





**FDL Consult Inc**  
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### Drawings Register Sheet

Enclosed are copies of the documents listed below:

<b>Project Number:</b>	SLU-1510-S-027-GPF	<b>Sheet Number:</b>	-
<b>Document issued by:</b>	02nd Nov 2015	<b>Project Role:</b>	-
<b>Project Title:</b>		<b>Day</b>	
Design and Supervision of the Construction Greenhouse Park Facilities		<b>Month</b>	
		<b>Year</b>	

<b>Drawing Title:</b>	<b>Drawing Number</b>
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<b>Civil Drawings</b>	
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<b>Architectural Drawings</b>	
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Room Elevations (Lunch and Kitchenette)	A-13
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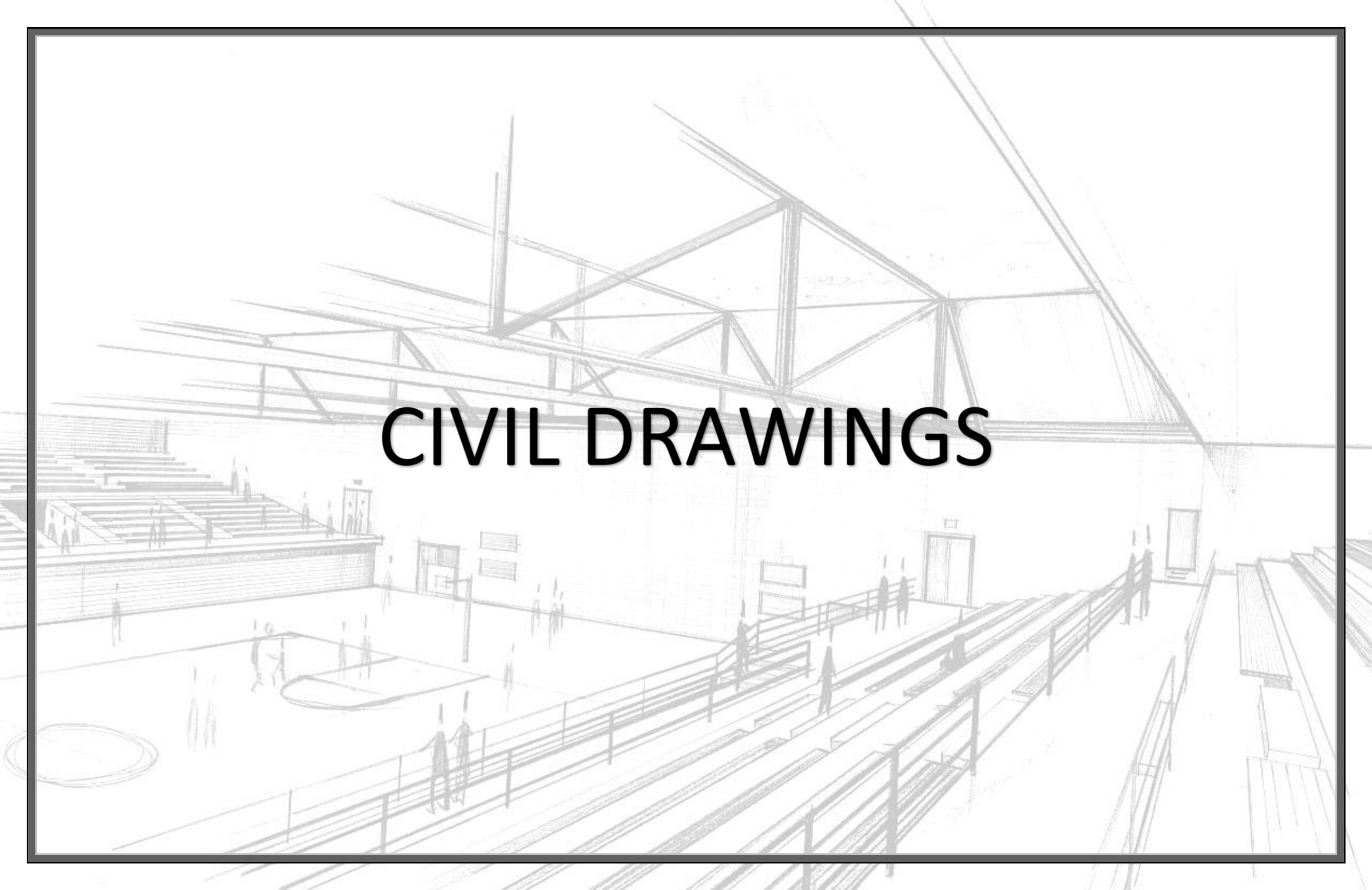
<b>Structural Drawings</b>	
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Foundation Layout and Details and Beam Layout	S-02
Ground and First Floor Reinforcement Layout and Foundation Details	S-03
Beam Cross Sections and Details	S-04
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Roof Layout and Details	S-06
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Richmond and Montreal- Ground Floor Parking Facility Building - Layout	E-03
Richmond and Montreal- First Floor Parking Facility & Utility Building -Power Layout	E-04
Richmond and Montreal - Panel Schematics	E-05

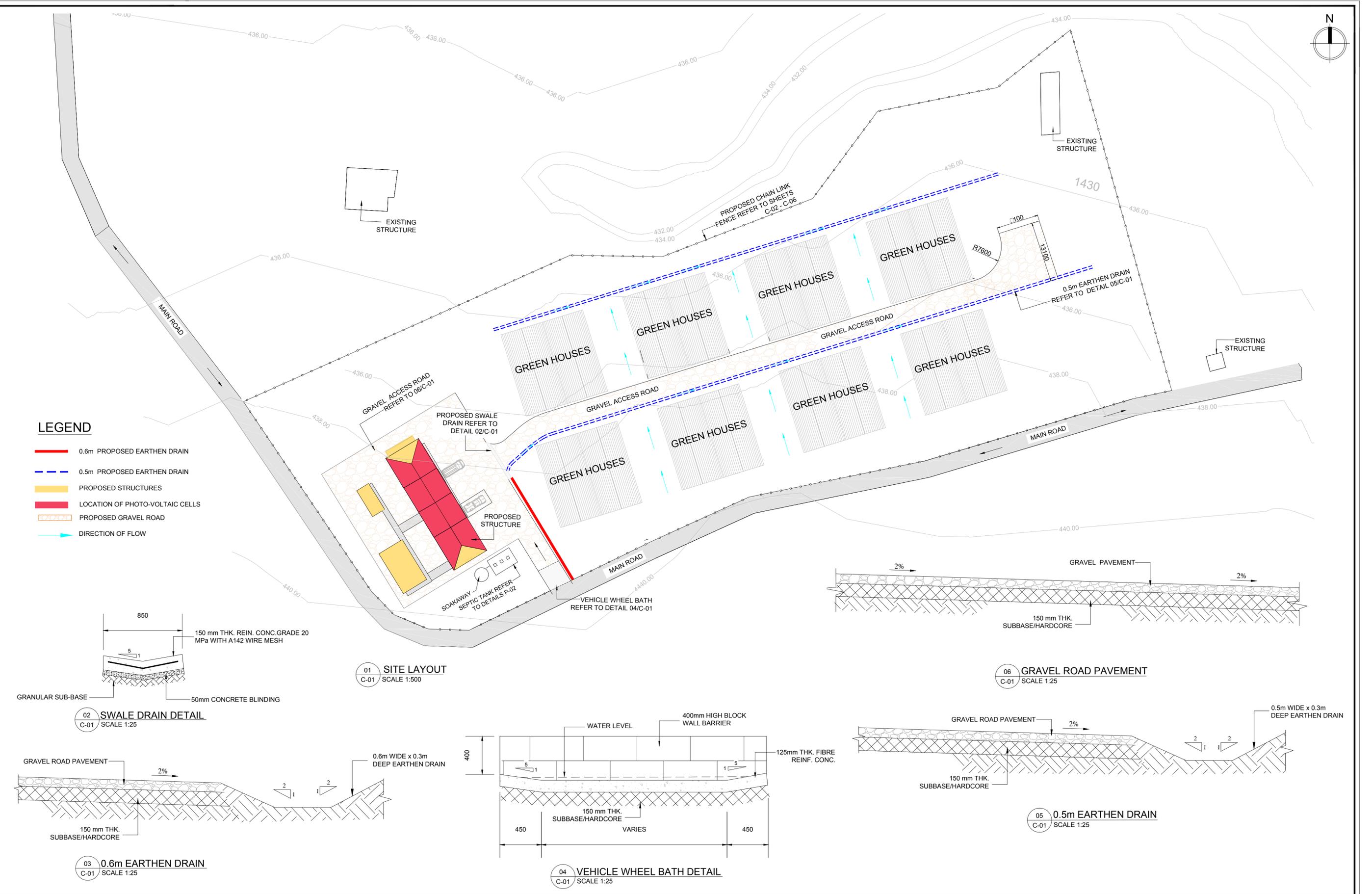
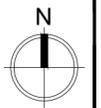
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<b>Organisation:</b>	
<b>Organisation Role:</b>	

<b>Purpose of Issue:</b>	
I - Information Issue	P - Preliminary Design Drawings
T - Tender Drawings	C - Contract Drawings

<b>Drawing Title:</b>	
E - Email	D - Digital Distribution
M - Registered Mail	U - Upload
H - Hardcopy	

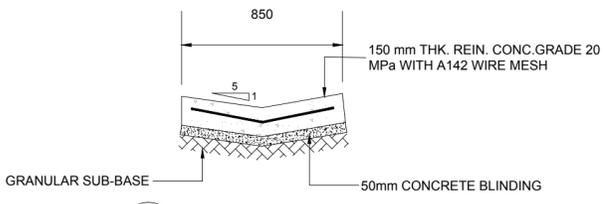
An architectural sketch of a gymnasium interior. The drawing shows a large hall with a high, vaulted ceiling supported by a complex steel truss system. In the foreground, there are rows of bleachers with a railing. In the middle ground, a basketball court is visible with several figures of people. The background shows a wall with windows and doors. The overall style is a light pencil or ink sketch.

# CIVIL DRAWINGS

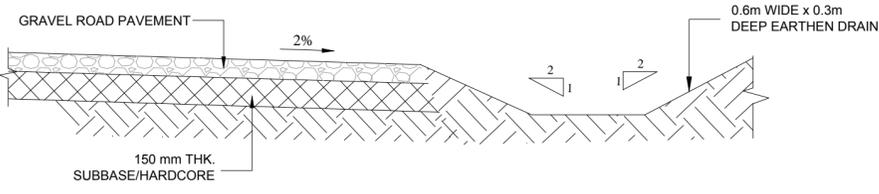


**LEGEND**

- 0.6m PROPOSED EARTHEN DRAIN
- - - 0.5m PROPOSED EARTHEN DRAIN
- PROPOSED STRUCTURES
- LOCATION OF PHOTO-VOLTAIC CELLS
- PROPOSED GRAVEL ROAD
- DIRECTION OF FLOW

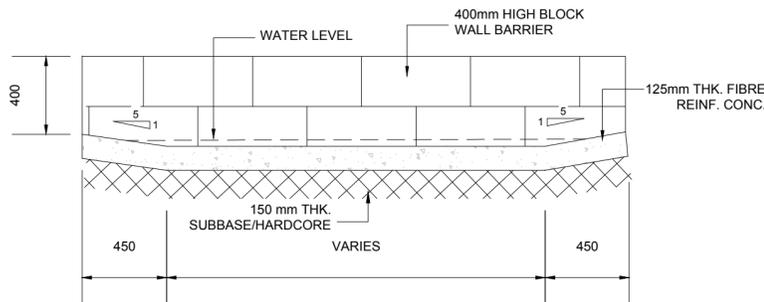


**02 SWALE DRAIN DETAIL**  
C-01 SCALE 1:25

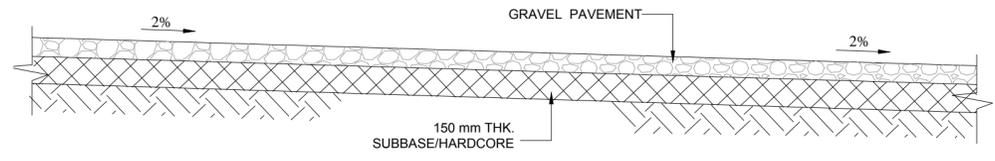


**03 0.6m EARTHEN DRAIN**  
C-01 SCALE 1:25

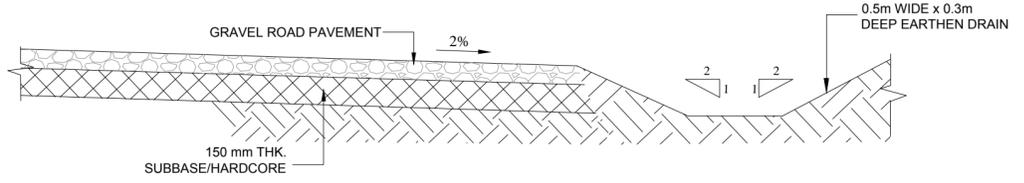
**01 SITE LAYOUT**  
C-01 SCALE 1:500



**04 VEHICLE WHEEL BATH DETAIL**  
C-01 SCALE 1:25



**06 GRAVEL ROAD PAVEMENT**  
C-01 SCALE 1:25



**05 0.5m EARTHEN DRAIN**  
C-01 SCALE 1:25

REVISIONS					
ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED

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DRAWN BY:	LYNDELL ST JUSTE	LS
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APPROVED:	GILBERT FONTENARD	GF
ISSUED DATE:	OCTOBER 2015	
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**CLIENT TITLE**  
**GOVERNMENT OF ST. VINCENT AND THE GRENADINES**  
 MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION



**JOB TITLE**  
 DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES

**TYPE OF DRAWING**  
 DESIGN DRAWINGS

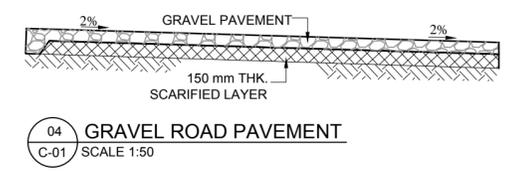
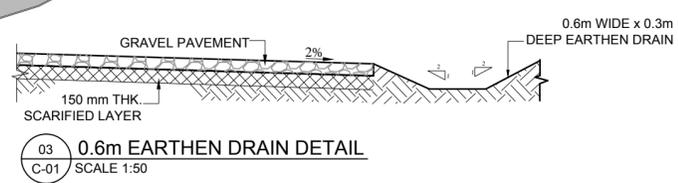
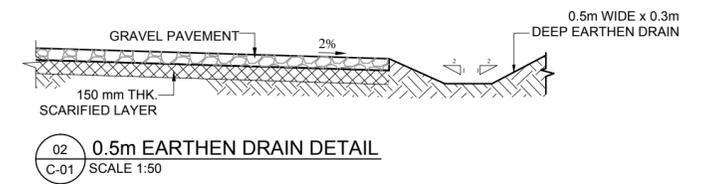
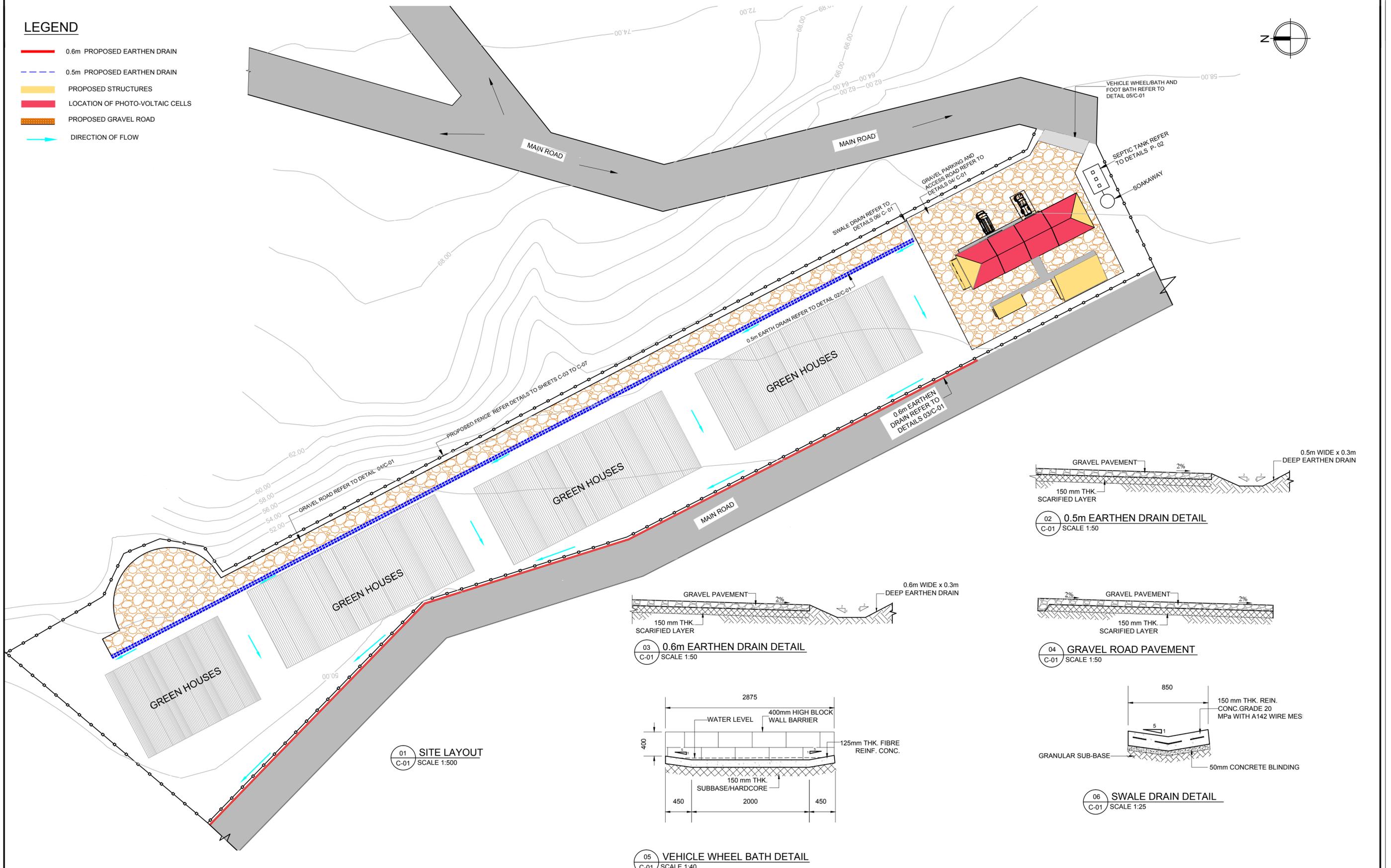
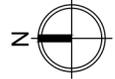


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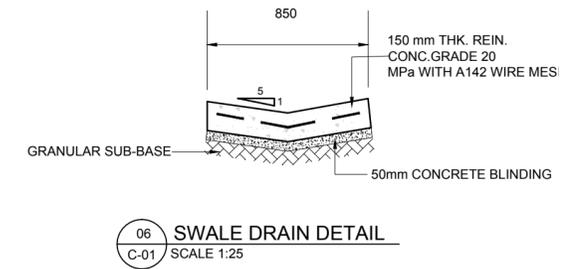
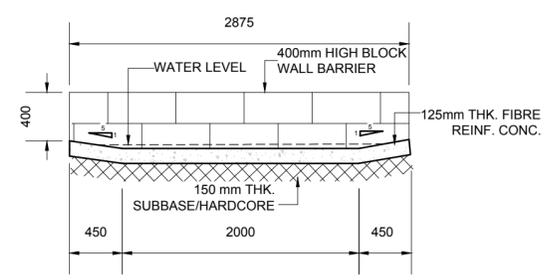
<b>DRAWING TITLE</b> MONTREAL - SITE LAYOUT AND DETAILS	
<b>SCALE</b> AS SHOWN	<b>SIZE</b> A2
<b>DRAWING NO</b> SLU -1510-S-027-GPF	<b>SHEET</b> C-01

**LEGEND**

- 0.6m PROPOSED EARTHEN DRAIN
- - - 0.5m PROPOSED EARTHEN DRAIN
- PROPOSED STRUCTURES
- LOCATION OF PHOTO-VOLTAIC CELLS
- PROPOSED GRAVEL ROAD
- DIRECTION OF FLOW



**01 SITE LAYOUT**  
C-01 SCALE 1:500



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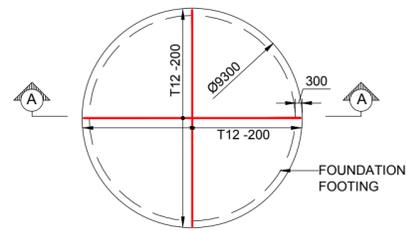
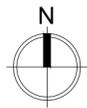
DESIGNER:	FDL CONSULT INC.	FDL
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APPROVED:	GILBERT FONTENARD	GF
ISSUED DATE:	OCTOBER 2015	
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CLIENT TITLE	<b>GOVERNMENT OF ST. VINCENT AND THE GRENADINES</b> MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION
JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES
TYPE OF DRAWING	DESIGN DRAWINGS

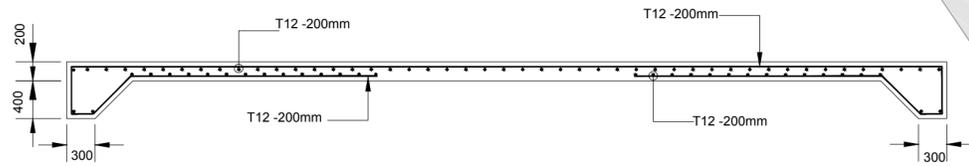
		<b>FDL Consult Inc.</b> P.O. Box 1803 GOODLANDS CASTRIES ST. LUCIA Tel. (758) 457 6400 Fax. (758) 453 7048 email: fdl@fdlconsultinc.com website: www.fdlconsultinc.com	
DRAWING TITLE		RICHMOND SITE LAYOUT AND DETAILS	
SCALE	SIZE	DRAWING NO	SHEET
AS SHOWN	A2	SLU -1510-S-027-GPF	C-01

**LEGEND**

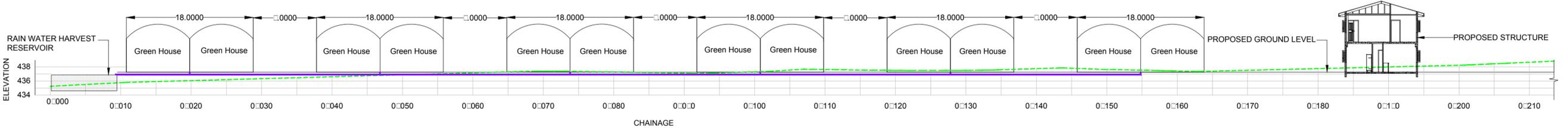
- PROPOSED STRUCTURES
- 75mm UNDERGROUND RAINWATER HARVEST SUPPLY LINE
- 50mm FERTIGATION SUPPLY LINE
- DIRECTION OF FLOW
- DIRECTION OF FLOW
- EXISTING GROUND PROFILE



02 RESERVOIR BASE REINFORCEMENT LAYOUT  
C-02 SCALE 1:200



03 RESERVOIR BASE SECTION A-A  
C-02 SCALE 1:50



04 TYPICAL LONGITUDINAL SECTION THROUGH GREEN HOUSES  
C-02 SCALE 1:400

01 MONTREAL – RAIN WATER HARVESTING AND IRRIGATION  
C-02 SCALE 1:500

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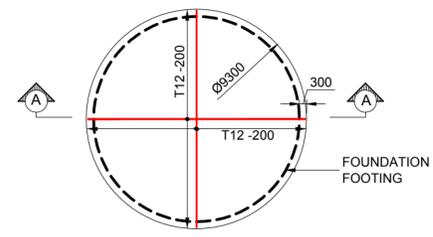
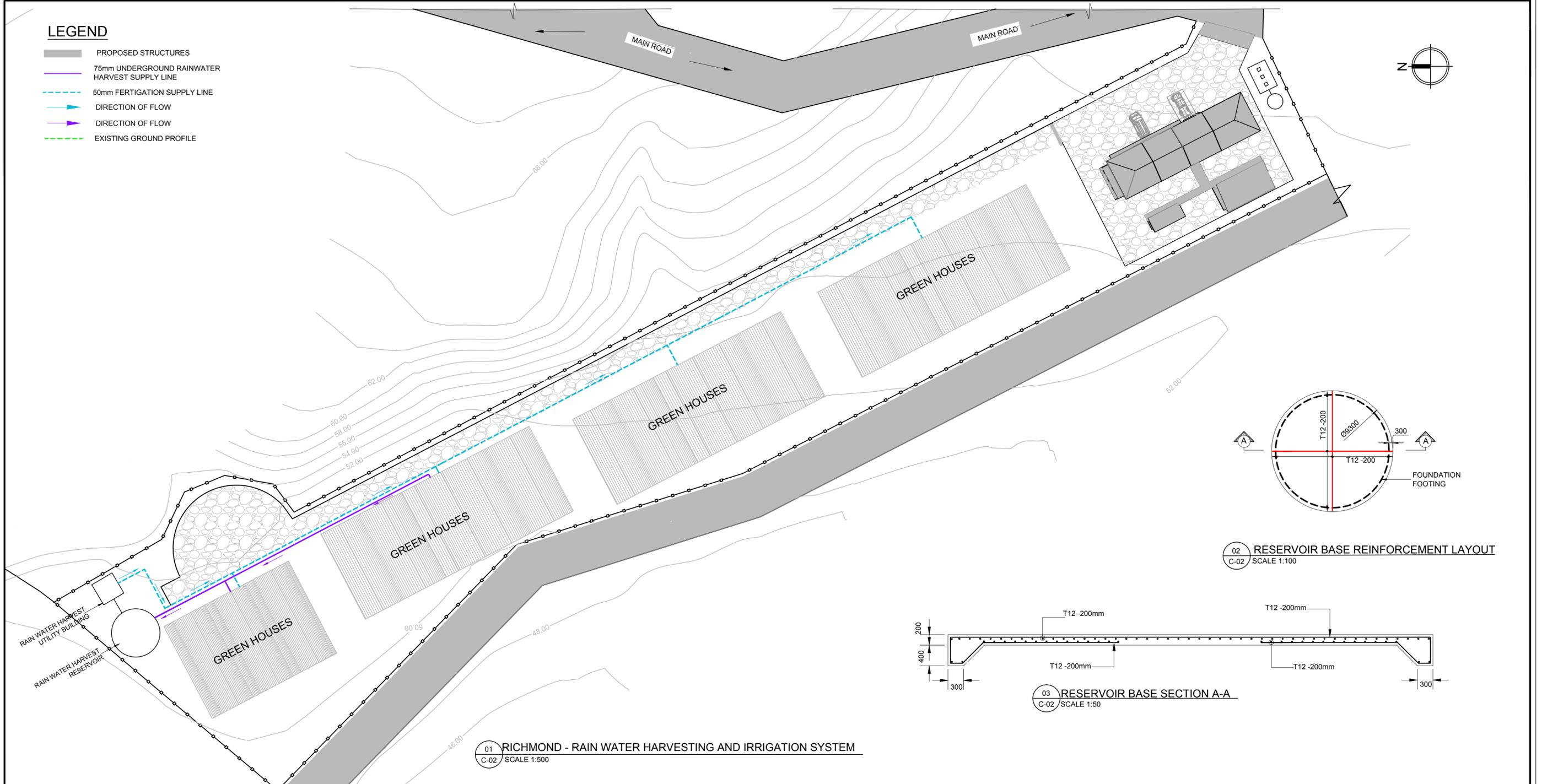
DESIGNER:	FDL CONSULT INC.	FDL
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	<b>TYPE OF DRAWING</b>	DESIGN DRAWINGS

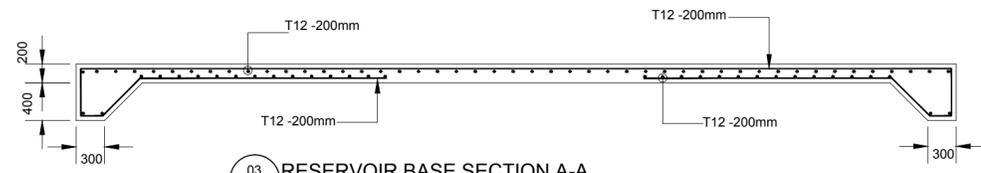
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	<b>SCALE</b>	AS SHOWN	<b>SHEET</b>

**LEGEND**

-  PROPOSED STRUCTURES
-  75mm UNDERGROUND RAINWATER HARVEST SUPPLY LINE
-  50mm FERTIGATION SUPPLY LINE
-  DIRECTION OF FLOW
-  DIRECTION OF FLOW
-  EXISTING GROUND PROFILE

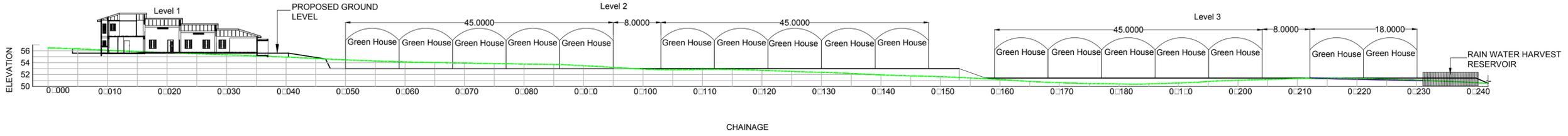


02 RESERVOIR BASE REINFORCEMENT LAYOUT  
C-02 SCALE 1:100



03 RESERVOIR BASE SECTION A-A  
C-02 SCALE 1:50

01 RICHMOND - RAIN WATER HARVESTING AND IRRIGATION SYSTEM  
C-02 SCALE 1:500



04 RICHMOND - RAIN WATER HARVESTING AND IRRIGATION SYSTEM  
C-02 SCALE 1:500

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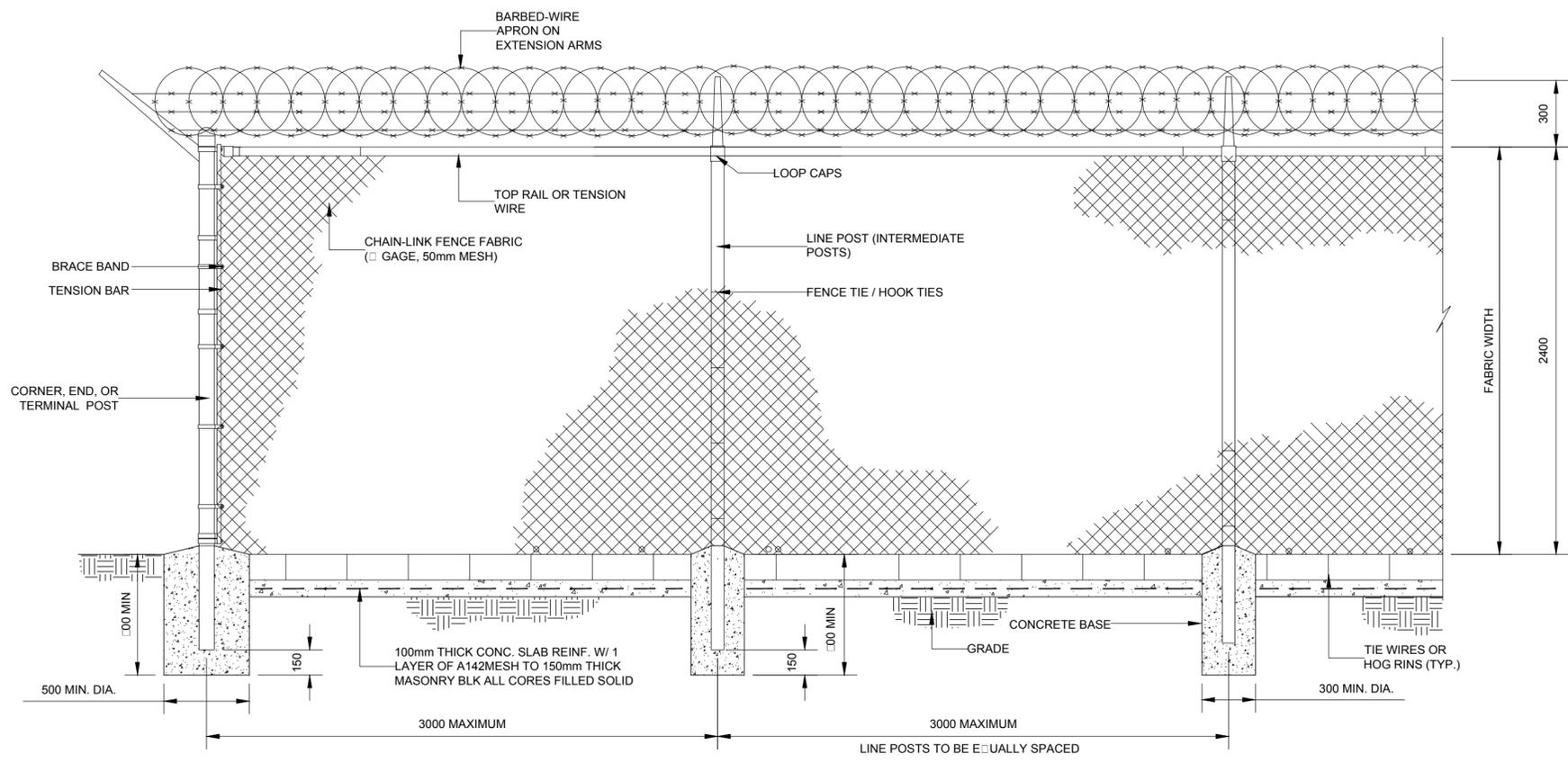
**JOB TITLE**  
 DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES

**TYPE OF DRAWING**  
 DESIGN DRAWINGS

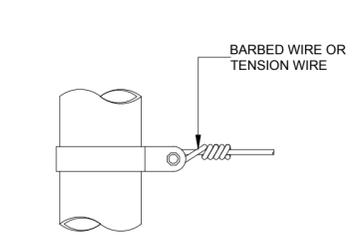


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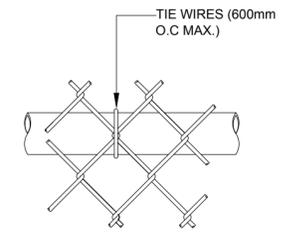
<b>DRAWING TITLE</b> RICHMOND - RAIN WATER HARVESTING AND IRRIGATION SYSTEM		<b>DRAWING NO</b> SLU -1510-S-027-GPF	<b>SHEET</b> C-02
<b>SCALE</b> AS SHOWN	<b>SIZE</b> A2		



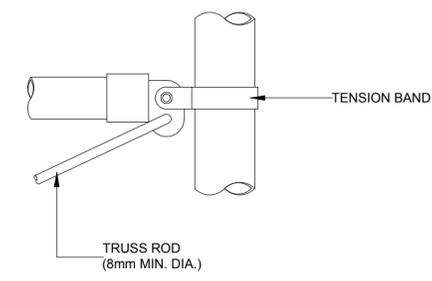
01 CHAIN-LINK SECURITY FENCE DETAIL  
C-03 SCALE: N.T.S



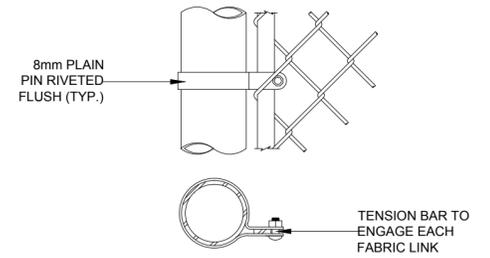
02 TENSION BAND  
C-03 SCALE: N.T.S



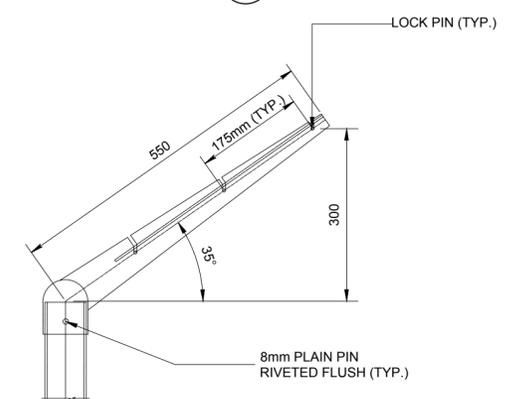
03 TOP RAIL ATTACHMENT  
C-03 SCALE: N.T.S



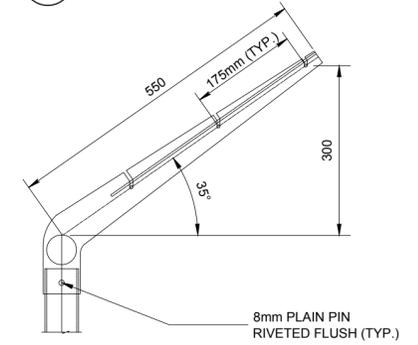
04 ROUND POST  
C-03 SCALE: N.T.S



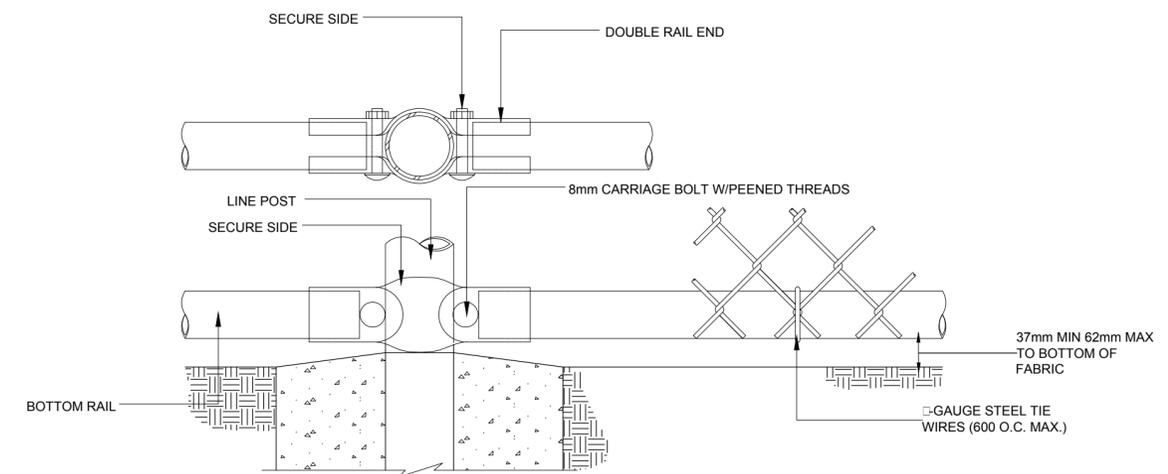
05 END OR GATE POST DETAIL  
C-03 SCALE: N.T.S



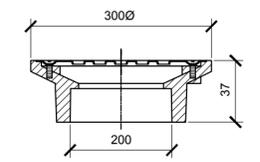
06 CHAIN-LINK SECURITY FENCE DETAIL  
C-03 SCALE: N.T.S



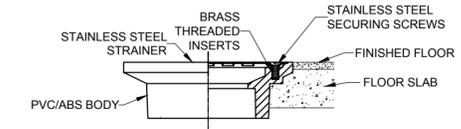
07 EXTENSION ARM DETAIL-LINE POST  
C-03 SCALE: N.T.S



08 BOTTOM RAIL DETAIL  
C-03 SCALE: N.T.S



09 FLOOR DRAIN DETAIL  
C-03 SCALE: N.T.S



10 FLOOR DRAIN DETAIL  
C-03 SCALE: N.T.S

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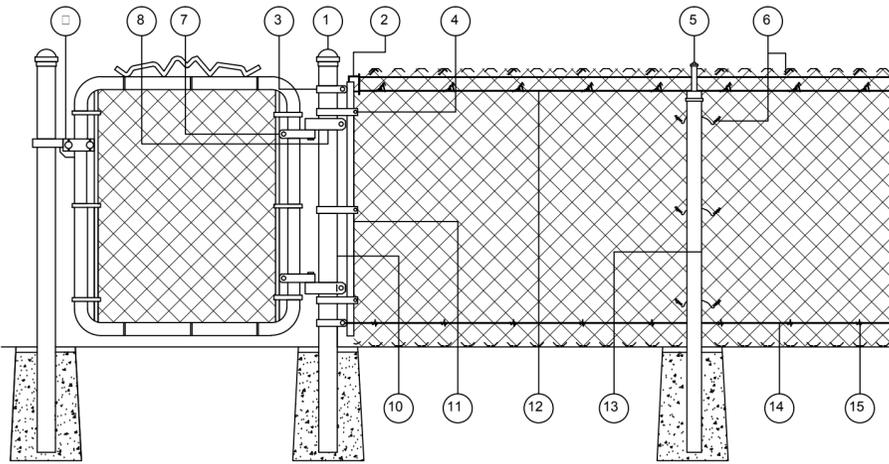
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APPROVED:	GILBERT FONTENARD	GF
ISSUED DATE:	OCTOBER 2015	
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CLIENT TITLE	GOVERNMENT OF ST.VINCENT AND THE GRENADINES	
	MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION	
JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES	
TYPE OF DRAWING	DESIGN DRAWINGS	

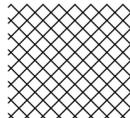
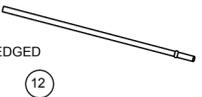
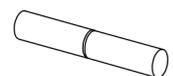
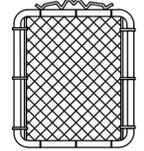
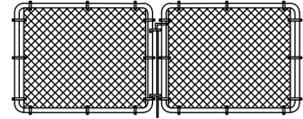
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DRAWING TITLE	CHAIN LINK FENCING DETAILS 1		
SCALE	SIZE	DRAWING NO	SHEET
N.T.S	A2	SLU-1510-S-027-GPF	C-03

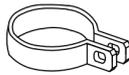
**PARTS LIST**



- |                     |                    |                       |
|---------------------|--------------------|-----------------------|
| ① TERMINAL POST CAP | ⑥ FENCE TIE        | ⑪ TENSION BAR         |
| ② RAIL END          | ⑦ GATE FRAME HINGE | ⑫ TOP RAIL            |
| ③ RAIL END BAND     | ⑧ GATE POST HINGE  | ⑬ LINE POST           |
| ④ TENSION BAND      | ⑨ GATE FORK LATCH  | ⑭ BOTTOM TENSION WIRE |
| ⑤ LINE POST TOP     | ⑩ TERMINAL POST    | ⑮ TENSION WIRE CLIP   |

**PARTS DESCRIPTION**

- CHAIN-LINK FABRIC  SAME LINEAR FOOTAGE TO FENCE LESS GATE OPENINGS
- TERMINAL POST (END, CORNER AND GATE POSTS)  AS REQUIRED (2 FOR EACH GATE)
- LINE POST TOP INTERMEDIATE POST  DIVIDE THE TOTAL FOOTAGE OF YOUR FENCE (LESS GATE OPENINGS) BY 10 AND SUBTRACT 1. 1 SUBTRACT 1 ADDITIONAL LINE POST FOR EACH CORNER POST USED SPACE LINE POSTS EQUIDISTANT AT INTERVALS NOT EXCEEDING 3 METERS
- TOP RAIL (PLAIN OR SWEDGED END)  SAME LINEAR FOOTAGE AS FENCE FABRIC
- TOP RAIL SLEEVE  1 FOR EACH LENGTH OF PLAIN TOP RAIL. NOT NEEDED FOR SWEDGED END TOP RAIL
- TENSION BAR  1 FOR EACH END POST  
1 FOR EACH GATE POST  
1 FOR EACH CORNER POST
- SINGLE SWING GATE  INDIVIDUAL FITTINGS AS INDICATED BELOW
- DOUBLE SWING GATE  INDIVIDUAL FITTINGS AS INDICATED BELOW
- TERMINAL POST CAP  1 FOR EACH TERMINAL POST
- LINE POST TOP  1 FOR EACH LINE POST

- RAIL END  1 FOR EACH END POST  
1 FOR EACH GATE POST  
1 FOR EACH CORNER POST
- RAIL END BAND  1 FOR EACH RAIL END
- TENSION BAND  FOR EACH END POST, USE 3 FOR 75mm, 1050mm OR 1200. USE 4 EACH FOR 1500mm, AND USE 5 EACH FOR 1800mm. SAME FOR GATE POSTS. DOUBLE THE QUANTITY FOR CORNER POSTS.
- GATE POST HINGE  2 FOR SINGLE SWING GATE  
4 FOR DOUBLE SWING GATE
- GATE FRAME HINGE  2 FOR SINGLE SWING GATE  
4 FOR DOUBLE SWING GATE
- GATE FORK LATCH  1 FOR EACH SINGLE SWING GATE
- FENCE TIE  1 FOR EVERY 600mm OF TOP RAIL AND 1 FOR EVERY 300mm OF LINE POST
- 7mm x 30mm CARRIAGE BOLT  1 FOR EACH RAIL END  
1 FOR EACH TENSION BAND
- 10mm x 50mm CARRIAGE BOLT  1 FOR EACH GATE FRAME HINGE
- 10mm x 75mm CARRIAGE BOLT  1 FOR EACH GATE POST HINGE
- BOTTOM TENSION WIRE  SAME LINEAR FOOTAGE TO FENCE LESS GATE OPENINGS
- TENSION WIRE CLIP  FOR EVERY 600mm OF TENSION WIRE
- CONCRETE MIX  APPROXIMATELY TWO 27.3 KG SACK PER POST HOLE

**USEFUL TOOLS**

- |   |   |
|---|---|
| STRING OR CHALK LINE AND STAKES                           | 12mm AND 14mm WRENCH OR CRESCENT WRENCH |
| TAPE MEASURE  | HACKSAW OR PIPE CUTTER                  |
| POST HOLE DIGGER  | FENCE STRETCHER                         |
| WHEELBARROW, SHOVEL AND HOE TO MIX AND TRANSPORT CONCRETE | PLIERS                                  |
| CARPENTER'S LEVEL   | TENSION WIRE CLIP (HOG RING) PLIERS     |

**REVISIONS**

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**CLIENT TITLE**  
  
**GOVERNMENT OF ST. VINCENT AND THE GRENADINES**  
 MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION

**JOB TITLE**  
 DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES

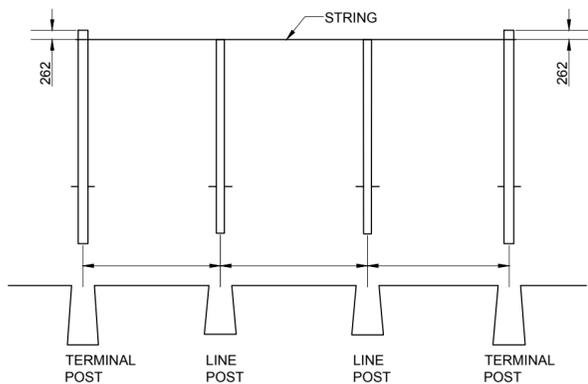
**TYPE OF DRAWING**  
 DESIGN DRAWINGS

  
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**DRAWING TITLE**  
 CHAIN LINK FENCING DETAILS 2

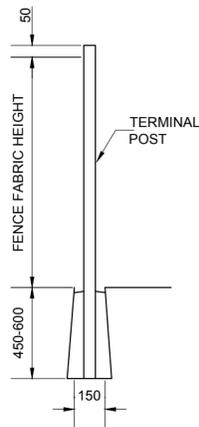
SCALE	SIZE	DRAWING NO	SHEET
NTS	A2	SLU-1510-S-027-GPF	C-04

**STEP 1**  
WHEN THE TERMINAL POST FOOTINGS HAVE HARDENED ENOUGH TO STABILIZED THE POSTS, STRETCH A STRING SHOULD BE POSITIONED ON THE OUTSIDE THE FACE OF THE POSTS 100mm BELOW THE TOP (FIG. 3). HEIGHT, ABOVE LEVEL GROUND, OF LINE POSTS WILL EQUAL THE HEIGHT OF THE FABRIC MINUS 50mm.



