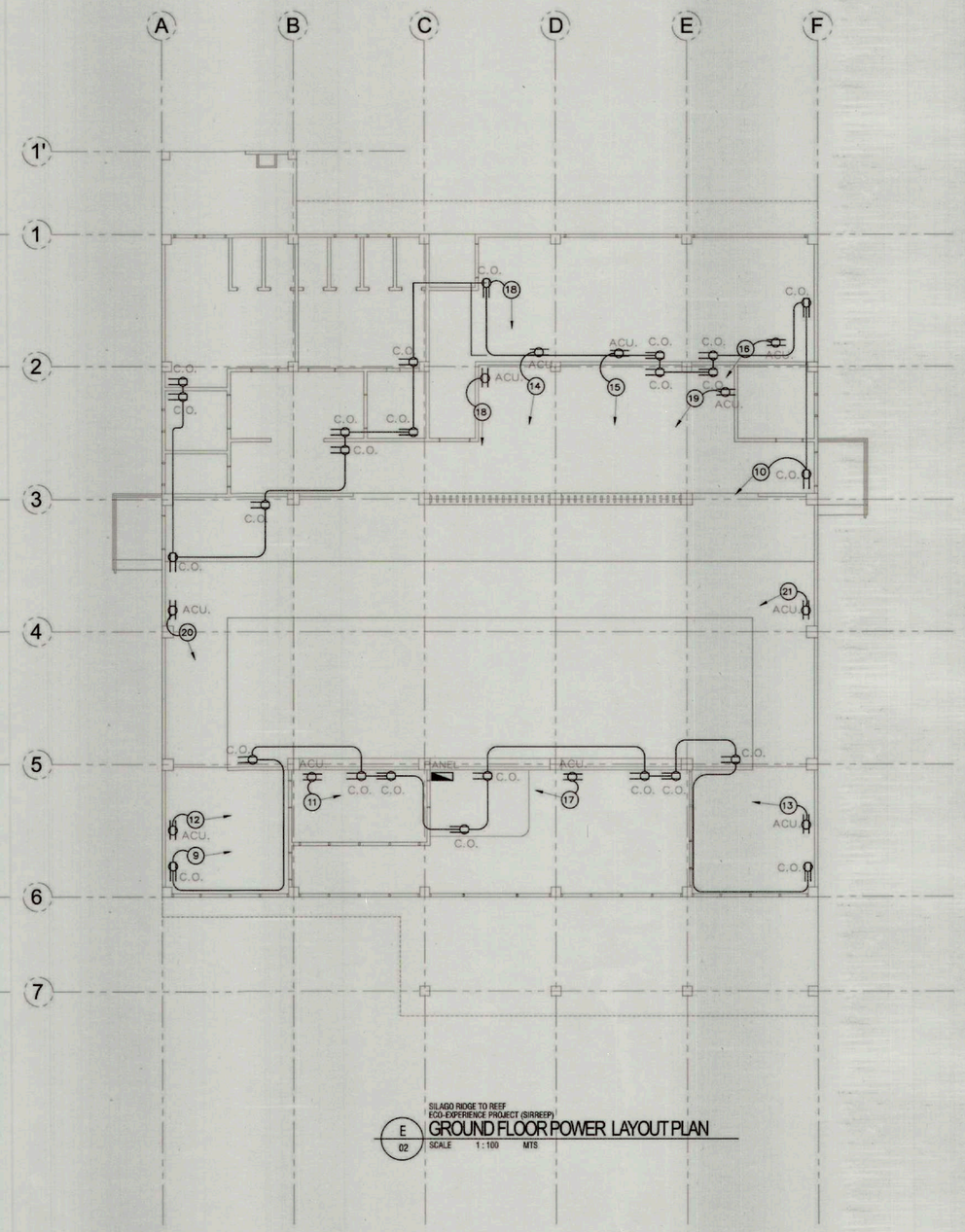
PROJECT EVALUATION AND PLANNING DEPARTMENT		RECOMMENDING APPROVAL :	APPROVED:	SHEET NO.
CHECKED BY:	REVIEWED BY:			
RADY E. ADAME	JEOFFREY L. MACALALAD	GREGORY A. OLLER	MARK T. LAPID	S 08 / 19 28
MANAGER PROJECT PLANNING & DESIGN DIVISION	MANAGER PROJECT EVALUATION & PLANNING DEPARTMENT	ASSISTANT CHIEF OPERATING OFFICER ARCHITECTURAL & ENGINEERING SERVICES SECTOR	CHIEF OPERATING OFFICER	

PEPD.QF.02a

RS-25-01



E 01 SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP)
GROUND FLOOR LIGHTING LAYOUT PLAN
SCALE 1 : 100 MTS



E 02 SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP)
GROUND FLOOR POWER LAYOUT PLAN
SCALE 1 : 100 MTS

PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE/LOCATION
BERNIE B. DEMIAO	BIENVENIDO C. BARRERA Jr.	LEMUEL P. HONOR	SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP):PROMOTING SUSTAINABILITY THROUGH ECO-HERITAGE TOURISM
ARCHITECT/DRAFTSMAN	MUNICIPAL ENGINEER	MUNICIPAL MAYOR	LOCATION: SILAGO, SOUTHERN LEYTE

TIEZA
TOURISM INFRASTRUCTURE AND ENTERPRISE ZONE AUTHORITY
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PROJECT EVALUATION AND PLANNING DEPARTMENT		RECOMMENDING APPROVAL :	APPROVED:	SHEET NO.
CHECKED BY: RADY E. ADAME	REVIEWED BY: JEOFFREY L. MACALALAD	GREGORY A. OLLER	MARK T. LAPID	E 01 / 20 28
MANAGER PROJECT PLANNING & DESIGN DIVISION	MANAGER PROJECT EVALUATION & PLANNING DEPARTMENT	ASSISTANT CHIEF OPERATING OFFICER ARCHITECTURAL & ENGINEERING SERVICES SECTOR	CHIEF OPERATING OFFICER	

PEPD.QF.02a

RF-25-01

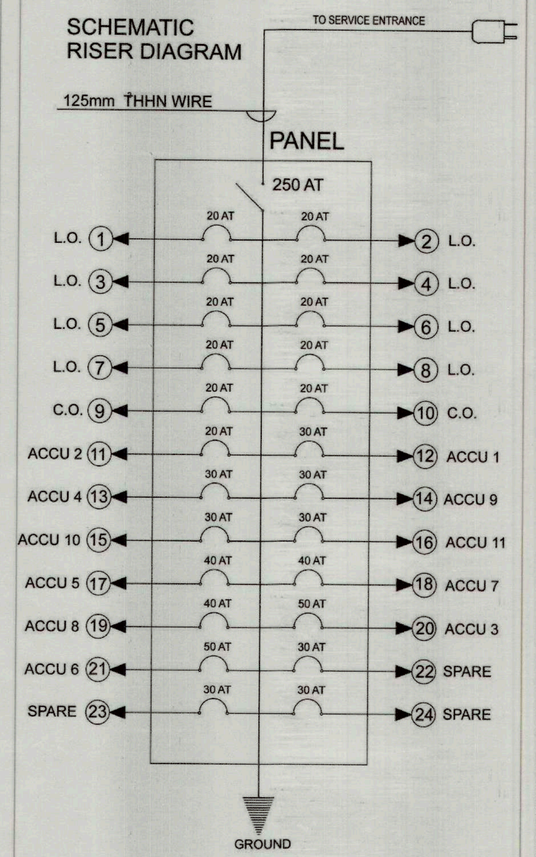
SCHEDULE OF LOADS (PANEL)