**01 LOCATING AND SETTING LINE POLES**  
C-05 SCALE: N.T.S

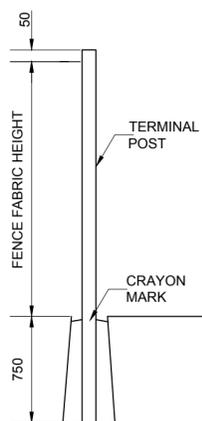
**STEP 2**  
MEASURE THE DISTANCE BETWEEN TERMINAL POSTS AND REFER TO POST SPACING CHART TO DETERMINE THE DISTANCE BETWEEN LINE POSTS. DIG LINE POST HOLES 150mm WIDE AND 450mm TO 600mm DEEP, WITH SLOPING SIDES. CENTRE THE LINE POSTS IN HOLES. MAKE SURE THE POSTS ARE PLUMB, ALIGNED WITH THE CENTERS OF TERMINAL POSTS, AND SET AT THE CORRECT HEIGHT. SURROUND POSTS WITH CONCRETE IN A CONTINUOUS POUR. TROWEL FINISH AROUND POSTS AND SLOPE DOWNWARD TO DIRECT WATER AWAY.



**STEP 1**  
DIG TERMINAL POST HOLES APPROXIMATELY 200mm IN DIAMETER AND 750mm DEEP, WITH SLOPING SIDES. THE EXACT DIAMETER AND DEPTH WILL BE DETERMINED BY LOCAL WEATHER AND SOIL CONDITIONS.

**STEP 2**  
WITH CRAYON OR CHALK, MARK THE GROUND LINE ON POSTS. HEIGHT, ABOVE LEVEL GROUND, OF TERMINAL POSTS WILL EQUAL THE HEIGHT OF THE FENCE FABRIC PLUS 50mm.

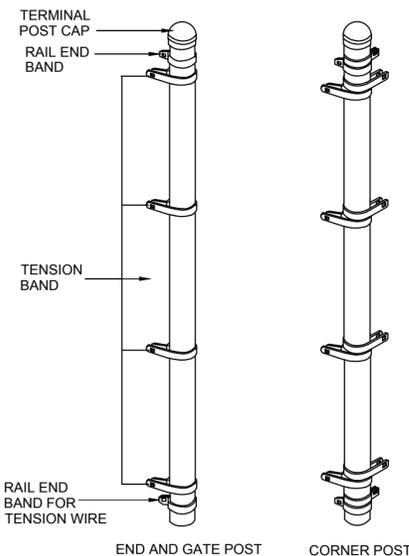
**STEP 3**  
CENTER THE TERMINAL POSTS IN THE HOLES. MAKE SURE THE POSTS ARE PLUMB AND SET AT THE CORRECT HEIGHT. (CRAYON MARK SHOULD BE AT GROUND LEVEL.). SURROUND POSTS WITH CONCRETE IN A CONTINUOUS POUR. TROWEL FINISH AROUND POSTS AND SLOPE DOWNWARD TO DIRECT WATER AWAY.



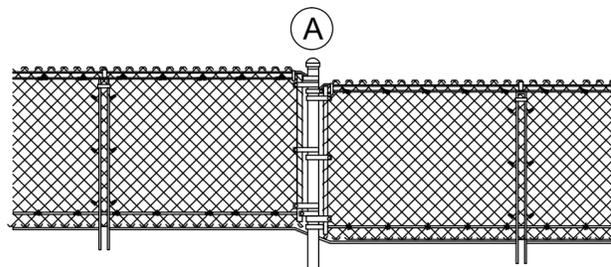
**02 SETTING TERMINAL POSTS**  
C-05 SCALE: N.T.S

**STEP 1**  
AFTER CONCRETE FOOTINGS HAVE BEEN ALLOWED TO SUFFICIENTLY HARDEN, SLIP THE RAIL END BANDS AND TENSION BANDS ONTO THE TERMINAL POSTS. (REFER TO PARTS LIST FOR THE DESCRIPTION AND QUANTITY OF FITTINGS THAT ARE REQUIRED FOR VARIOUS POST TYPES AND HEIGHTS). THE LONG FLAT SURFACE OF THE TENSION BAND SHOULD FACE TOWARD THE OUTSIDE OF THE FENCE

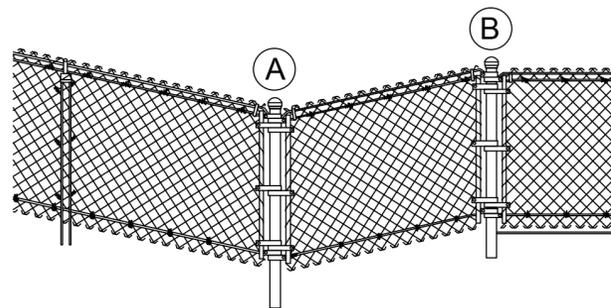
**STEP 2**  
APPLY ALL TERMINAL POST CAPS.



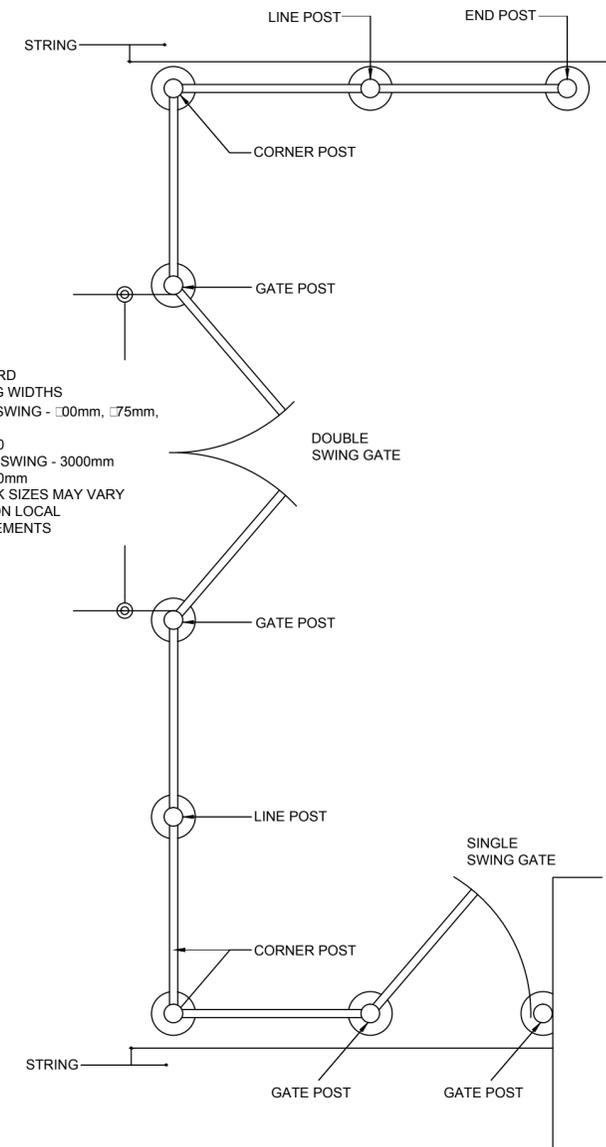
TERRACED GROUND CORNER POST ASSEMBLY IS USED AT A POINT A TO ALLOW FABRIC TO FOLLOW TERRACED CONTOUR OF GROUND.



VERY UNEVEN GROUND CORNER POST ASSEMBLY IS USED AT POINTS A AND B WHEN GROUND RISES OR DROPS MORE THAN 375mm PER 30.5 METERS.



**03 ADDING FITTINGS TO TERMINAL POSTS**  
C-05 SCALE: N.T.S



STANDARD OPENING WIDTHS  
SINGLE SWING - 100mm, 125mm, 1050mm  
AND 1200  
DOUBLE SWING - 3000mm  
AND 3600mm  
IN STOCK SIZES MAY VARY  
BASED ON LOCAL REQUIREMENTS

**STEP 1**  
LOCATE YOUR PROPERTY LINES. IT IS RECOMMENDED THAT ALL POSTS BE SET APPROXIMATELY 100mm INSIDE THE PROPERTY LINE SO THAT CONCRETE FOOTINGS DO NOT ENCROACH ONTO ANY ADJOINING PROPERTY.

**STEP 2**  
MEASURE THE OVERALL LENGTH OF EACH OF YOUR PLANNED FENCE TO DETERMINE HOW MANY FEET OF CHAIN-LINK FABRIC AND TOP RAIL BE REQUIRED.

**STEP 3**  
MARK THE LOCATION OF EACH TERMINAL POST (CORNER, END, AND GATE POST ARE CALLED TERMINAL POSTS) WITH A STAKE.

WHEN DETERMINING THE POSITIONS OF GATE POSTS REMEMBER THAT CLEARANCE FOR HINGES, LATCHES, ETC. IS INCLUDED IN THE LISTED OPENING WIDTH OF THE GATE. THEREFORE, IF YOU ORDERED A GATE FOR A 100mm OPENING THE POST SPACING SHOULD BE EXACTLY 100mm, INSIDE POST FACE TO INSIDE POST FACE.

**04 PREPARE FENCE LAYOUT**  
C-05 SCALE: N.T.S

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JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES
TYPE OF DRAWING	DESIGN DRAWINGS



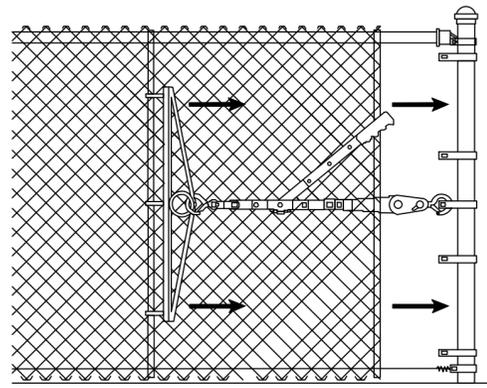
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DRAWING TITLE	CHAIN LINK FENCING DETAILS 3		
SCALE	SIZE	DRAWING NO	SHEET
N.T.S	A2	SLU-1510-S-027-GPF	C-05

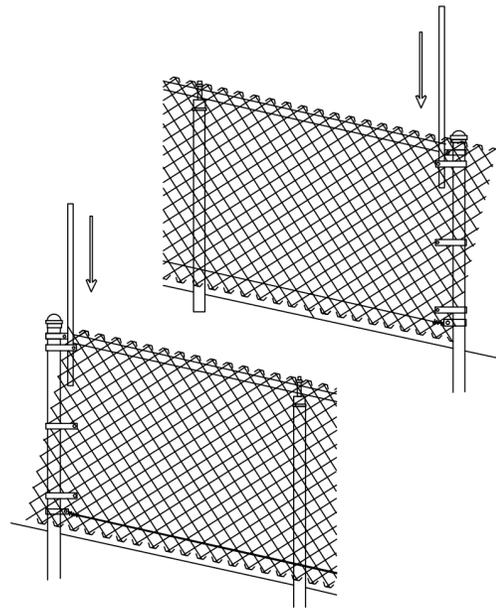
**STEP 1**  
TEMPORARILY INSERT A TENSION BAR ABOUT 100mm INSIDE THE UNATTACHED END OF THE FABRIC. SECURELY FASTEN ONE END OF THE FENCE STRETCHER TO THE TENSION BAR AND THE OTHER END OF THE TERMINAL POST (FIG. 17). STRETCH THE OTHER END TO THE TERMINAL. THE CORRECT FABRIC TENSION SHOULD ALLOW A SLIGHT AMOUNT OF GIVE WHEN SQUEEZED BY HAND. REMOVE THE TEMPORARY TENSION BAR.

**STEP 2**  
ADJUST THE FABRIC TO THE EXACT LENGTH BY ADDING OR REMOVING WIRE AS SHOWN IN FIGURES 15 AND 16. INSERT A TENSION BAR AT THE END OF THE FABRIC AND CONNECT TO TENSION BANDS ON TERMINAL POST.

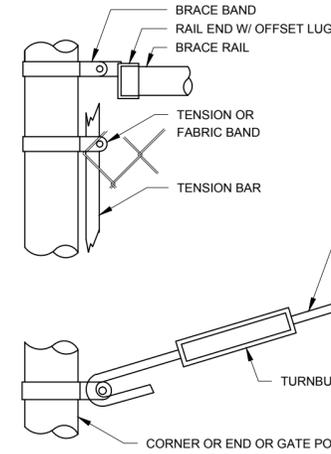
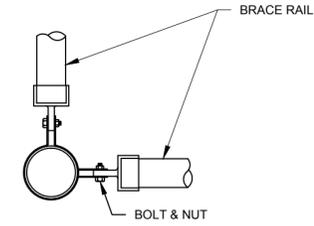
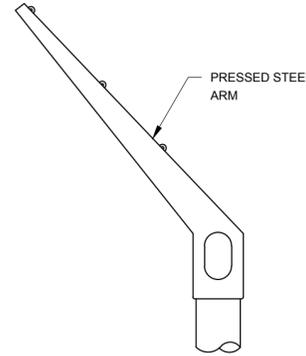
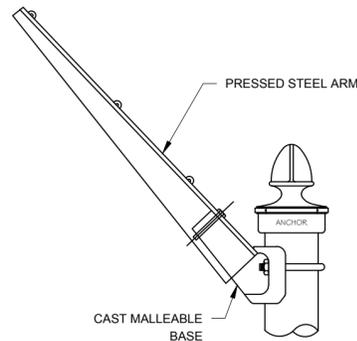
HILLSIDE STRETCH -BIAS CUTTING (IF NECESSARY)



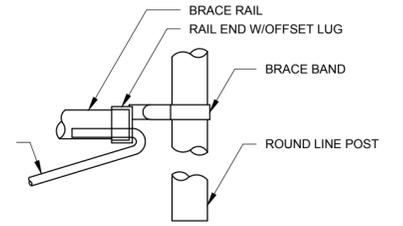
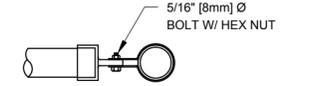
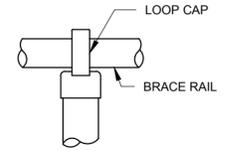
IF THE TOP OF THE CHAIN-LINK FABRIC DOES NOT CREATE A RIGHT ANGLE TO THE TERMINAL POST, THE FABRIC MUST BE CUT ON A BIAS SO THAT THE TENSION BAR CAN SLIDE INTO THE FABRIC AT THE PROPER ANGLE. PULL THE CHAIN-LINK FABRIC UNTIL THE TOP OR BOTTOM, WHICHEVER IS THE SHORTEST, REACHES THE TERMINAL POST. THE OTHER CORNER OF THE FABRIC WILL EXTEND TO THE TERMINAL POST. INSERT THE TENSION BAR AT THE ANGLE THROUGH THE FABRIC PARALLEL TO THE TERMINAL POST (FIG. 18). REMOVE THE EXCESS WIRE BY CUTTING THE STRANDS THAT FORM THE DIAMOND AT THE TENSION BAR LEAVING THEM LONG ENOUGH TO BEND OVER THE BAR. DO NOT CUT EVERY WIRE. THE NUMBER OF WIRES CUT DEPENDS ON THE DEGREE OF THE SLOPE AND THE HEIGHT OF THE FENCE.



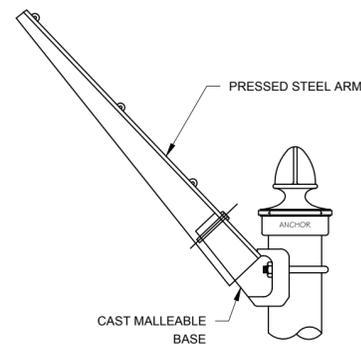
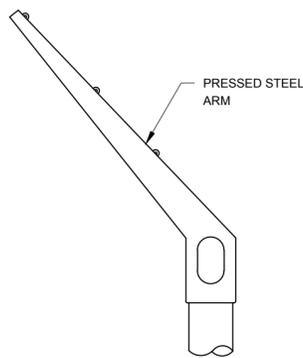
01 STRETCHING FENCE FABRIC  
C-06 SCALE: N.T.S



02 END, CORNER OR GATE POST  
C-06 SCALE: N.T.S



03 LINE POST ELEVATION  
C-04 SCALE: N.T.S



04 BARBED WIRE ARM 45° ARM (TYP. ARM POST)  
C-06 SCALE: N.T.S

05 BARBED WIRE CORNER ARM (TYP. CORNER POST)  
C-06 SCALE: N.T.S

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JOB TITLE  
TYPE OF DRAWING

DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES  
DESIGN DRAWINGS



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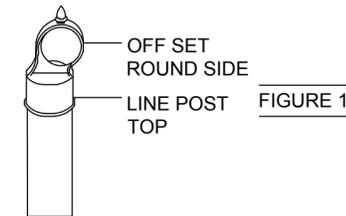
DRAWING TITLE  
SCALE

CHAIN LINK FENCING DETAILS 4  
N.T.S

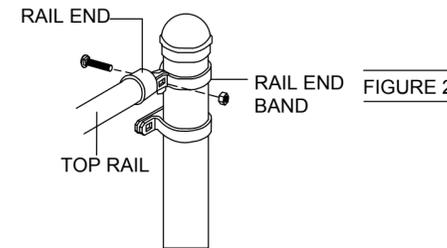
SIZE  
DRAWING NO  
SHEET

A2  
SLU-1510-S-027-GPF  
C-06

**STEP 1**  
PLACE LINE POST TOP OF EACH LINE POST. THE OFF-SET ROUND SIDE SHOULD BE TOWARD THE OUTSIDE OF THE FENCE (FIG. 1)



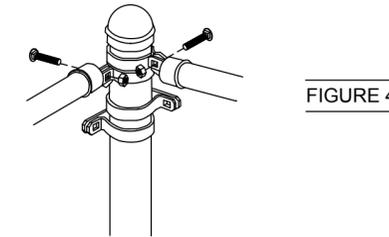
**STEP 2**  
INSERT ONE LENGTH OF TOP RAIL THROUGH THE LINE POST TOP CLOSEST TO A TERMINAL POST. SLIP RAIL END ONTO THE END OF THE TOP RAIL AND ATTACH IT TO A TERMINAL POST BY USING A RAIL END BAND. SECURE BY USING A 7mm x 30mm CARRIAGE BOLT WITH THE HEAD TO THE OUTSIDE OF THE FENCE (FIG. 2).



**STEP 3**  
CONTINUE BY FORCING LENGTHS OF SWEDGE END TOP RAIL TOGETHER THROUGH THE LINE POST TOPS. (IF SWEDGE END TOP RAIL IS NOT USED, JOIN LENGTHS TOGETHER WITH TOP RAIL SLEEVES.) (FIG. 3)

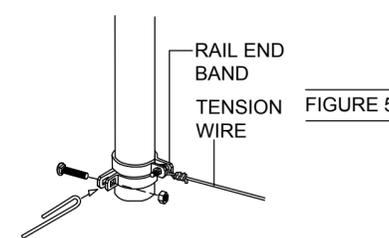


**STEP 4**  
UPON REACHING THE NEXT TERMINAL POST, MEASURE CAREFULLY AND CUT THE TOP RAIL TO FIT TIGHTLY BETWEEN THE LAST LENGTH OF TOP RAIL AND THE RAIL END. FASTEN RAIL END TO RAIL END BAND ON THE TERMINAL POST. SECURE IN PLACE WITH A 7mm x 31mm CARRIAGE BOLT (FIG. 4)



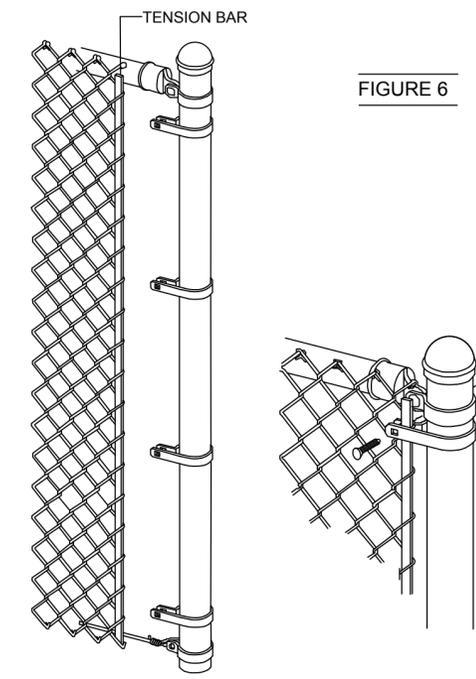
01 INSTALLING TOP RAILS  
C-07 SCALE: N.T.S

WRAP TENSION WIRE ONCE AROUND BOTTOM RAIL END BAND CARRIAGE BOLT. USING PLIERS, TWIST SEVERAL TIMES TO SECURE (FIG. 5). TENSION WIRE SHOULD RUN ALONG THE SAME SIDE OF THE POST AS THE FABRIC. APPLY TENSION WIRE CLIPS NO MORE THAN 600mm APART, OR AS NEEDED FOR SECURING THE WIRE TO THE CHAIN-LINK FABRIC.

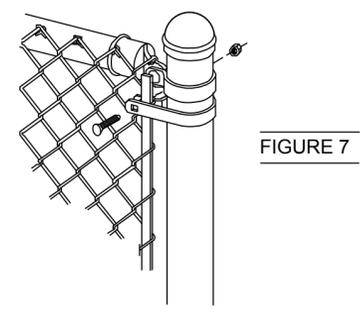


02 ADDING TENSION WIRE (OPTIONAL)  
C-07 SCALE: N.T.S

**STEP 1**  
STARTING AT A TERMINAL POST, UNROLL CHAIN-LINK FABRIC ON THE GROUND ALONG THE OUTSIDE OF THE FENCE LINE NEXT TO THE TERMINAL POST. SLIDE A TENSION BAR THROUGH THE FIRST ROW OF THE CHAIN-LINK DIAMONDS. FASTEN EVENLY SPACED TENSION BANDS (ALREADY ON THE POST) TO THE TENSION BAR, FABRIC COMBINATION USING 7mm X 30mm CARRIAGE BOLTS WITH HEADS TO THE OUTSIDE OF THE FENCE. (FIGS.6 & 7)

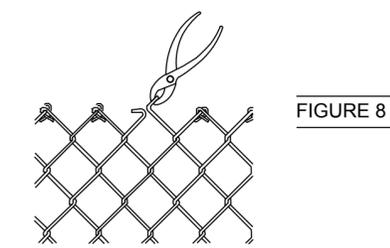


**STEP 2**  
WALK ALONG THE FABRIC AND STAND IT UP AGAINST THE FENCE FRAME, TAKING OUT THE SLACK AS YOU GO. LOOSELY ATTACH FABRIC TO TOP RAIL WITH A FEW FENCE TIES TO HOLD IT IN PLACE. SEPARATE ENOUGH FABRIC FROM THE ROLL TO THE SPAN THE OPENING BETWEEN THE TERMINAL POST.



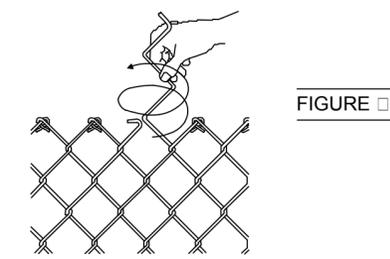
TO REMOVE EXCESS FABRIC

REMOVE THE EXCESS FABRIC WITH PLIERS BY OPENING THE TOP AND BOTTOM LOOPS (KNUCKLES) OF A SINGLE STRAND OF WIRE AT THE DESIRED POINT OF SEPARATION. UNWIND THE STRAND UP THROUGH THE LINKS UNTIL THE FABRIC COMES APART. (FIGS 8 & 9)



TO SPLICE SECTIONS OF FABRIC

SPLICE SECTIONS OF CHAIN-LINK FABRIC TOGETHER USING A SINGLE STRAND OF WIRE, REMOVED FROM THE END OF THE FABRIC. JOIN THE TWO SECTIONS BY WINDING THE LOOSE STRAND DOWN, CORKSCREW STYLE, THROUGH THE END LINKS. JOIN AND TIGHTEN THE KNUCKLES AT THE TOP AND BOTTOM TO SECURE.



NOTE: BEFORE SECTIONS CAN BE SPLICED, A SECOND STRAND MAY HAVE TO BE REMOVED.

03 HANGING FENCE FABRIC  
C-07 SCALE: N.T.S

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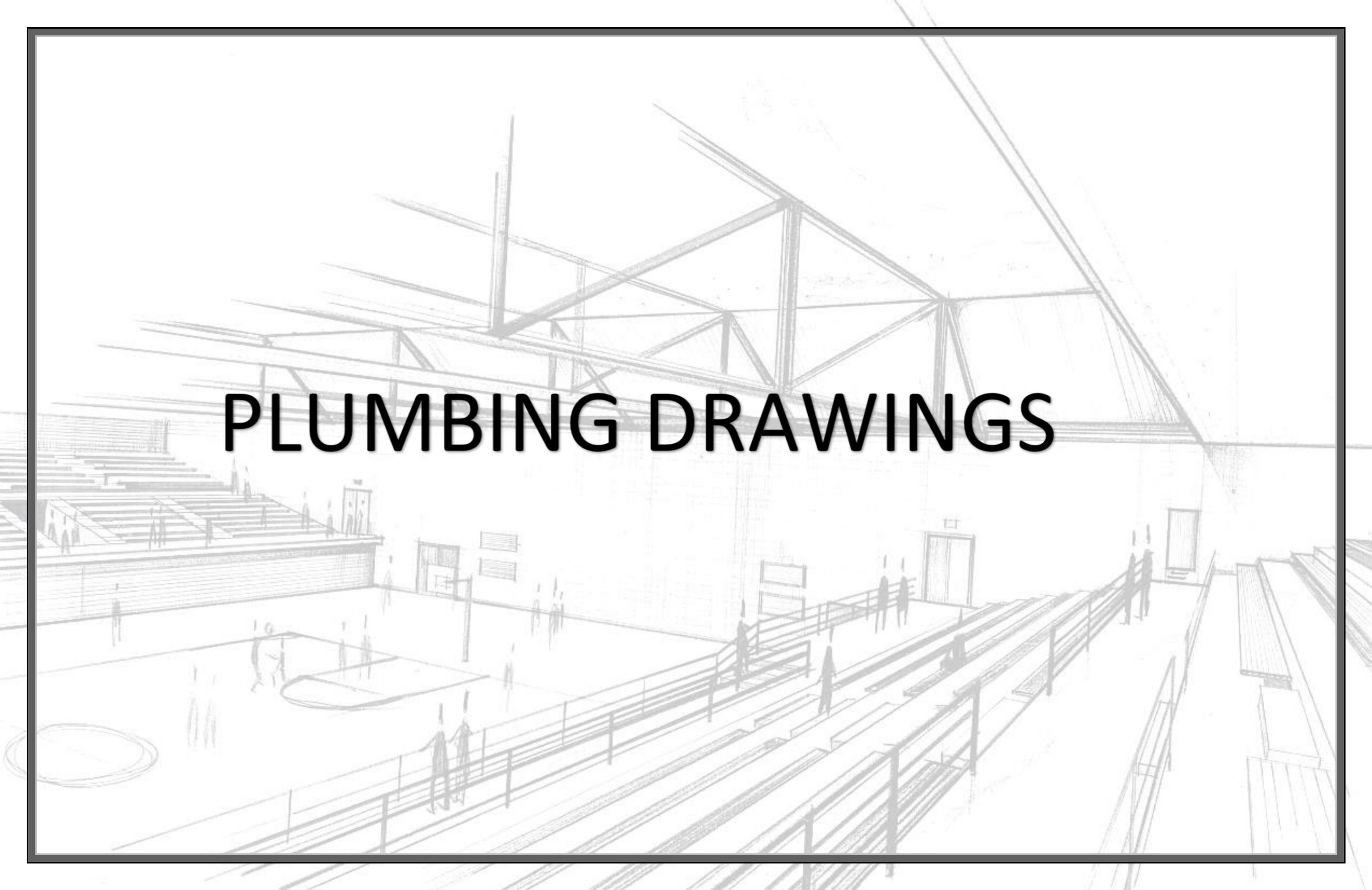
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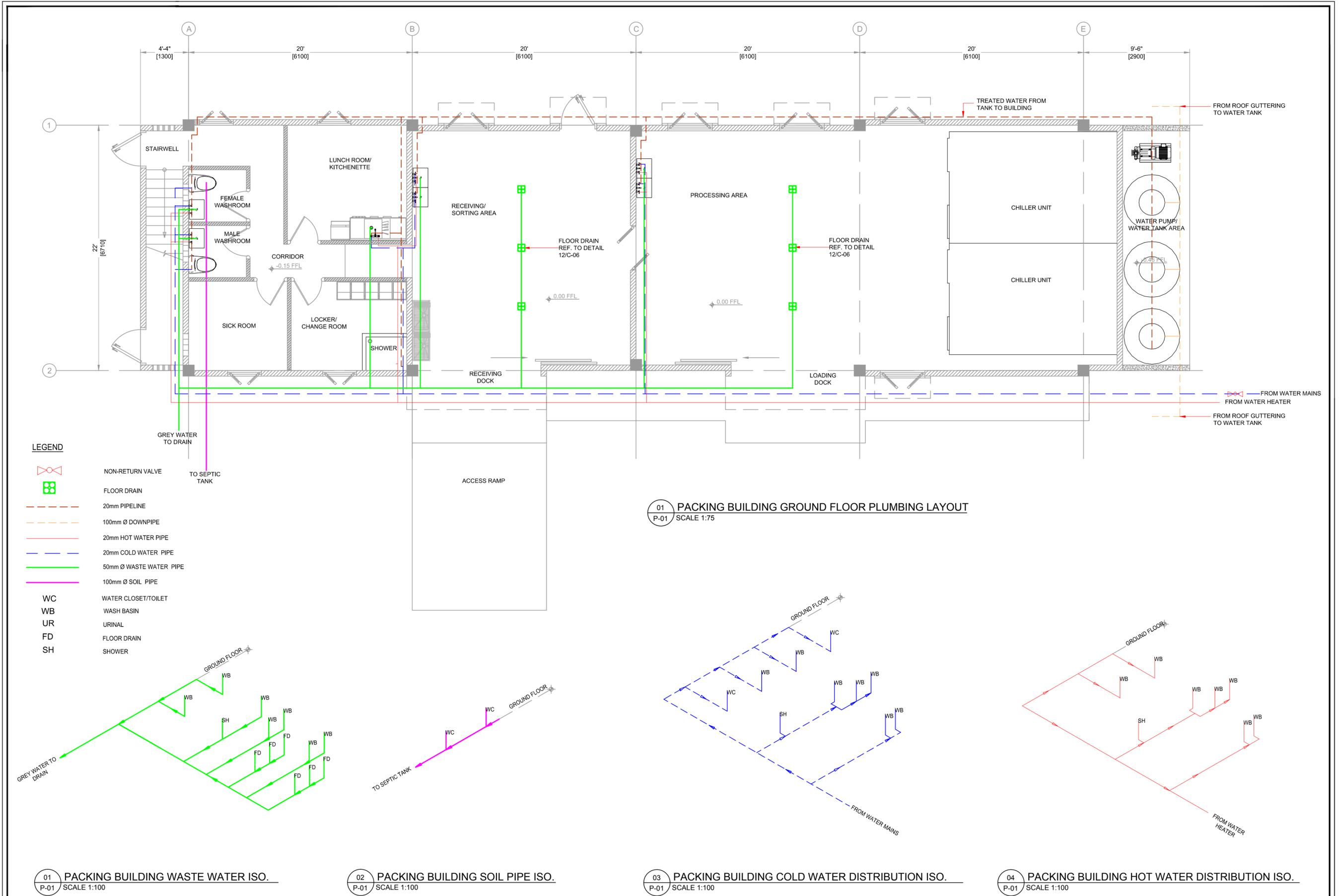
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DRAWING TITLE	CHAIN LINK FENCING DETAILS 5		
SCALE	SIZE	DRAWING NO	SHEET
AS SHOWN	A2	SLU-1510-S-027-GPF	C-07

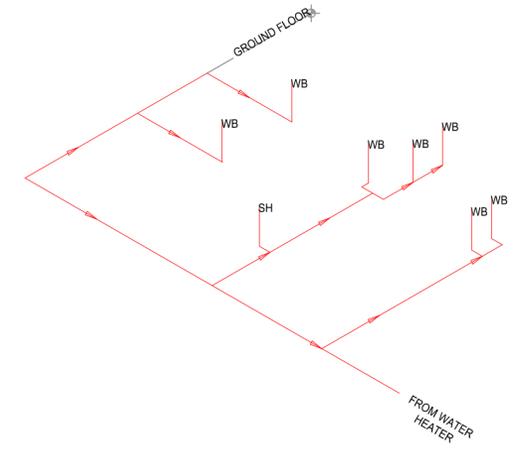
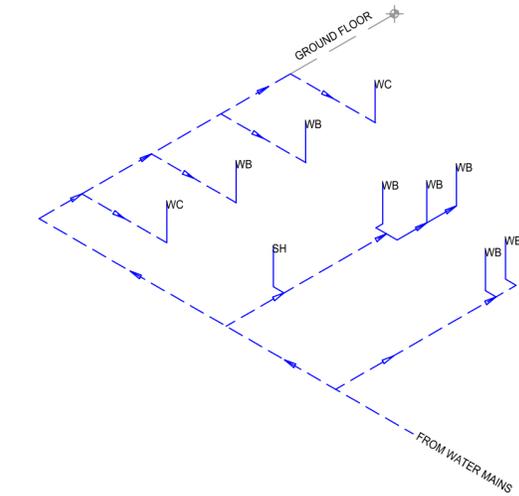
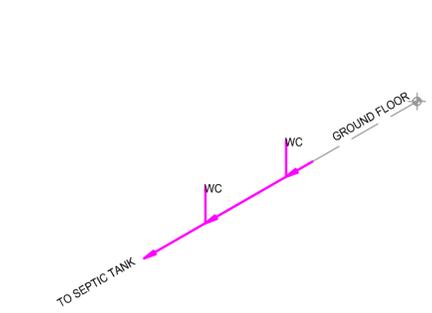
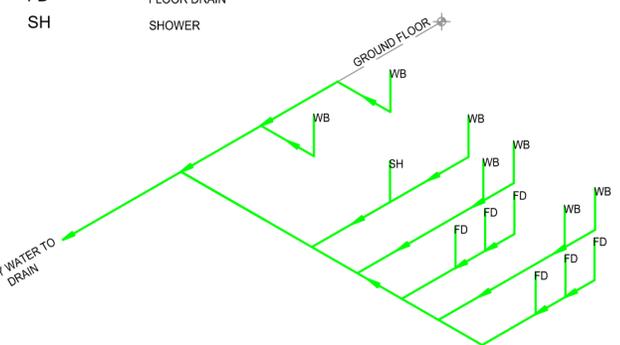
# PLUMBING DRAWINGS





01 PACKING BUILDING GROUND FLOOR PLUMBING LAYOUT  
P-01 SCALE 1:75

- LEGEND**
- NON-RETURN VALVE
  - FLOOR DRAIN
  - 20mm PIPELINE
  - 100mm Ø DOWNPIPE
  - 20mm HOT WATER PIPE
  - 20mm COLD WATER PIPE
  - 50mm Ø WASTE WATER PIPE
  - 100mm Ø SOIL PIPE
  - WC WATER CLOSET/TOILET
  - WB WASH BASIN
  - UR URINAL
  - FD FLOOR DRAIN
  - SH SHOWER