MARK	DESCRIPTION	NO. OF OUTLET	LOAD	TOTAL	V	CURRENT	CB RATING	SIZE OF CONDUCTORS & CONDUITS
1	L.O.	28	100	2800	220	12.73	20 A	USE 2 - 3.5 mm². THHN WIRE STRANDED
2	L.O.	8	100	800	220	3.64	20 A	USE 2 - 3.5 mm². THHN WIRE STRANDED
3	L.O.	8	100	800	220	3.64	20 A	USE 2 - 3.5 mm². THHN WIRE STRANDED
4	L.O.	14	100	1400	220	6.36	20 A	USE 2 - 3.5 mm². THHN WIRE STRANDED
5	L.O.	24	100	2400	220	10.91	20 A	USE 2 - 3.5 mm². THHN WIRE STRANDED
6	L.O.	17	100	1700	220	7.73	20 A	USE 2 - 3.5 mm². THHN WIRE STRANDED
7	L.O.	12	100	1200	220	5.45	20 A	USE 2 - 3.5 mm². THHN WIRE STRANDED
8	L.O.	6	100	600	220	2.73	20 A	USE 2 - 3.5 mm². THHN WIRE STRANDED
9	C.O.	10	200	2000	220	9.09	20 A	USE 2 - 3.5 mm². THHN WIRE STRANDED
10	C.O.	15	200	3000	220	13.64	20 A	USE 2 - 3.5 mm². THHN WIRE STRANDED
11	ACCU 2	1	1HP	746	220	3.39	20 A	USE 2 - 5.5 mm². THHN WIRE STRANDED
12	ACCU 1	1	2HP	1492	220	6.78	30 A	USE 2 - 5.5 mm². THHN WIRE STRANDED
13	ACCU 4	1	2HP	1492	220	6.78	30 A	USE 2 - 5.5 mm². THHN WIRE STRANDED
14	ACCU 9	1	3HP	2238	220	10.17	30 A	USE 2 - 5.5 mm². THHN WIRE STRANDED
15	ACCU 10	1	3HP	2238	220	10.17	30 A	USE 2 - 5.5 mm². THHN WIRE STRANDED
16	ACCU 11	1	3HP	2238	220	10.17	30 A	USE 2 - 5.5 mm². THHN WIRE STRANDED
17	ACCU 5	1	4HP	2984	220	13.56	40 A	USE 2 - 8.0 mm². THHN WIRE STRANDED
18	ACCU 7	1	4HP	2984	220	13.56	40 A	USE 2 - 8.0 mm². THHN WIRE STRANDED
19	ACCU 8	1	4HP	2984	220	13.56	40 A	USE 2 - 8.0 mm². THHN WIRE STRANDED
20	ACCU 3	1	5HP	3730	220	16.95	50 A	USE 2 - 8.0 mm². THHN WIRE STRANDED
21	ACCU 6	1	5HP	3730	220	16.95	50 A	USE 2 - 8.0 mm². THHN WIRE STRANDED
22	S	-	-	-	-	-	30 Amp.	USE 2 - 5.5 mm². THHN WIRE STRANDED
23	S	-	-	-	-	-	30 Amp.	USE 2 - 5.5 mm². THHN WIRE STRANDED
24	S	-	-	-	-	-	30 Amp.	USE 2 - 5.5 mm². THHN WIRE STRANDED
TOTAL		153		41 756 W		186.49 AMP.	250A	USE 2 - 125mm². THHN WIRE STRANDED @ 65mm. Ø PVC

GENERAL NOTES

1. ALL ELECTRICAL WORKS AND INSTALLATIONS SHALL COMPLY WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE WITH THE RULES & REGULATIONS OF THE NATIONAL & LOCAL AUTHORITIES CONCERNED IN IN THE INFORCEMENT OF ELECTRICAL LAWS & REGULATIONS OF THE UTILITY COMPANIES CONCERNED.
2. ALL WIRINGS SHALL BE INSTALLED IN STANDARD PVC OR RSC CONDUITS RUN EMEBEDED IN CONCRETE HOLLOW BLOCK STRUCTURE, COLUMNS, WALL PARTITIONS AND/OR RUN CONCEALED BETWEEN DOUBLE WOODEN PARTITIONS AND THE INSIDE CEILING SPACES WHERE THE USE OF CONCEALED CONDUIT WIRING IS IMPRACTICABLE SURFACE METAL MOULDING SHOUL BE USED.
3. SERVICE VOLTAGE TO THE BUILDING SHALL BE 110 /220VOLT 60Hz, SINGLE PHASE.
4. THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF THE CONCRETE TERMINAL POLE FOR CONNECTION TO THE POWER SUPPLY & TELEPHONE SERVICE.
5. ALL INSTALLATION SHALL BE CONCEALED FROM VIEW, WIRING SHALL BE INCASE IN POLYVINEL CHLORIDE (PVC) PIPE SCHEDULE 40 EXCEPT AND TELEPHONE SERVICE WHICH SHALL BE RIGID STEEL CONDUIT(RSC) OTHERWISE NOTED.
6. PULL BOXES OF APPROPRIATE SIZE SHALL BE PROVIDED EVEN IF NOT INDICATED IN DRAWING TO ACCOMODATE THE NUMBER OF SPLICES OF WIRES.
7. WHEREVER REQUIRED OR NECESSARY, PULL BOXERS OR JUNCTION BOXES OF PROPER SIZES SHALL BE INSTALLED AT CONVENIENT AND INCONSPICIOUS LOCATIONS SUCH BOXES ARE NOT SHOWN IN THE PLAN NOR MENTIONED IN THE SPECIFICATIONS.
8. MINIMUM WIRE AND CONDUIT SHALL BE NO.12 AWG TYPE TW AND 1 ½" Ø PVC TRADE SIZE, RESPECTIVELY UNLESS OTHERWISE SPECIFIED.
9. ALL FLOURESCENT LAMPS SHALL BE PROVIDED WITH POLYESTER FILLED PRE-HEAT THERMALLY PROTECTED, HIGH BALLAST.
10. ALL MATERIALS TO BE USED SHALL BE NEW & APPROVED TYPE APPROPRIATE FOR BOTH LOCATION AND INTENDED USE.
11. LIGHT CONTROL SWITCHES SHALL BE RATED 10 AMPS, 300 WATTS AND SHALL NOT CARRY A LOAD GREATER THAN 50 AMPS.
12. DUPLEX RECEPTACLE SHALL BE RATED 10 AMPS, 250 WATTS A ROUNDED SLOTS FOR 220 VOLTS AND FOR PARALLEL FOR 110 VOLTS AND SPECIAL OUTLETS SHALL BE RATED 15 AMPS OR 250 WATTS AS REQUIRED.
13. FOR EACH SPARE CIRCUIT PANEL BOARD PROVIDED EMPTY ¾" Ø RISER TERMINATING IN A 2-⅛ DEEP BY 4" OCTAGONAL BOX ABOVE CEILING.
14. ELECTRICAL INSTALLATIONS SHALL BE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER OR REGISTERED MASTER ELECTRICIAN.
15. OUTLET BOXES SHALL BE AS FOLLOWS:
    - LIGHT OUTLETS: 1-½" DEEP, 4" OCTAGONAL BOX 1 OR 2 WAY ENTRIES. 2-½" DEEP, 4" OCTAGONAL BOX 3 OR 4 WAY ENTRIES.
    - RECEPTACLE AND: 2-½" DEEP, 2" x 4" UTILITY BOX
    - TELEPHONE OUTLET: 1 OR 2 RACEWAY ENTRIES. 1- ½" DEEP, 4" SQUARE BOX WITH 1- GANG RAISED PLASTIC COVER FOR 3 OR 4 RAISEDWAY ENTRIES.
    - DOORBELL AND OUTLETS: 1- ½" DEEP, 4" OCTAGONAL BOX.
    - PUSH BUTTON OUTLET: 2-½", 2" x 4" UTILITY BOX.
    - SPECIAL PURPOSE OUTLET: 1- ½" DEEP, 4" OCTAGONAL BOX. 1 GANG RAISED PLASTIC COVER.
    - RANGE OUTLET: 2-½" DEEP, 4-11/16" SQUARE BOX WITH 1- GANG RAISED PLASTIC COVER.
16. NO REVISION IN THE DESIGN WITHOUT THE KNOWLEDGE AND APPROVAL OF THE DESIGNER AND THE OWNER, ANY SUCH REVISION DONE WITHOUT APPROVAL SHALL CAUSE RESPONSIBILITY OF THE DESIGNER TO CEASE AS A WHOLE.

SCHEMATIC RISER DIAGRAM

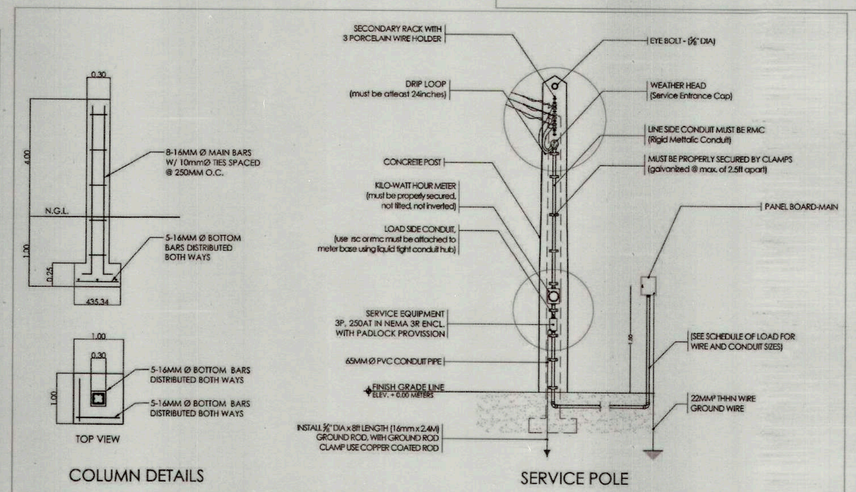


ELECTRICAL LEGENDS:

- LIGHT OUTLETS (L.O.)
- AIR CONDITION OUTLET (ACU)
- 2 GANG CONVENIENCE OUTLET (C.O.)
- KWH KILOWATT HOUR METER
- MAIN SAFETY SWICH / POWER PANEL
- CIRCUIT CUT-OUT / BREAKER
- CIRCUIT HOME RUN
- S1 SINGLE SWITCH SNAP TYPE
- S2 TWO-GANG SWITCH SNAP TYPE
- S3 THREE-GANG SWITCH SNAP TYPE
- SERVICE ENTRANCE CAP
- LIGHTING CIRCUIT LINE
- POWER CIRCUIT LINE

SAMPLE LOAD COMPUTATIONS (PANEL)

GENERAL LIGHTING AND SMALL APPLIANCES :				
PANEL ;	LIGHTING OUTLET	= 117 (100)	=	11 700 W
	C.O.	= 25 (200)	=	5 000 W
	ACU	= 1(746)+2 (1492)+3(2238)+ 3(2984)+2(3730) =		26 856 W
			=	43 556 W
	TOTAL CURRENT , I		=	43 556 / 220
	AMP. RATING		=	197.98 AMP.
USE 2- 125mm THHN WIRE MAIN CONDUCTOR (USE 65mm. Ø PVC CONDUIT PIPE)				
WITH 250AT, 350AF MAIN FUSE CIRCUIT BREAKER				



COLUMN DETAILS

SERVICE POLE

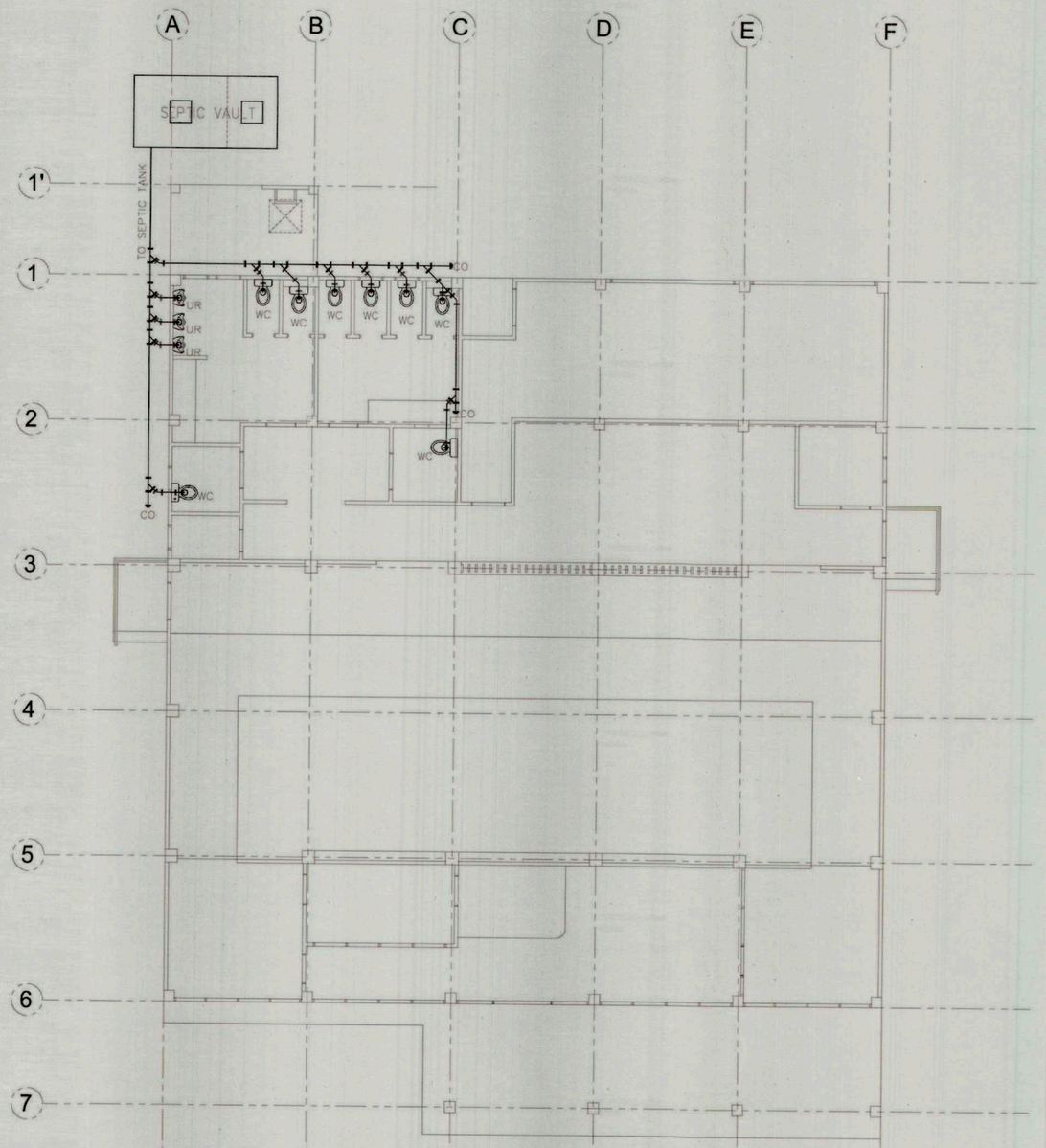
PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE/LOCATION
BERNIE B. DEMIAO	BIENVENIDO C. BARRERA Jr.	LEMUEL P. HONOR	SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP):PROMOTING SUSTAINABILITY THROUGH ECO-HERITAGE TOURISM
ARCHITECT/DRAFTSMAN	MUNICIPAL ENGINEER	MUNICIPAL MAYOR	LOCATION: SILAGO, SOUTHERN LEYTE

TIEZA
TOURISM INFRASTRUCTURE AND ENTERPRISE ZONE AUTHORITY
8th & 7th FLOORS TOWER-1, DOUBLE DRAGON PLAZA, DOUBLE DRAGON MERIDIAN PARK MACAPAGAL AVENUE CORNER EDSA EXTENSION BAY AREA, PASAY CITY 1308