01 PACKING BUILDING WASTE WATER ISO.  
P-01 SCALE 1:100

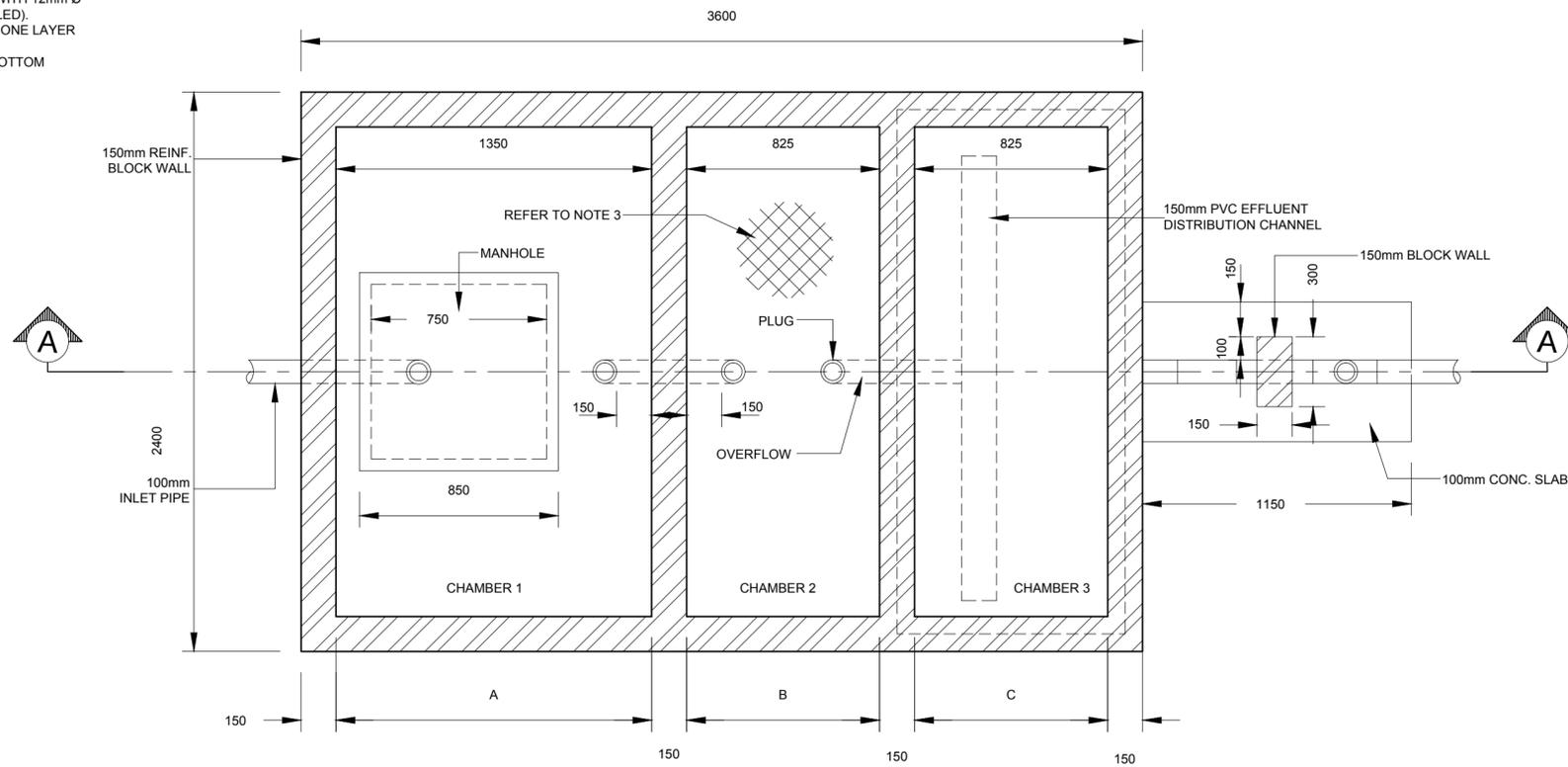
02 PACKING BUILDING SOIL PIPE ISO.  
P-01 SCALE 1:100

03 PACKING BUILDING COLD WATER DISTRIBUTION ISO.  
P-01 SCALE 1:100

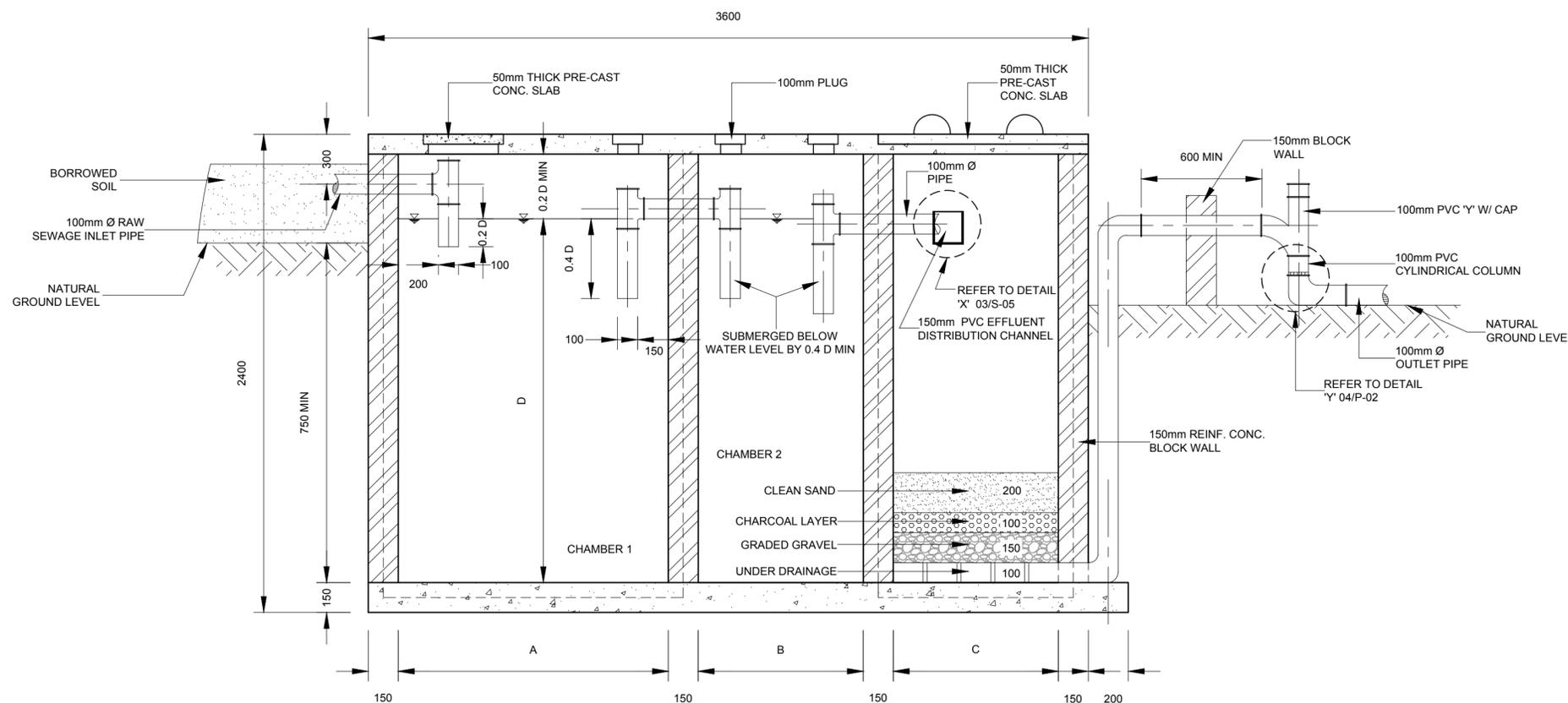
04 PACKING BUILDING HOT WATER DISTRIBUTION ISO.  
P-01 SCALE 1:100

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ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED										
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							PROPERTY OF:					TYPE OF DRAWING	DESIGN DRAWINGS	SCALE	AS SHOWN
							FDL CONSULT INC.					SIZE	A2	DRAWING NO	SLU-1510-S-027-GPF
												SHEET	P-01		

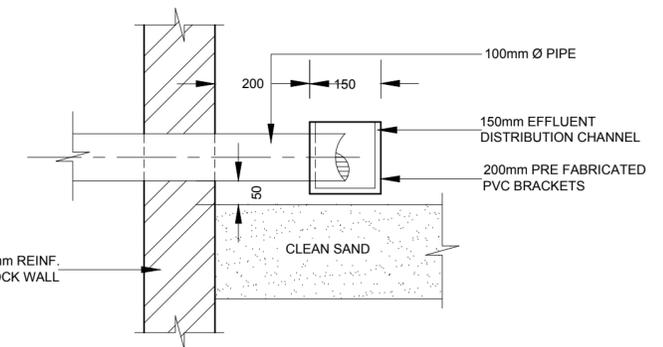
- NOTES:
1. ALL VERTICAL WALLS TO BE REINFORCED WITH 12mm Ø STEEL RODS @ 200mm C/C (ALL CORES FILLED).
  2. BOTTOM SLAB IS TO BE REINFORCED WITH ONE LAYER OF 12mm Ø BARS @ 200mm BOTHWAYS
  3. 12mm Ø STEEL BARS @ 200mm C/C TOP & BOTTOM (BOTHWAYS)



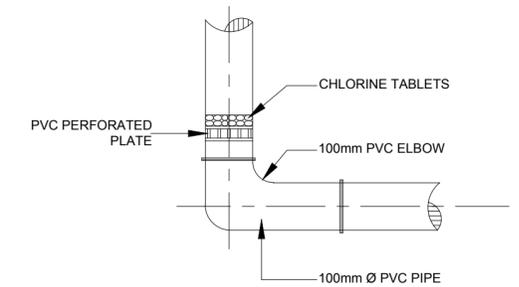
01 PLAN LAYOUT  
P-02 SCALE 1:20



02 SECTION A - A  
P-02 SCALE 1:100



03 DETAIL 'X'  
P-02 SCALE 1:100



04 DETAIL 'Y'  
P-02 SCALE 1:100

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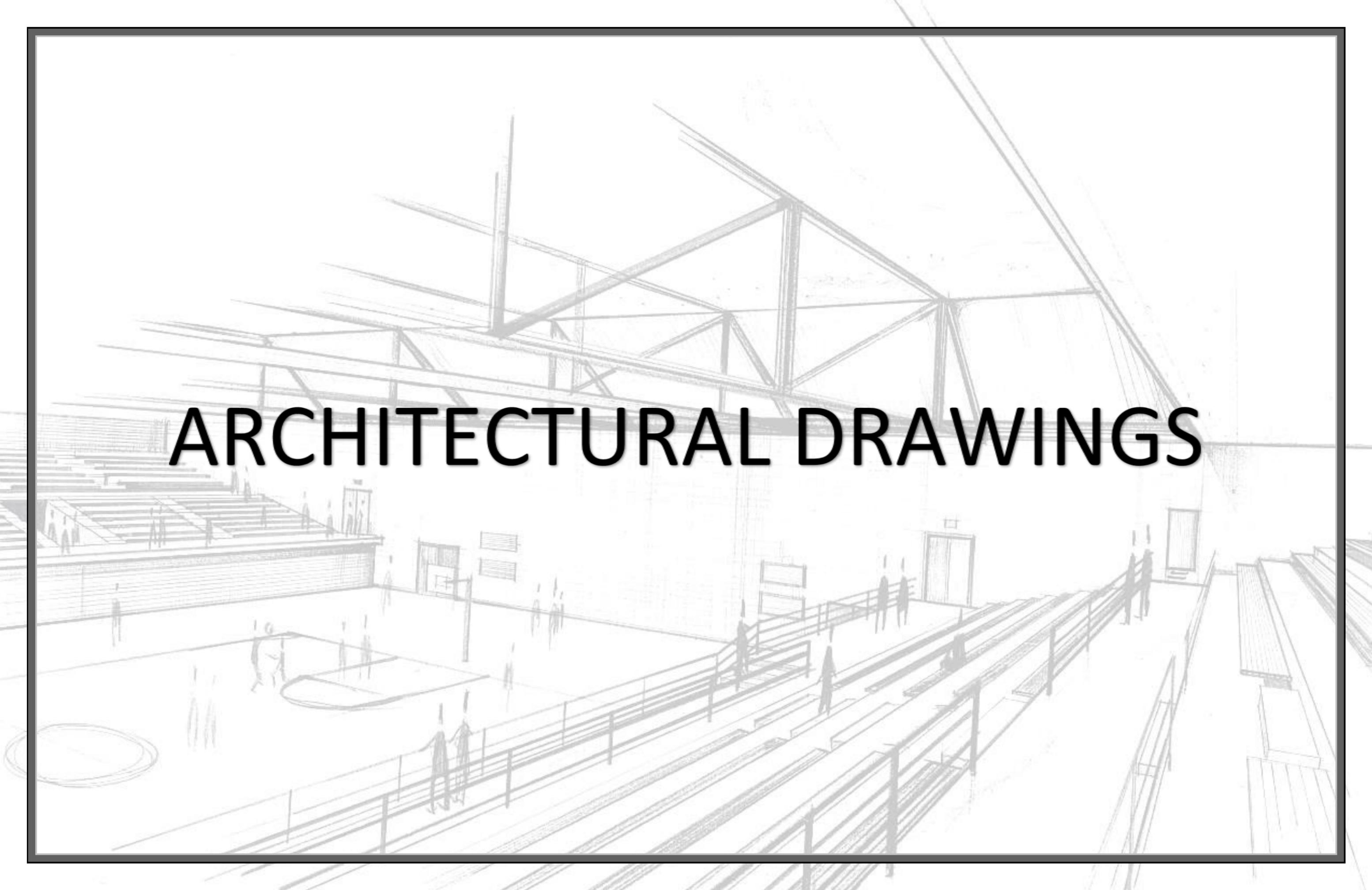
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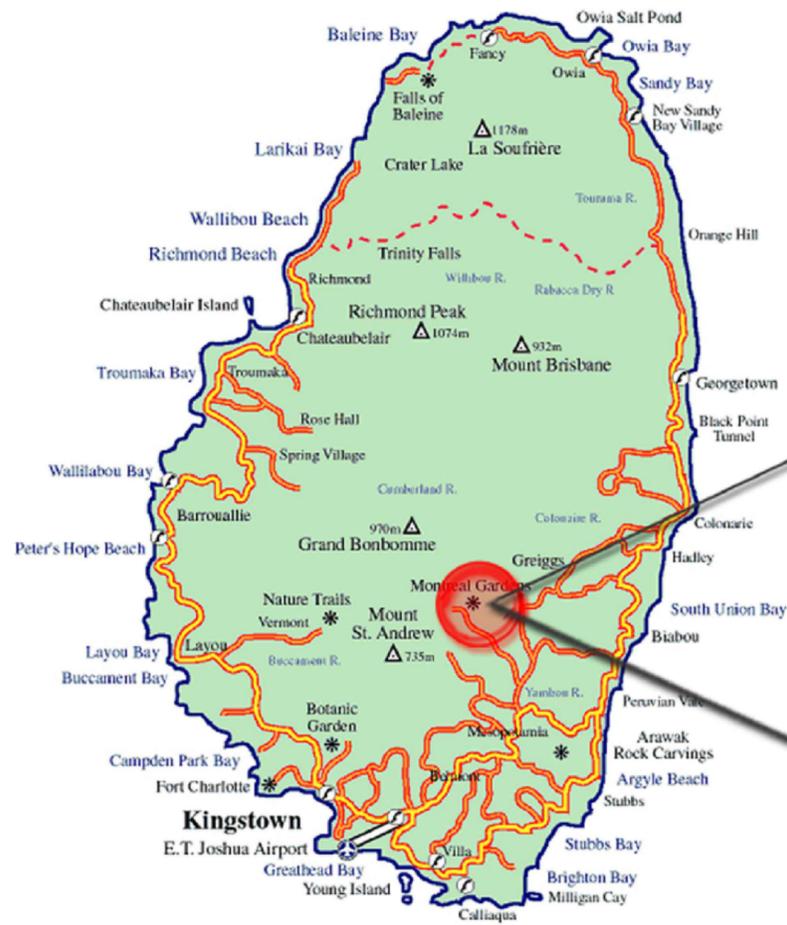
DESIGNED BY:	FDL CONSULT INC.	FDL
DRAWN BY:	DANIEL JACKSON	DJ
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF
ISSUED DATE:	OCTOBER 2015	
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CLIENT TITLE	GOVERNMENT OF ST. VINCENT AND THE GRENADINES
	MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION
JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES
TYPE OF DRAWING	DESIGN DRAWINGS

		<b>FDL Consult Inc.</b> P.O. Box 1803 GOODLANDS CASTRIES ST. LUCIA Tel. (758) 457 6400 Fax. (758) 453 7048 email: fdl@fdlconsultinc.com website: www.fdlconsultinc.com	
DRAWING TITLE	SEPTIC TANK DETAILS		
SCALE	SIZE	DRAWING NO	SHEET
AS SHOWN	A2	SLU-1510-S-027-GPF	P-02

A detailed architectural sketch of a gymnasium interior. The drawing shows a basketball court with a hoop and backboard on the left. To the right, there are long rows of bleachers with railings. The ceiling features a complex truss system with various beams and supports. Several people are sketched throughout the space, including some on the bleachers and others near the court, to provide a sense of scale. The drawing is rendered in a light, sketchy style with fine lines and some shading to indicate depth and form.

# ARCHITECTURAL DRAWINGS



### MONTREAL SITE LOCATION



### MAP OF ST. VINCENT

01 MONTREAL SITE LOCATION  
SCALE: N.T.S

REVISIONS					
ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED

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DRAWN BY:	DANIEL JACKSON	DJ
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF
ISSUED DATE:	OCTOBER 2015	
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CLIENT TITLE	GOVERNMENT OF ST. VINCENT AND THE GRENADINES
MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION	
JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES
TYPE OF DRAWING	DESIGN DRAWINGS

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DRAWING TITLE		MONTREAL SITE LOCATION	
SCALE	SIZE	DRAWING NO	SHEET
N.T.S	A2	SLU -1510-S-027-GPF	i



MAP OF ST. VINCENT

RICHMOND SITE LOCATION



01 RICHMOND SITE LOCATION  
i SCALE: N.T.S

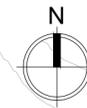
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TYPE OF DRAWING	DESIGN DRAWINGS

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DRAWING TITLE		RICHMOND SITE LOCATION	
SCALE	SIZE	DRAWING NO	SHEET
AS SHOWN	A2	SLU -1510-S-027-GPF	i



- LEGEND**
- 0.6m PROPOSED EARTHEN DRAIN
  - - - 0.5m PROPOSED EARTHEN DRAIN
  - PROPOSED STRUCTURES
  - LOCATION OF PHOTO-VOLTAIC CELLS
  - PROPOSED GRAVEL ROAD

01 MONTREAL - ARCHITECTURAL SITE PLAN  
A-01 SCALE 1:500

REVISIONS					
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CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF
ISSUED DATE:	OCTOBER 2015	
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**CLIENT TITLE**  
**GOVERNMENT OF ST. VINCENT AND THE GRENADINES**  
 MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION

**JOB TITLE**  
 DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES

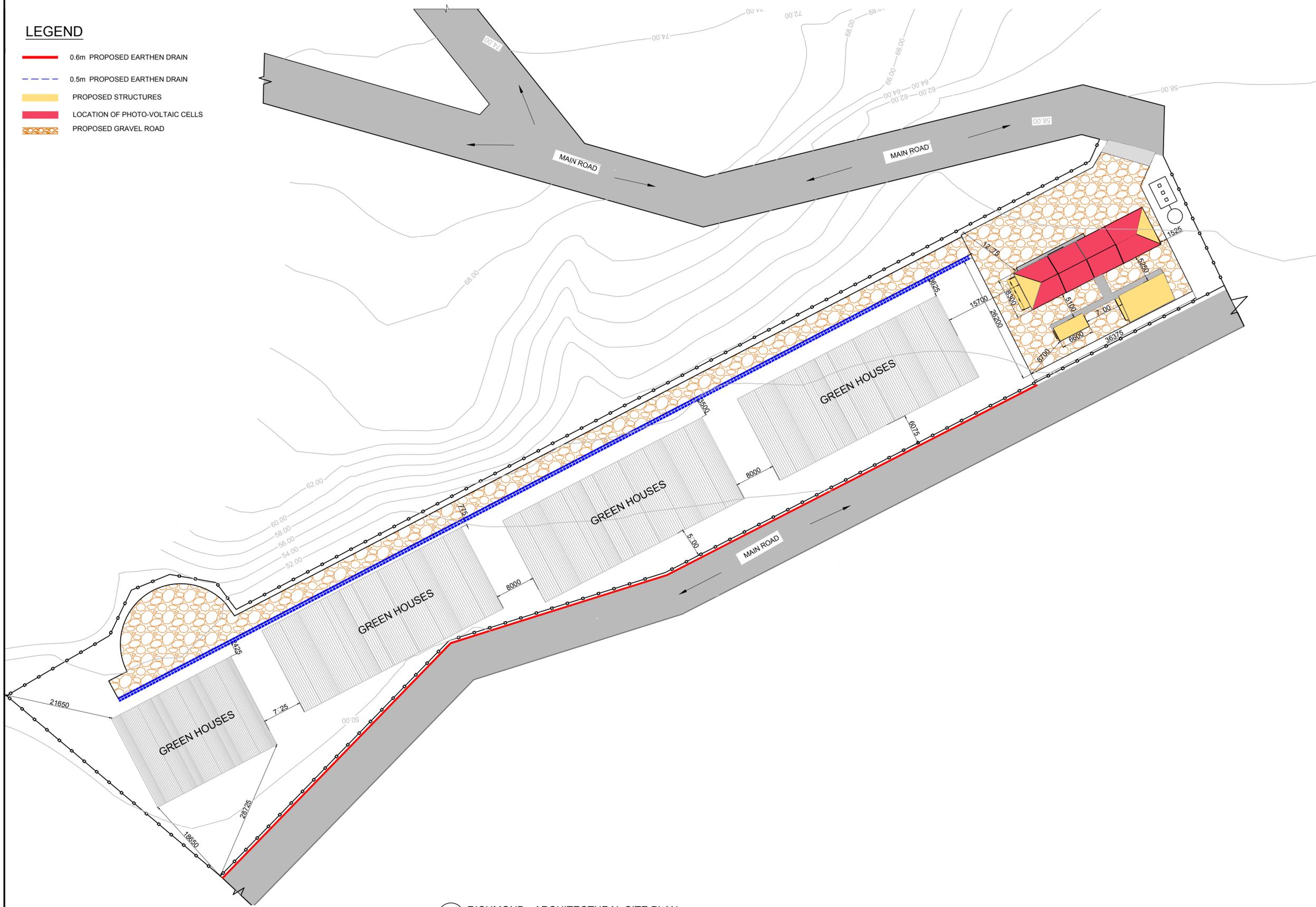
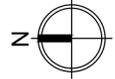
**TYPE OF DRAWING**  
 DESIGN DRAWINGS

**FDL Consult Inc.**  
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<b>DRAWING TITLE</b> MONTREAL - ARCHITECTURAL SITE PLAN	
<b>SCALE</b> AS SHOWN	<b>SIZE</b> A2
<b>DRAWING NO</b> SLU -1510-S-027-GPF	<b>SHEET</b> A-01

**LEGEND**

- 0.6m PROPOSED EARTHEN DRAIN
- - - 0.5m PROPOSED EARTHEN DRAIN
- PROPOSED STRUCTURES
- LOCATION OF PHOTO-VOLTAIC CELLS
- PROPOSED GRAVEL ROAD



01 RICHMOND - ARCHITECTURAL SITE PLAN  
A-01 SCALE 1:500

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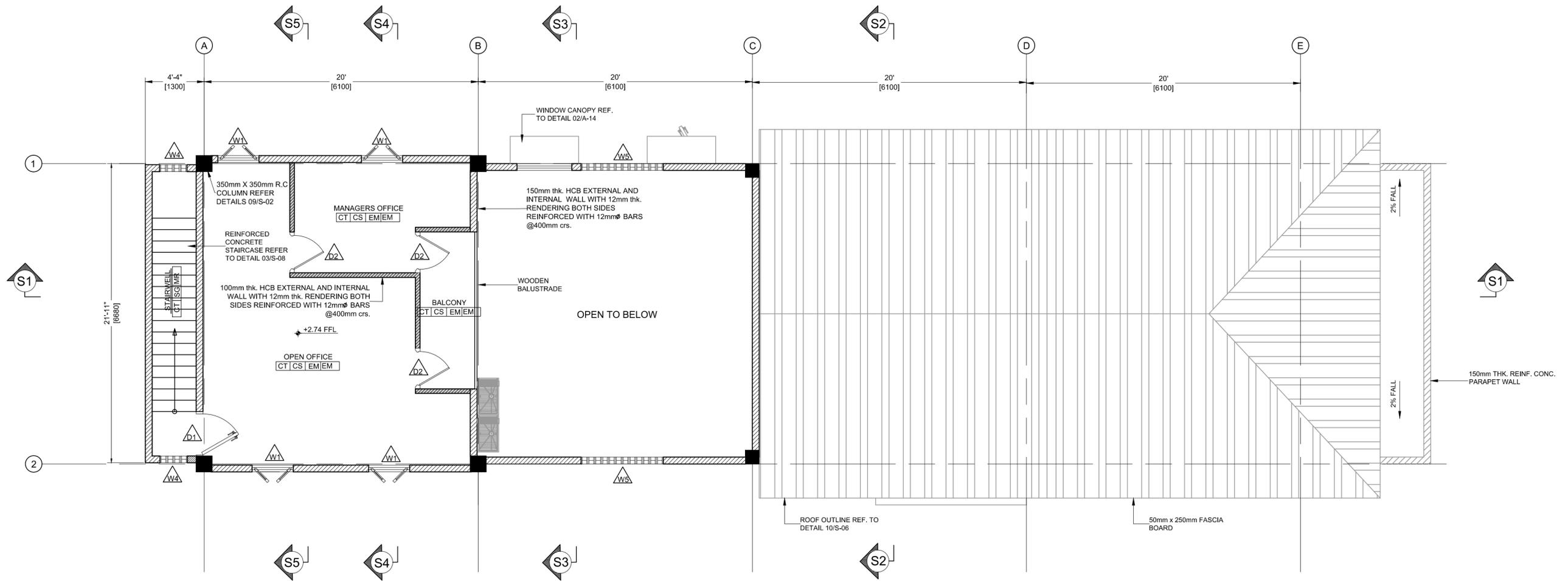
DESIGNER:	FDL CONSULT INC.	FDL
DRAWN BY:	LYNDELL ST JUSTE	LS
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF
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JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES
TYPE OF DRAWING	DESIGN DRAWINGS

DRAWING TITLE		RICHMOND - ARCHITECTURAL SITE PLAN	
SCALE	AS SHOWN	SIZE	A2
DRAWING NO	SLU -1510-S-027-GPF	SHEET	A-01

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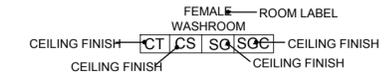
01 PACKING BUILDING FIRST FLOOR FURNITURE LAYOUT  
A-03 SCALE 1:75

**NOTES:**

1. ALL LEVELS ARE IN METERS.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH OTHER TRADES
3. UNLESS OTHERWISE INDICATED ALL EXTERNAL MASONRY UNITS SHALL REACH STRUCTURAL CEILING AND ALL CMU SHALL BE FILLED WITH CONCRETE AS SPECIFIED.
4. EXTERNAL AND INTERNAL FINISHES EXTERNAL WALLS SHALL BE RENDERED AS FOLLOWS:
  - a- 2 COATS OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 20mm. ON EXTERNAL FACE.
  - b- 1 COAT OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 12mm. ON INTERNAL FACE.
  - c- PAINT COLOUR SHALL BE AS INDICATED
5. UNLESS OTHERWISE INDICATED ALL FAIRFACED CONCRETE SHALL BE CHAMFERED 20x20mm.
6. UNLESS OTHERWISE INDICATED ALL LINTELS OVER DOORS AND WINDOWS SHALL EXTEND 200mm FROM EACH SIDE OF OPENINGS.
7. PROVIDE OPENINGS IN PARTITION WALLS ABOVE SUSPENDED CEILING AS REQUIRED AND SHOWN ON MECHANICAL DRAWINGS.
8. HARDWARE SET OF EACH DOOR IS INDICATED ON DRAWING BELOW THE DOOR TYPE, OTHERWISE HARDWARE SET SHOULD BE PROVIDED BY DOOR MANUFACTURER.



□ ROOM FINISHES ARE RECORDED AS INDICATED BELOW:



10. ALL PLASTER MUST REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
11. ALL CERAMIC WALL TILES SHALL REACH 2200mm. FROM FFL AND THE REST PART SHALL BE POINTED WITH WATER RESISTANT PAINT.
12. ALL WALL PAINT SHALL REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
13. EXTERNAL GLASS TYPE SHALL BE OF HIGH PERFORMANCE DOUBLE GLAZING HAVING THE FOLLOWING CHARACTERISTICS: MAXIMUM U VALUE : UV 3.30/M2-C  
MAXIMUM SHADING COEFFICIENT : SC:0.46

SYMBOL KEY	
ALL DIMENSIONS SHOWN FOR WINDOWS AND DOORS ARE FOR THE MASONRY OPENINGS. PLEASE CO-ORDINATE THESE OPENINGS WITH ACTUAL WINDOW & DOOR SIZES	
ALL DOORS & WINDOWS TO CLIENTS APPROVAL TO MATCH OPENINGS SHOWN	
ALL WASHROOMS TO BE FITTED WITH FLOOR DRAINS FOR CLEANING AND MAINTENANCE	
	200mm THK. HCB EXTERNAL AND INTERNAL WALL WITH 12mm THK. RENDERING BOTH SIDES REINFORCED WITH 12mmØ BARS @400mm crs.
	150mm THK. HCB EXTERNAL AND INTERNAL WALL WITH 12mm THK. RENDERING BOTH SIDES REINFORCED WITH 12mmØ BARS @400mm crs.

FLOOR MATERIAL FINISH		BASE MATERIAL FINISH		WALL MATERIAL FINISH		CEILING MATERIAL FINISH	
CT	600x600x8mm. THICK NON SLIP CERAMIC TILES.	CS	100mm HIGH CERAMIC SKIRTING MATCHING WITH FLOORING TILES.	SG	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - EGGSHELL FINISH (RGB 240,234,214)	SGC	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGGSHELL
CT3	150x150x6mm. THICK NON SLIP CERAMIC TILES.			SGD	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - FIRE BRICK (RGB 145,34,34)	EB	EMULSION PAINT OVER 12 mm. THICK PLASTER BOARD JOINTLESS SUSPENDED CEILING - EGGSHELL
CP	CAST IN PLACE CONCRETE WITH STAMPED SURFACE - SORRENTO			EM	EMULSION PAINT ON SAND CEMENT PLASTER EGGSHELL FINISH - EGGSHELL FINISH	MR	0.7mm. STANDING SEAM METAL SHEETING ROOF COVERING.
EP	EPOXY FINISH OR SIMILAR FLOOR FINISH			CT3	150x150x6mm THICK GLAZED CERAMIC TILES	SP	STUCCO OVER SAND CEMENT PLASTER - BAMBOO
				SG	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGGSHELL	EMC	EMULSION PAINT OVER SAND CEMENT PLASTER - EGGSHELL
				SP	STUCCO OVER SAND CEMENT PLASTER - FIRE BRICK (RGB 240,234,214)		

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DRAWN BY:	J. FRANCIS, D. JACKSON	JF, DJ
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF
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**CLIENT TITLE**  
GOVERNMENT OF ST. VINCENT AND THE GRENADINES

MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION

**JOB TITLE**  
DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES

**TYPE OF DRAWING**  
DESIGN DRAWINGS

**FDL Consult Inc.**  
P.O. Box 1803 GOODLANDS CASTRIES ST. LUCIA  
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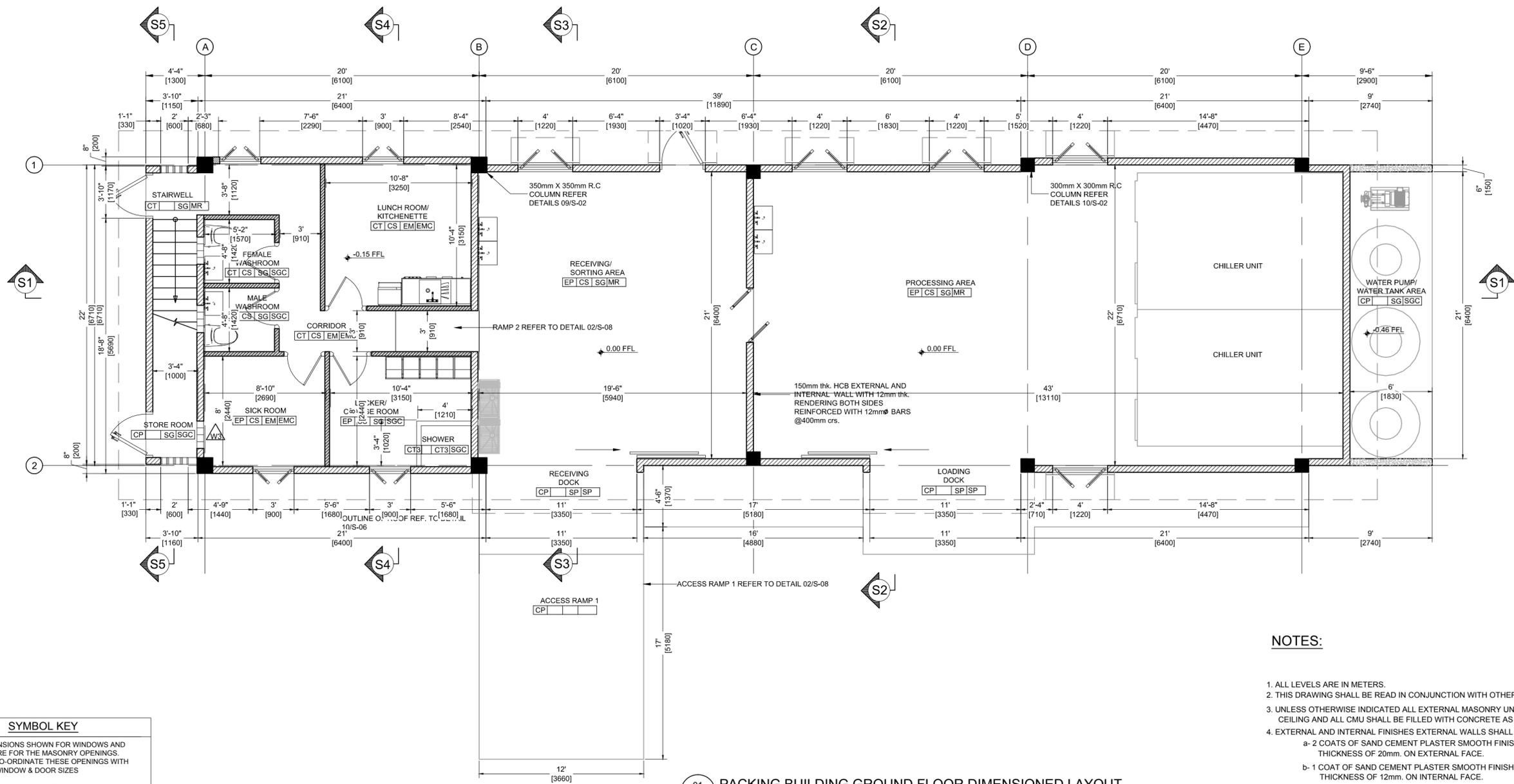
**DRAWING TITLE**  
PACKING BUILDING FIRST FLOOR FURNITURE LAYOUT

**SCALE**  
1:75

**SIZE**  
A2

**DRAWING NO**  
SLU-1510-S-027-GPF

**SHEET**  
A-03



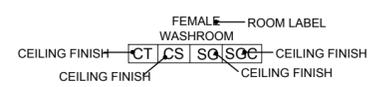
01 PACKING BUILDING GROUND FLOOR DIMENSIONED LAYOUT  
A-04 SCALE 1:75

**NOTES:**

1. ALL LEVELS ARE IN METERS.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH OTHER TRADES
3. UNLESS OTHERWISE INDICATED ALL EXTERNAL MASONRY UNITS SHALL REACH STRUCTURAL CEILING AND ALL CMU SHALL BE FILLED WITH CONCRETE AS SPECIFIED.
4. EXTERNAL AND INTERNAL FINISHES EXTERNAL WALLS SHALL BE RENDERED AS FOLLOWS:
  - a- 2 COATS OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 20mm. ON EXTERNAL FACE.
  - b- 1 COAT OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 12mm. ON INTERNAL FACE.
  - c- PAINT COLOUR SHALL BE AS INDICATED
5. UNLESS OTHERWISE INDICATED ALL FAIRFACED CONCRETE SHALL BE CHAMFERED 20x20mm.
6. UNLESS OTHERWISE INDICATED ALL LINTELS OVER DOORS AND WINDOWS SHALL EXTEND 200mm FROM EACH SIDE OF OPENINGS.
7. PROVIDE OPENINGS IN PARTITION WALLS ABOVE SUSPENDED CEILING AS REQUIRED AND SHOWN ON MECHANICAL DRAWINGS.
8. HARDWARE SET OF EACH DOOR IS INDICATED ON DRAWING BELOW THE DOOR TYPE. OTHERWISE HARDWARE SET SHOULD BE PROVIDED BY DOOR MANUFACTURER.



ROOM FINISHES ARE RECORDED AS INDICATED BELOW:



10. ALL PLASTER MUST REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
11. ALL CERAMIC WALL TILES SHALL REACH 2200mm. FROM FFL AND THE REST PART SHALL BE POINTED WITH WATER RESISTANT PAINT.
12. ALL WALL PAINT SHALL REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
13. EXTERNAL GLASS TYPE SHALL BE OF HIGH PERFORMANCE DOUBLE GLAZING HAVING THE FOLLOWING CHARACTERISTICS: MAXIMUM U VALUE : UV 3.30/M2-C  
MAXIMUM SHADING COEFFICIENT : SC:0.46

SYMBOL KEY	
ALL DIMENSIONS SHOWN FOR WINDOWS AND DOORS ARE FOR THE MASONRY OPENINGS. PLEASE CO-ORDINATE THESE OPENINGS WITH ACTUAL WINDOW & DOOR SIZES	
ALL DOORS & WINDOWS TO CLIENT'S APPROVAL TO MATCH OPENINGS SHOWN	
ALL WASHROOMS TO BE FITTED WITH FLOOR DRAINS FOR CLEANING AND MAINTENANCE	
	100mm THK. HCB EXTERNAL AND INTERNAL WALL WITH 12mm THK. RENDERING BOTH SIDES REINFORCED WITH 12mmØ BARS @400mm crs.
	150mm THK. HCB EXTERNAL AND INTERNAL WALL WITH 12mm THK. RENDERING BOTH SIDES REINFORCED WITH 12mmØ BARS @400mm crs.
	200mm THK. LOAD BEARING WALL REINF. WITH T16 @ 200mm C/C VERTICAL AND T12 @ 150mm C/C HORIZONTAL

FLOOR MATERIAL FINISH		BASE MATERIAL FINISH		WALL MATERIAL FINISH		CEILING MATERIAL FINISH	
CT	600x600x8mm. THICK NON SLIP CERAMIC TILES.	CS	100mm HIGH CERAMIC SKIRTING MATCHING WITH FLOORING TILES.	SG	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - EGGSHELL FINISH (RGB 240,234,214)	SGC	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGGSHELL
CT3	150x150x6mm. THICK NON SLIP CERAMIC TILES.			SGD	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - FIRE BRICK (RGB 145,34,34)	EB	EMULSION PAINT OVER 12 mm THICK PLASTER BOARD JOINTLESS SUSPENDED CEILING - EGGSHELL
CP	CAST IN PLACE CONCRETE WITH STAMPED SURFACE - SORRENTO			EM	EMULSION PAINT ON SAND CEMENT PLASTER EGGSHELL FINISH - EGGSHELL FINISH	MR	0.7mm. STANDING SEAM METAL SHEETING ROOF COVERING.
EP	EPOXY FINISH OR SIMILAR FLOOR FINISH			CT3	150x150x6mm THICK GLAZED CERAMIC TILES	SP	STUCCO OVER SAND CEMENT PLASTER - BAMBOO
				SG	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGGSHELL	EMC	EMULSION PAINT OVER SAND CEMENT PLASTER - EGGSHELL
				SP	STUCCO OVER SAND CEMENT PLASTER - FIRE BRICK (RGB 240,234,214)		

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MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION

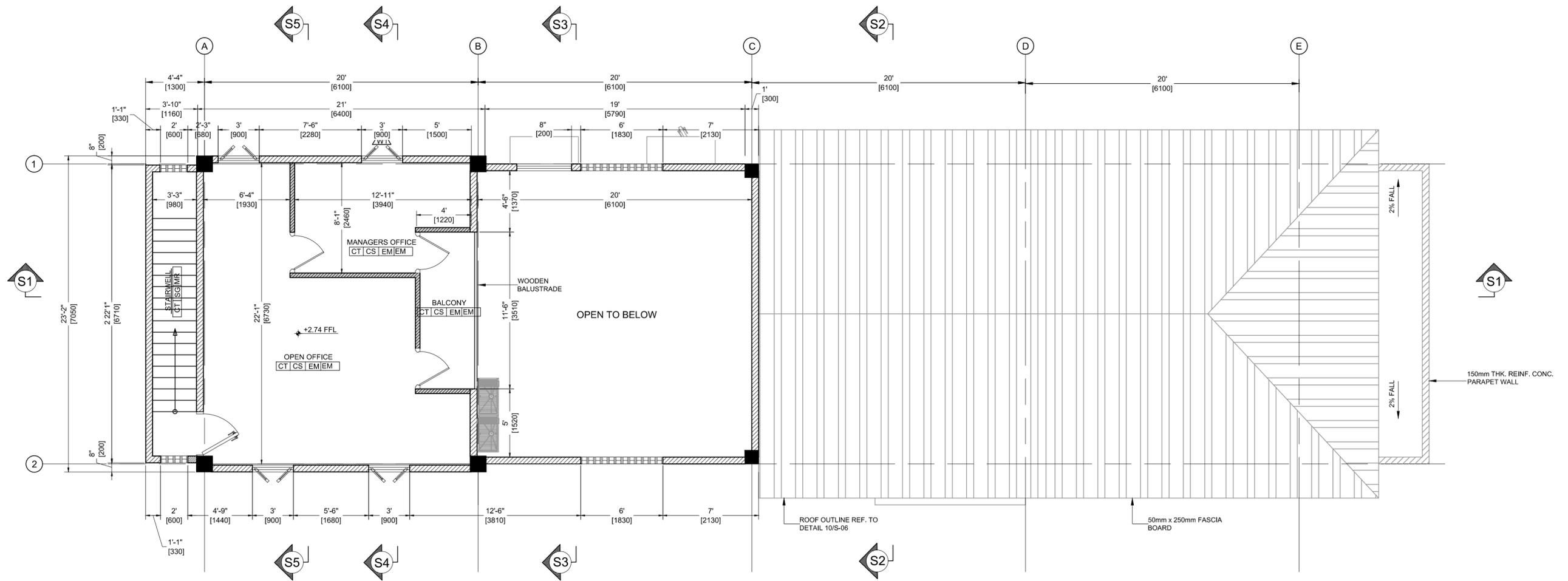
**JOB TITLE**  
 DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES

**TYPE OF DRAWING**  
 DESIGN DRAWINGS

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 website: www.fdlconsultinc.com

**DRAWING TITLE**  
 PACKING BUILDING GROUND FLOOR DIMENSIONED LAYOUT

SCALE	SIZE	DRAWING NO	SHEET
1:75	A2	SLU-1510-S-027-GPF	A-04



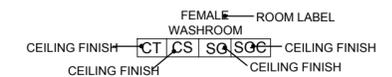
01 PACKING BUILDING FIRST FLOOR DIMENSIONED LAYOUT  
A-05 SCALE 1:75

**NOTES:**

1. ALL LEVELS ARE IN METERS.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH OTHER TRADES
3. UNLESS OTHERWISE INDICATED ALL EXTERNAL MASONRY UNITS SHALL REACH STRUCTURAL CEILING AND ALL CMU SHALL BE FILLED WITH CONCRETE AS SPECIFIED.
4. EXTERNAL AND INTERNAL FINISHES EXTERNAL WALLS SHALL BE RENDERED AS FOLLOWS:
  - a- 2 COATS OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 20mm. ON EXTERNAL FACE.
  - b- 1 COAT OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 12mm. ON INTERNAL FACE.
  - c- PAINT COLOUR SHALL BE AS INDICATED
5. UNLESS OTHERWISE INDICATED ALL FAIRFACED CONCRETE SHALL BE CHAMFERED 20x20mm.
6. UNLESS OTHERWISE INDICATED ALL LINTELS OVER DOORS AND WINDOWS SHALL EXTEND 200mm FROM EACH SIDE OF OPENINGS.
7. PROVIDE OPENINGS IN PARTITION WALLS ABOVE SUSPENDED CEILING AS REQUIRED AND SHOWN ON MECHANICAL DRAWINGS.
8. HARDWARE SET OF EACH DOOR IS INDICATED ON DRAWING BELOW THE DOOR TYPE, OTHERWISE HARDWARE SET SHOULD BE PROVIDED BY DOOR MANUFACTURER.



□ ROOM FINISHES ARE RECORDED AS INDICATED BELOW:



10. ALL PLASTER MUST REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
11. ALL CERAMIC WALL TILES SHALL REACH 2200mm. FROM FFL AND THE REST PART SHALL BE POINTED WITH WATER RESISTANT PAINT.
12. ALL WALL PAINT SHALL REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
13. EXTERNAL GLASS TYPE SHALL BE OF HIGH PERFORMANCE DOUBLE GLAZING HAVING THE FOLLOWING CHARACTERISTICS: MAXIMUM U VALUE : UV 3.30/M2-C  
MAXIMUM SHADING COEFFICIENT : SC:0.46

**SYMBOL KEY**

ALL DIMENSIONS SHOWN FOR WINDOWS AND DOORS ARE FOR THE MASONRY OPENINGS. PLEASE CO-ORDINATE THESE OPENINGS WITH ACTUAL WINDOW & DOOR SIZES

ALL DOORS & WINDOWS TO CLIENT'S APPROVAL TO MATCH OPENINGS SHOWN

ALL WASHROOMS TO BE FITTED WITH FLOOR DRAINS FOR CLEANING AND MAINTENANCE

	200mm THK. HCB EXTERNAL AND INTERNAL WALL WITH 12mm THK. RENDERING BOTH SIDES REINFORCED WITH 12mm $\phi$ BARS @400mm c/s.
	150mm THK. HCB EXTERNAL AND INTERNAL WALL WITH 12mm THK. RENDERING BOTH SIDES REINFORCED WITH 12mm $\phi$ BARS @400mm c/s.

FLOOR MATERIAL FINISH		BASE MATERIAL FINISH		WALL MATERIAL FINISH		CEILING MATERIAL FINISH	
CT	600x600x8mm. THICK NON SLIP CERAMIC TILES.	CS	100mm HIGH CERAMIC SKIRTING MATCHING WITH FLOORING TILES.	SG	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGGSHELL FINISH (RGB 240,234,214)	SGC	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGGSHELL
CT3	150x150x6mm. THICK NON SLIP CERAMIC TILES.			SGD	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - FIRE BRICK (RGB 145,34,34)	EB	EMULSION PAINT OVER 12 mm. THICK PLASTER BOARD JOINTLESS SUSPENDED CEILING - EGGSHELL
CP	CAST IN PLACE CONCRETE WITH STAMPED SURFACE - SORRENTO			EM	EMULSION PAINT ON SAND CEMENT PLASTER EGGSHELL FINISH - EGGSHELL FINISH	MR	0.7mm. STANDING SEAM METAL SHEETING ROOF COVERING.
EP	EPOXY FINISH OR SIMILAR FLOOR FINISH			CT3	150x150x6mm THICK GLAZED CERAMIC TILES	SP	STUCCO OVER SAND CEMENT PLASTER - BAMBOO
				SG	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGGSHELL	EMC	EMULSION PAINT OVER SAND CEMENT PLASTER - EGGSHELL
				SP	STUCCO OVER SAND CEMENT PLASTER - FIRE BRICK (RGB 240,234,214)		

**REVISIONS**

ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED

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DESIGNED BY:	JAMAL FRANCIS	JF
DRAWN BY:	J. FRANCIS, D. JACKSON	JF, DJ
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF
ISSUED DATE:	OCTOBER 2015	
PROPERTY OF:	FDL CONSULT INC.	

CLIENT TITLE  
**GOVERNMENT OF ST. VINCENT AND THE GRENADINES**

MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION

JOB TITLE  
DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES

TYPE OF DRAWING  
DESIGN DRAWINGS

**FDL Consult Inc.**  
P.O. Box 1803 GOODLANDS CASTRIES ST. LUCIA  
Tel. (758) 457 6400  
Fax. (758) 453 7048  
email: fdl@fdlconsultinc.com  
website: www.fdlconsultinc.com

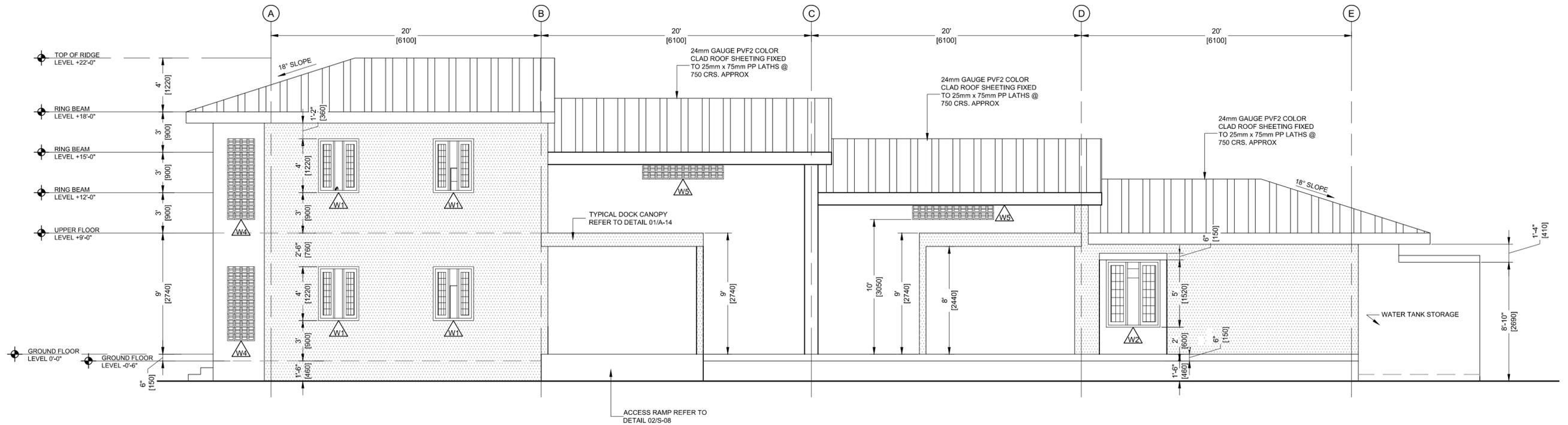
DRAWING TITLE  
PACKING BUILDING FIRST FLOOR DIMENSIONED LAYOUT

SCALE  
1:75

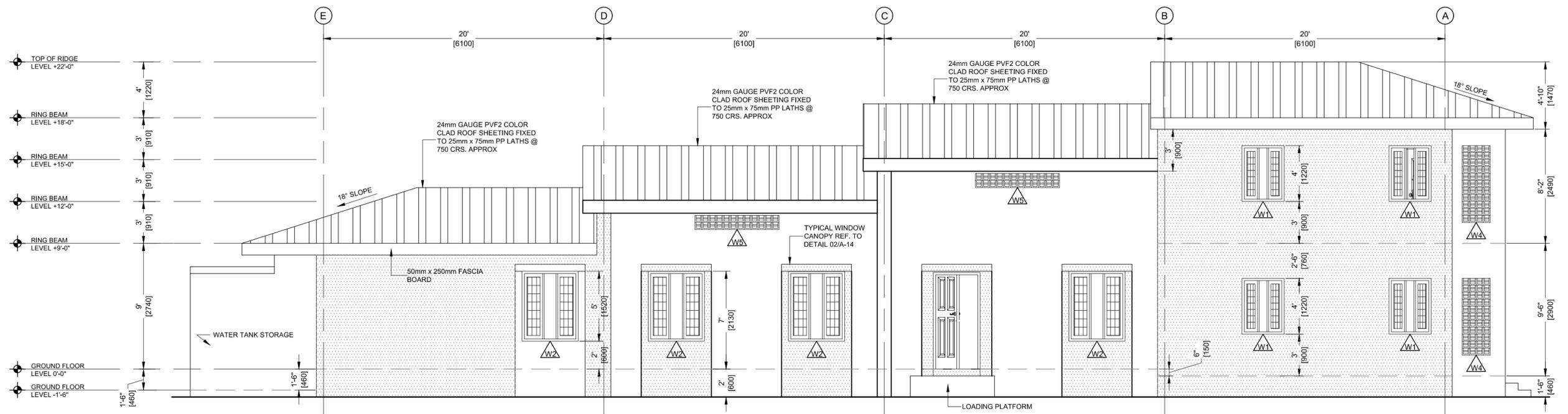
SIZE  
A2

DRAWING NO  
SLU-1510-S-027-GPF

SHEET  
A-05



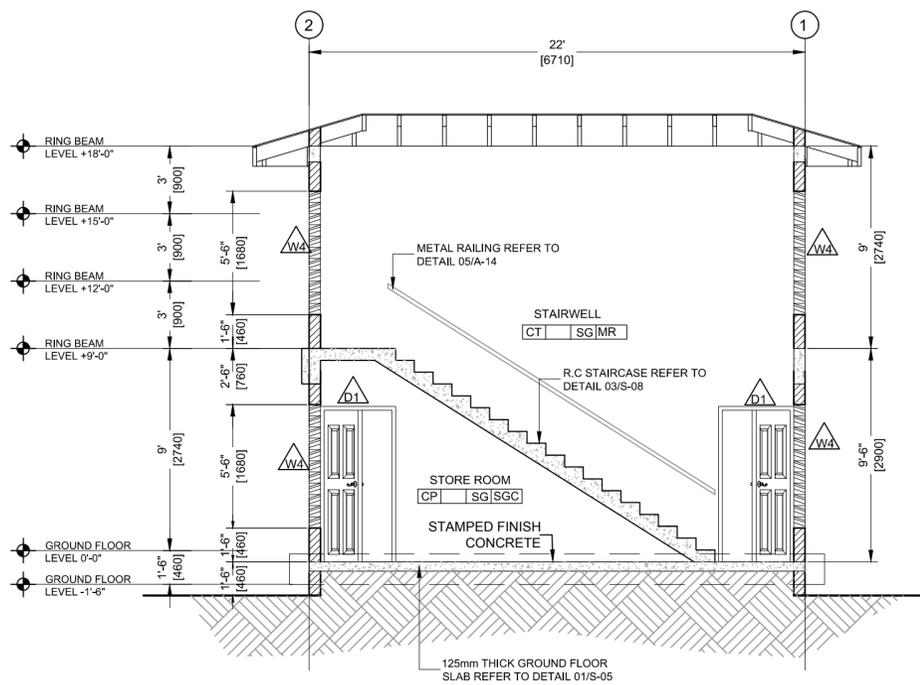
01 PACKING BUILDING FRONT ELEVATION  
A-06 SCALE 1:75



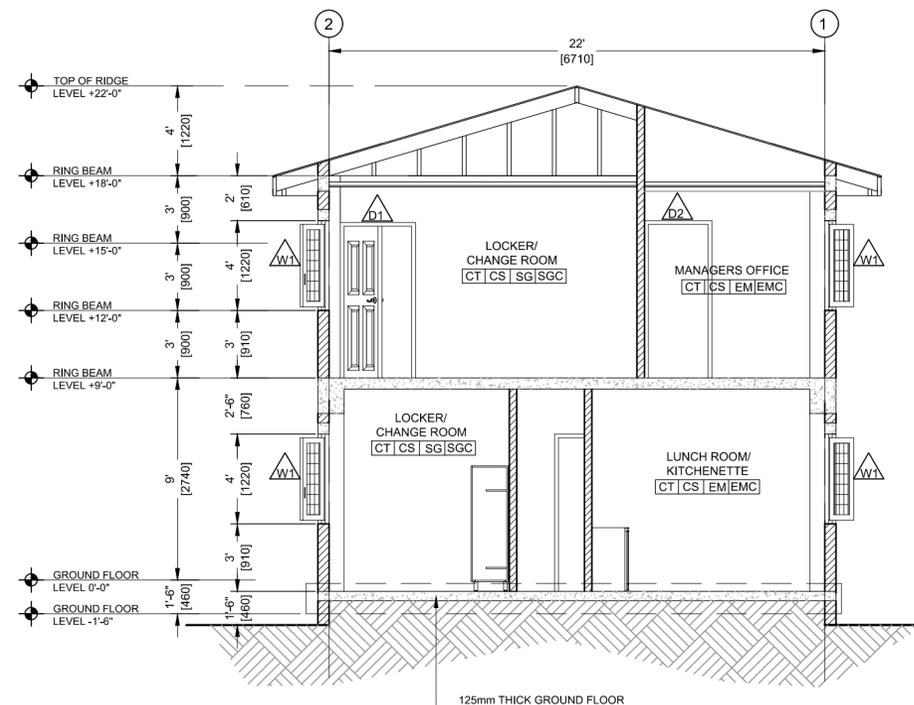
02 PACKING BUILDING BACK ELEVATION  
A-06 SCALE 1:75

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ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED		DRAWN BY:	J. FRANCIS, D. JACKSON	JF, DJ	MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION	JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES	
						APPROVED:	GILBERT FONTENARD	GF		PROPERTY OF:	FDL CONSULT INC.	SCALE	1:75
						ISSUED DATE:	OCTOBER 2015			TYPE OF DRAWING	DESIGN DRAWINGS	SIZE	A2
										DRAWING NO	SLU-1510-S-027-GPF	SHEET	A-06

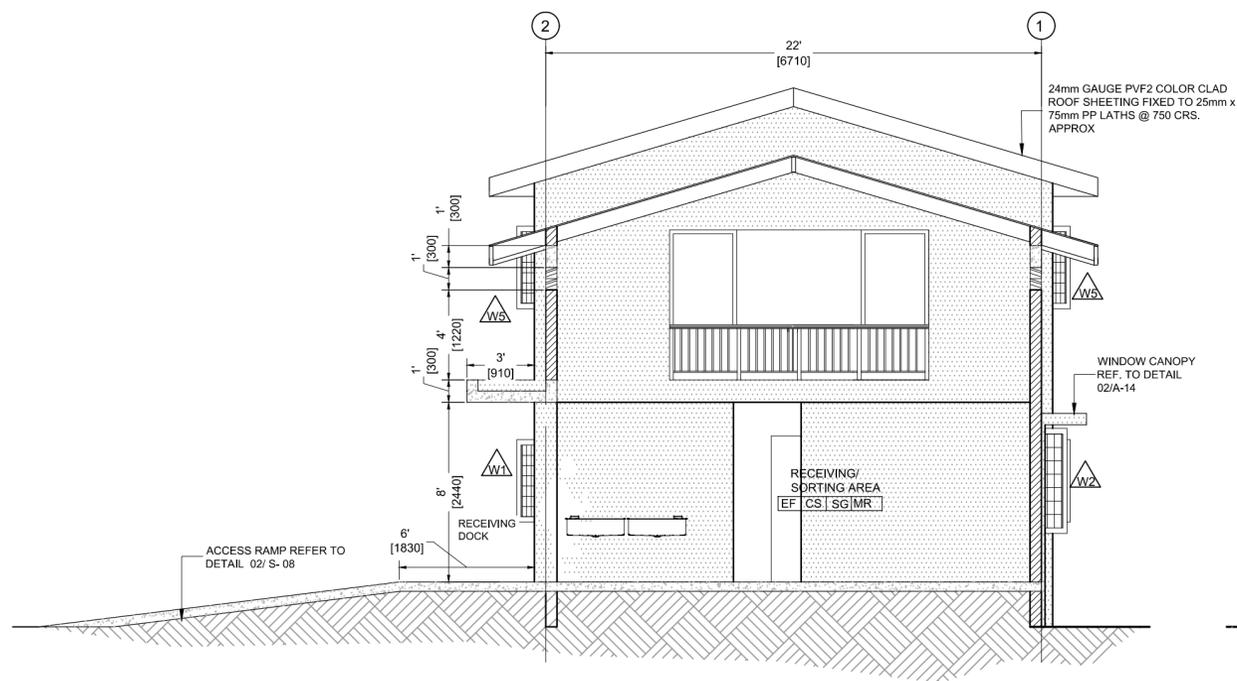




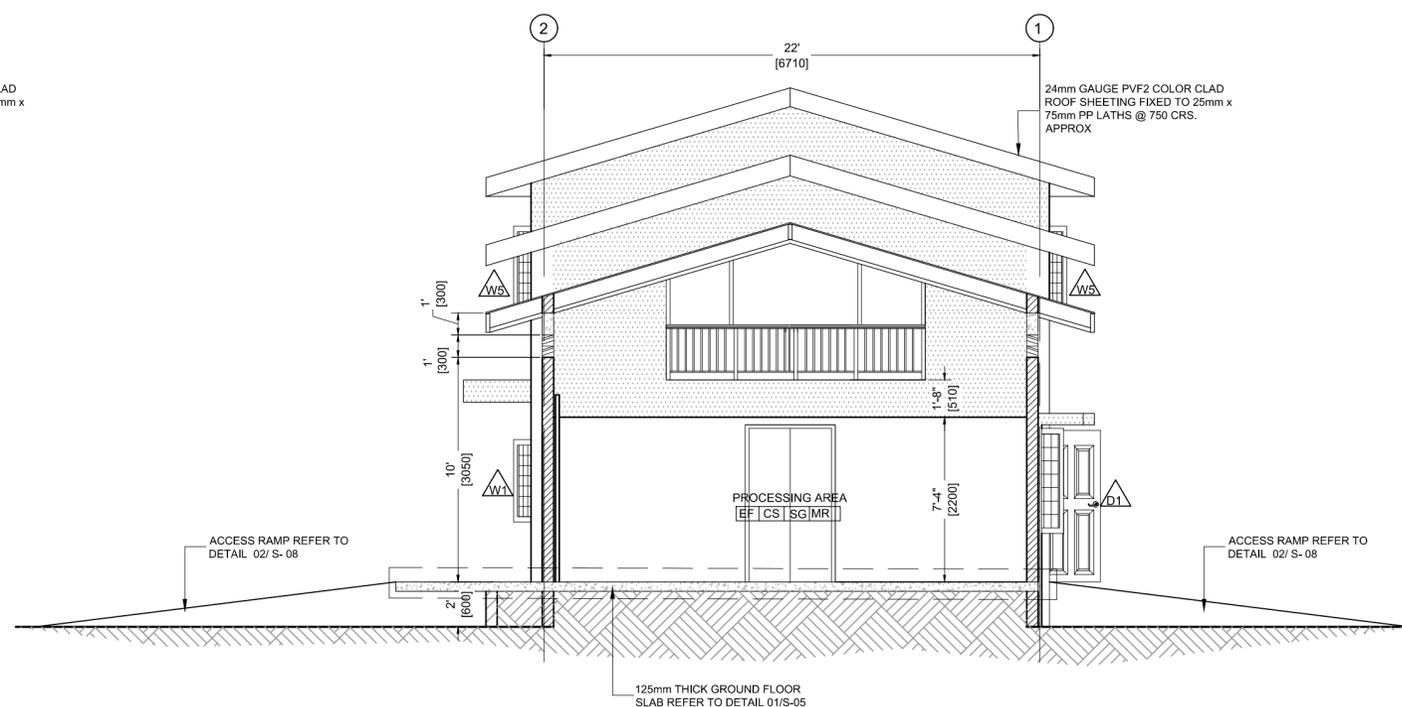
01 SECTION S5  
A-08 SCALE 1:75



02 SECTION S4  
A-08 SCALE 1:75



03 SECTION S3  
A-08 SCALE 1:75



04 SECTION S2  
A-08 SCALE 1:75

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ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED

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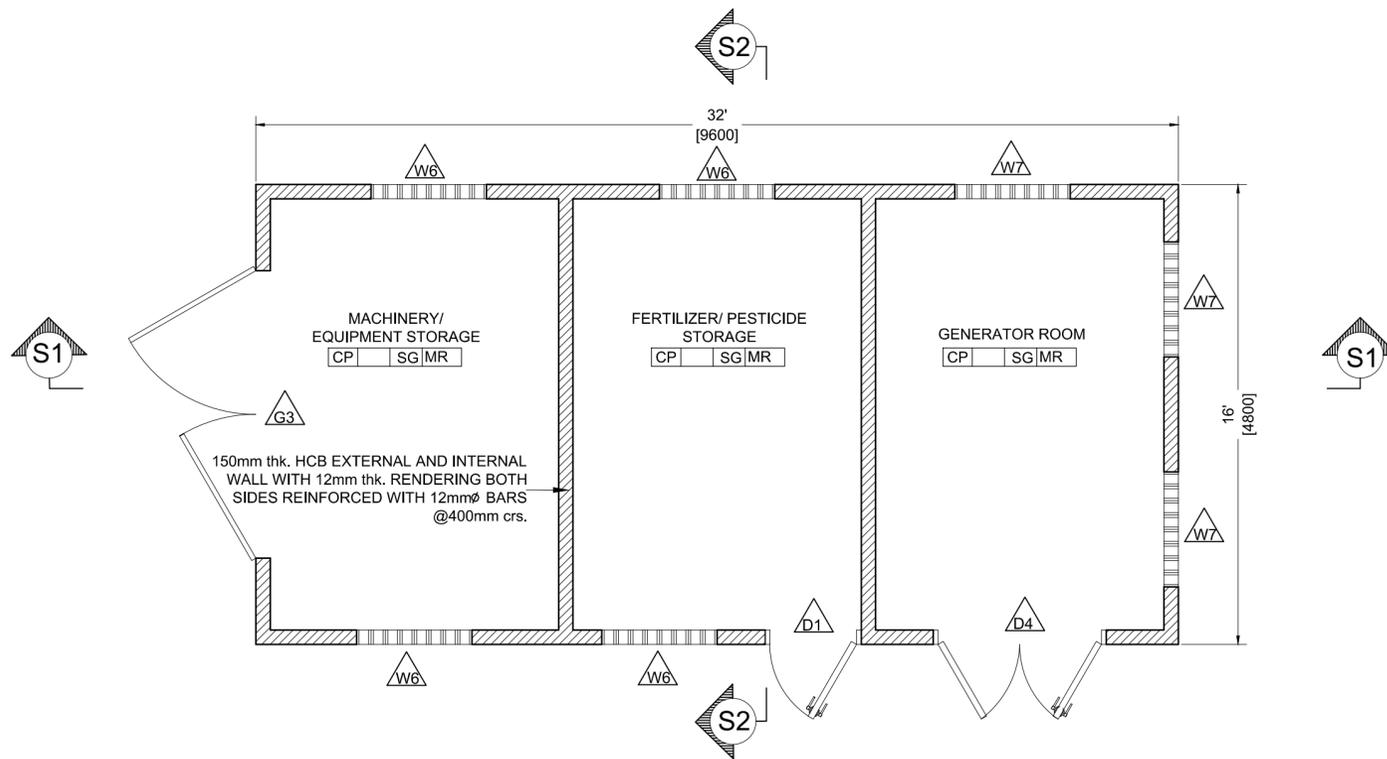
DESIGNED BY:	JAMAL FRANCIS	JF
DRAWN BY:	J. FRANCIS, D. JACKSON	JF, DJ
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APPROVED:	GILBERT FONTENARD	GF
ISSUED DATE:	OCTOBER 2015	
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	<b>GOVERNMENT OF ST. VINCENT AND THE GRENADINES</b> MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION		<b>FDL Consult Inc.</b> P.O. Box 1803 GOODLANDS CASTRIES ST. LUCIA Tel. (758) 457 6400 Fax. (758) 453 7048 email: fdl@fdiconsultinc.com website: www.fdlconsultinc.com
	CLIENT TITLE		
JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES	SCALE	SIZE
TYPE OF DRAWING	DESIGN DRAWINGS	1:100	A2

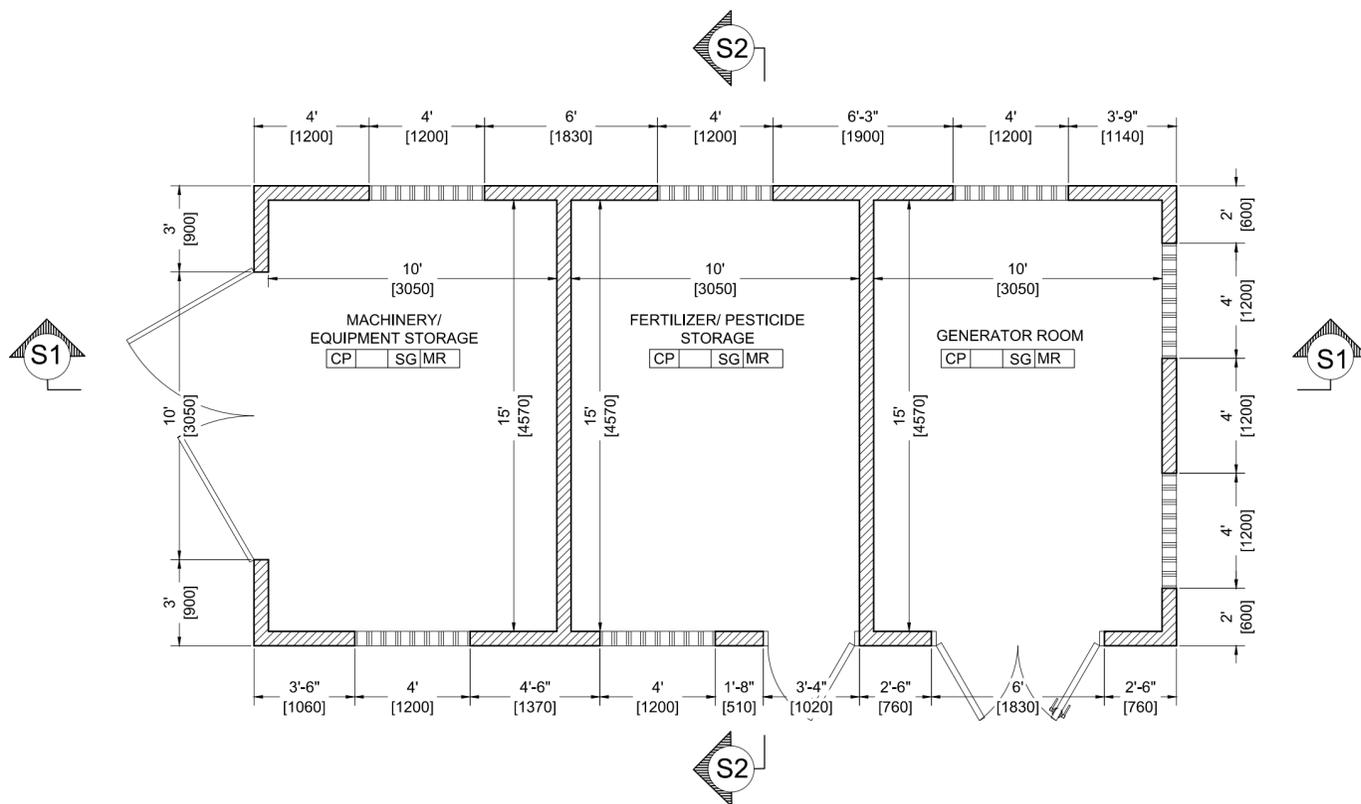
DRAWING NO SLU-1510-S-027-GPF	SHEET A-08
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**SYMBOL KEY**

150mm THK. HCB EXTERNAL AND INTERNAL WALL WITH 12mm THK. RENDERING BOTH SIDES REINFORCED WITH 12mmØ BARS @400mm CRS.



01 UTILITY BUILDING FURNITURE LAYOUT  
A-0 SCALE 1:50



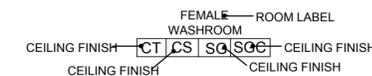
01 UTILITY BUILDING DIMENSIONED LAYOUT  
A-0 SCALE 1:50

**NOTES:**

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- EXTERNAL AND INTERNAL FINISHES EXTERNAL WALLS SHALL BE RENDERED AS FOLLOWS:
  - a- 2 COATS OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 20mm. ON EXTERNAL FACE.
  - b- 1 COAT OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 12mm. ON INTERNAL FACE.
  - c- PAINT COLOUR SHALL BE AS INDICATED
- UNLESS OTHERWISE INDICATED ALL FAIRFACED CONCRETE SHALL BE CHAMFERED 20x20mm.
- UNLESS OTHERWISE INDICATED ALL LINTELS OVER DOORS AND WINDOWS SHALL EXTEND 200mm FROM EACH SIDE OF OPENINGS.
- PROVIDE OPENINGS IN PARTITION WALLS ABOVE SUSPENDED CEILING AS REQUIRED AND SHOWN ON MECHANICAL DRAWINGS.
- HARDWARE SET OF EACH DOOR IS INDICATED ON DRAWING BELOW THE DOOR TYPE, OTHERWISE HARDWARE SET SHOULD BE PROVIDED BY DOOR MANUFACTURER.



ROOM FINISHES ARE RECORDED AS INDICATED BELOW:



- ALL PLASTER MUST REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
- ALL CERAMIC WALL TILES SHALL REACH 2200mm. FROM FFL AND THE REST PART SHALL BE POINTED WITH WATER RESISTANT PAINT.
- ALL WALL PAINT SHALL REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
- EXTERNAL GLASS TYPE SHALL BE OF HIGH PERFORMANCE DOUBLE GLAZING HAVING THE FOLLOWING CHARACTERISTICS: MAXIMUM U VALUE : UV 3.30/M2-C  
MAXIMUM SHADING COEFFICIENT : SC:0.46

FLOOR MATERIAL FINISH	
CT	600x600x8mm. THICK NON SLIP CERAMIC TILES.
CT3	150x150x6mm. THICK NON SLIP CERAMIC TILES.
CP	CAST IN PLACE CONCRETE WITH STAMPED SURFACE - SORRENTO
EP	EPOXY FINISH OR SIMILAR FLOOR FINISH
BASE MATERIAL FINISH	
CS	100mm HIGH CERAMIC SKIRTING MATCHING WITH FLOORING TILES.
WALL MATERIAL FINISH	
SG	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - EGGSHELL FINISH (RGB 240,234,214)
SGD	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - FIRE BRICK (RGB 145,34,34)
EM	EMULSION PAINT ON SAND CEMENT PLASTER EGGSHELL FINISH - EGGSHELL FINISH
CT3	150x150x6mm THICK GLAZED CERAMIC TILES
SG	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGGSHELL
SP	STUCCO OVER SAND CEMENT PLASTER - FIRE BRICK (RGB 240,234,214)
CEILING MATERIAL FINISH	
SGC	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGGSHELL
EB	EMULSION PAINT OVER 12 mm. THICK PLASTER BOARD JOINTLESS SUSPENDED CEILING - EGGSHELL
MR	0.7mm. STANDING SEAM METAL SHEETING ROOF COVERING.
SP	STUCCO OVER SAND CEMENT PLASTER - BAMBOO
EMC	EMULSION PAINT OVER SAND CEMENT PLASTER - EGGSHELL

REVISIONS					
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DRAWN BY:	J. FRANCIS, D. JACKSON	JF, DJ
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF
ISSUED DATE:	OCTOBER 2015	
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**CLIENT TITLE**  
**GOVERNMENT OF ST. VINCENT AND THE GRENADINES**  
 MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION

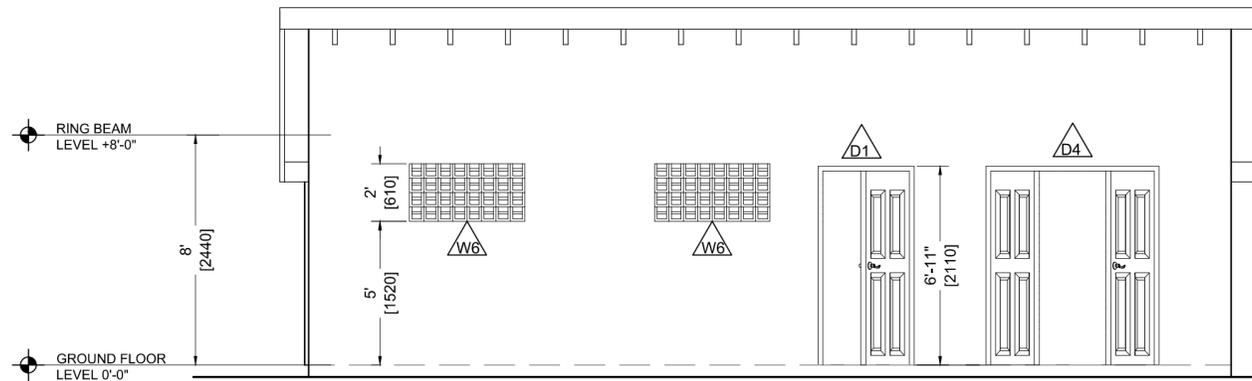
**JOB TITLE**  
 DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES

**TYPE OF DRAWING**  
 DESIGN DRAWINGS

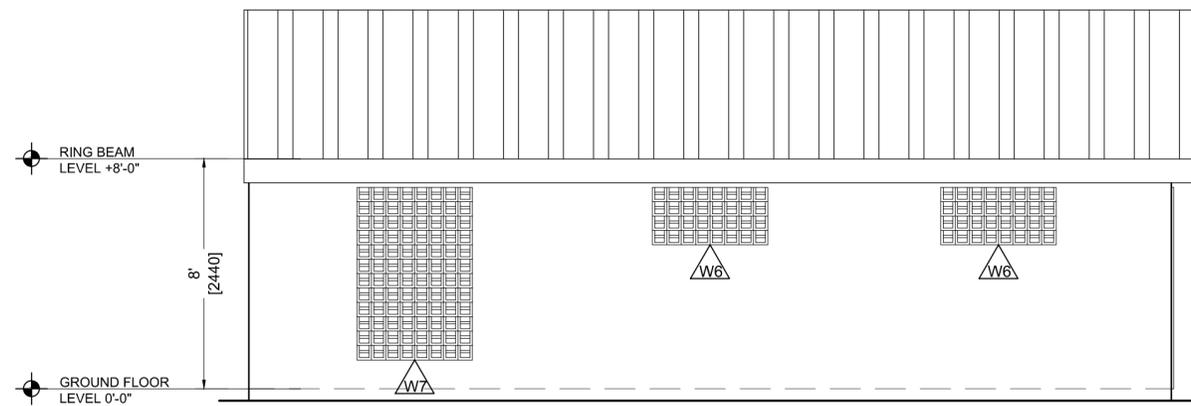
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 Fax. (758) 453 7048  
 email: fdl@fdiconsultinc.com  
 website: www.fdlconsultinc.com

**DRAWING TITLE**  
 UTILITY BUILDING FURNITURE AND DESCRIPTION LAYOUT

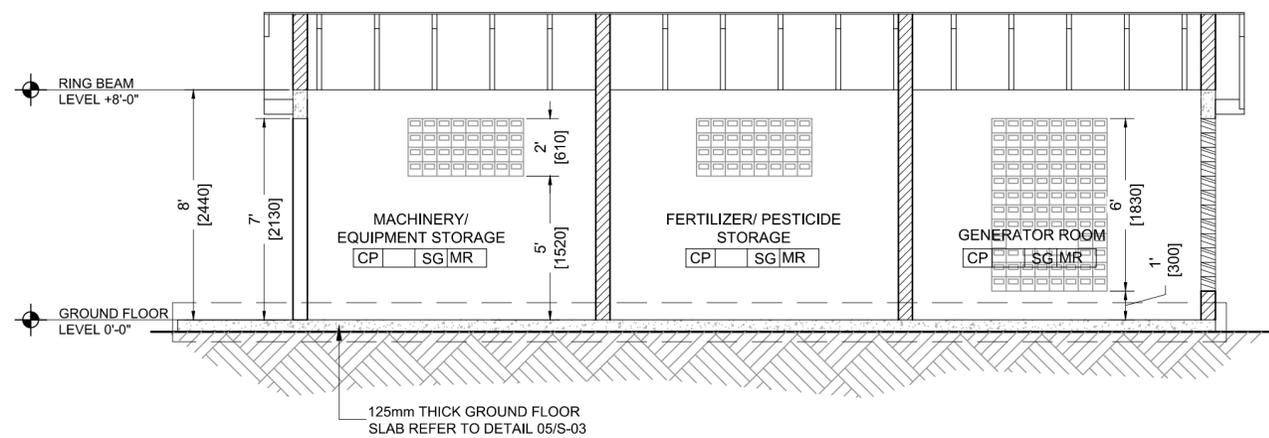
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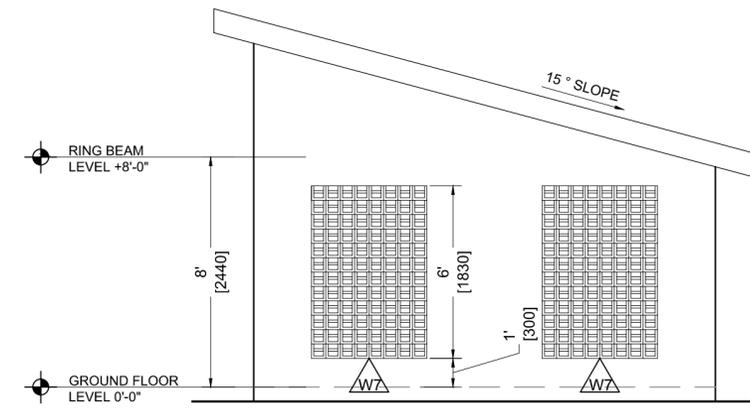
01 UTILITY BUILDING FRONT ELEVATION  
A-10 SCALE 1:50



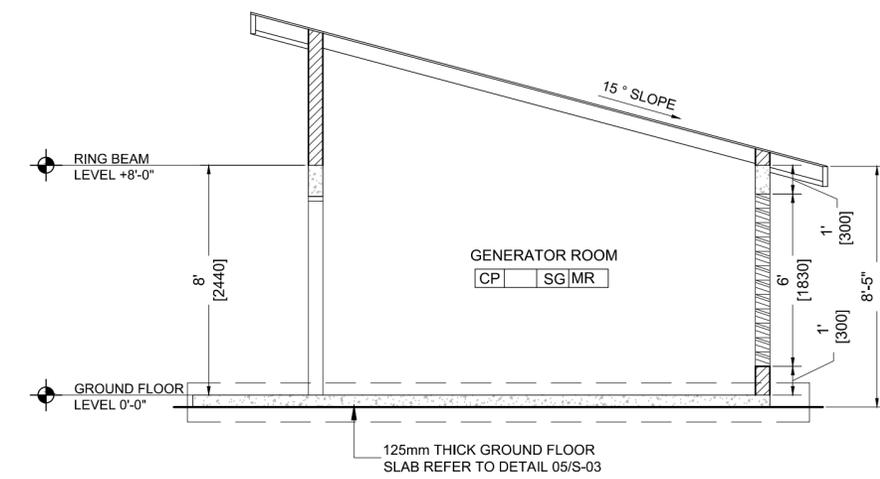
02 UTILITY BUILDING BACK ELEVATION  
A-10 SCALE 1:50



03 UTILITY BUILDING SECTION S1  
A-10 SCALE 1:50



04 UTILITY BUILDING SIDE ELEVATION  
A-10 SCALE 1:50



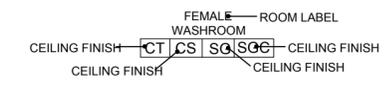
05 UTILITY BUILDING SECTION S2  
A-10 SCALE 1:50

NOTES:

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- EXTERNAL AND INTERNAL FINISHES EXTERNAL WALLS SHALL BE RENDERED AS FOLLOWS:
  - 2 COATS OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 20mm. ON EXTERNAL FACE.
  - 1 COAT OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 12mm. ON INTERNAL FACE.
  - PAINT COLOUR SHALL BE AS INDICATED
- UNLESS OTHERWISE INDICATED ALL FAIRFACED CONCRETE SHALL BE CHAMFERED 20x20mm.
- UNLESS OTHERWISE INDICATED ALL LINTELS OVER DOORS AND WINDOWS SHALL EXTEND 200mm FROM EACH SIDE OF OPENINGS.
- PROVIDE OPENINGS IN PARTITION WALLS ABOVE SUSPENDED CEILING AS REQUIRED AND SHOWN ON MECHANICAL DRAWINGS.
- HARDWARE SET OF EACH DOOR IS INDICATED ON DRAWING BELOW THE DOOR TYPE. OTHERWISE HARDWARE SET SHOULD BE PROVIDED BY DOOR MANUFACTURER.