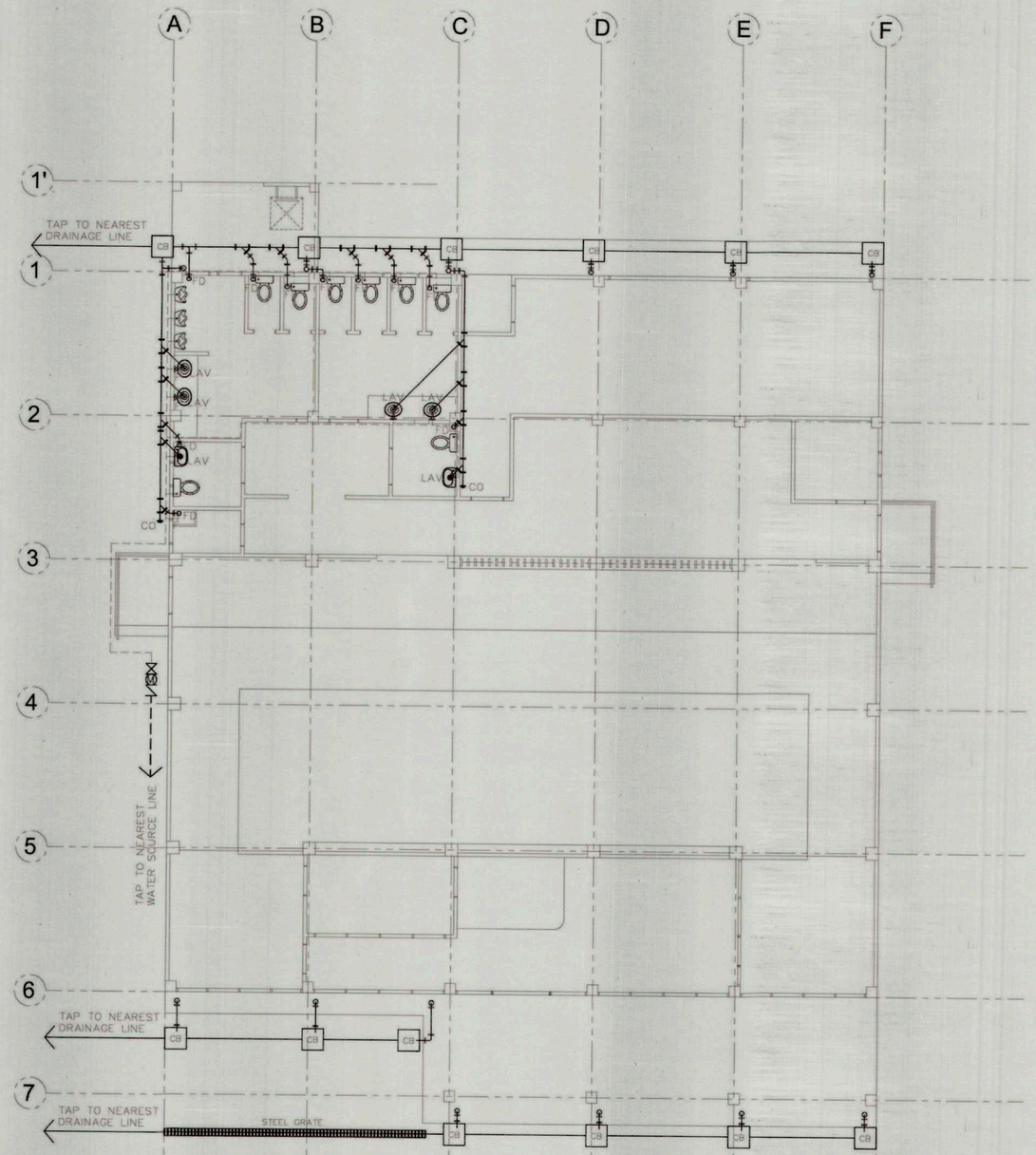
PROJECT EVALUATION AND PLANNING DEPARTMENT		RECOMMENDING APPROVAL :	APPROVED:	SHEET NO.
CHECKED BY: RADY E. ADAME	REVIEWED BY: JEOFFREY L. MACALALAD	GREGORY A. OLLER	MARK T. LAPID	E 02 / 21 28
MANAGER PROJECT PLANNING & DESIGN DIVISION	MANAGER PROJECT EVALUATION & PLANNING DEPARTMENT	ASSISTANT CHIEF OPERATING OFFICER ARCHITECTURAL & ENGINEERING SERVICES SECTOR	CHIEF OPERATING OFFICER	

PEPD.QF.02a

RF-25-01



P 01
SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)
SANITARY LAY-OUT PLAN
SCALE 1 : 100 MTS



P 02
SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)
WASTE AND WATER LAY-OUT PLAN
SCALE 1 : 100 MTS

PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE/LOCATION
BERNIE B. DEMIAO	BIENVENIDO C. BARRERA Jr.	LEMUEL P. HONOR	SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP):PROMOTING SUSTAINABILITY THROUGH ECO-HERITAGE TOURISM
ARCHITECT/DRAFTSMAN	MUNICIPAL ENGINEER	MUNICIPAL MAYOR	LOCATION: SILAGO, SOUTHERN LEYTE

TIEZA
TOURISM INFRASTRUCTURE AND ENTERPRISE ZONE AUTHORITY
6th & 7th FLOORS TOWER-1, DOUBLE DRAGON PLAZA, DOUBLE DRAGON MERIDIAN PARK MACAPAGAL AVENUE CORNER EDSA EXTENSION BAY AREA, PASAY CITY 1308

PROJECT EVALUATION AND PLANNING DEPARTMENT		RECOMMENDING APPROVAL :	APPROVED:	SHEET NO.
CHECKED BY: RADY E. ADAME	REVIEWED BY: JEOFFREY L. MACALALAD	GREGORY A. OLLER	MARK T. LAPID	P 01 / 22 28
MANAGER PROJECT PLANNING & DESIGN DIVISION	MANAGER PROJECT EVALUATION & PLANNING DEPARTMENT	ASSISTANT CHIEF OPERATING OFFICER ARCHITECTURAL & ENGINEERING SERVICES SECTOR	CHIEF OPERATING OFFICER	

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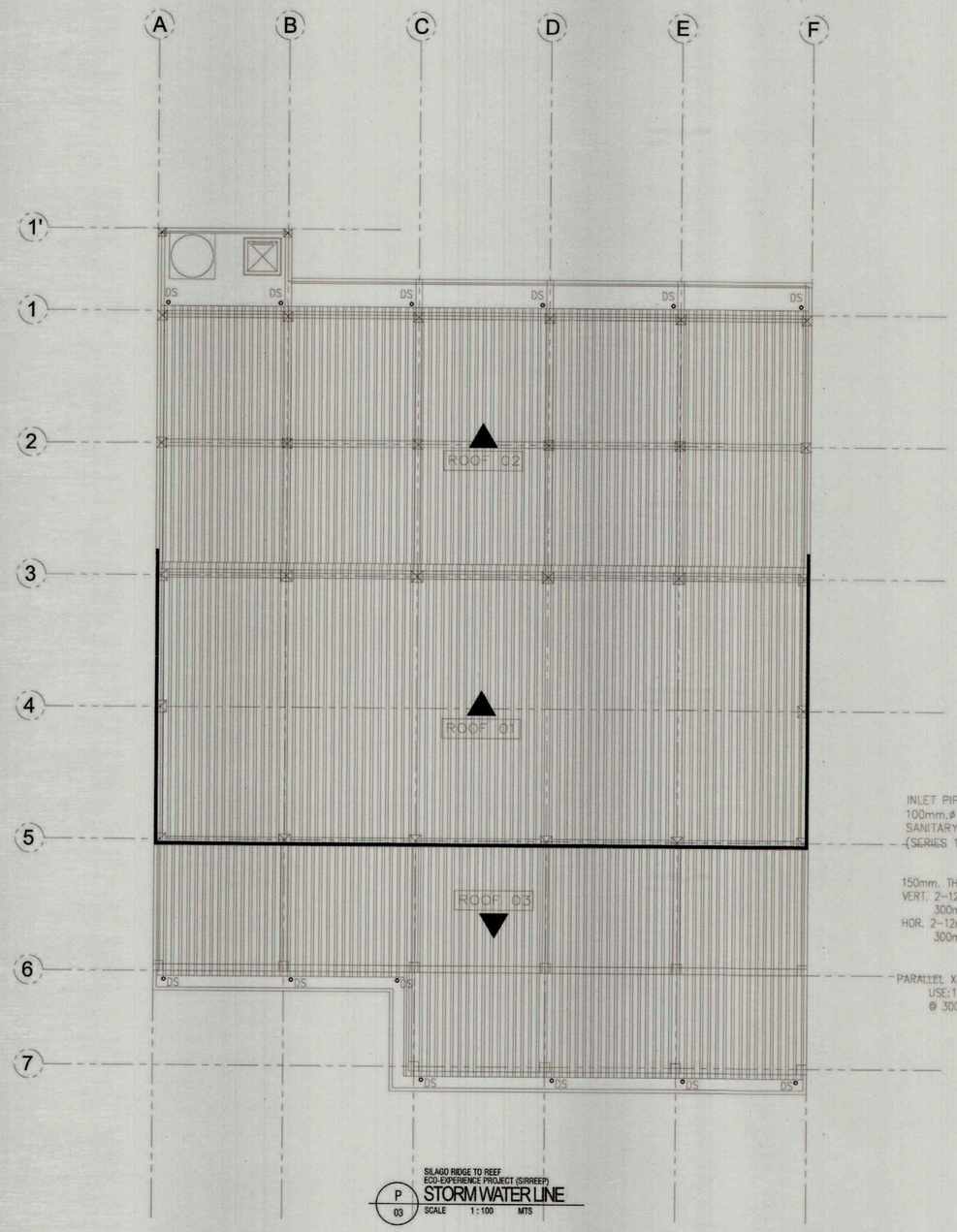
RS-25-01



SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

P 03 **STORM WATER LINE**

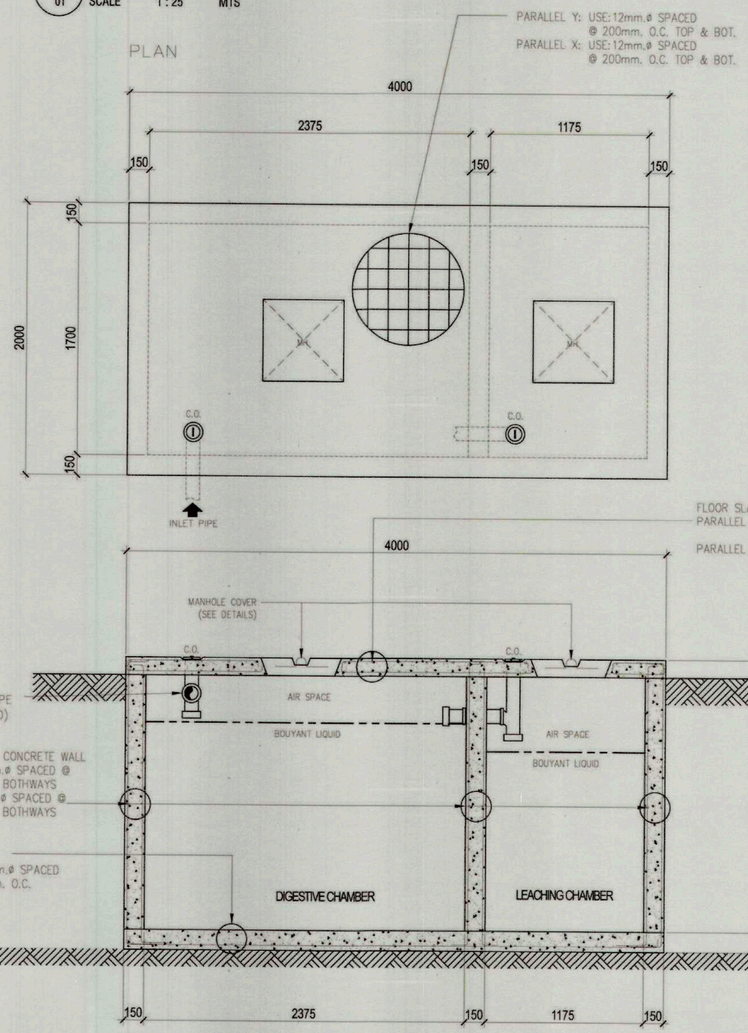
SCALE 1 : 100 MTS

SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

P-Det. 01 **SEPTIC TANK DETAILS**

SCALE 1 : 25 MTS

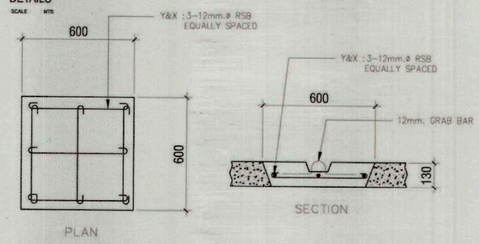
PLAN



SECTION

MANHOLE COVER DETAILS

SCALE NTS

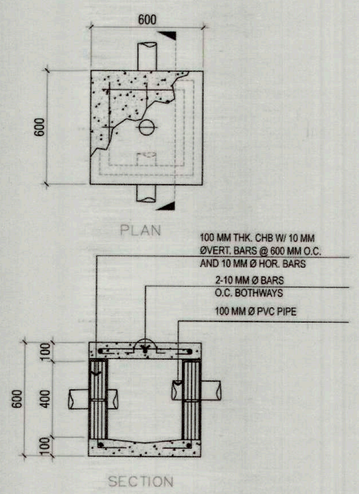


PLAN

SECTION

CATCH BASIN DETAILS

NTS



PLAN

SECTION

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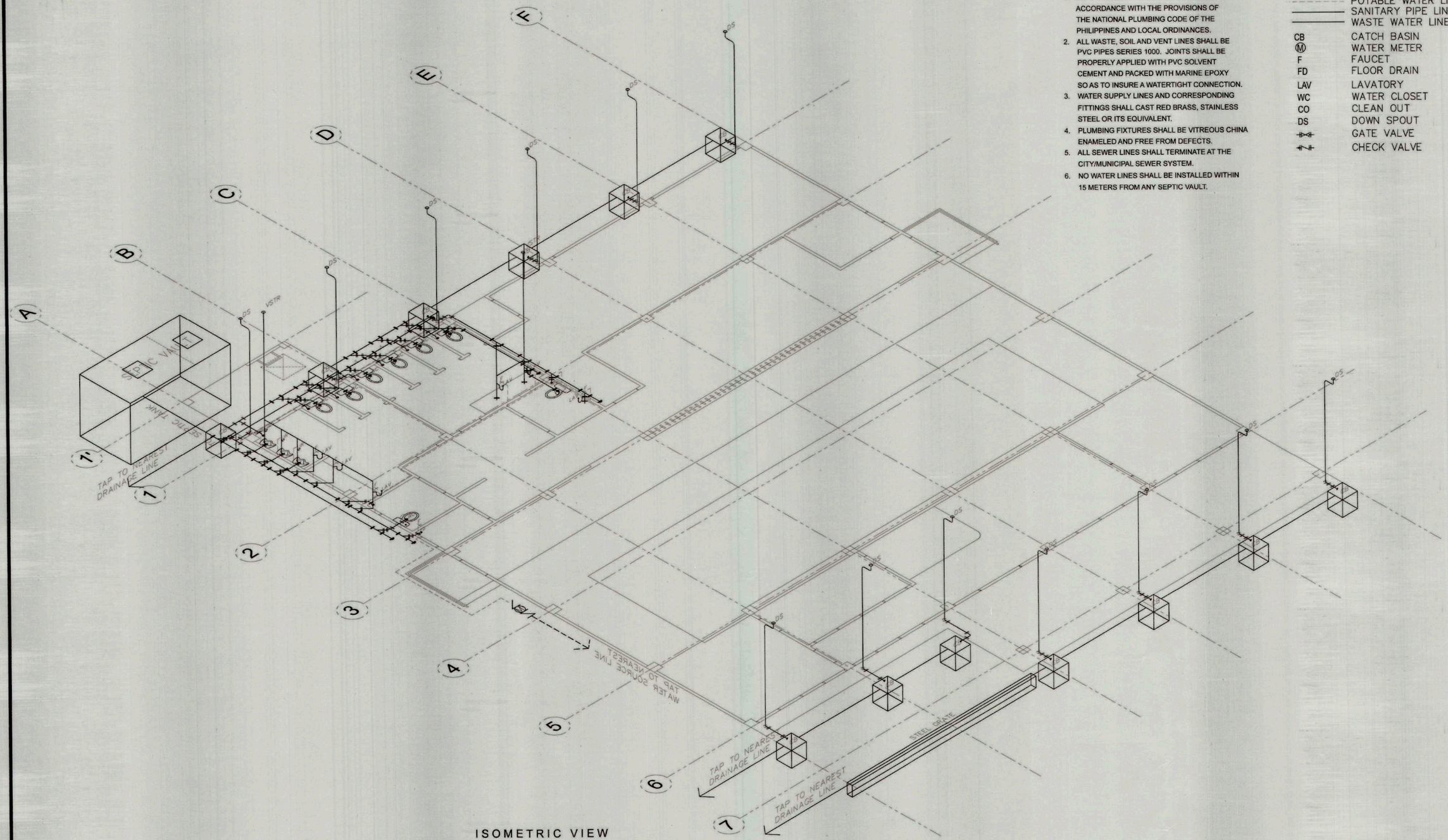
RF-25-01

PLUMBING SPECIFICATIONS:

1. ALL PLUMBING WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES AND LOCAL ORDINANCES.
2. ALL WASTE, SOIL AND VENT LINES SHALL BE PVC PIPES SERIES 1000. JOINTS SHALL BE PROPERLY APPLIED WITH PVC SOLVENT CEMENT AND PACKED WITH MARINE EPOXY SO AS TO INSURE A WATERTIGHT CONNECTION.
3. WATER SUPPLY LINES AND CORRESPONDING FITTINGS SHALL CAST RED BRASS, STAINLESS STEEL OR ITS EQUIVALENT.
4. PLUMBING FIXTURES SHALL BE VITREOUS CHINA ENAMELED AND FREE FROM DEFECTS.
5. ALL SEWER LINES SHALL TERMINATE AT THE CITY/MUNICIPAL SEWER SYSTEM.
6. NO WATER LINES SHALL BE INSTALLED WITHIN 15 METERS FROM ANY SEPTIC VAULT.