ROOM FINISHES ARE RECORDED AS INDICATED BELOW:



FLOOR MATERIAL FINISH	
CT	600x600x8mm. THICK NON SLIP CERAMIC TILES.
CT3	150x150x6mm. THICK NON SLIP CERAMIC TILES.
CP	CAST IN PLACE CONCRETE WITH STAMPED SURFACE - SORRENTO
EP	EPOXY FINISH OR SIMILAR FLOOR FINISH
BASE MATERIAL FINISH	
CS	100mm HIGH CERAMIC SKIRTING MATCHING WITH FLOORING TILES.
WALL MATERIAL FINISH	
SG	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - EGGSHELL FINISH (RGB 240,234,214)
SGD	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - FIRE BRICK (RGB 145,34,34)
EM	EMULSION PAINT ON SAND CEMENT PLASTER EGG SHELL FINISH - EGG SHELL FINISH
CT3	150x150x6mm THICK GLAZED CERAMIC TILES
SG	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGG SHELL
SP	STUCCO OVER SAND CEMENT PLASTER - FIRE BRICK (RGB 240,234,214)
CEILING MATERIAL FINISH	
SGC	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGG SHELL
EB	EMULSION PAINT OVER 12 mm. THICK PLASTER BOARD JOINTLESS SUSPENDED CEILING - EGG SHELL
MR	0.7mm. STANDING SEAM METAL SHEETING ROOF COVERING.
SP	STUCCO OVER SAND CEMENT PLASTER - BAMBOO
EMC	EMULSION PAINT OVER SAND CEMENT PLASTER - EGG SHELL

REVISIONS					
ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED

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DRAWN BY:	J. FRANCIS, D. JACKSON	JF, DJ
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF
ISSUED DATE:	OCTOBER 2015	
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**CLIENT TITLE**  
**GOVERNMENT OF ST. VINCENT AND THE GRENADINES**  
 MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION

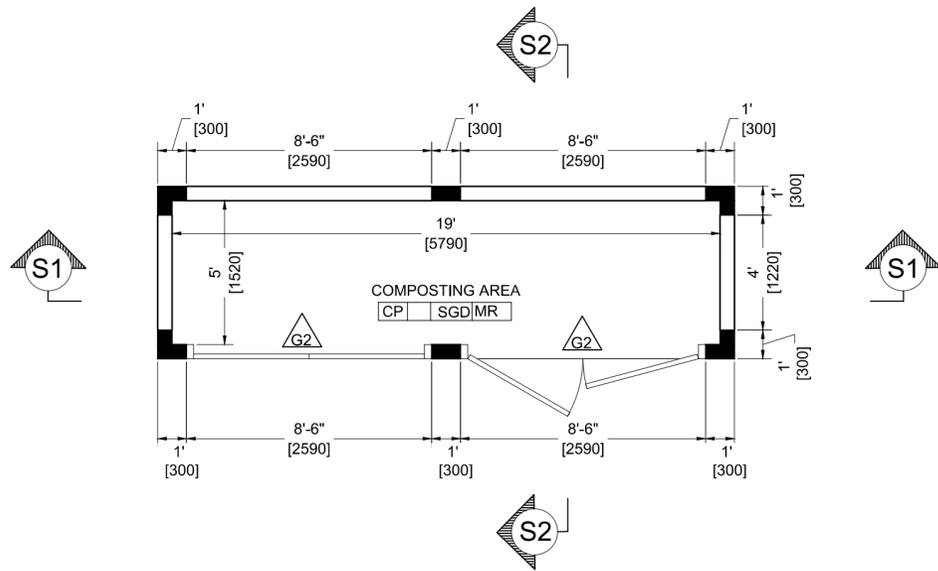
**JOB TITLE**  
 DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES

**TYPE OF DRAWING**  
 DESIGN DRAWINGS

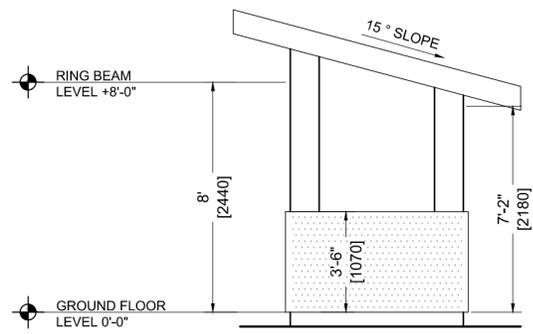
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**DRAWING TITLE**  
 UTILITY BUILDING ELEVATIONS AND SECTIONS

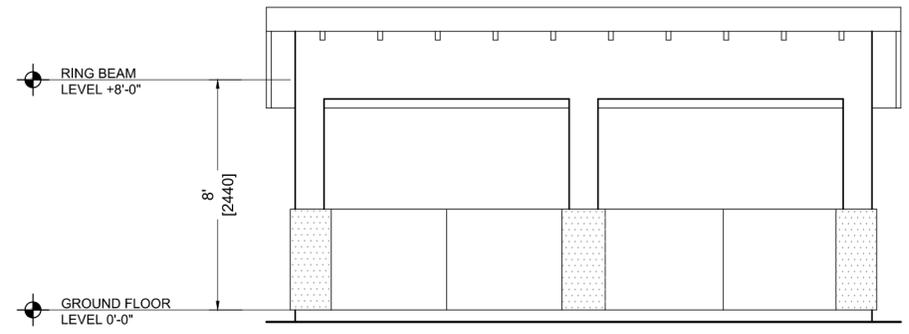
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1:50	A2	SLU-1510-S-027-GPF	A-10



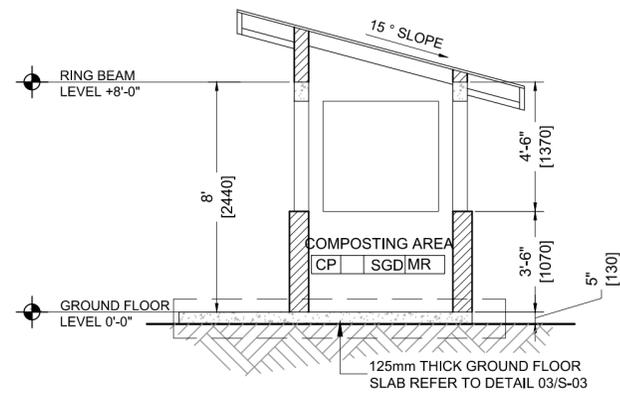
01 COMPOST BUILDING FLOOR LAYOUT  
A-11 SCALE 1:50



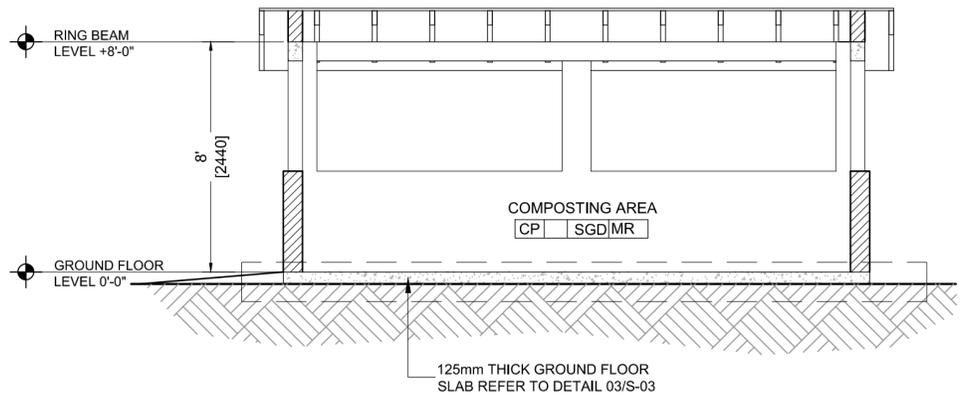
04 COMPOST BUILDING SIDE ELEVATION  
A-11 SCALE 1:50



02 COMPOST BUILDING FRONT ELEVATION  
A-11 SCALE 1:50



05 COMPOST BUILDING SECTION S2  
A-11 SCALE 1:50



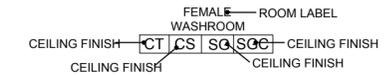
03 COMPOST BUILDING SECTION S1  
A-11 SCALE 1:50

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  - 1 COAT OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 12mm. ON INTERNAL FACE.
  - PAINT COLOUR SHALL BE AS INDICATED
- UNLESS OTHERWISE INDICATED ALL FAIRFACED CONCRETE SHALL BE CHAMFERED 20x20mm.
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ROOM FINISHES ARE RECORDED AS INDICATED BELOW:



- ALL PLASTER MUST REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
- ALL CERAMIC WALL TILES SHALL REACH 2200mm. FROM FFL AND THE REST PART SHALL BE POINTED WITH WATER RESISTANT PAINT.
- ALL WALL PAINT SHALL REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
- EXTERNAL GLASS TYPE SHALL BE OF HIGH PERFORMANCE DOUBLE GLAZING HAVING THE FOLLOWING CHARACTERISTICS: MAXIMUM U VALUE : UV 3.30/M2-C  
MAXIMUM SHADING COEFFICIENT : SC:0.46

FLOOR MATERIAL FINISH	
CT	600x600x8mm. THICK NON SLIP CERAMIC TILES.
CT3	150x150x6mm. THICK NON SLIP CERAMIC TILES.
CP	CAST IN PLACE CONCRETE WITH STAMPED SURFACE - SORRENTO
EP	EPOXY FINISH OR SIMILAR FLOOR FINISH
BASE MATERIAL FINISH	
CS	100mm HIGH CERAMIC SKIRTING MATCHING WITH FLOORING TILES.
WALL MATERIAL FINISH	
SG	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - EGGSHELL FINISH (RGB 240,234,214)
SGD	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - FIRE BRICK (RGB 145,34,34)
EM	EMULSION PAINT ON SAND CEMENT PLASTER EGGSHELL FINISH - EGGSHELL FINISH
CT3	150x150x6mm THICK GLAZED CERAMIC TILES
SG	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGGSHELL
SP	STUCCO OVER SAND CEMENT PLASTER - FIRE BRICK (RGB 240,234,214)
CEILING MATERIAL FINISH	
SGC	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGGSHELL
EB	EMULSION PAINT OVER 12 mm. THICK PLASTER BOARD JOINTLESS SUSPENDED CEILING - EGGSHELL
MR	0.7mm. STANDING SEAM METAL SHEETING ROOF COVERING.
SP	STUCCO OVER SAND CEMENT PLASTER - BAMBOO
EMC	EMULSION PAINT OVER SAND CEMENT PLASTER - EGGSHELL

REVISIONS					
ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED

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DRAWN BY:	J. FRANCIS, D. JACKSON	JF, DJ
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APPROVED:	GILBERT FONTENARD	GF
ISSUED DATE:	OCTOBER 2015	
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**CLIENT TITLE**  
**GOVERNMENT OF ST. VINCENT AND THE GRENADINES**  
 MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION

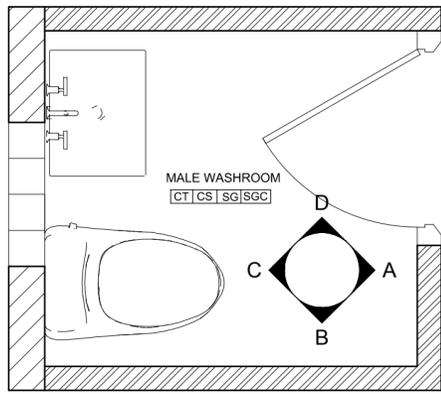
**JOB TITLE**  
 DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES

**TYPE OF DRAWING**  
 DESIGN DRAWINGS

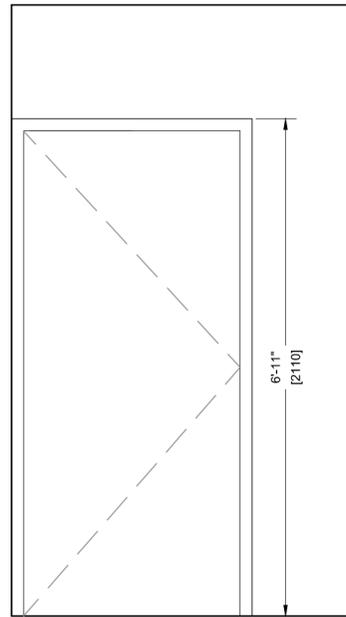
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 email: fdl@fdlconsultinc.com  
 website: www.fdlconsultinc.com

**DRAWING TITLE**  
 COMPOST BUILDING FLOOR LAYOUT, ELEVATIONS AND SECTIONS

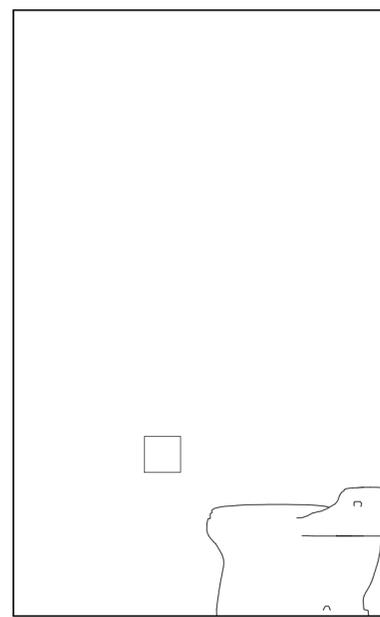
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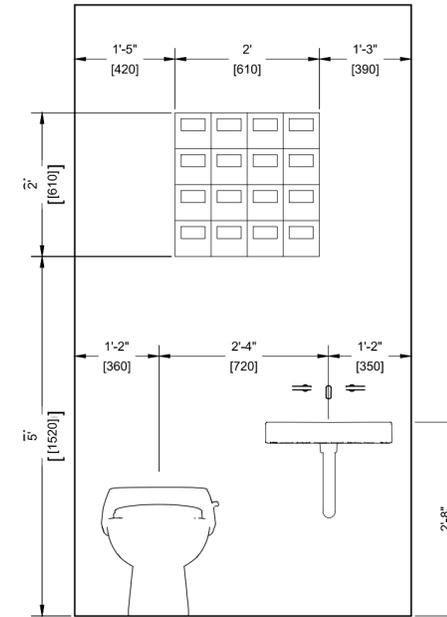
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A-12 SCALE 1:20



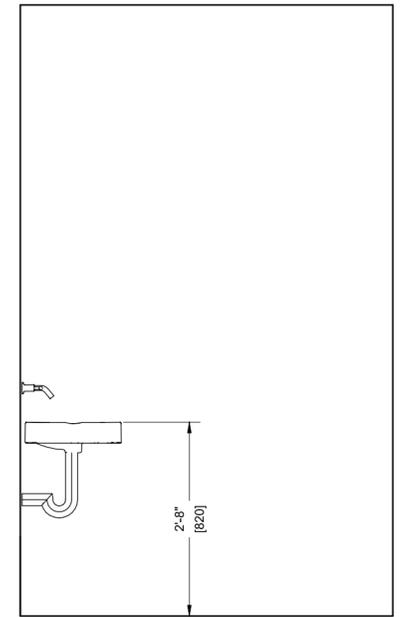
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A-12 SCALE 1:20



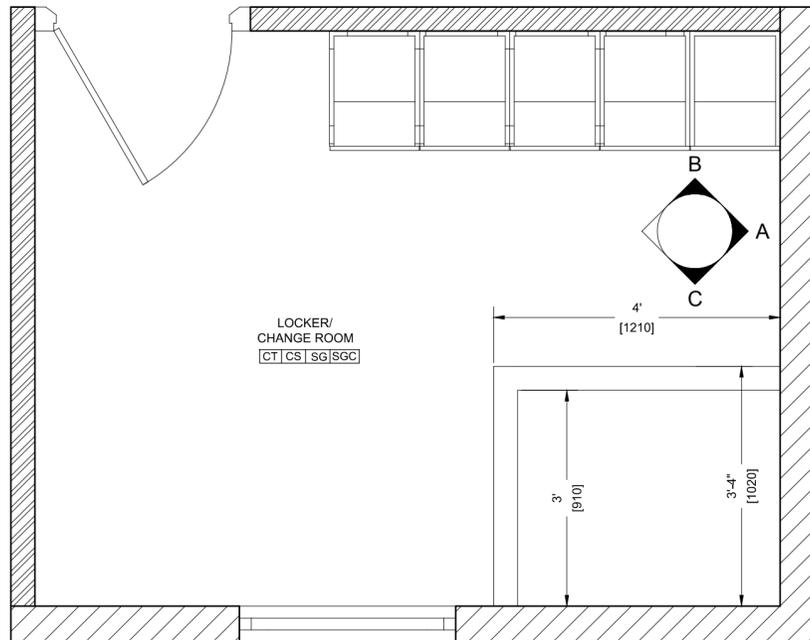
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A-12 SCALE 1:20



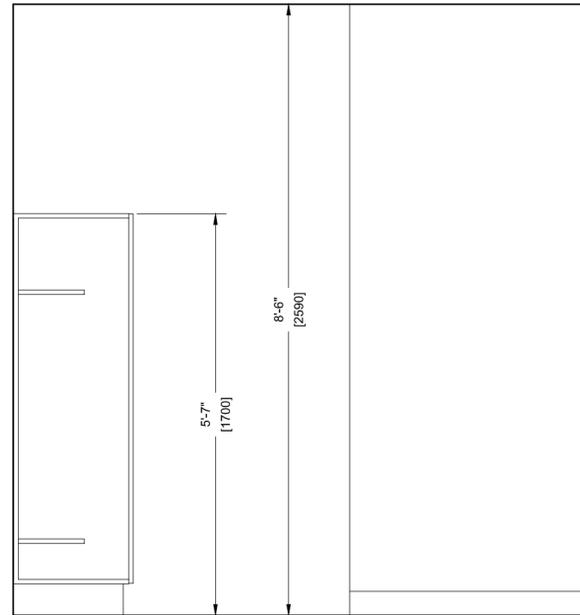
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A-12 SCALE 1:20



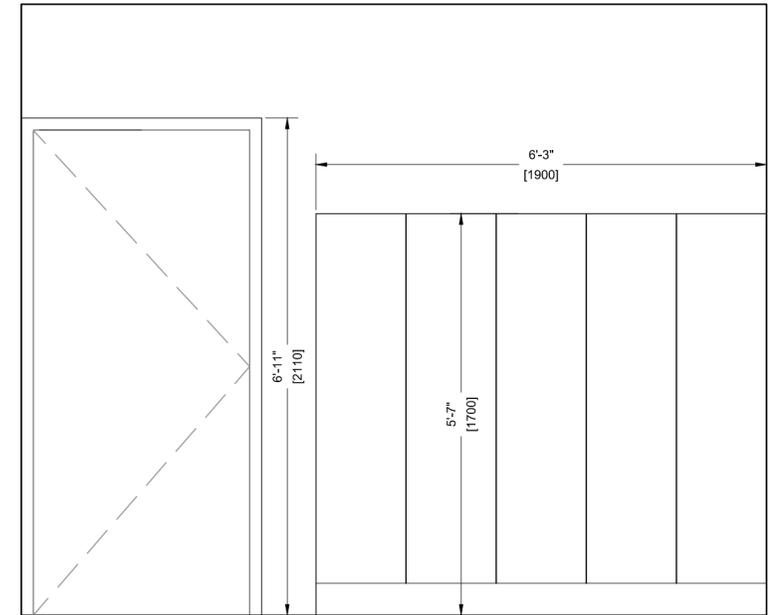
05 MALE/FEMALE WASHROOM ELEVATION D  
A-12 SCALE 1:20



06 LOCKER/CHANGEROOM PLAN  
A-12 SCALE 1:20



07 LOCKER/CHANGEROOM ELEVATION A  
A-12 SCALE 1:20



08 LOCKER/CHANGEROOM ELEVATION B  
A-12 SCALE 1:20

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ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED

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ISSUED DATE:	OCTOBER 2015	
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**CLIENT TITLE**  
**GOVERNMENT OF ST. VINCENT AND THE GRENADINES**  
 MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION

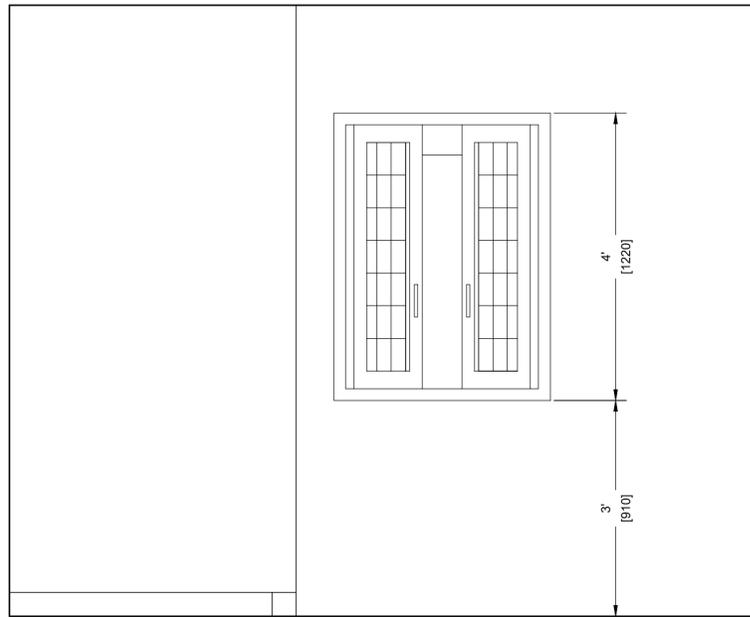
**JOB TITLE**  
 DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES

**TYPE OF DRAWING**  
 DESIGN DRAWINGS

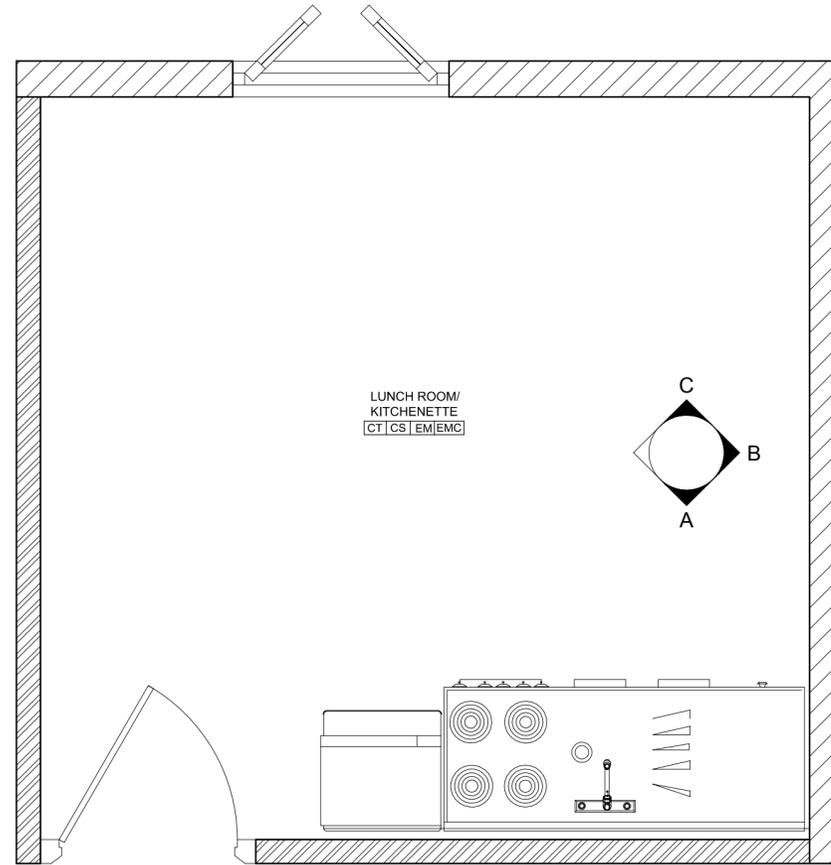
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 Fax. (758) 453 7048  
 email: fdl@fdlconsultinc.com  
 website: www.fdlconsultinc.com

**DRAWING TITLE**  
 ROOM ELEVATIONS (LOCKERS, MALE AND FEMALE WASHROOM)

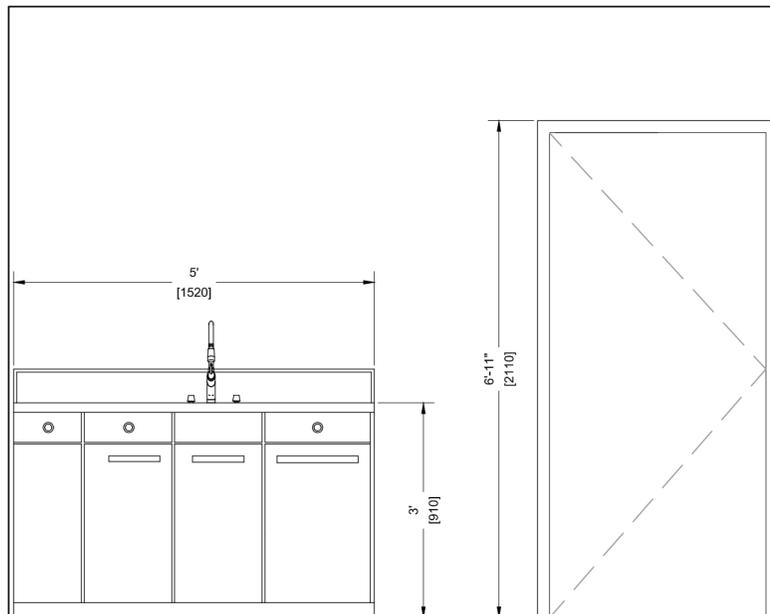
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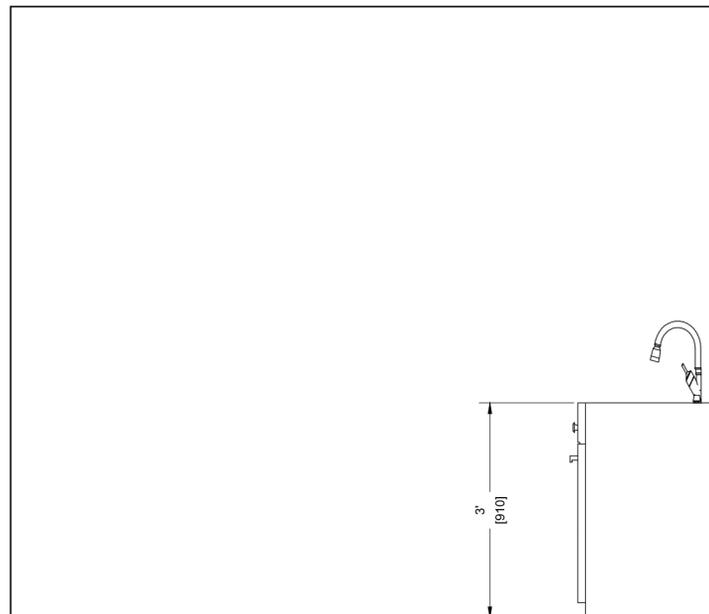
01 LOCKER/CHANGEROOM ELEVATION C  
A-13 SCALE 1:20



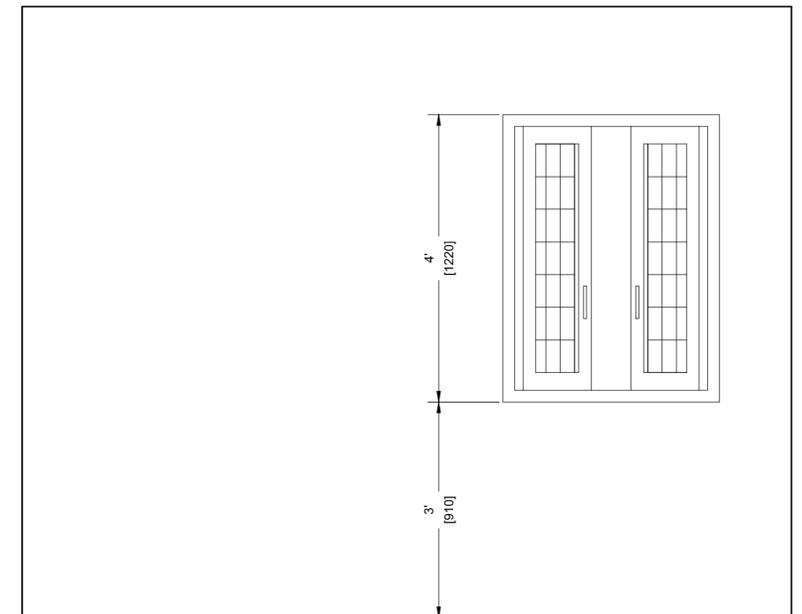
02 LUNCH ROOM/KITCHENT PLAN  
A-13 SCALE 1:20



03 LUNCH ROOM/KITCHENT ELEVATION A  
A-13 SCALE 1:20



04 LUNCH ROOM/KITCHENT ELEVATION B  
A-13 SCALE 1:20



05 LUNCH ROOM/KITCHENT ELEVATION C  
A-13 SCALE 1:20

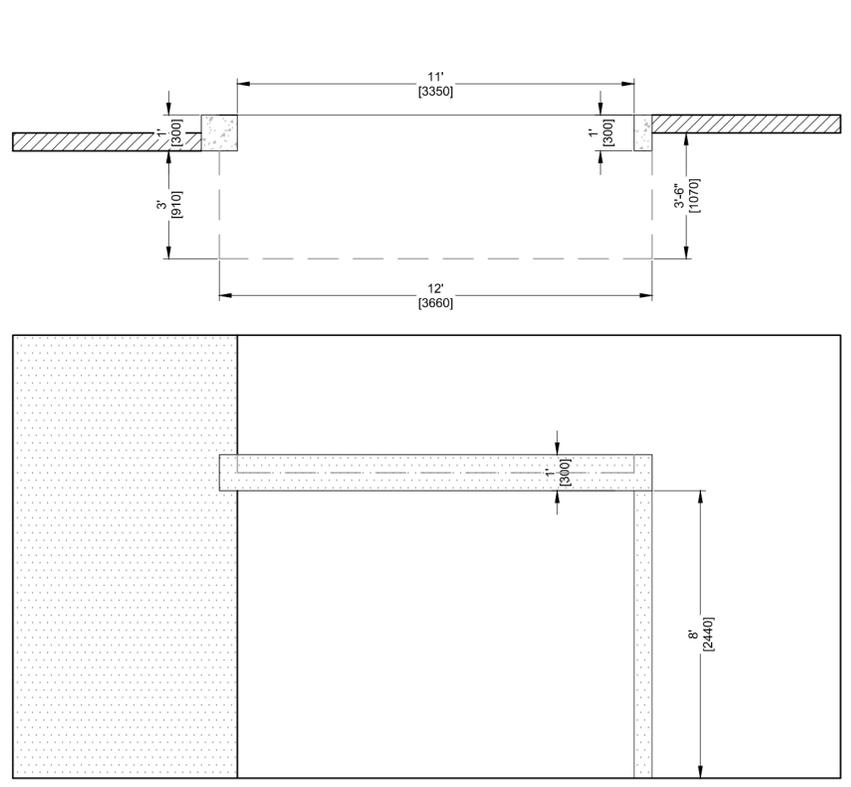
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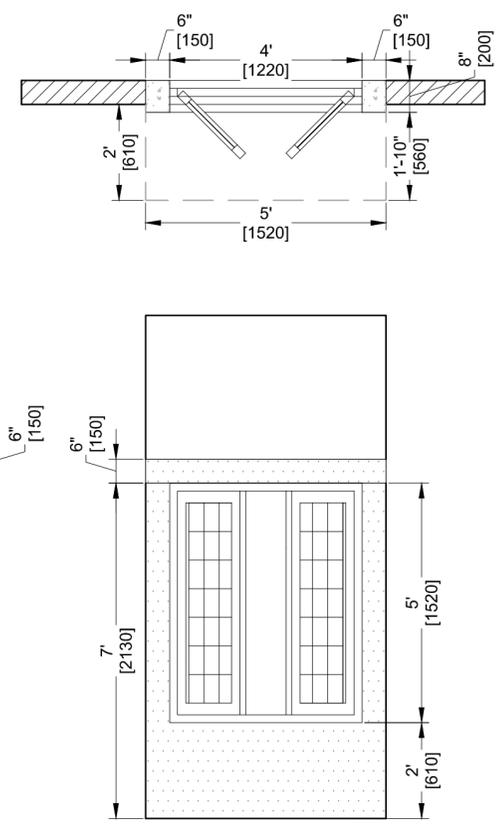
DESIGNED BY:	JAMAL FRANCIS	JF
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JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES
TYPE OF DRAWING	DESIGN DRAWINGS

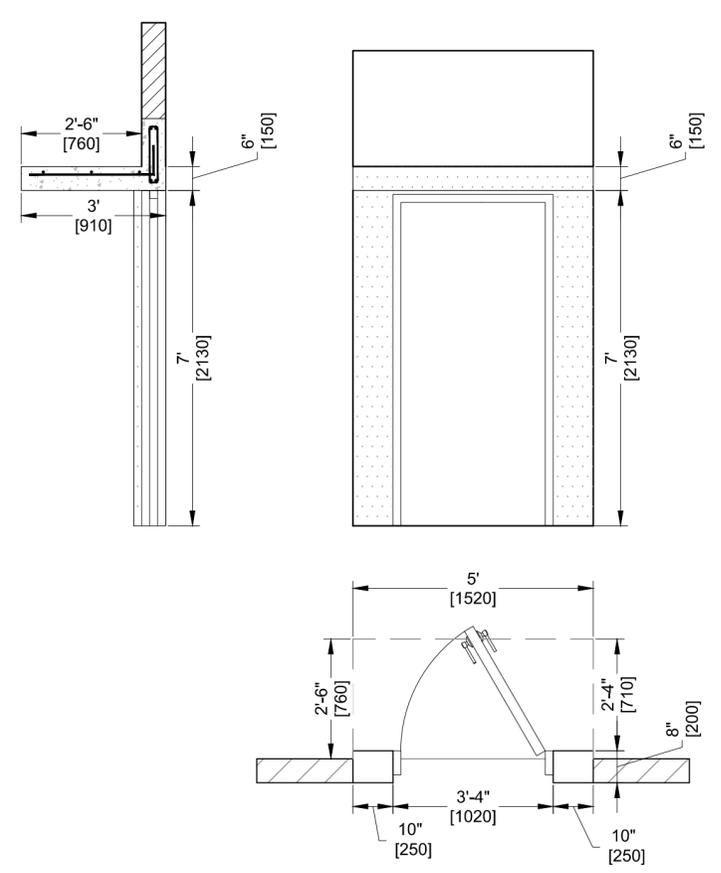
		<b>FDL Consult Inc.</b> P.O. Box 1803 GOODLANDS CASTRIES ST LUCIA Tel. (758) 457 8400 Fax. (758) 453 7048 email: fdl@fdlconsultinc.com website: www.fdlconsultinc.com	
DRAWING TITLE		ROOM ELEVATIONS (LUNCH AND KITCHENETTE)	
SCALE	SIZE	DRAWING NO	SHEET
1:100	A2	SLU-1510-S-027-GPF	A-13



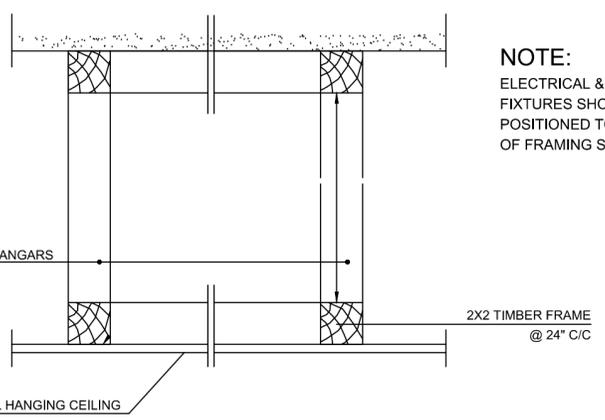
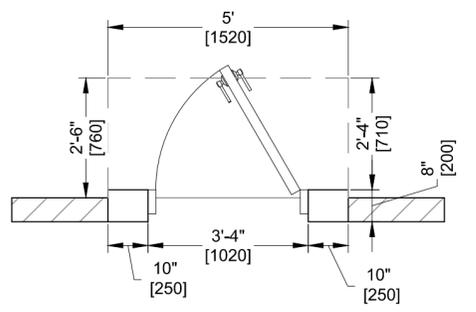
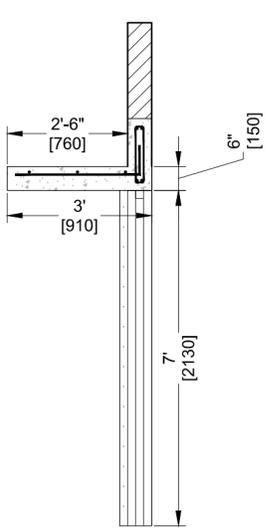
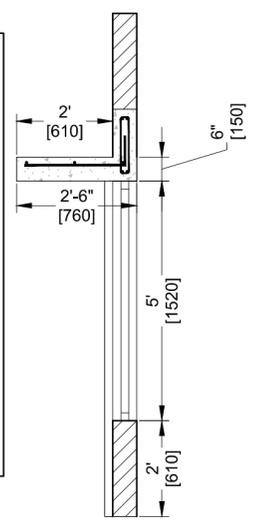
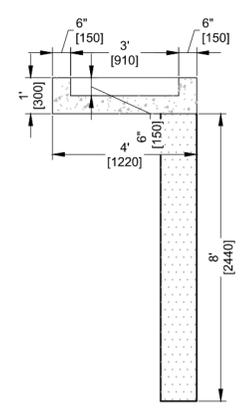
01 TYPICAL DOCK CANOPY  
A-14 SCALE 1:40



02 TYPICAL WINDOW CANOPY  
A-14 SCALE 1:10

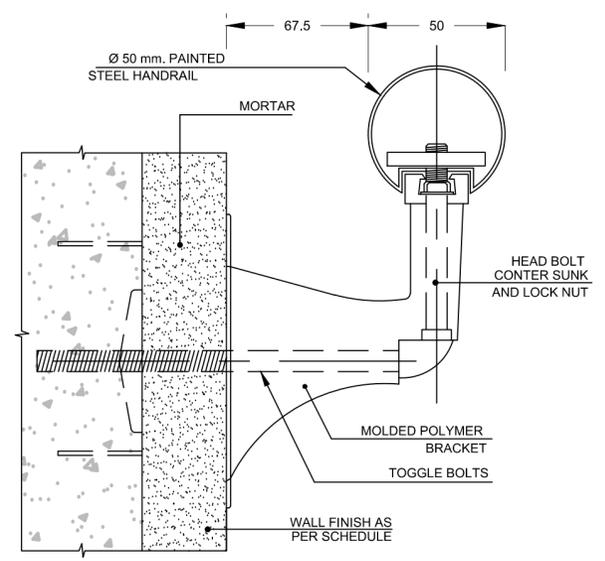


03 BACK DOOR CANOPY  
A-14 SCALE 1:30

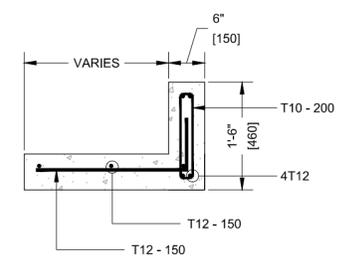


04 SUSPENDED CEILING DETAIL  
A-14 SCALE 1:10

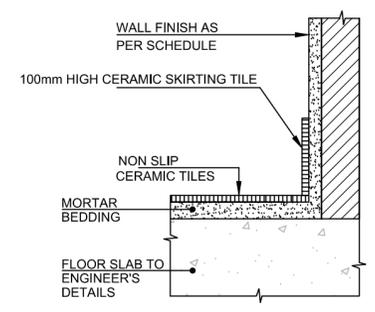
**NOTE:**  
ELECTRICAL & MECHANICAL  
FIXTURES SHOULD BE  
POSITIONED TO AVOID CUTTING  
OF FRAMING SYSTEM



05 STAIR HANDRAIL DETAIL  
A-14 SCALE 1:10



06 CANOPY REIN. DETAIL  
A-14 SCALE 1:20



07 TYPICAL TILED FLOOR DETAIL  
A-14 SCALE 1:10

REVISIONS					
ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED

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JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES
TYPE OF DRAWING	DESIGN DRAWINGS

DRAWING TITLE		ARCHITECTURAL DETAILS	
SCALE	SIZE	DRAWING NO	SHEET
AS SHOWN	A2	SLU-1510-S-027-GPF	A-14

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<b>G1</b>	NON STANDARD STEEL GATE WITH 2 X 2 RHS INTERNAL FRAMING AND ALUMINUM SHEET BOTH SIDES WITH STEEL CASTERS TOP AND BOTTOM RUNNING ON STEEL TRACK TOP AND BOTTOM FINISHED WITH 2 COATS AUTOMOTIVE PAINT (BONE WHITE)	<b>D1</b>	STANDARD HOLLOW CORE ALUMINUM EXTERNAL DOOR FINISH WITH 2 COATS AUTOMOTIVE PAINT (BONE WHITE) IN TREATED TIMBER FRAME	<b>D2</b>	<b>D3</b>	STANDARD HOLLOW CORE ALUMINUM EXTERNAL DOOR FINISH WITH 2 COATS AUTOMOTIVE PAINT (BONE WHITE) IN TREATED TIMBER FRAME	<b>D4</b>	STANDARD HOLLOW CORE ALUMINUM EXTERNAL DOOR FINISH WITH 2 COATS AUTOMOTIVE PAINT (BONE WHITE) IN TREATED TIMBER FRAME	<b>G2</b>	NON STANDARD STEEL GATE WITH 2 X 2 RHS INTERNAL FRAMING AND ALUMINUM SHEET BOTH SIDES WITH STEEL CASTERS TOP AND BOTTOM RUNNING ON STEEL TRACK TOP AND BOTTOM FINISHED WITH 2 COATS AUTOMOTIVE PAINT (BONE WHITE) IN 2 X 4 RHS FRAME WITH SAME FINISH	<b>G3</b>	NON STANDARD STEEL GATE WITH 2 X 2 RHS INTERNAL FRAMING AND ALUMINUM SHEET BOTH SIDES WITH STEEL CASTERS TOP AND BOTTOM RUNNING ON STEEL TRACK TOP AND BOTTOM FINISHED WITH 2 COATS AUTOMOTIVE PAINT (BONE WHITE) IN 2 X 4 RHS FRAME WITH SAME FINISH	

01 DOOR SCHEDULE  
A-15 SCALE: N.T.S

<b>W1</b>	STANDARD ALUMINUM WINDOW AND FRAME WITH AUTOMOTIVE PAINT FINISH (BONE WHITE)	<b>W2</b>	STANDARD ALUMINUM WINDOW AND FRAME WITH AUTOMOTIVE PAINT FINISH (BONE WHITE)	<b>W3</b>	RED CLAY VENT BLOCKS	<b>W4</b>	RED CLAY VENT BLOCKS	<b>W5</b>	RED CLAY VENT BLOCKS	<b>W6</b>	RED CLAY VENT BLOCKS	<b>W7</b>	RED CLAY VENT BLOCKS

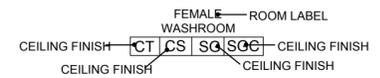
02 WINDOW SCHEDULE  
A-15 SCALE: N.T.S

NOTES:

- ALL LEVELS ARE IN METERS.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH OTHER TRADES
- UNLESS OTHERWISE INDICATED ALL EXTERNAL MASONRY UNITS SHALL REACH STRUCTURAL CEILING AND ALL CMU SHALL BE FILLED WITH CONCRETE AS SPECIFIED.
- EXTERNAL AND INTERNAL FINISHES EXTERNAL WALLS SHALL BE RENDERED AS FOLLOWS:
  - 2 COATS OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 20mm. ON EXTERNAL FACE.
  - 1 COAT OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 12mm. ON INTERNAL FACE.
  - PAINT COLOUR SHALL BE AS INDICATED
- UNLESS OTHERWISE INDICATED ALL FAIRFACED CONCRETE SHALL BE CHAMFERED 20x20mm.
- UNLESS OTHERWISE INDICATED ALL LINTELS OVER DOORS AND WINDOWS SHALL EXTEND 200mm FROM EACH SIDE OF OPENINGS.
- PROVIDE OPENINGS IN PARTITION WALLS ABOVE SUSPENDED CEILING AS REQUIRED AND SHOWN ON MECHANICAL DRAWINGS.
- HARDWARE SET OF EACH DOOR IS INDICATED ON DRAWING BELOW THE DOOR TYPE. OTHERWISE HARDWARE SET SHOULD BE PROVIDED BY DOOR MANUFACTURER.