LEGEND:

- - - - -	POTABLE WATER LINE
———	SANITARY PIPE LINE
———	WASTE WATER LINE
CB	CATCH BASIN
Ⓜ	WATER METER
F	FAUCET
FD	FLOOR DRAIN
LAV	LAVATORY
WC	WATER CLOSET
CO	CLEAN OUT
DS	DOWN SPOUT
	GATE VALVE
	CHECK VALVE



ISOMETRIC VIEW

PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE/LOCATION
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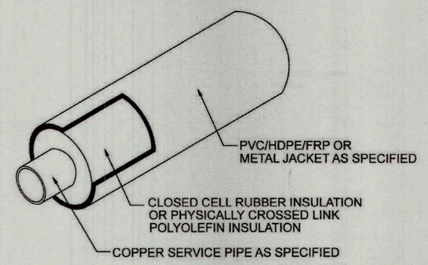
MANAGER PROJECT PLANNING & DESIGN DIVISION	MANAGER PROJECT EVALUATION & PLANNING DEPARTMENT	ASSISTANT CHIEF OPERATING OFFICER ARCHITECTURAL & ENGINEERING SERVICES SECTOR	CHIEF OPERATING OFFICER	

PEPD.QF.02a

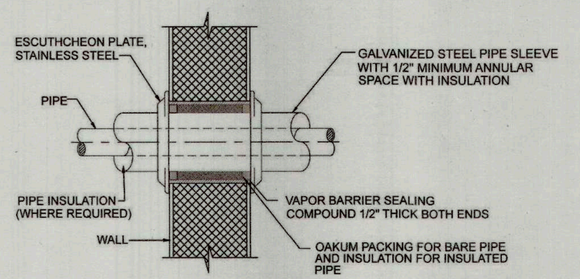
R8-25-01



SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

REFRIGERANT PIPING INSULATION DETAIL

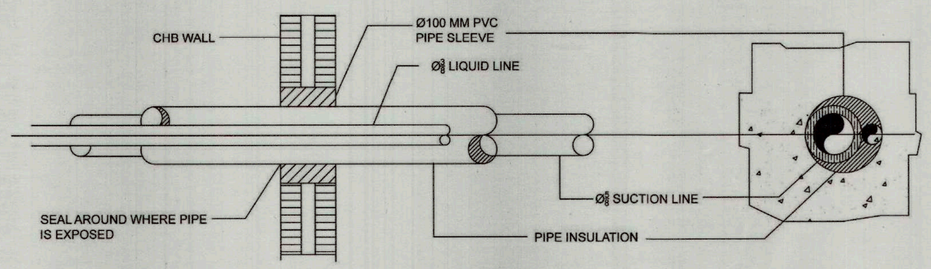
SCALE NTS.



SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

PIPE SLEEVE THRU WALL DETAIL

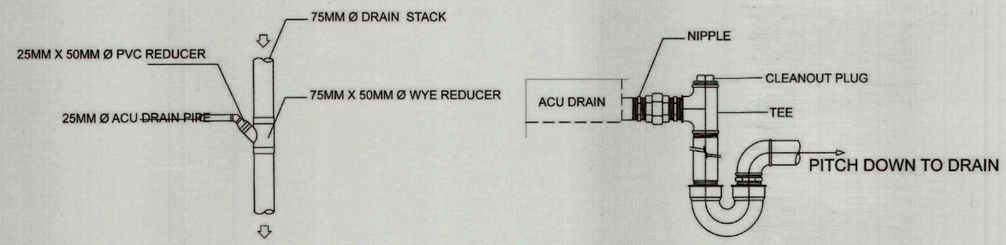
SCALE NTS.



SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

REFRIGERANT PIPE THRU WALL DETAIL

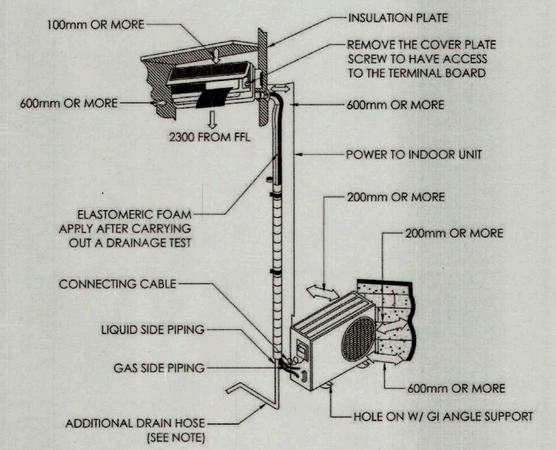
SCALE NTS.



SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

CONDENSATE DRAIN PIPE DETAILS

SCALE NTS.



SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

TYPICAL ACU SPLIT TYPE INSTALLATION

SCALE NTS.

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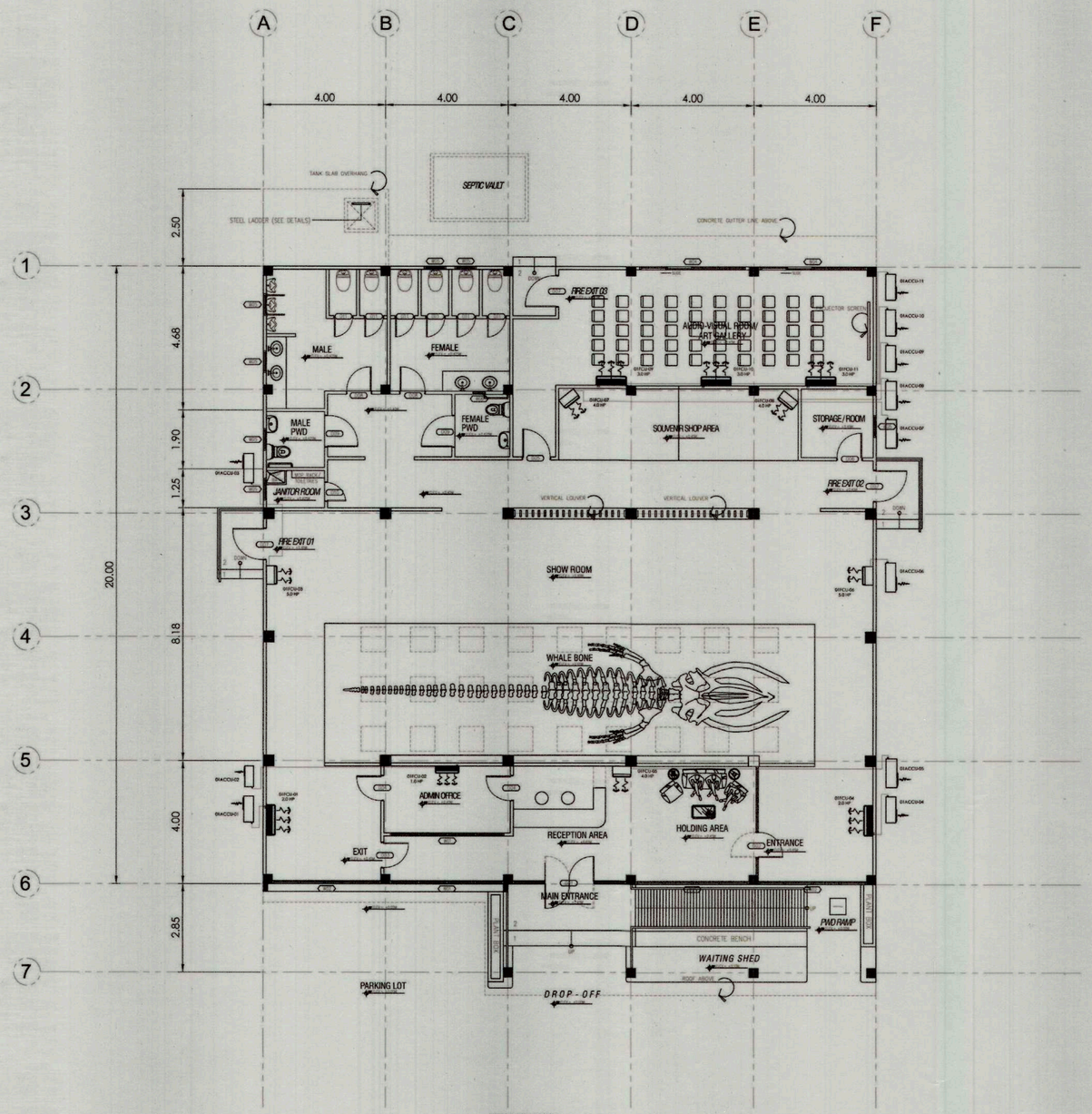
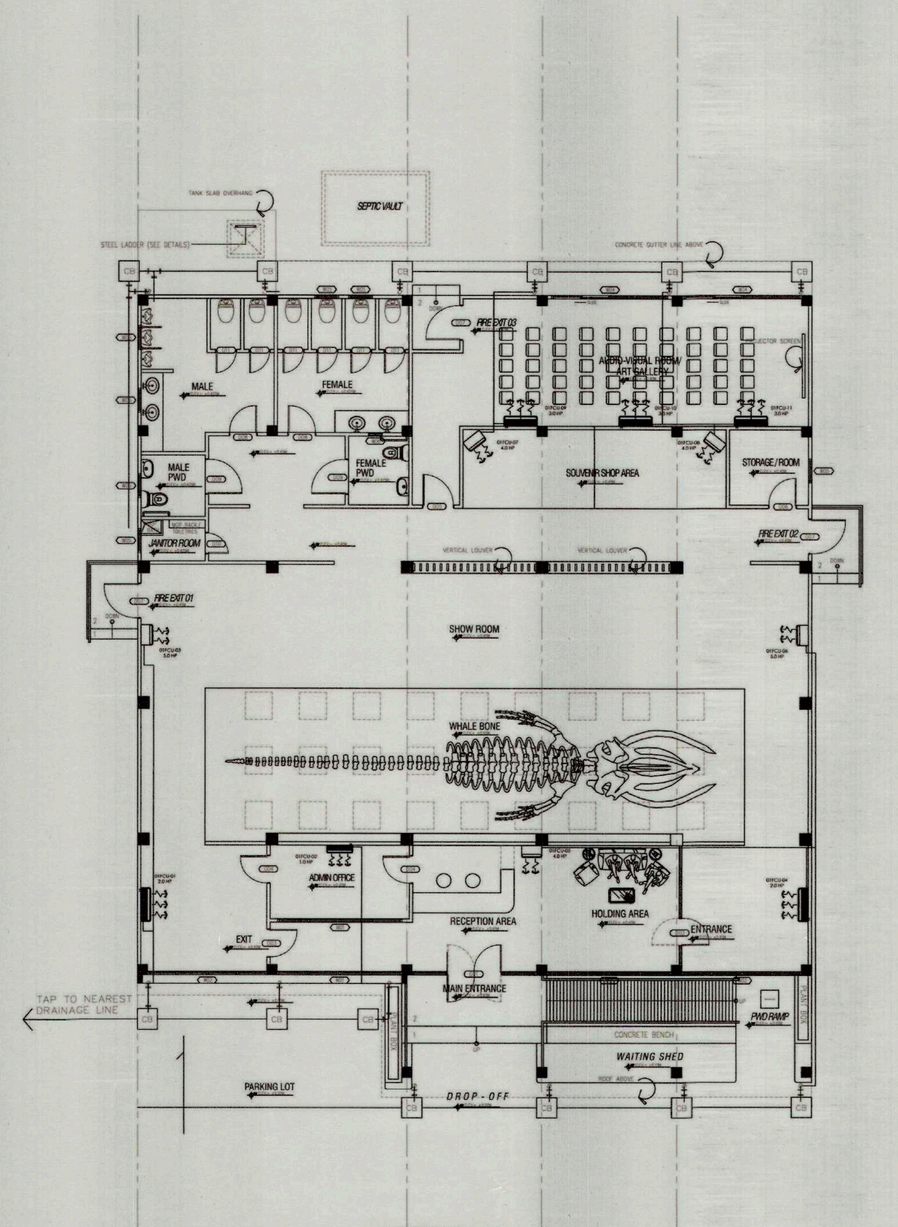
RF-25-01



SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

ACU LAYOUT PLAN

SCALE 1:100 M.



SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

ACU DRAIN LAYOUT PLAN

SCALE 1:100 M.

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RF-25-01

GENERAL NOTES:

1. ALL EQUIPMENTS SHALL BE INSTALLED IN APPROXIMATE LOCATION AS SHOWN ON THE DRAWINGS.

2. CONTRACTOR MUST SUBMIT SHOP DRAWINGS INDICATING ACTUAL EQUIPMENT DIMENSION AND OPERATING WEIGHTS.

3. ALL MATERIAL TO BE USED SHALL BE NEW.

4. ALL EQUIPMENT SHALL BE MOUNTED ON OR SUPPORTED BY VIBRATION ISOLATORS.

5. PIPES SHALL BE ANCHORED, PLUMB AND PARALLEL TO BUILDING LINES, PIPE HANGERS AND SUPPORTS SHALL BE INSTALLED AT 1.2 METERS ON CENTER, ALL PENETRATIONS THRU WALLS, FLOORS AND ROOF SHALL BE PROVIDED WITH PIPE SLEEVES. INSTALL 3MM THICK RUBBER BETWEEN PIPES AND SUPPORT TO ELIMINATE METAL TO METAL CONTACT.

6. ALL PIPING SHALL BE LEAK TESTED WITH A PRESSURE OF ATLEAST 1 ½ TIMES THE DESIGN PRESSURE.

7. ALL MATERIALS TO BE USED SHALL BE NEW AND CLEAN.

8. DEVIATIONS AND REVISIONS FROM THE PLANS SHALL BE REFFERED TO THE ARCHITECT OR ENGINEER IN CHARGE FOR REVIEW AND APPROVAL.

9. ALL WORKS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR DATE OF ACCEPTANCE.

INDOOR UNIT/OUTDOOR UNIT

DESIGNATION	COOLING CAPACITY		UNIT TYPE	ELECTRICAL DATA			REFRIGERANT PIPE		DIMENSION, mm, (HxWxD)	
	BTU/HR.	HP.		WATTS	VOLTS	PHASE	HIGH	LOW	INDOOR	OUTDOOR
01FCU-01/01ACCU-01	17.700	2.0	WALL MOUNTED	1,365	220-230	1	6.4mm	12.7mm	295 x 990 x 281	595 x 845 x 300
01FCU-02/01ACCU-02	8.500	1.0	WALL MOUNTED	960	220-230	1	6.4mm	9.5mm	285 x 770 x 242	550 x 675 x 284
01FCU-03/01ACCU-03	42.700	5.0	FLOORL MOUNTED	4,480	220-230	1	9.5mm	15.9mm	1850 x 600 x x350	990 x940 x 320
01FCU-04/01ACCU-04	17.700	2.0	WALL MOUNTED	1,365	220-230	1	6.4mm	12.7mm	295 x 990 x 281	595 x 845 x 300
01FCU-05/01ACCU-05	34.100	4.0	FLOORL MOUNTED	3,480	220-230	1	9.5mm	15.9mm	1850 x 600 x x350	695 x 930 x 350
01FCU-06/01ACCU-06	42.700	5.0	FLOORL MOUNTED	4,480	220-230	1	9.5mm	15.9mm	1850 x 600 x x350	990 x940 x 320
01FCU-07/01ACCU-07	34.100	4.0	FLOORL MOUNTED	3,480	220-230	1	9.5mm	15.9mm	1850 x 600 x x350	695 x 930 x 350
01FCU-08/01ACCU-08	34.100	4.0	FLOORL MOUNTED	3,480	220-230	1	9.5mm	15.9mm	1850 x 600 x x350	695 x 930 x 350
01FCU-09/01ACCU-09	24.200	3.0	WALL MOUNTED	2,230	220-230	1	6.4mm	15.9mm	295 x 990 x 281	595 x 845 x 300
01FCU-10/01ACCU-10	24.200	3.0	WALL MOUNTED	2,230	220-230	1	6.4mm	15.9mm	295 x 990 x 281	595 x 845 x 300
01FCU-11/01ACCU-11	24.200	3.0	WALL MOUNTED	2,230	220-230	1	6.4mm	15.9mm	295 x 990 x 281	595 x 845 x 300

SILAGO RIDGE TO REEF
ECO-EXPERIENCE PROJECT (SIRREEP)

EQUIPMENT SCHEDULE

SCALE NTS.