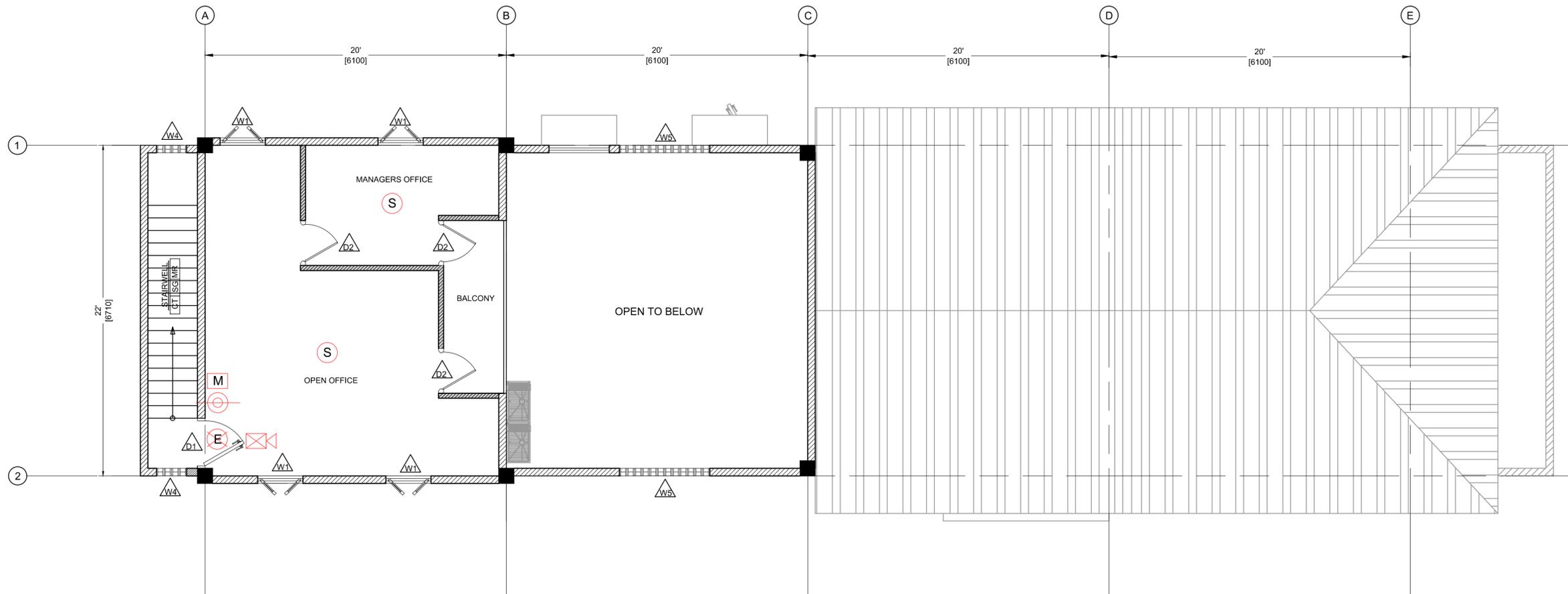


ROOM FINISHES ARE RECORDED AS INDICATED BELOW:



- ALL PLASTER MUST REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
- ALL CERAMIC WALL TILES SHALL REACH 2200mm. FROM FFL AND THE REST PART SHALL BE POINTED WITH WATER RESISTANT PAINT.
- ALL WALL PAINT SHALL REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
- EXTERNAL GLASS TYPE SHALL BE OF HIGH PERFORMANCE DOUBLE GLAZING HAVING THE FOLLOWING CHARACTERISTICS: MAXIMUM U VALUE : UV 3.30/M2-C  
MAXIMUM SHADING COEFFICIENT : SC:0.46

<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>ISSUE</th> <th>DATE</th> <th>NATURE OF CHANGE</th> <th>ECN</th> <th>BY</th> <th>CHECKED</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>						ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED																															<p>COPYRIGHT/NOTES:</p> <p>This drawing is copyright and should not be reproduced without prior permission.</p> <p>It is to be read in conjunction with all relevant design drawings and specification.</p> <p>Scaled dimensions should not be taken from this drawing. All dimensions must be checked on site prior to manufacture and commencement of works. Notify FDL CONSULT of any discrepancies or omissions observed without delay</p>						<p>DESIGNED BY: JAMAL FRANCIS JF</p> <p>DRAWN BY: J. FRANCIS, D. JACKSON JF, DJ</p> <p>CHECKED: GILBERT FONTENARD GF</p> <p>APPROVED: GILBERT FONTENARD GF</p> <p>ISSUED DATE: OCTOBER 2015</p> <p>PROPERTY OF: FDL CONSULT INC.</p>			<p>CLIENT TITLE: GOVERNMENT OF ST. VINCENT AND THE GRENADINES</p> <p>MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION</p> <p>JOB TITLE: DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES</p> <p>TYPE OF DRAWING: DESIGN DRAWINGS</p>			<p>FDL Consult Inc.</p> <p>P O Box 1803 GOODLANDS CASTRIES ST. LUCIA Tel. (758) 457 6400 Fax. (758) 453 7048 email: fdl@fdlconsultinc.com website: www.fdlconsultinc.com</p>			<p>DRAWING TITLE: DOOR AND WINDOW SCHEDULE</p> <p>SCALE: N.T.S. SIZE: A2 DRAWING NO: SLU-1510-S-027-GPF SHEET: A-15</p>		
ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED																																																						



01 PACKING BUILDING FIRST FLOOR FIRE LAYOUT  
F-02 SCALE 1:75

**LEGEND**

- FIRE ALARM CONTROL PANEL
- STROBE
- HORN/STROBE
- MANUAL PULL STATION
- EXIT SIGN
- PHOTOELECTRIC SMOKE DETECTOR
- COMBINATION SMOKE & HEAT DETECTOR
- 10LBS ABC FIRE EXTINGUISHER

**SYMBOL KEY**

	200mm THK. HCB EXTERNAL AND INTERNAL WALL WITH 12mm THK. RENDERING BOTH SIDES REINFORCED WITH 12mm $\phi$ BARS @400mm crs.
	150mm THK. HCB EXTERNAL AND INTERNAL WALL WITH 12mm THK. RENDERING BOTH SIDES REINFORCED WITH 12mm $\phi$ BARS @400mm crs.

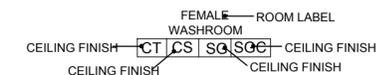
FLOOR MATERIAL FINISH		BASE MATERIAL FINISH		WALL MATERIAL FINISH		CEILING MATERIAL FINISH	
CT	600x600x8mm. THICK NON SLIP CERAMIC TILES.	CS	100mm HIGH CERAMIC SKIRTING MATCHING WITH FLOORING TILES.	SG	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - EGG SHELL FINISH (RGB 240,234,214)	SGC	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGG SHELL
CT3	150x150x6mm. THICK NON SLIP CERAMIC TILES.			SGD	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - FIRE BRICK (RGB 145,34,34)	EB	EMULSION PAINT OVER 12mm THICK PLASTER BOARD JOINTLESS SUSPENDED CEILING - EGG SHELL
CP	CAST IN PLACE CONCRETE WITH STAMPED SURFACE - SORRENTO			EM	EMULSION PAINT ON SAND CEMENT PLASTER EGG SHELL FINISH - EGG SHELL FINISH	MR	0.7mm. STANDING SEAM METAL SHEETING ROOF COVERING.
EP	EPOXY FINISH OR SIMILAR FLOOR FINISH			CT3	150x150x6mm THICK GLAZED CERAMIC TILES	SP	STUCCO OVER SAND CEMENT PLASTER - BAMBOO
				SG	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGG SHELL	EMC	EMULSION PAINT OVER SAND CEMENT PLASTER - EGG SHELL
				SP	STUCCO OVER SAND CEMENT PLASTER - FIRE BRICK (RGB 240,234,214)		

**NOTES:**

1. ALL LEVELS ARE IN METERS.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH OTHER TRADES
3. UNLESS OTHERWISE INDICATED ALL EXTERNAL MASONRY UNITS SHALL REACH STRUCTURAL CEILING AND ALL CMU SHALL BE FILLED WITH CONCRETE AS SPECIFIED.
4. EXTERNAL AND INTERNAL FINISHES EXTERNAL WALLS SHALL BE RENDERED AS FOLLOWS:
  - a- 2 COATS OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 20mm. ON EXTERNAL FACE.
  - b- 1 COAT OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 12mm. ON INTERNAL FACE.
  - c- PAINT COLOUR SHALL BE AS INDICATED
5. UNLESS OTHERWISE INDICATED ALL FAIRFACED CONCRETE SHALL BE CHAMFERED 20x20mm.
6. UNLESS OTHERWISE INDICATED ALL LINTELS OVER DOORS AND WINDOWS SHALL EXTEND 200mm FROM EACH SIDE OF OPENINGS.
7. PROVIDE OPENINGS IN PARTITION WALLS ABOVE SUSPENDED CEILING AS REQUIRED AND SHOWN ON MECHANICAL DRAWINGS.
8. HARDWARE SET OF EACH DOOR IS INDICATED ON DRAWING BELOW THE DOOR TYPE, OTHERWISE HARDWARE SET SHOULD BE PROVIDED BY DOOR MANUFACTURER.



ROOM FINISHES ARE RECORDED AS INDICATED BELOW:



10. ALL PLASTER MUST REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
11. ALL CERAMIC WALL TILES SHALL REACH 2200mm. FROM FFL AND THE REST PART SHALL BE POINTED WITH WATER RESISTANT PAINT.
12. ALL WALL PAINT SHALL REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
13. EXTERNAL GLASS TYPE SHALL BE OF HIGH PERFORMANCE DOUBLE GLAZING HAVING THE FOLLOWING CHARACTERISTICS: MAXIMUM U VALUE : UV 3.30/M2-C  
MAXIMUM SHADING COEFFICIENT : SC:0.46

REVISIONS					
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ISSUED DATE:	OCTOBER 2015	
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**CLIENT TITLE**  
**GOVERNMENT OF ST. VINCENT AND THE GRENADINES**  
MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION

**JOB TITLE**  
DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES

**TYPE OF DRAWING**  
DESIGN DRAWINGS

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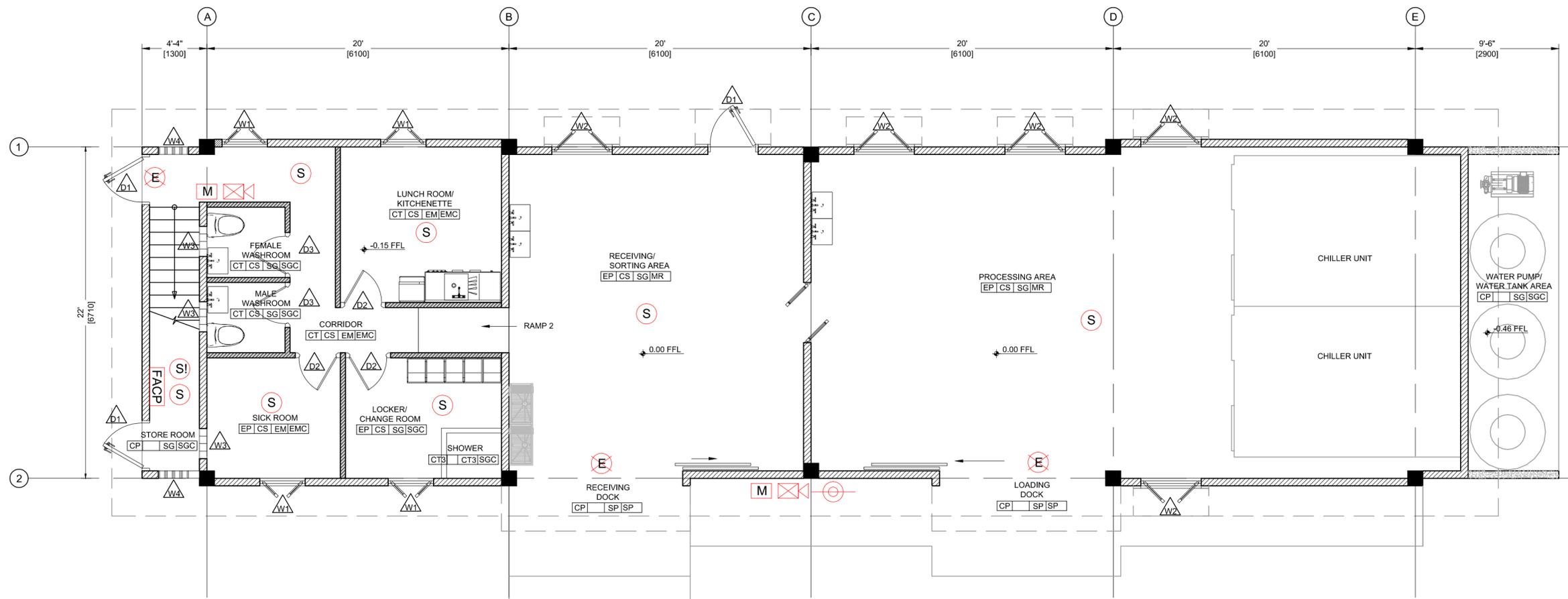
**DRAWING TITLE**  
PACKING BUILDING FIRST FLOOR FIRE LAYOUT

**SCALE**  
1:75

**SIZE**  
A2

**DRAWING NO**  
SLU-1510-S-027-GPF

**SHEET**  
F-02



01 PACKING BUILDING GROUND FLOOR FIRE LAYOUT  
F-01 SCALE 1:75

**LEGEND**

- FIRE ALARM CONTROL PANEL
- STROBE
- HORN/STROBE
- MANUAL PULL STATION
- EXIT SIGN
- PHOTOELECTRIC SMOKE DETECTOR
- COMBINATION SMOKE & HEAT DETECTOR
- 10LBS ABC FIRE EXTINGUISHER

**SYMBOL KEY**

	100mm THK. HCB EXTERNAL AND INTERNAL WALL WITH 12mm THK. RENDERING BOTH SIDES REINFORCED WITH 12mm $\varnothing$ BARS @400mm crs.
	150mm THK. HCB EXTERNAL AND INTERNAL WALL WITH 12mm THK. RENDERING BOTH SIDES REINFORCED WITH 12mm $\varnothing$ BARS @400mm crs.
	200mm THK. LOAD BEARING WALL REINF. WITH T16 @ 200mm C/C VERTICAL AND T12 @ 150mm C/C HORIZONTAL

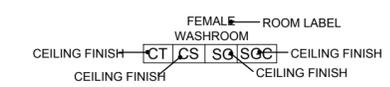
FLOOR MATERIAL FINISH		BASE MATERIAL FINISH		WALL MATERIAL FINISH		CEILING MATERIAL FINISH	
CT	600x600x8mm. THICK NON SLIP CERAMIC TILES.	CS	100mm HIGH CERAMIC SKIRTING MATCHING WITH FLOORING TILES.	SG	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - EGGSHELL FINISH (RGB 240,234,214)	SGC	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGGSHELL
CT3	150x150x6mm. THICK NON SLIP CERAMIC TILES.			SGD	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - FIRE BRICK (RGB 145,34,34)	EB	EMULSION PAINT OVER 12 mm THICK PLASTER BOARD JOINTLESS SUSPENDED CEILING - EGGSHELL
CP	CAST IN PLACE CONCRETE WITH STAMPED SURFACE - SORRENTO			EM	EMULSION PAINT ON SAND CEMENT PLASTER EGGSHELL FINISH - EGGSHELL FINISH	MR	0.7mm. STANDING SEAM METAL SHEETING ROOF COVERING.
EP	EPOXY FINISH OR SIMILAR FLOOR FINISH			CT3	150x150x6mm THICK GLAZED CERAMIC TILES	SP	STUCCO OVER SAND CEMENT PLASTER - BAMBOO
				SG	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGGSHELL	EMC	EMULSION PAINT OVER SAND CEMENT PLASTER - EGGSHELL
				SP	STUCCO OVER SAND CEMENT PLASTER - FIRE BRICK (RGB 240,234,214)		

**NOTES:**

- ALL LEVELS ARE IN METERS.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH OTHER TRADES
- UNLESS OTHERWISE INDICATED ALL EXTERNAL MASONRY UNITS SHALL REACH STRUCTURAL CEILING AND ALL CMU SHALL BE FILLED WITH CONCRETE AS SPECIFIED.
- EXTERNAL AND INTERNAL FINISHES EXTERNAL WALLS SHALL BE RENDERED AS FOLLOWS:
  - a- 2 COATS OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 20mm. ON EXTERNAL FACE.
  - b- 1 COAT OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 12mm. ON INTERNAL FACE.
  - c- PAINT COLOUR SHALL BE AS INDICATED
- UNLESS OTHERWISE INDICATED ALL FAIRFACED CONCRETE SHALL BE CHAMFERED 20x20mm.
- UNLESS OTHERWISE INDICATED ALL LINTELS OVER DOORS AND WINDOWS SHALL EXTEND 200mm FROM EACH SIDE OF OPENINGS.
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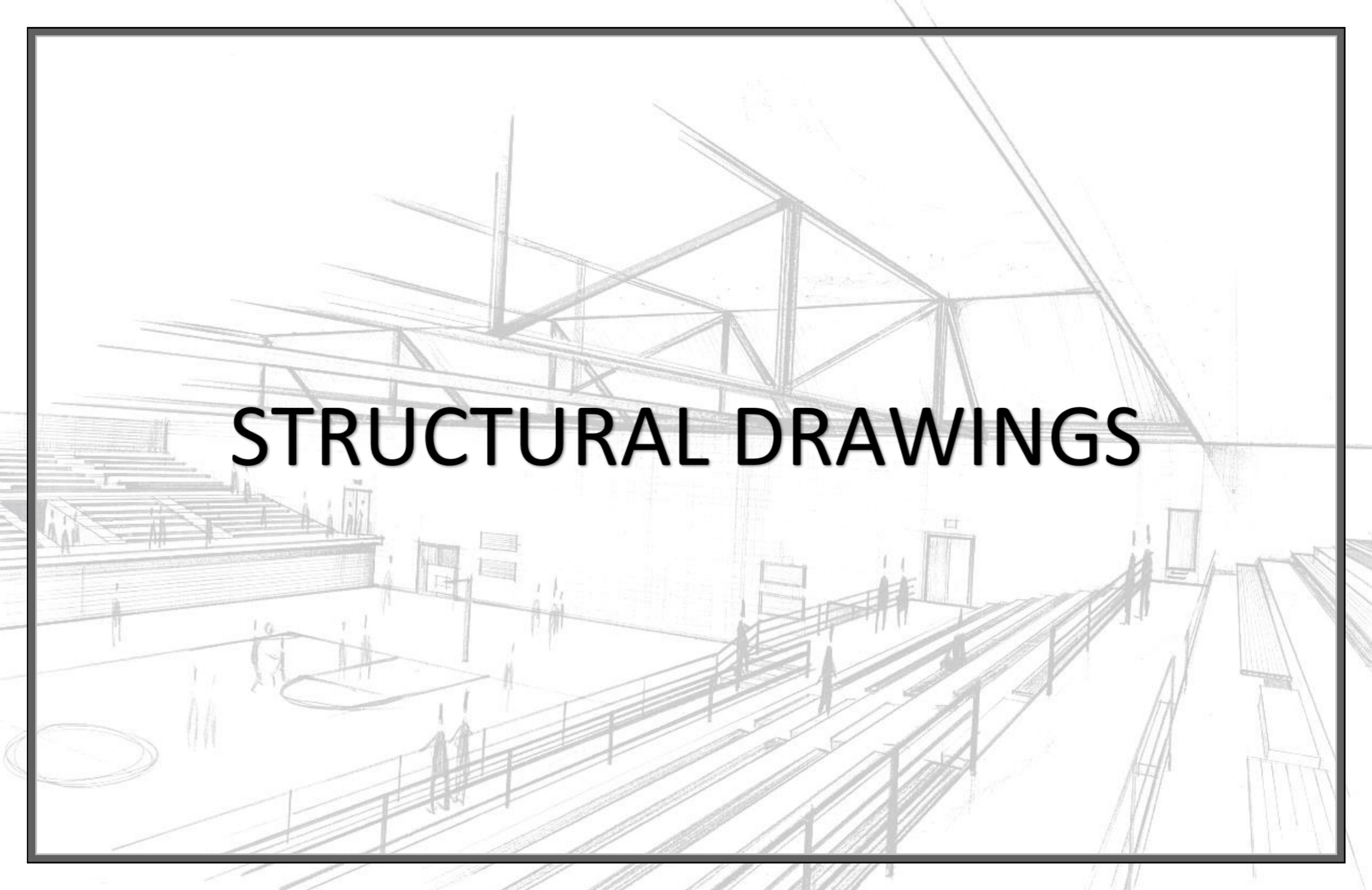


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# STRUCTURAL DRAWINGS



### 1.0 - GENERAL

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- PRIOR TO CONSTRUCTION, VERIFY ALL DIMENSIONS ON DRAWINGS AND REPORT ANY INCONSISTENCIES TO THE ENGINEER. PLEASE DO NOT SCALE THE DRAWINGS.
- THE STRUCTURAL DRAWINGS ARE TO BE READ IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS AND THE TECHNICAL SPECIFICATIONS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR PROMPT RESOLUTION.
- NOTIFY THE SUPERVISING ENGINEER 24 HOURS PRIOR TO COMMENCING STEEL INSTALLATION, PLACING OF CONCRETE AND BEGINNING OF MASONRY WORK.

### 2.0 - DESIGN DATA

- DESIGN CODES: ACI 318-08 / ASCE/SEI 7-10 / IBC 2003
- GRAVITY LOADING  
LIVE LOADS: FLOORS = 4 KN/m<sup>2</sup>  
ROOF = 1.5 KN/m<sup>2</sup>
- WIND DESIGN DATA (RP 1700)  
DESIGN WIND SPEED: V<sub>WD</sub> = 67 m/s (140 mph)
- ASCE7-10 EARTHQUAKE DATA (RP 2475)  
ANALYSIS PROCEDURES: EQUIVALENT LATERAL FORCE (ELF)  
MMF: MOMENT  
SITE CLASS FOR FOUNDATIONS- 'D'  
F<sub>a</sub> = 1.0 F<sub>v</sub> = 1.6  
  
DESIGN SPECTRAL RESPONSE ACCELERATIONS  
SD<sub>1</sub> = 0.20g  
SD<sub>2</sub> = 0.40g

### 3.0 - FOUNDATIONS

- THE FOUNDATION DESIGN WAS BASED ON AN AVERAGE RESULTS FROM PRELIMINARY DCP TEST RESULTS ALLOWABLE SOIL BEARING CAPACITY OF 200 MPa (AT A DEPTH OF ONE (1) METRE BELOW EXISTING GROUND LEVEL). THIS AVERAGE BEARING CAPACITY MUST BE CONFIRMED ON SITE DURING THE CONSTRUCTION STAGE BEFORE THE COMMENCEMENT OF ANY FOUNDATION WORKS.
- REMOVE ALL ORGANIC MATERIAL FROM THE CONSTRUCTION AREA PRIOR TO EXECUTING ANY FOUNDATION WORKS. REMOVE ALL LOOSE OR SATURATED MATERIAL FROM THE BASE OF FOOTING EXCAVATIONS PRIOR TO PLACING CONCRETE. STORE TOPSOIL FOR LANDSCAPING.
- REMOVE GROUND WATER ENTERING EXCAVATIONS BY APPROVED DEWATERING METHODS. CONSULT THE TECHNICAL SPECIFICATIONS FOR MORE INFORMATION.
- SHORE AND UNDERPIN EXCAVATIONS TO PREVENT DISTURBANCE TO ADJACENT STRUCTURES, STREETS, SIDEWALKS AND UTILITIES.
- PROOF ROLL SUBGRADES (AS REQUIRED BY THE ENGINEER) TO DETECT SOFT OR HARD SPOTS. REMEDY SOFT SPOTS AS DIRECTED BY THE ENGINEER.

### 4.0 - EXCAVATION AND BACKFILLING

- EXCAVATE FOR NEW CONSTRUCTION TO INSTALL FOOTINGS AS SHOWN IN THE DRAWINGS. REMOVE TOP SOIL, ORGANIC MATTER AND DEBRIS TO EXPOSE COMPETENT (APPROVED BY THE ENGINEER) SOILS BELOW GROUND FLOOR SLAB. COMPACT SUB-GRADE BELOW GROUND FLOOR SLAB PRIOR TO BACKFILLING.
- BACKFILLING MATERIAL SHALL CONSIST OF APPROVED ENGINEERING FILL AND COMPACTED IN LAYERS NOT EXCEEDING 200mm DEEP TO ACHIEVE A DENSITY OF ATLEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY BS 1377.
- GRANULAR FILL TO BE CLEAN NATURAL SAND AND GRAVEL, FREE FROM SILT, LOAM, FRIABLE OR VEGETABLE MATTER - MAXIMUM GRAIN SIZE TO BE 75mm.
- PLAN AND CONTROL EXCAVATION WORK TO ENSURE BOTTOM OF EXCAVATION DOES NOT SOFTEN AND SLIDE.
- SUPPORT CONSTRUCTION DURING BACKFILLING TO PREVENT DISPLACEMENT.
- DO NOT BACKFILL AGAINST WALLS RETAINING EARTH UNTIL ELEMENTS PROVIDING LATERAL SUPPORTS ARE COMPLETED. PLACE BACKFILL SIMULTANEOUSLY ON BOTH SIDES OF WALLS BELOW GRADE.

### 5.0 CAST-IN-PLACE CONCRETE

- CONCRETE MATERIALS, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES ARE TO CONFORM TO THE BRITISH STANDARD INSTITUTE PUBLICATION: EUROCODE 2: DESIGN OF CONCRETE STRUCTURES (BS EN 1992); BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY (ACI 318M-05)
- CONCRETE TO BE AS FOLLOWS:
  - CONCRETE IN FOOTINGS, SLABS ON GRADE AND FOUNDATION WALLS:
    - 28 DAY CUBE STRENGTH - 35MPa
    - MAXIMUM AGGREGATE SIZE - 20mm
    - MAXIMUM SLUMP - 75mm
    - MINIMUM CEMENT CONTENT - 350kg/m<sup>3</sup>
    - MAXIMUM WATER/CEMENT RATIO - 0.50
  - CONCRETE IN STRUCTURAL SLABS, COLUMNS AND BEAMS:
    - 28 DAY CUBE STRENGTH - 35 MPa
    - MAXIMUM AGGREGATE SIZE - 20mm
    - MAXIMUM SLUMP - 75mm
    - MINIMUM CEMENT CONTENT - 350kg/m<sup>3</sup>
    - MAXIMUM WATER CONTENT RATIO - 0.50
- ALL TESTING RESULTS ARE TO BE FORWARDED TO THE STRUCTURAL ENGINEERING FOR APPROVAL AND TO ENSURE COMPLIANCE WITH TECHNICAL SPECIFICATIONS.
- SUBMIT THE PROPOSED CONCRETE MIX DESIGN(S) FOR THE ENGINEER'S REVIEW AND CONDUCT PRELIMINARY TESTS PRIOR TO THE EXECUTION OF ANY CONCRETING WORKS TO VERIFY THAT THE SUBMITTED CONCRETE MIX DESIGN(S) IS/ARE SUITED TO THE PROPERTIES OF THE CONSTITUENT MATERIALS THEREBY ACHIEVING THE DESIRED 28 DAY STRENGTHS.
- THE CONCRETE CONTRACTOR IS TO DESIGN ALL FORMWORK FOR LOADS AND LATERAL PRESSURES OUTLINED IN ACI 318 - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. ACI 347- RECOMMENDED PRACTISE FOR RECOMMENDED FORWORK.
- PLACE AND VIBRATE CONCRETE WITHOUT DISTURBING PLACED REINFORCING STEEL.

### 6.0 SLABS ON GRADE

- PROVIDE 200mm CRUSH STONE (HARDCORE) AND COMPACT SUBGRADE FOR SLAB ON GRADE.
- PROVIDE APPROVED PRE-FORMED KEYED CONTROL JOINTS OR SAW CUT (WITHIN 24 HOURS) ALONG COLUMN GRID LINES CUT 1/3 DEPTH OF SLAB AND FILL WITH APPROVED MASTIC JOINT.
- BREAK BOND AT SURFACES OF CONTACT WITH OTHER CONCRETE (USE ASPHALT WATERPROOFING, HEAVY DUTY POLYTHENE OR SAND LAYER).

### 7.0 REINFORCING STEEL

- REINFORCING STEEL TO BE AND COMPLY WITH BS 4483 FOR WELDED FABRIC MESH REINFORCEMENT AND BS 444 FOR REINFORCING BARS (F<sub>y</sub> = 410 MPa) / ASTM A 706/A 706M, ASTM A 615/A 615M GRADE 60.
- ALL REINFORCING STEEL TO BE DETAILED IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE ACI 318-11 DETAILS AND DETAILING OF CONCRETE REINFORCEMENT. CONCRETE COVER TO ALL REINFORCING BARS, UNLESS OTHERWISE STATED IN DRAWINGS ARE TO BE:
  - BURIED CONCRETE IN CONTACT WITH THE EARTH: 75mm
  - BURIED CONCRETE NOT IN CONTACT WITH THE EARTH: 75mm
  - STRUCTURAL SLABS: 25mm
  - STRUCTURAL BEAMS AND COLUMNS: 50mm

- ALL REINFORCING BAR LAP LENGTHS ARE TO BE 50 TIMES THE BAR DIAMETER (MINIMUM), OR IN ACCORDANCE WITH THE ACI STANDARD DETAILS AND DETAILING OF CONCRETE REINFORCEMENT AS REPORTED BY ACI COMMITTEE 318. ALL REINFORCING BAR SLICES ARE TO BE CLASS B TENSION SPLICES PER LAP SPLICE SCHEDULE UNLESS OTHERWISE SHOWN. WALL HORIZONTALS ARE TO BE CONSIDERED 'TOP BARS'.

- UNLESS SHOWN ON DRAWINGS ALL CAST-IN-PLACE STRUCTURAL OPENINGS TO BE TRIMMED WITH 2-T16 BARS ALL AROUND ON ALL FACES IN THE FORM OF A DIAMOND. BARS ARE TO PROJECT 600mm BEYOND OPENINGS. ALL REQUIRED OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

- REINFORCEMENT TO SLABS ON GRADE TO BE SUPPORTED ON APPROVED CHAIRS, AT 100mm MAXIMUM SPACING. SPACER BLOCKS USED TO ACHIEVE COVER TO BOTTOM REINFORCEMENT ARE TO BE OF THE FABRICATED TO ACHIEVE THE REQUIRED CONCRETE COVER.

- CONCRETE SPACERS TO HAVE 28 DAY CYLINDER STRENGTH OF 35MPa.

### 8.0 - MASONRY

- ALL MASONRY WORK SHALL COMPLY WITH ACI 530-05/ ASCE 5-05/ TMS 402-05 BUILDING CODE REQUIREMENT FOR MASONRY STRUCTURES UNLESS NOTED.
- MINIMUM CONCRETE BLOCK UNIT STRENGTH (NET AREA) 15 MPa MORTAR STRENGTH F<sub>c</sub> = 12 MPa GROUT STRENGTH F<sub>c</sub> = 20 MPa
- MINIMUM MASONRY REINFORCEMENT (UNLESS OTHERWISE NOTED) WALL THICKNESS:
  - 150mm HORIZ. SMR @ 400
  - VERT. 1-12mm @ 400
  - 200mm HORIZ. HDMR @ 400
  - VERT. 1-12mm @ 400

- SMR IS GALVANIZED STANDARD TYPE MASONRY REINFORCEMENT WITH 2-#9 Ga. (3.6mm) SIDE RODS (TOTAL AREA 21mm<sup>2</sup>) HDMR IS GALVANISED LADDER TYPE HEAVY MASONRY REINFORCEMENT WITH 2-#6 Ga. (4.76mm) SIDE RODS. (TOTAL AREA 35.66mm<sup>2</sup>)

- UNLESS OTHERWISE NOTED, LINTELS FOR NON LOAD BEARING BLOCK WALLS TO BE OF REINFORCED CONCRETE WITH THE FOLLOWING SPECIFICATIONS:
  - FOR SPANS UP TO 1200mm, LINTELS ARE TO BE 200mm DEEP, REINFORCED WITH 2-Y12 BARS BOTTOM.
  - FOR SPANS UP TO 2000mm, LINTELS ARE TO BE 300mm DEEP, REINFORCED WITH 2-Y16 BARS BOTTOM.
  - FOR SPANS UP TO 3000mm, LINTELS ARE TO BE 400mm DEEP, REINFORCED WITH 2-Y20 BARS BOTTOM.

- LINTELS ARE TO CONTINUE 400mm PAST EACH SIDE OF THE OPENING TO CREATE A KNOCK OUT BLOCK EFFECT. CELLS BELOW BEARING ENDS TO BE CONCRETE FILLED AND REINFORCED WITH 1-Y12 VERTICAL BAR PER CELL WHICH EXTENDS INTO LINTEL.

- FILL VOIDS CONTAINING REINFORCEMENT COMPLETELY TO FULL HEIGHT WITH COARSE GROUT IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS WITH A 28-DAY CYLINDER STRENGTH OF 15 MPa AND MAXIMUM AGGREGATE SIZE OF 12mm AND A MINIMUM AND MAXIMUM SLUMP AT TIME OF PLACING OF 75mm AND 200mm RESPECTIVELY.

- SUBMIT PROPOSED MORTAR AND GROUT MIXES TO THE ENGINEER FOR HIS REVIEW PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORK.

- PLACE GROUT IN LIFTS NOT EXCEEDING 1200mm CONSOLIDATE THE FILLING OF THE CELLS OF MASONRY UNITS BY VIBRATION AS REQUIRED.

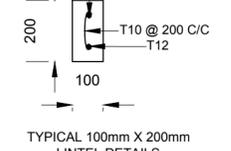
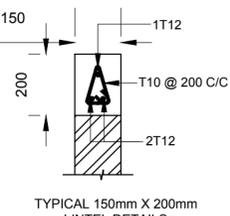
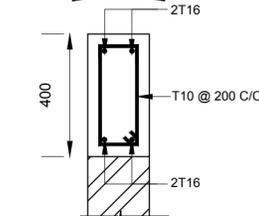
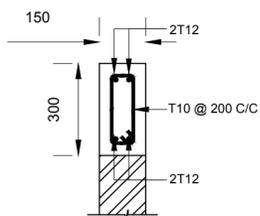
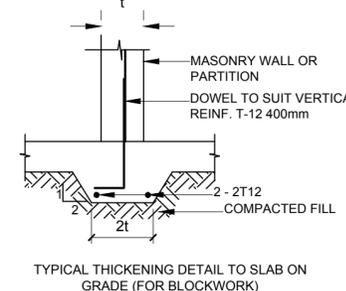
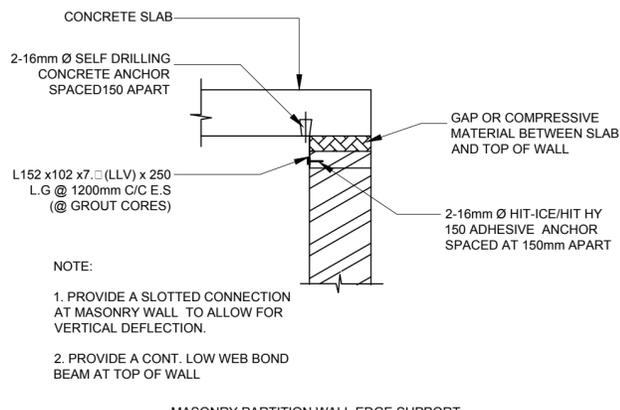
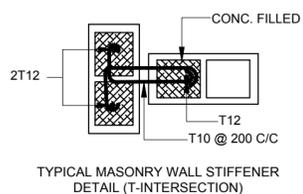
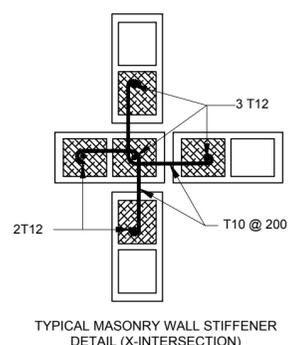
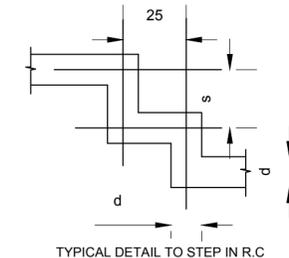
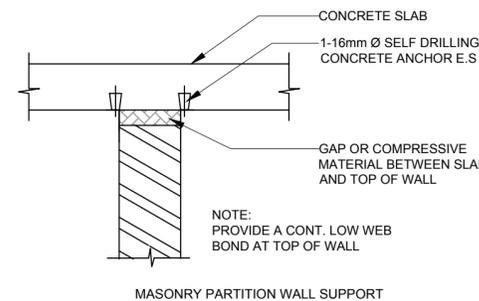
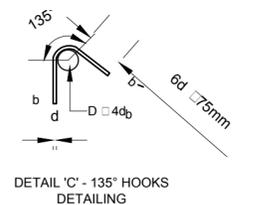
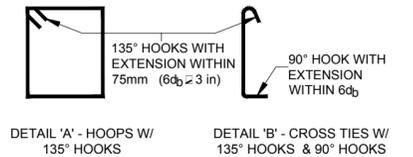
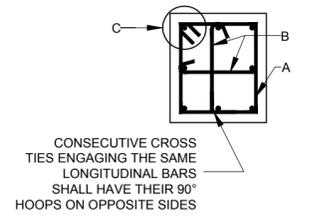
- BOND BEAMS IN CONCRETE BLOCK WALLS, WHERE NOT OTHERWISE SHOWN, TO HAVE A MINIMUM OF 2-T16 BARS CONTINUOUS AS REINFORCEMENT WITH CORNER BARS TO MATCH (SIMILAR TO FOUNDATION WALLS).