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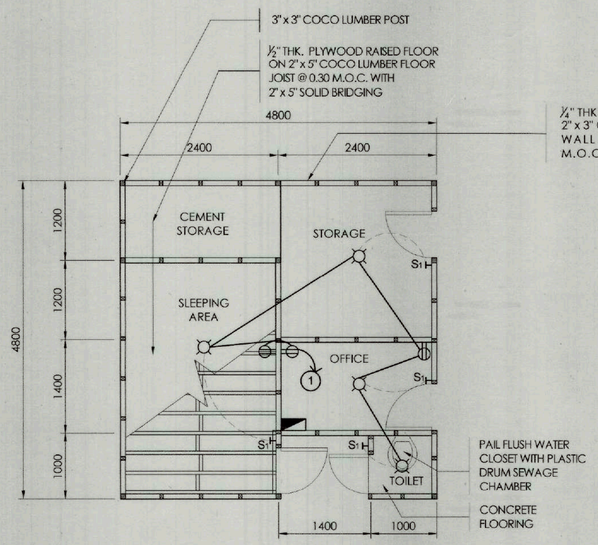
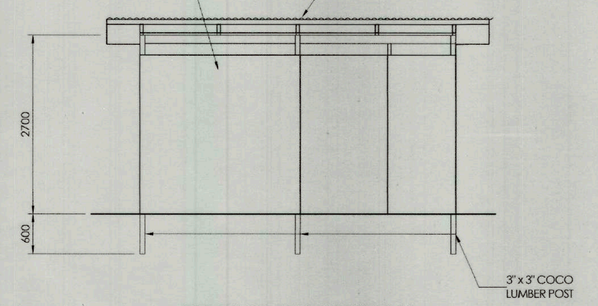


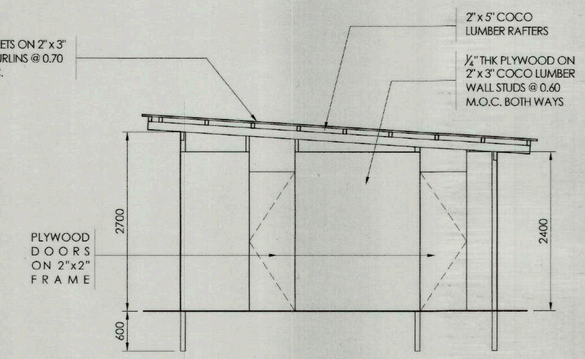
FLOOR PLAN

LEGEND:

- NO.12 TW WIRE FOR MAIN LINE
- NO. 14 TW WIRE FOR SWITCH
- SAFETY SWITCH 30A
- 25W LED BULB
- S1 ONE GANG SWITCH
- CONVENIENCE OUTLET



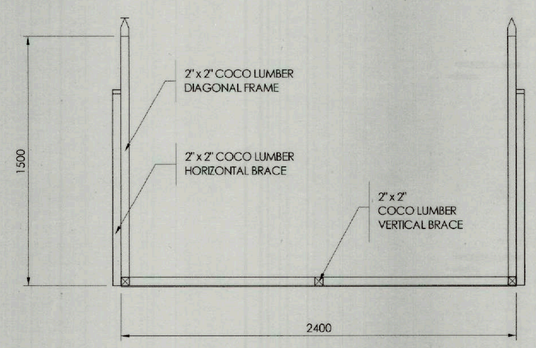
FRONT ELEVATION



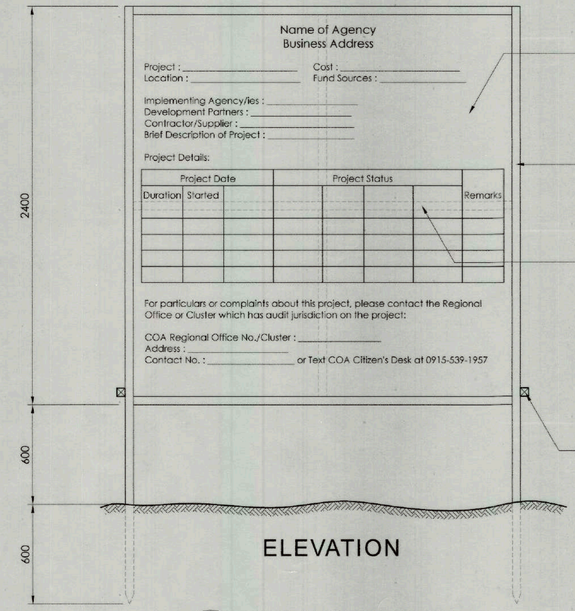
RIGHT SIDE ELEVATION

1 / TF-1 TEMPORARY BARRACKS

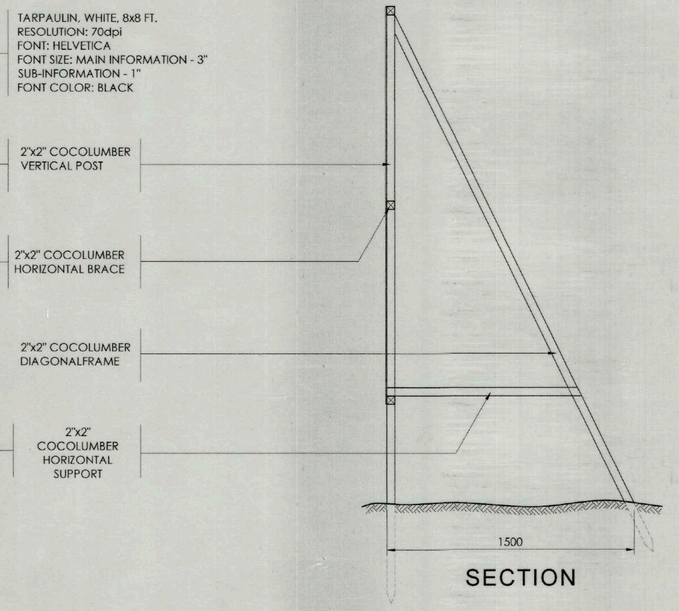
SCALE 1:50M



PLAN



ELEVATION



SECTION

2 / TF-1 PROJECT SIGNAGE

SCALE 1:20M

TIEZA TOURISM INFRASTRUCTURE AND ENTERPRISE ZONE AUTHORITY 6th & 7th FLR. TOWER 1 DOUBLE DRAGON PLAZA DOUBLE DRAGON MERIDIAN PARK, MACAPAGAL AVENUE CORNER EDSA EXTENSION BAY AREA PASAY CITY 1308	PROJECT TITLE/ LOCATION: **SILAGO RIDGE TO REEF ECO-EXPERIENCE PROJECT (SIRREEP): PROMOTING SUSTAINABILITY THROUGH ECO-HERITAGE TOURISM** LOCATION: SILAGO, SOUTHERN LEYTE	PROJECT EVALUATION AND PLANNING DEPARTMENT PREPARED BY: JORGE JR. B. POLINTAN DRAWN BY: DATE:	CHECKED BY: RADY E. ADAME MANAGER PROJECT PLANNING & DESIGN DIVISION	REVIEWED BY: JEOFFREY L. MACALALAD MANAGER PROJECT EVALUATION & PLANNING DEPARTMENT	RECOMMENDING APPROVAL: GREGORY A. OLLER ASSISTANT CHIEF OPERATING OFFICER ARCHITECTURAL & ENGINEERING SERVICES SECTOR	APPROVED BY: MARK T. LAPID CHIEF OPERATING OFFICER	SHEET CONTENTS: TEMPORARY BARRACKS PROJECT SIGNAGE REVISIONS:	R.A. 9266 THIS DRAWING AS INSTRUMENT OF SERVICE IS A PROPERTY OF TIEZA. IT SHALL BE UNLAWFUL TO DUPLICATE OR TO MAKE COPIES OF THIS DOCUMENT WITHOUT THE CONCENT OF TIEZA.	SHEET NO. TF 01 28 28

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