- UNLESS OTHERWISE NOTED, PROVIDE VERTICAL DOWELS FROM CONCRETE SLABS, BEAMS AND/OR WALLS TO MATCH ALL VERTICAL BLOCK WALL REINFORCEMENT WITH A LENGTH OF 1200mm ABOVE THE CONCRETE AND 600mm EMBEDMENT WITHIN THE CONCRETE.

- BOND JOINING WALLS TOGETHER WITH PROPER TIES LAID IN ALTERNATE HORIZONTAL JOINTS. PROVIDE MASONRY BRICK TIES IN ALL CAVITY WALLS SPACED 600mm VERTICALLY AND 600mm HORIZONTALLY.

### 9.0 - SEISMIC HOOP REINFORCE DETAILING

- DESIGN CODES IN ACCORDANCE WITH ACI 315
- AT LAP SPLICES, SPACING OF HOOPS NOT GREATER THAN 100mm (4")
- $d_b$  = DIAMETER OF HOOP REBAR



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	SCALE	SIZE	DRAWING NO	SHEET
	NTS	A2	SLU-1510-S-027-GPF	S-01

**LEGEND**

--- BOTTOM

TYPE OF PAD	DIMENSIONS
TYPE 1	1.2m X 1.2m

200mm THK. REIN. CONC. FOUNDATION WALL

1

X

6710

2

Y

A

1300

6100

6100

6100

6100

2100

1

2

X

04

05

06

07

08

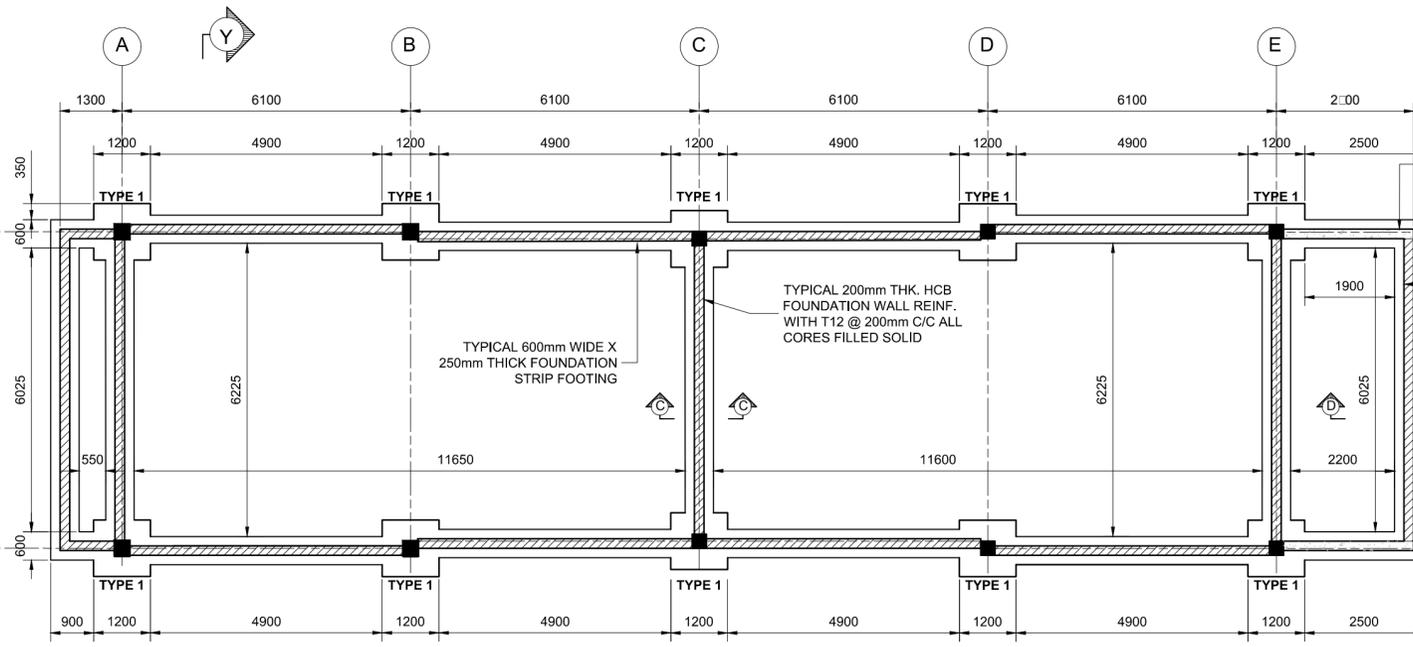
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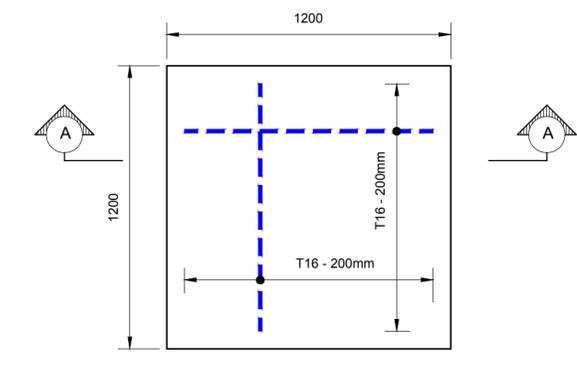
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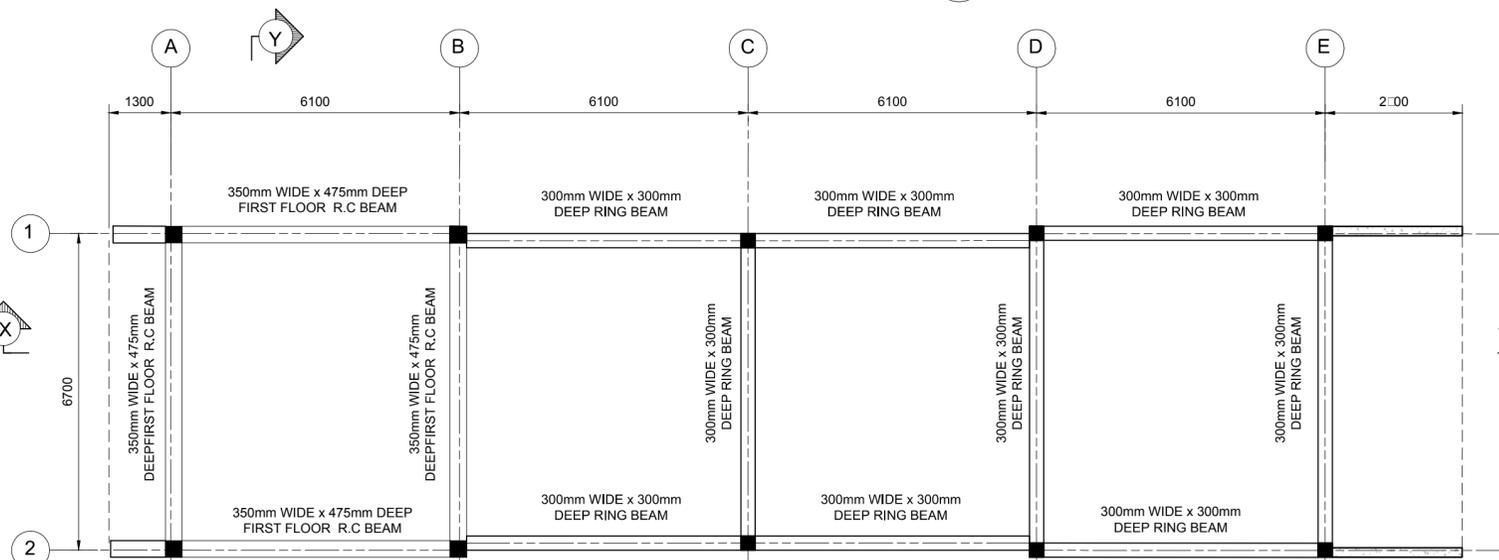
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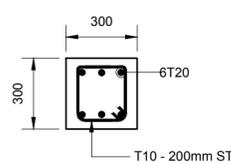
01 FOUNDATION LAYOUT  
S-02 SCALE 1:100



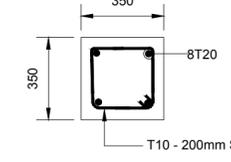
03 PAD FOOTING DETAIL - TYPE 1  
S-02 SCALE 1:50



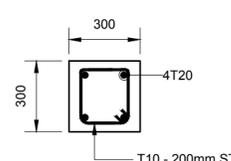
02 BEAM LAYOUT  
S-02 SCALE 1:100



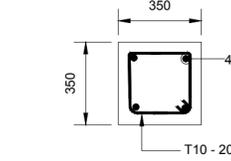
04 GROUND FLOOR COLUMNS SECTION J-J  
S-02 SCALE 1:50



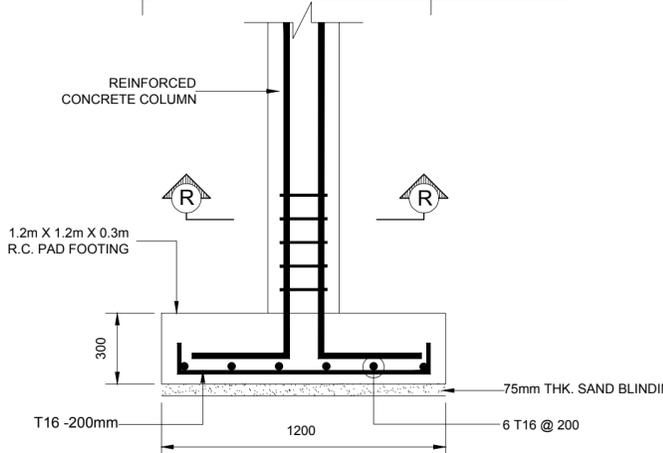
06 GROUND FLOOR COLUMNS SECTION M-M  
S-02 SCALE 1:50



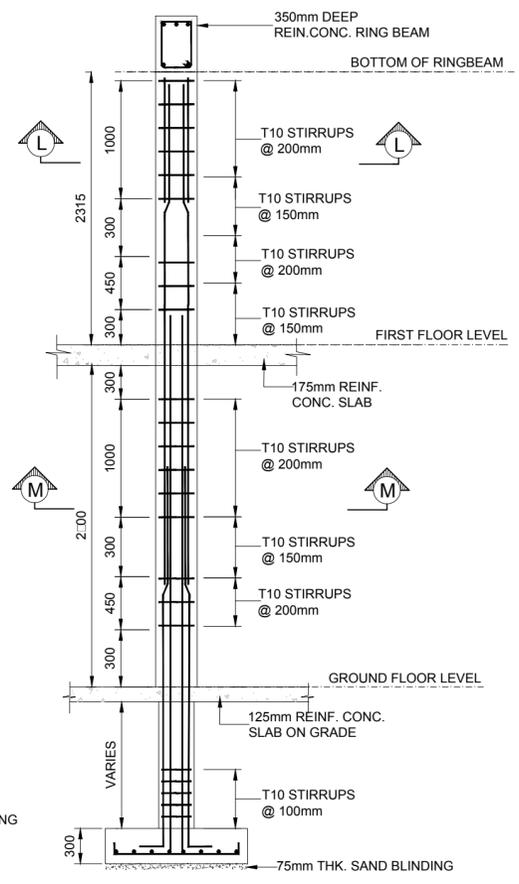
05 FIRST FLOOR COLUMNS SECTION K-K  
S-02 SCALE 1:50



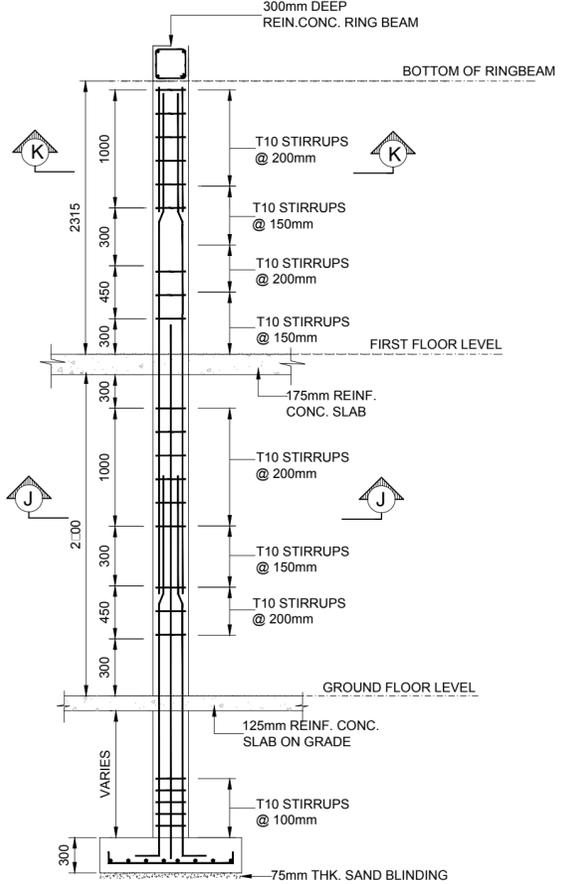
07 FIRST FLOOR COLUMNS SECTION L-L  
S-02 SCALE 1:50



08 PAD FOOTING SECTION A-A  
S-02 SCALE 1:50



09 350mm X350mm COLUMN  
S-02 SCALE 1:40



10 300mm X300mm COLUMN  
S-02 SCALE 1:40

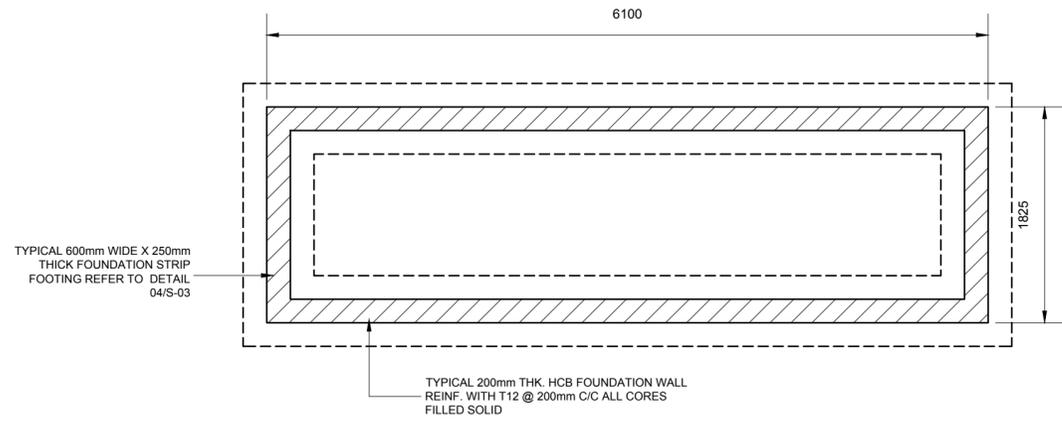
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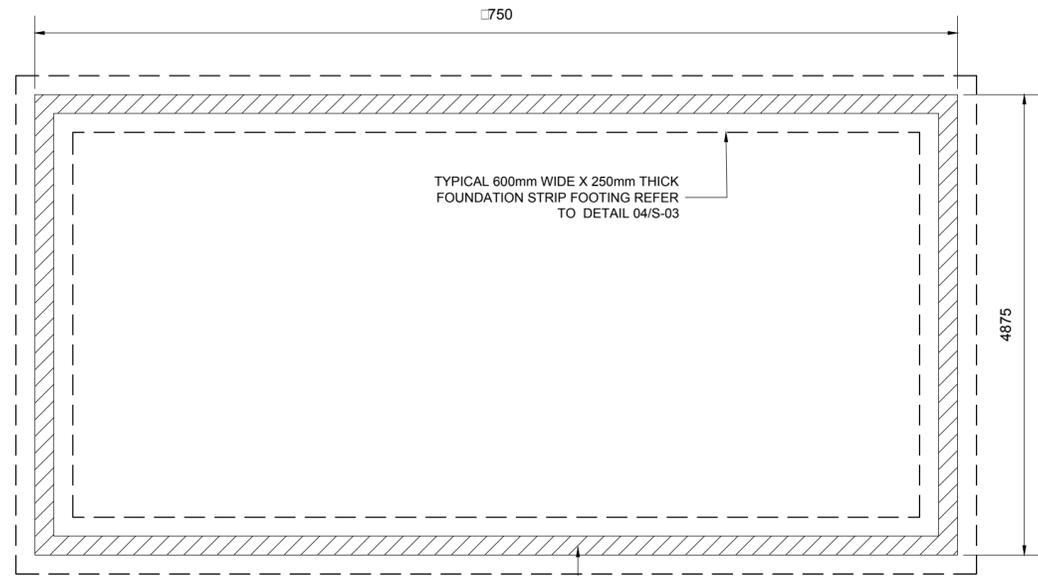
DESIGNED BY:	FDL CONSULT INC.	FDL
DRAWN BY:	DANIEL JACKSON	DJ
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JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES
TYPE OF DRAWING	DESIGN DRAWINGS

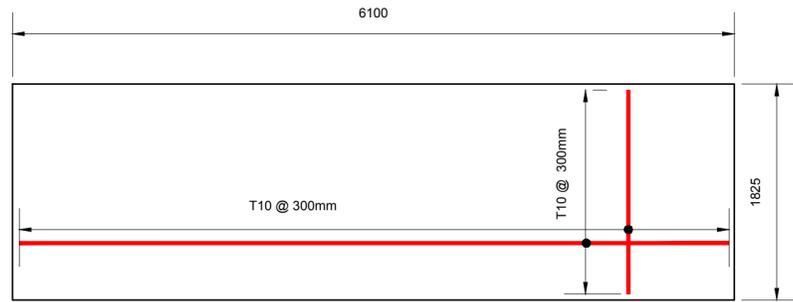
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DRAWING TITLE		FOUNDATION LAYOUT AND DETAILS AND BEAM LAYOUT	
SCALE	SIZE	DRAWING NO	SHEET
AS SHOWN	A2	SLU-1510-S-027-GPF	S-02



01 COMPOST - FOUNDATION PLAN  
S-03 SCALE 1:40



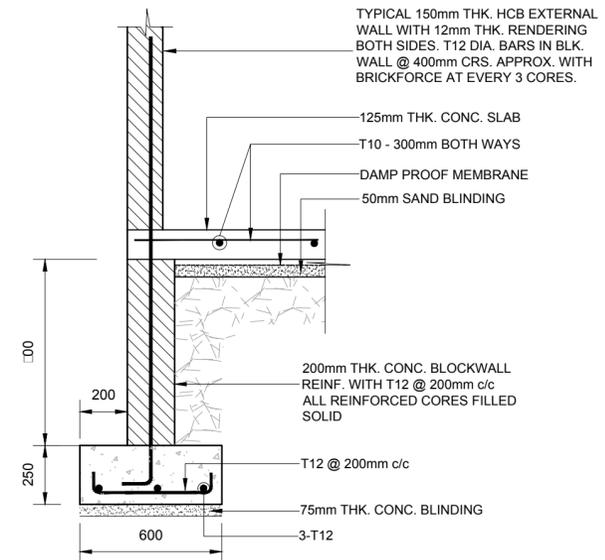
02 UTILITY BUILDING - FOUNDATION PLAN  
S-03 SCALE 1:40



03 COMPOST BUILDING - REINFORCEMENT LAYOUT  
S-03 SCALE 1:40



05 UTILITY BUILDING - REINFORCEMENT LAYOUT  
S-03 SCALE 1:50



04 STRIP FOOTING FOUNDATION DETAIL  
S-03 SCALE 1:20

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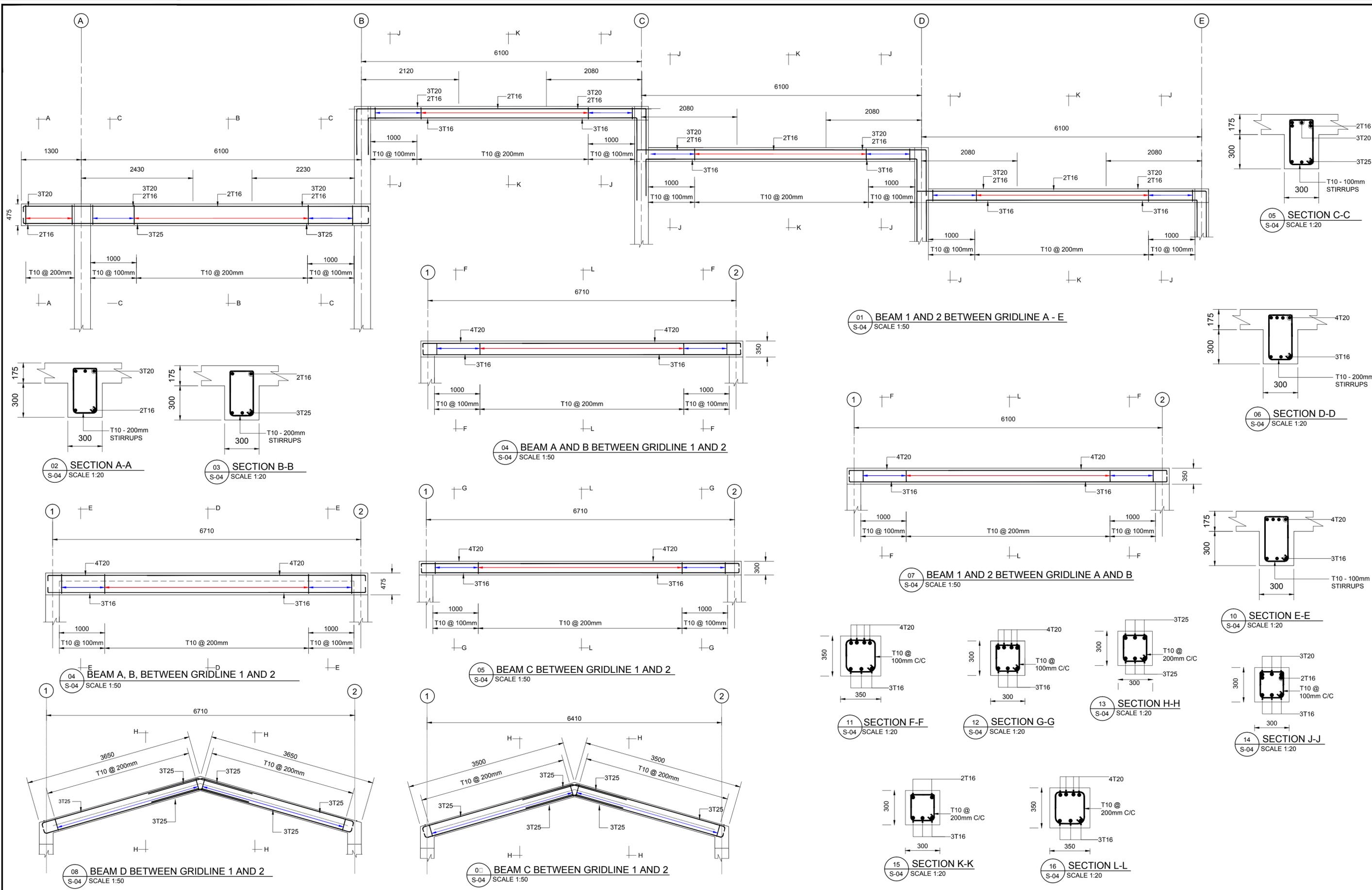
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TYPE OF DRAWING	DESIGN DRAWINGS

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DRAWING TITLE		FOUNDATION PLAN AND REINFORCEMENT LAYOUT - COMPOST AND UTILITY BUILDING	
SCALE	SIZE	DRAWING NO	SHEET
AS SHOWN	A2	SLU -1510-S-027-GPF	S-03



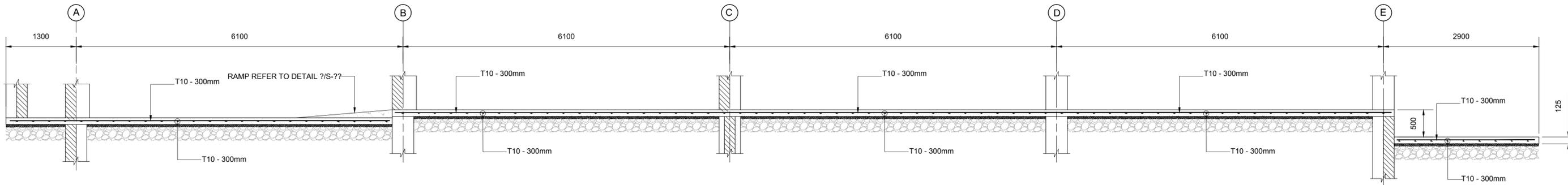
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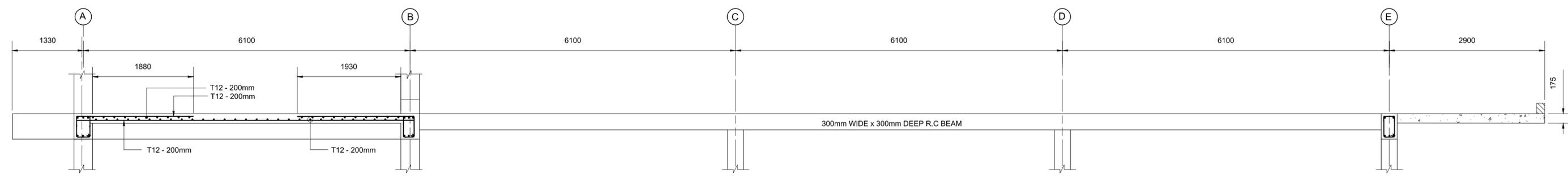
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TYPE OF DRAWING	DESIGN DRAWINGS

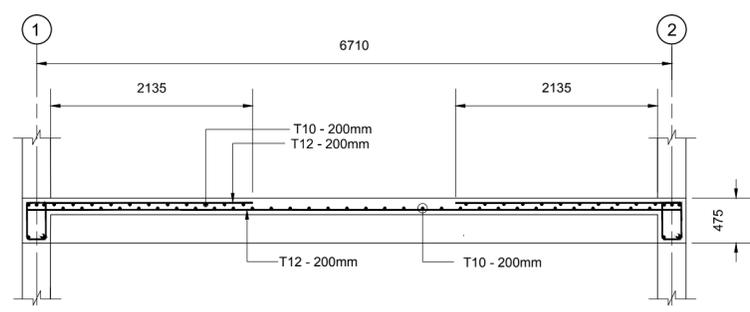
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DRAWING TITLE		BEAM CROSS SECTIONS DETAILS	
SCALE	SIZE	DRAWING NO	SHEET
AS SHOWN	A2	SLU-1510-S-027-GPF	S-04



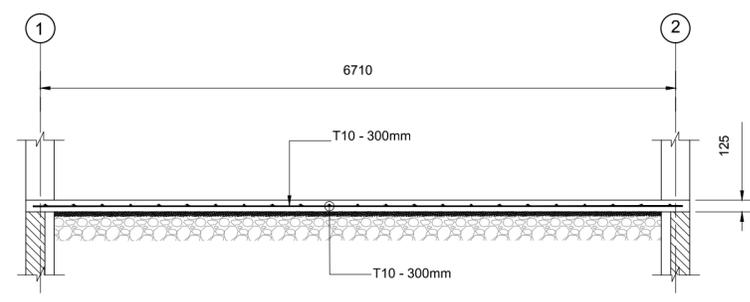
01 GROUND FLOOR SLAB SECTION X-X  
S-05 SCALE 1:50



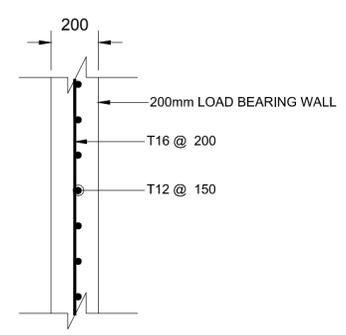
02 FIRST FLOOR SLAB SECTION X-X  
S-05 SCALE 1:50



03 FIRST FLOOR SLAB SECTION Y-Y  
S-05 SCALE 1:50



04 GROUND FLOOR SLAB SECTION Y-Y  
S-05 SCALE 1:50



05 200mm LOAD R.C LOAD BEARING WALL - SECTION W-W  
S-05 SCALE 1:20

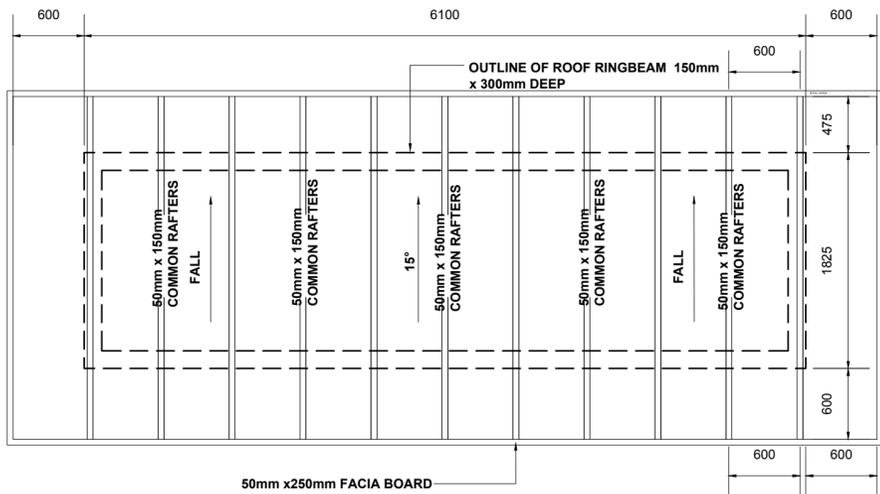
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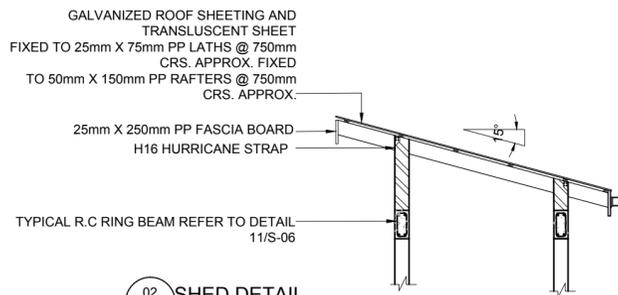
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TYPE OF DRAWING	DESIGN DRAWINGS

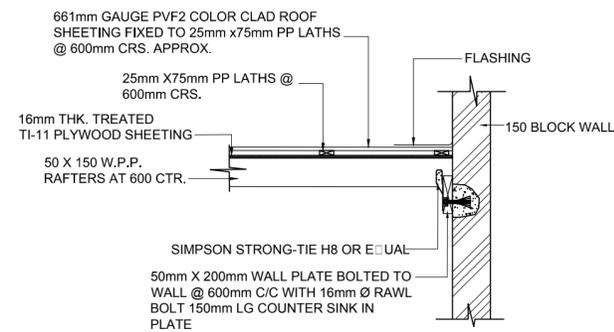
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DRAWING TITLE		GROUND AND FIRST FLOOR SLAB SECTIONS	
SCALE	SIZE	DRAWING NO	SHEET
AS SHOWN	A2	SLU-1510-S-027-GPF	S-05



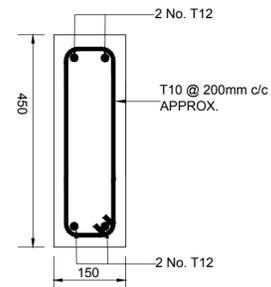
01 COMPOST BUILDING - ROOF PLAN  
S-06 SCALE 1:40



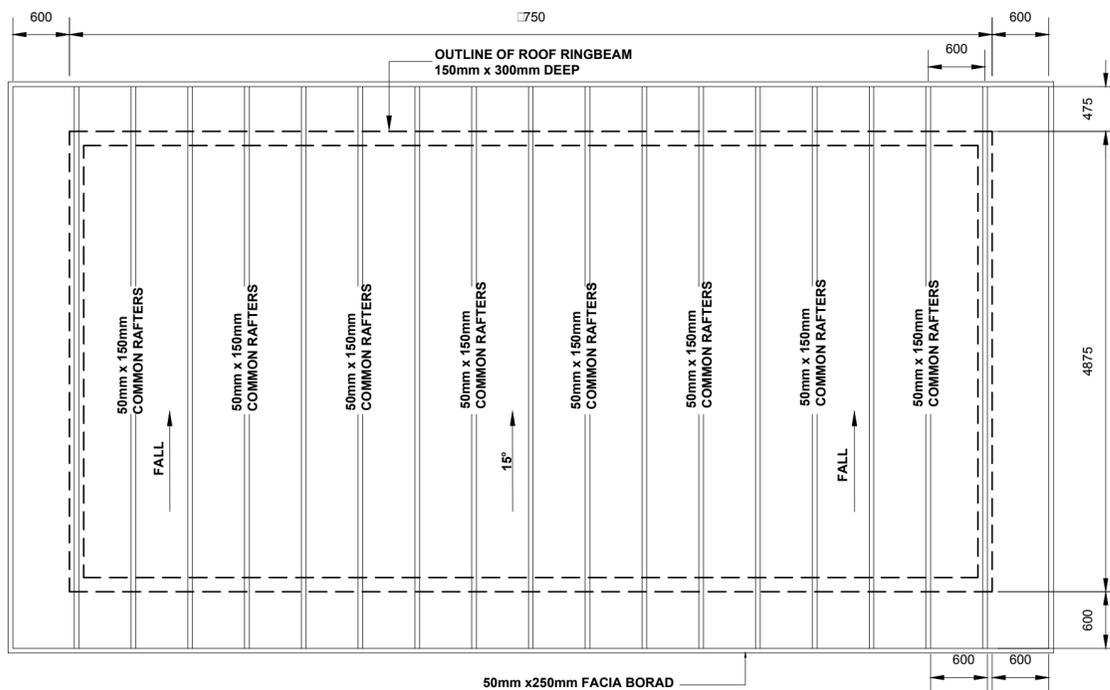
02 SHED DETAIL  
S-06 SCALE 1:50



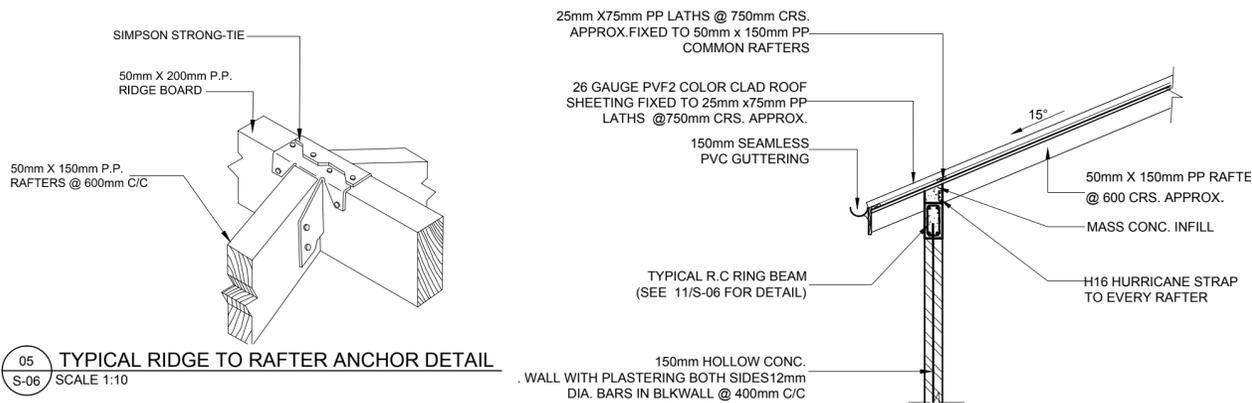
03 LENTO ROOF DETAIL  
S-06 SCALE 1:40



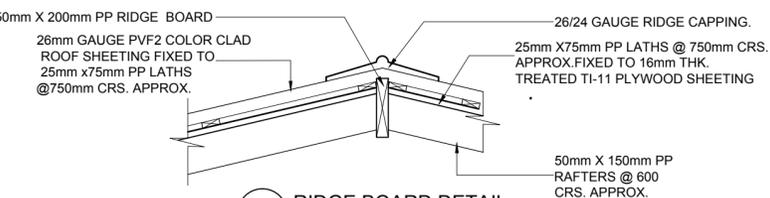
04 LINTEL DETAIL - TYPE 2  
S-06 SCALE 1:10



07 UTILITY BUILDING - ROOF PLAN  
S-06 SCALE 1:50

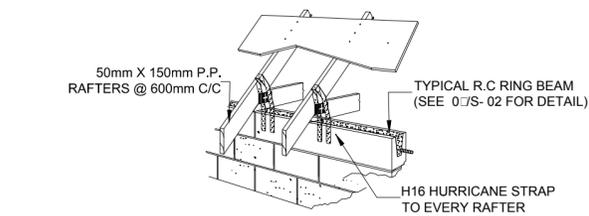


05 TYPICAL RIDGE TO RAFTER ANCHOR DETAIL  
S-06 SCALE 1:10

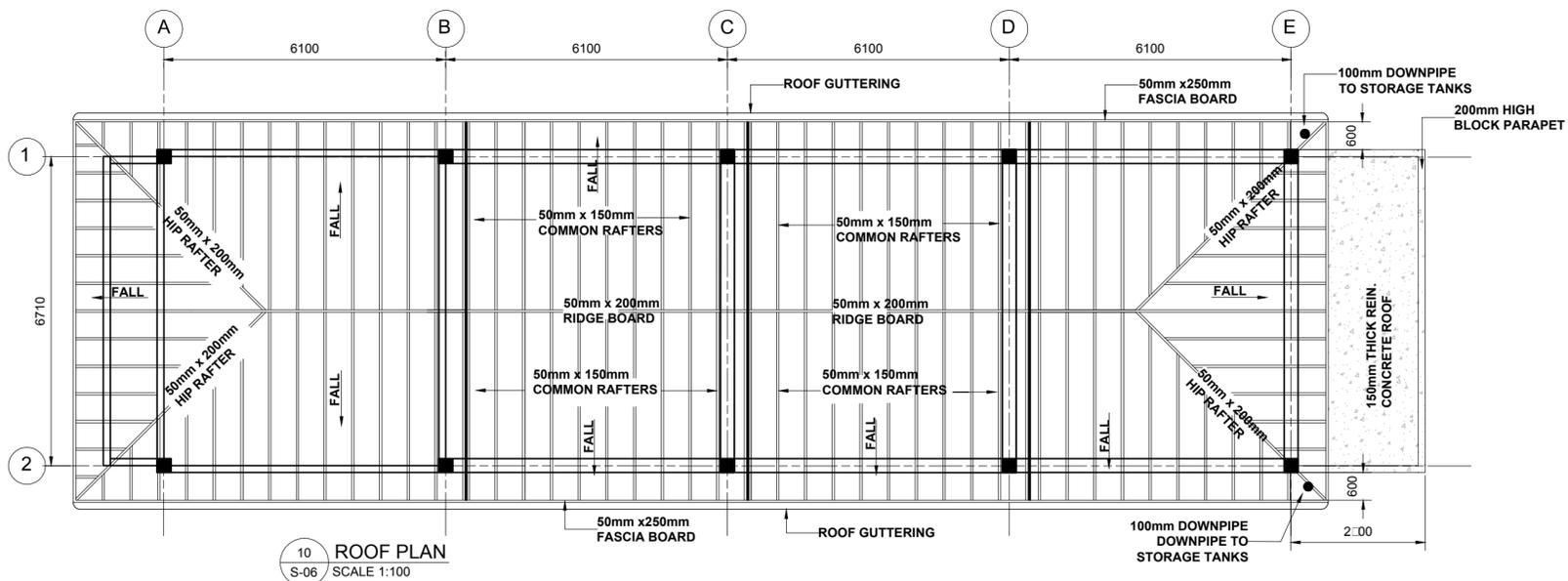


08 RIDGE BOARD DETAIL  
S-06 SCALE 1:20

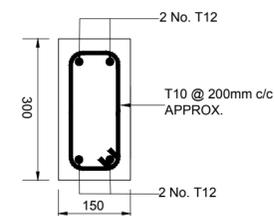
06 EAVE DETAIL  
S-06 SCALE 1:40



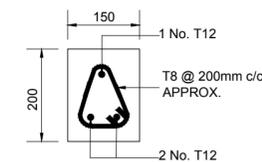
09 H16 HURRICANCE STRAP TO RAFTER DETAIL  
S-06 SCALE 1:10



10 ROOF PLAN  
S-06 SCALE 1:100



11 RING BEAM DETAIL  
S-06 SCALE 1:10



12 LINTEL DETAIL - TYPE 1  
S-06 SCALE 1:10

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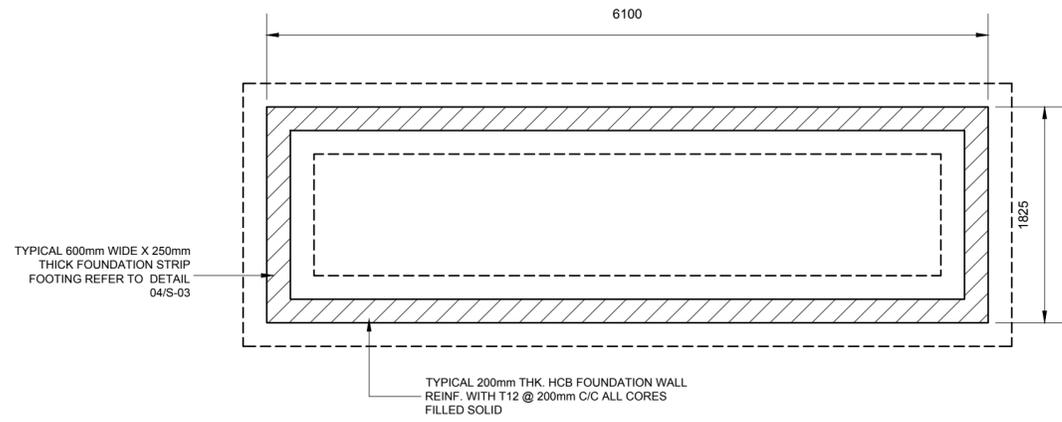
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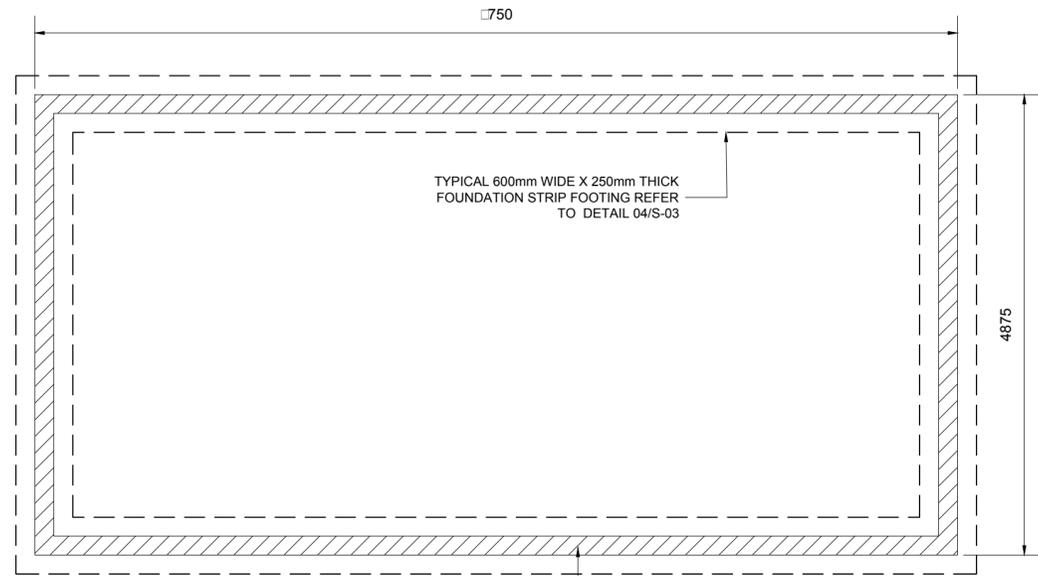
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TYPE OF DRAWING	DESIGN DRAWINGS

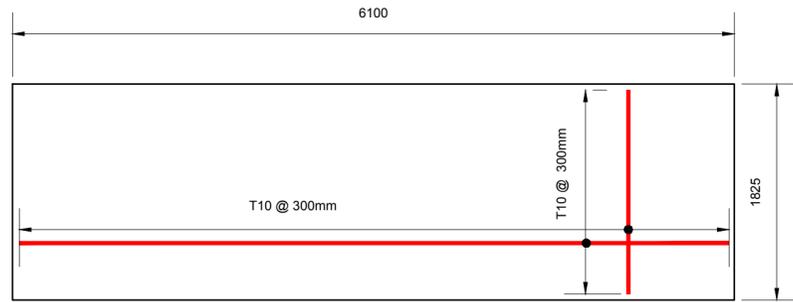
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DRAWING TITLE		ROOF PLAN AND DETAILS	
SCALE	SIZE	DRAWING NO	SHEET
AS SHOWN	A2	SLU-1510-S-027-GPF	S-06



01 COMPOST - FOUNDATION PLAN  
S-07 SCALE 1:40



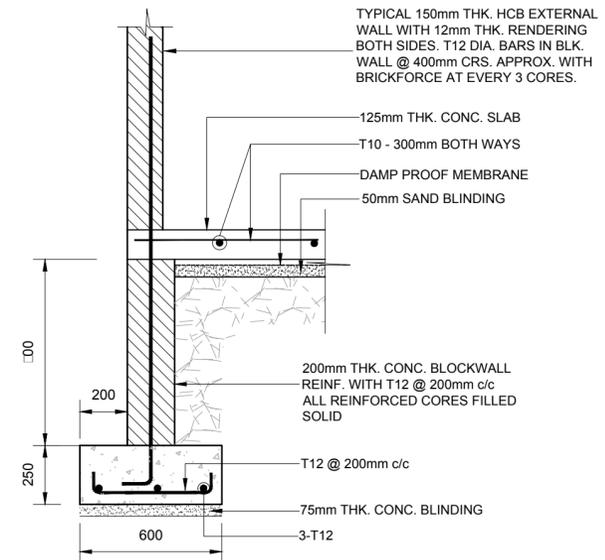
02 UTILITY BUILDING - FOUNDATION PLAN  
S-07 SCALE 1:40



03 COMPOST BUILDING - REINFORCEMENT LAYOUT  
S-07 SCALE 1:40



05 UTILITY BUILDING - REINFORCEMENT LAYOUT  
S-07 SCALE 1:50



04 STRIP FOOTING FOUNDATION DETAIL  
S-07 SCALE 1:20

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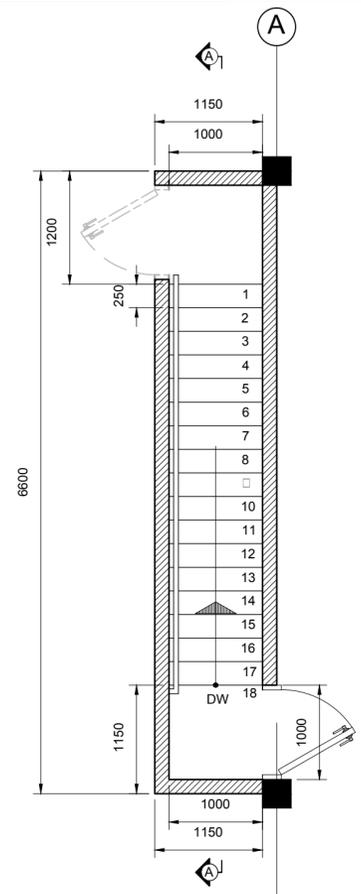
DESIGNER:	FDL CONSULT INC.	FDL
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TYPE OF DRAWING	DESIGN DRAWINGS

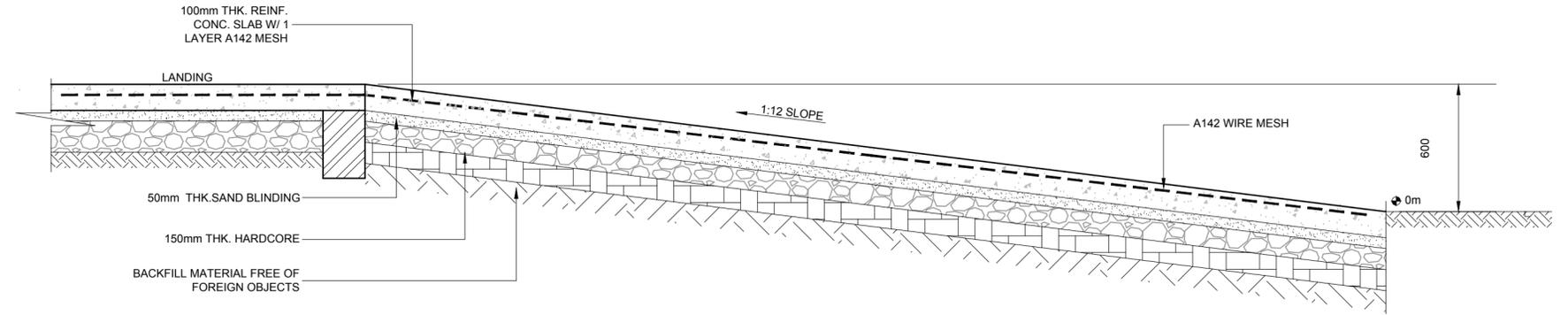
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DRAWING TITLE		FOUNDATION PLAN AND REINFORCEMENT LAYOUT - COMPOST AND UTILITY BUILDING	
SCALE	SIZE	DRAWING NO	SHEET
AS SHOWN	A2	SLU -1510-S-027-GPF	S-07

**LEGEND**

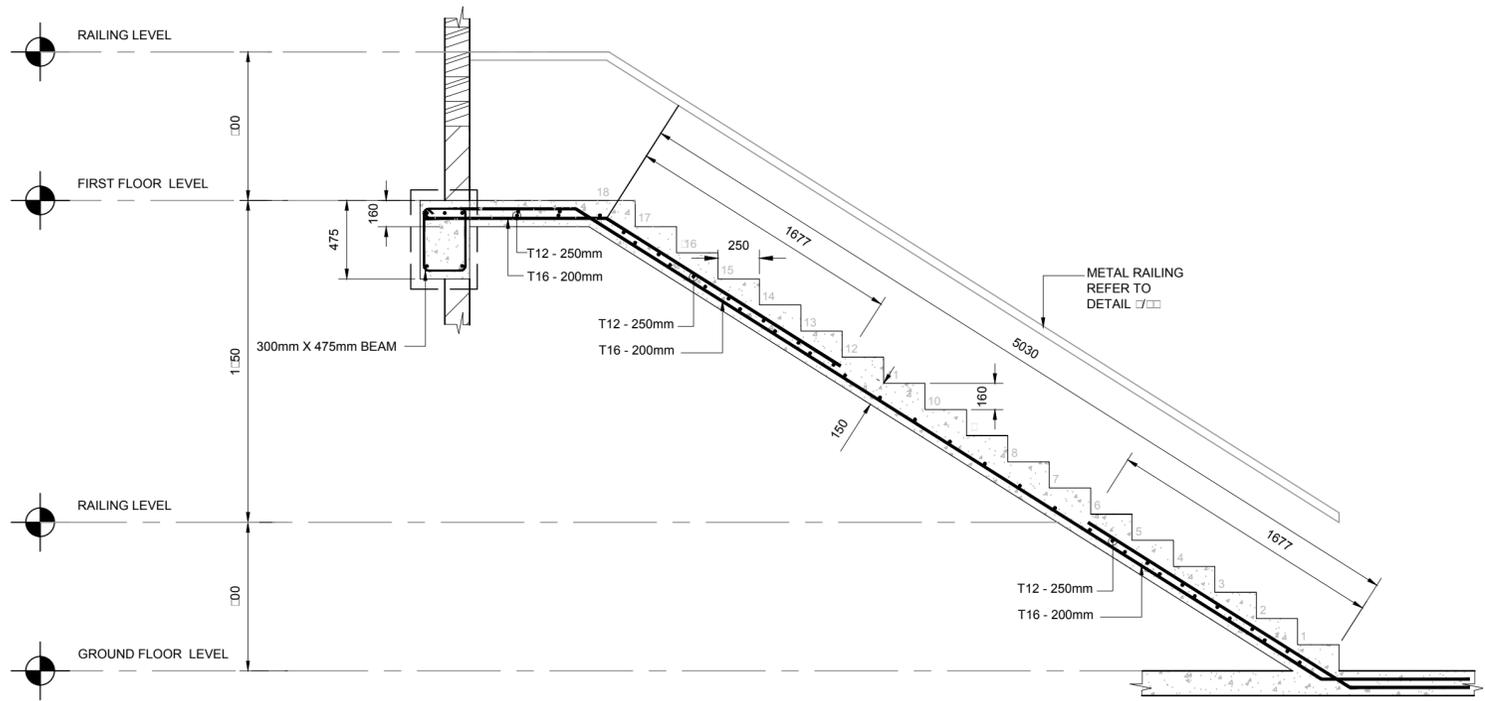
- BOTTOM
- - - TOP



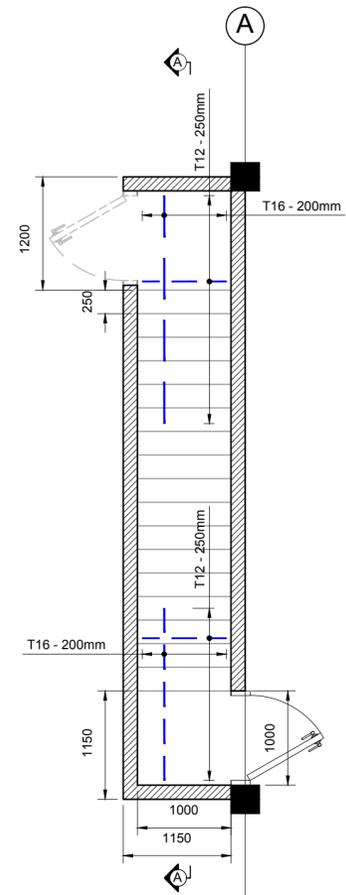
01 STAIRCASE 1 LAYOUT  
S-08 SCALE 1:50



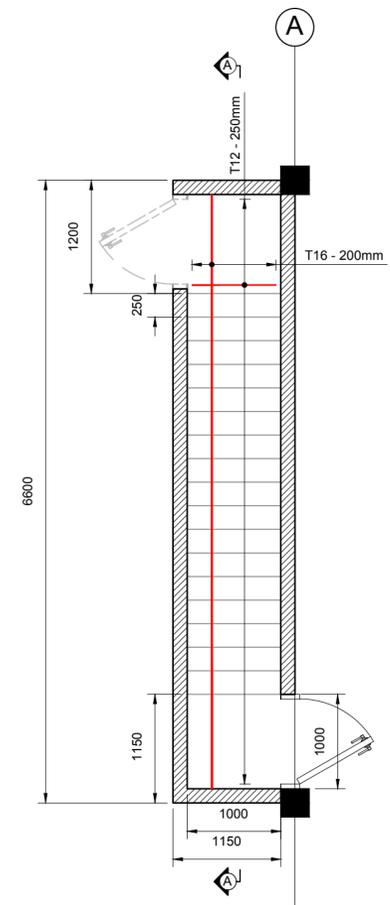
02 TYPICAL ACCESS RAMP DETAIL  
S-08 SCALE 1:20



03 STAIRCASE 1 SECTION A - A  
S-08 SCALE 1:30



04 STAIRCASE 1 TOP REINF. LAYOUT  
S-08 SCALE 1:50



05 STAIRCASE 1 BOTTOM REINF. LAYOUT  
S-08 SCALE 1:50

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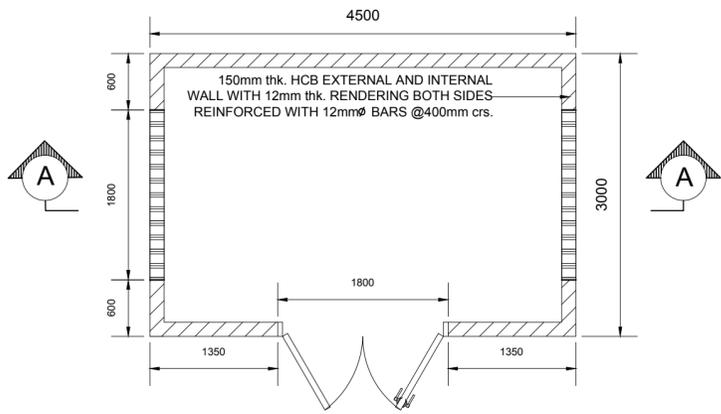
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APPROVED:	GILBERT FONTENARD	GF
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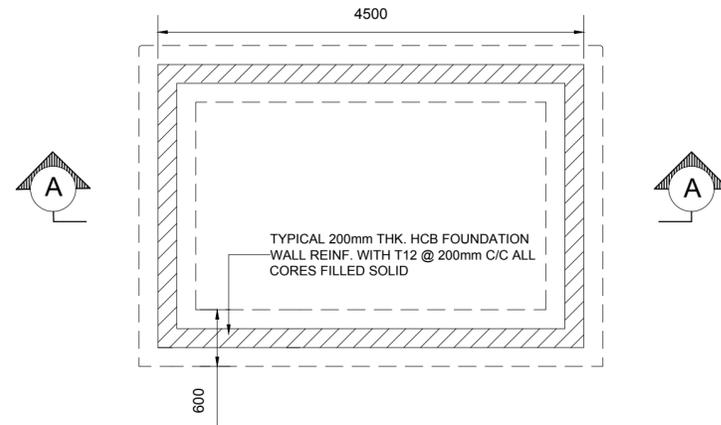
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TYPE OF DRAWING	DESIGN DRAWINGS

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 Fax. (758) 453 7048  
 email: fdl@fdlconsultinc.com  
 website: www.fdlconsultinc.com

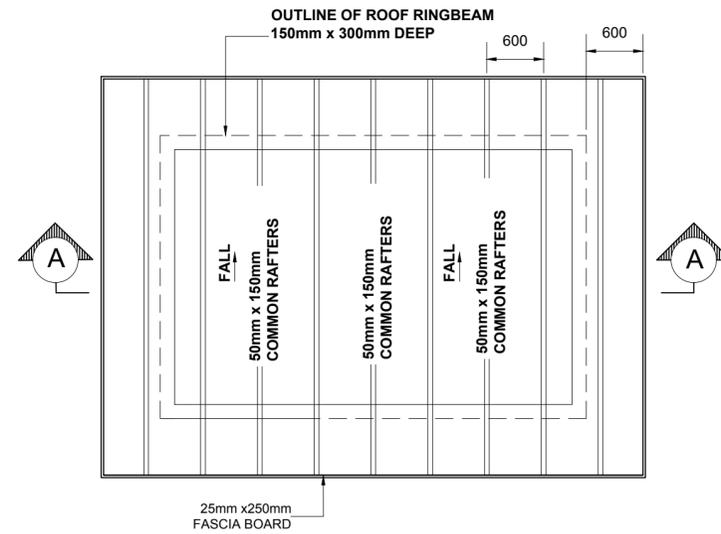
DRAWING TITLE		STAIRCASE 1 LAYOUT, REINFORCEMENT AND SECTION A - A AND DETAILS AND ACCESS RAMP DETAIL	
SCALE	SIZE	DRAWING NO	SHEET
AS SHOWN	A2	SLU-1510-S-027-GPF	S-08



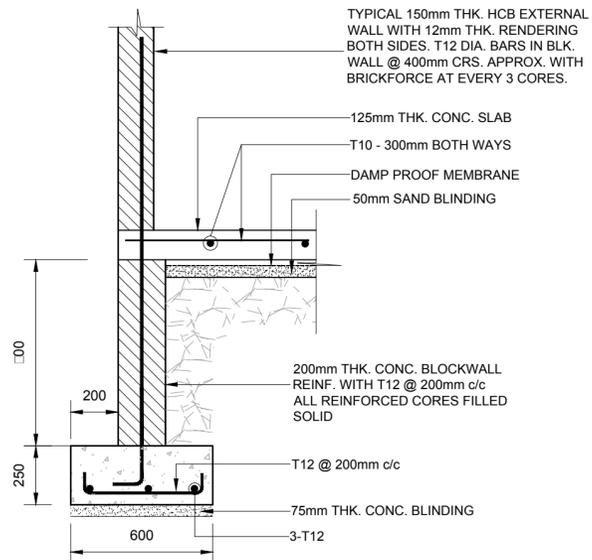
01 RAIN WATER HARVESTING UTILITY BUILDING- FLOOR LAYOUT  
S-0 SCALE 1:50



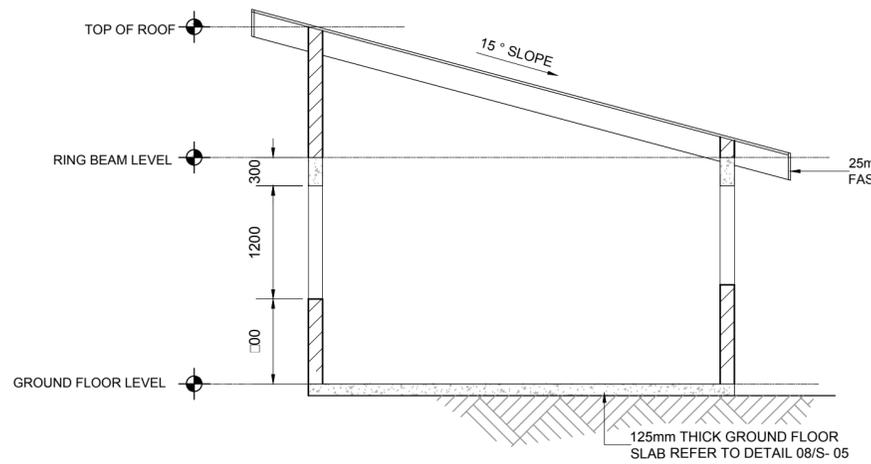
02 RAIN WATER HARVESTING UTILITY BUILDING- FOUNDATION PLAN  
S-0 SCALE 1:50



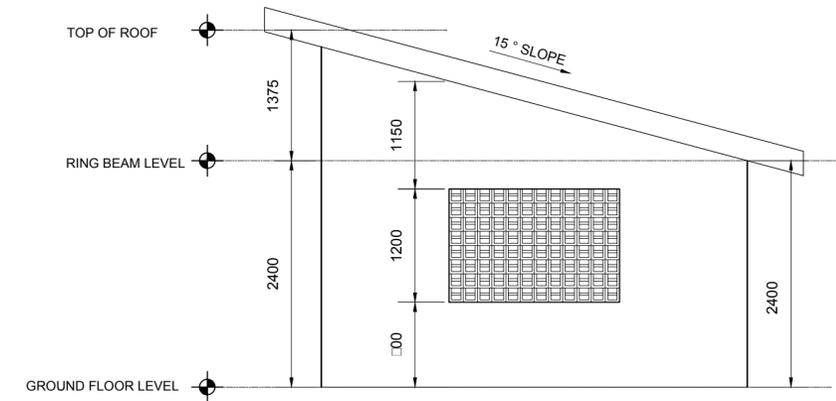
03 RAIN WATER HARVESTING UTILITY BUILDING- ROOF PLAN  
S-0 SCALE 1:50



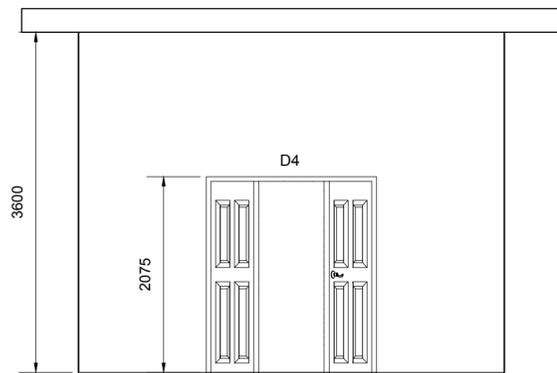
04 STRIP FOOTING FOUNDATION DETAIL  
S-0 SCALE 1:50



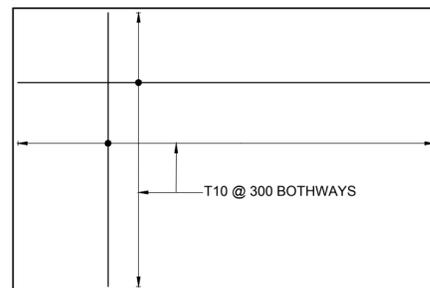
05 RAIN WATER HARVESTING UTILITY BUILDING-SECTION A-A  
S-0 SCALE 1:50



06 RAIN WATER HARVESTING UTILITY BUILDING-SIDE ELEVATION  
S-0 SCALE 1:50



07 RAIN WATER HARVESTING UTILITY BUILDING- FRONT ELEVATION  
S-0 SCALE 1:50



08 RAIN WATER HARVESTING UTILITY BUILDING- GROUND FLOOR SLAB REINFORCEMENT  
S-0 SCALE 1:50

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DRAWN BY:	KENT EMMANUEL	KE
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF

ISSUED DATE:	OCTOBER 2015
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MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION



JOB TITLE  
DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES  
TYPE OF DRAWING  
DESIGN DRAWINGS

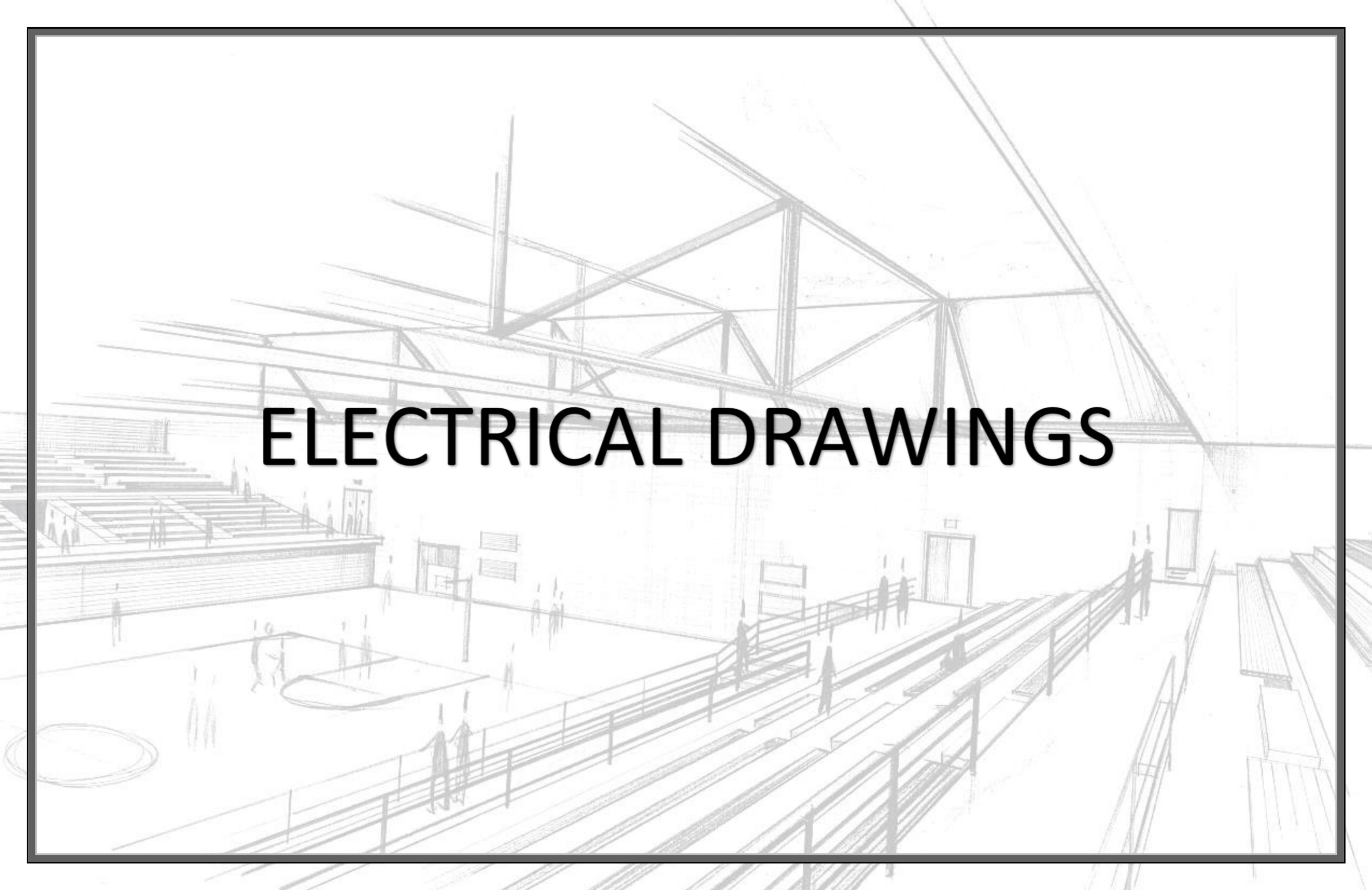


DRAWING TITLE  
IRRIGATION UTILITY BUILDING- LAYOUTS AND DETAILS  
SCALE  
AS SHOWN  
SIZE  
A2

FDL Consult Inc.  
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website: www.fdlconsultinc.com

DRAWING NO  
SLU -1510-S-027-GPF  
SHEET  
S-0

# ELECTRICAL DRAWINGS



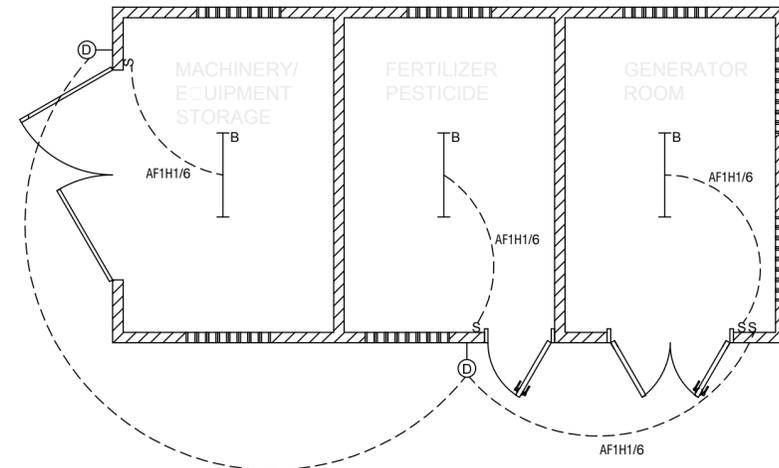


**NOTES**

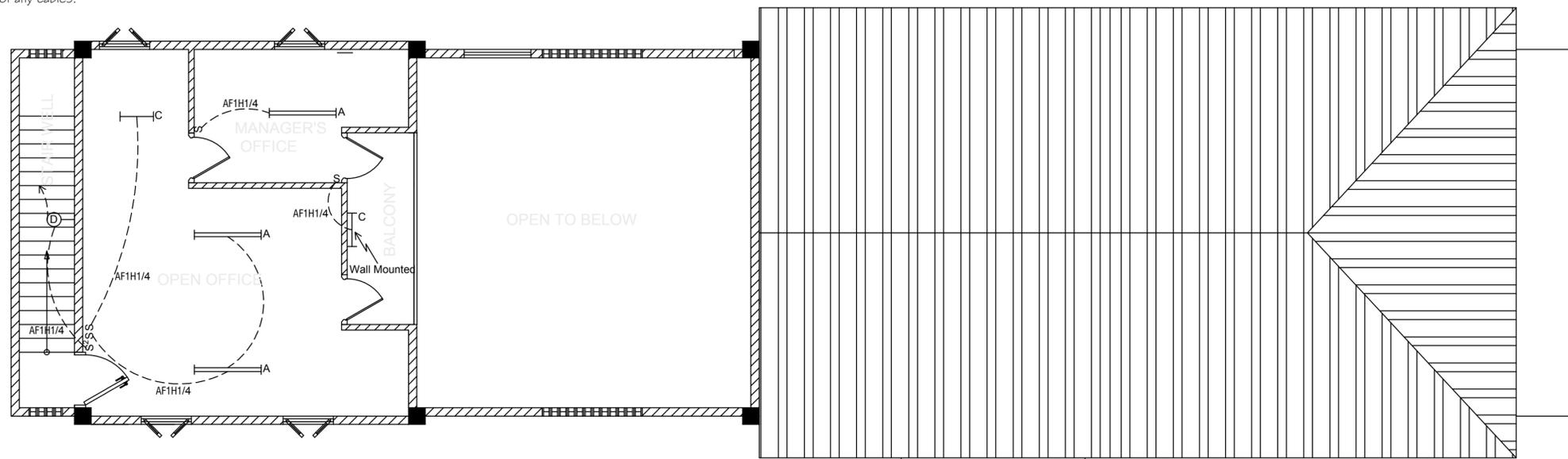
- Do not scale from this drawing.
  - Field verify all conditions prior commencing with any work.
  - Dimensional discrepancies to be reported immediately to the architect.
  - This drawing to be read with all relevant architectural and interior designer drawings.
1. All power and communication outlet boxes shall be mounted at 18 inches above finished floor level, except where indicated otherwise.
  2. All conduit systems shall be blown dry using a compressor before the installation of any cable.
  3. All conduit ends shall be protected during construction to prevent the ingress of water, dirt and debris.
  4. Where receptacle boxes are installed recessed next to each other, there shall be a spacing of 1 1/2 inches between boxes. Where they are installed surface they shall touch each other with one two-compartment trunking feeding them. The power and communication boxes shall be installed as oriented on drawings.
  5. Generally, all trunking and conduit shall run concealed wherever possible. Surface trunking runs will be allowed only where a concealed run is not possible and shall be to the approval of the engineer.
  6. All receptacle boxes shall be installed recessed wherever possible.
  7. The installation shall be wired on the loop-in system i.e. wiring shall terminate at definite points and no intermediate connections or joints shall be used.
  8. All condensing units shall be fitted with appropriate isolating switches located in close proximity to the units.
  9. All small current (voice, data, etc.) conduit shall be 25mm heavy guage PVC. A maximum of two(2) small current receptacle boxes will be linked before a home run to the small current main location.
  10. The small current conduits, cables, plates and modules shall be supplied by the contractor but the terminations shall be done by others.
  11. One 4 pair Cat5e cable shall run from the small current location in the electrical room to each voice/data box.
  12. The power, voice data, fire, security and PA systems shall each be afforded exclusive conduit systems.
  13. Sketch of conduit runs shall be provided by the electrical contractor and agreed to by the engineer before the installation of any conduit. The conduit runs shall then be examined by the engineer after installation before the installation of any cables.

**Legend**

- ⊕ 240V 13A DUPLEX SOCKET OUTLET
- ⊕<sup>W</sup> 120V 15A DUPLEX SPLASHPROOF SOCKET OUTLET TO IP65
- DOUBLE POLE ISOLATING SWITCH TO IP65
- △ VOICE/DATA POINT
- ▭ DISTRIBUTION PANEL
- ⊞ 63A MCCB IN ENCLOSURE
- ⊞<sup>ATS</sup> AUTOMATIC TRANSFER SWITCH



01 UTILITY BUILDING - LIGHTING LAYOUT  
E-02 NTS



01 FIRST FLOOR PACKING FACILITY BUILDING - LIGHTING LAYOUT  
E-02 NTS

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ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED		DRAWN BY:	JAMES CHARLES	JC <th>JOB TITLE</th> <td>DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES <th>SCALE</th> <td>NTS</td> <th>SIZE</th> <td>A2</td> <th>DRAWING NO</th> <td>SLU-1510-S-027-GPF</td> <th>SHEET</th> <td>E-02</td> </td>	JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES <th>SCALE</th> <td>NTS</td> <th>SIZE</th> <td>A2</td> <th>DRAWING NO</th> <td>SLU-1510-S-027-GPF</td> <th>SHEET</th> <td>E-02</td>		SCALE	NTS	SIZE	A2	DRAWING NO	SLU-1510-S-027-GPF	SHEET
							CHECKED:	GILBERT FONTENARD	GF										
							APPROVED:	GILBERT FONTENARD	GF										
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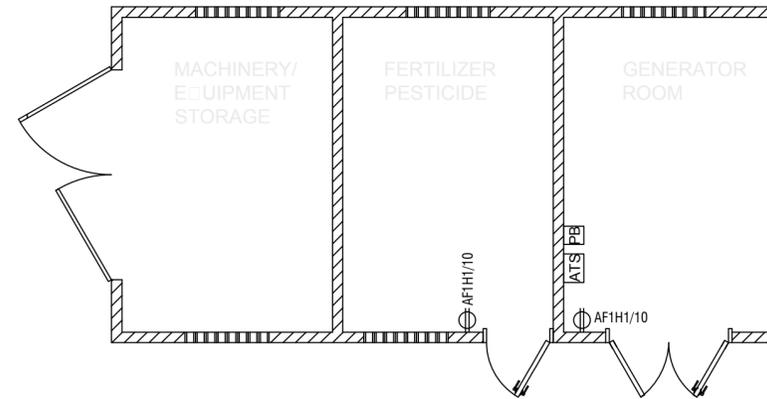


**NOTES**

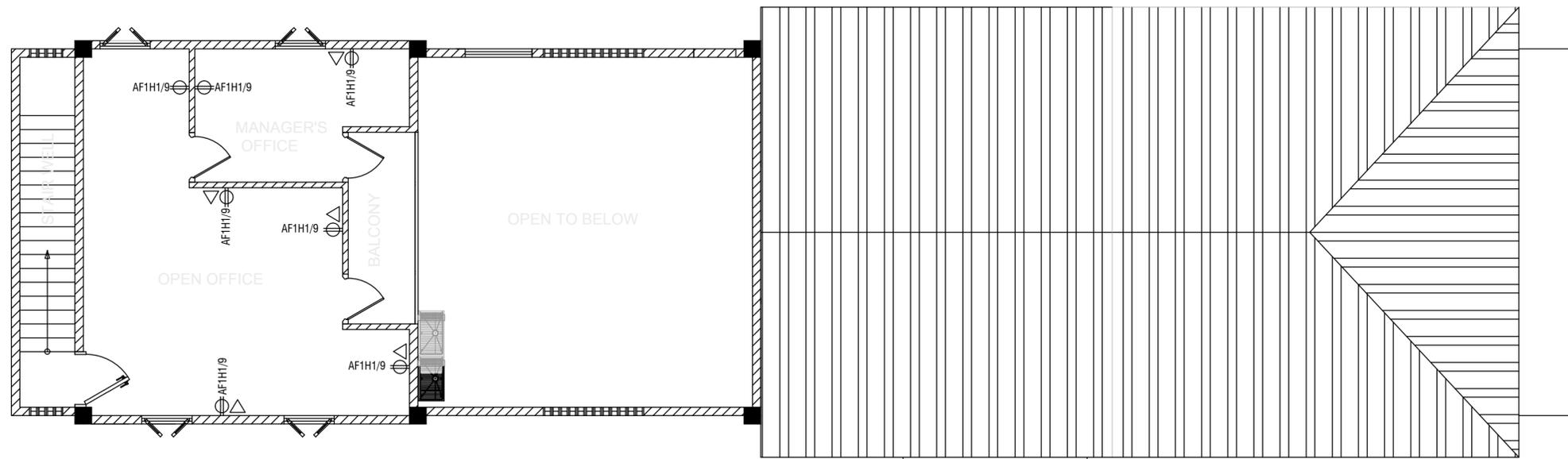
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**Legend**

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- ▭ DISTRIBUTION PANEL
- ⊞ 63A MCCB IN ENCLOSURE
- ⊞ AUTOMATIC TRANSFER SWITCH



01 UTILITY BUILDING - POWER LAYOUT  
E-04 NTS



01 FIRST FLOOR PACKING FACILITY BUILDING - POWER LAYOUT  
E-04 NTS

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ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED		DRAWN BY:	JAMES CHARLES	JC <th rowspan="2">  </th> <th rowspan="2">                 DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES             </th> <th colspan="2">DRAWING TITLE</th> <td>RICHMOND AND MONTREAL - FIRST FLOOR PARKING FACILITY BUILDING - POWER LAYOUT</td>		DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES	DRAWING TITLE		RICHMOND AND MONTREAL - FIRST FLOOR PARKING FACILITY BUILDING - POWER LAYOUT
						CHECKED:	GILBERT FONTENARD	GF <th>JOB TITLE</th> <th>SCALE</th> <td>NTS</td> <th>SIZE</th> <td>A2</td>	JOB TITLE			SCALE	NTS	SIZE
						APPROVED:	GILBERT FONTENARD	GF <th>ISSUED DATE:</th> <td>OCTOBER 2015</td> <th>TYPE OF DRAWING</th> <td>DESIGN DRAWINGS <th>DRAWING NO</th> <td>SLU-1510-S-027-GPF</td> </td>	ISSUED DATE:	OCTOBER 2015	TYPE OF DRAWING	DESIGN DRAWINGS <th>DRAWING NO</th> <td>SLU-1510-S-027-GPF</td>	DRAWING NO	SLU-1510-S-027-GPF
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**FDL Consult Inc**  
 Goodlands PO Box 1803  
 Castries  
 (758) 457-6400

### Drawings Register Sheet

Enclosed are copies of the documents listed below:

<b>Project Number:</b>	SLU-1510-S-027-GPF	<b>Sheet Number:</b>	-
<b>Document issued by:</b>	02nd Nov 2015	<b>Project Role:</b>	-
<b>Project Title:</b>		<b>Day</b>	
Design and Supervision of the Construction Greenhouse Park Facilities		<b>Month</b>	
		<b>Year</b>	

<b>Drawing Title:</b>	<b>Drawing Number</b>
-----------------------	-----------------------

**Civil Drawings**

Civil Site Plan (drainage Layout)	C-01
Rainwater Harvesting - Layout and Longitudinal Sections showing rainwater pipes	C-02
Fencing and Drain Details 1	C-03
Fencing Details 2	C-04
Fencing Details 3	C-05
Fencing Details 4	C-06
Fencing Details 5	C-07

**Plumbing Drawing**

Plumbing Layout and Isometric	P-01
Septic Tank Details	P-02

**Architectural Drawings**

Location Plan	i
Site Plan	A-01
Ground Floor Description and Dimension Layout	A-02
Elevations	A-03
Section A-A and B-B	A-04
Utilities Building - Floor Layout	A-05
Utility and Compost Building - Roof Layouts	A-06
Utilities Building - Elevations and Sections	A-07
Compost Building- Floor Layout, Elevations and Sections	A-08
Door and Window Schedule	A-09

**Structural Drawings**

Structural Specification Sheet	S-01
Foundation Layout and Details, Roof Layout and Details	S-02
Compost and Utilities Building - Foundation and Ground Floor reinforcement Layout	S-03
Roof Beam Layout and Details, Ground and Roof Slab Cross Sections	S-04
Irrigation Utility Building - layouts and details	S-05

**Electrical Drawings**

Orange Hill Lighting Layout - Parking Facility Building and Utility Building	E-01
Orange Hill Power Layout - Parking Facility Building and Utility Building	E-02
Orange Hill - Panel Schematics	E-03

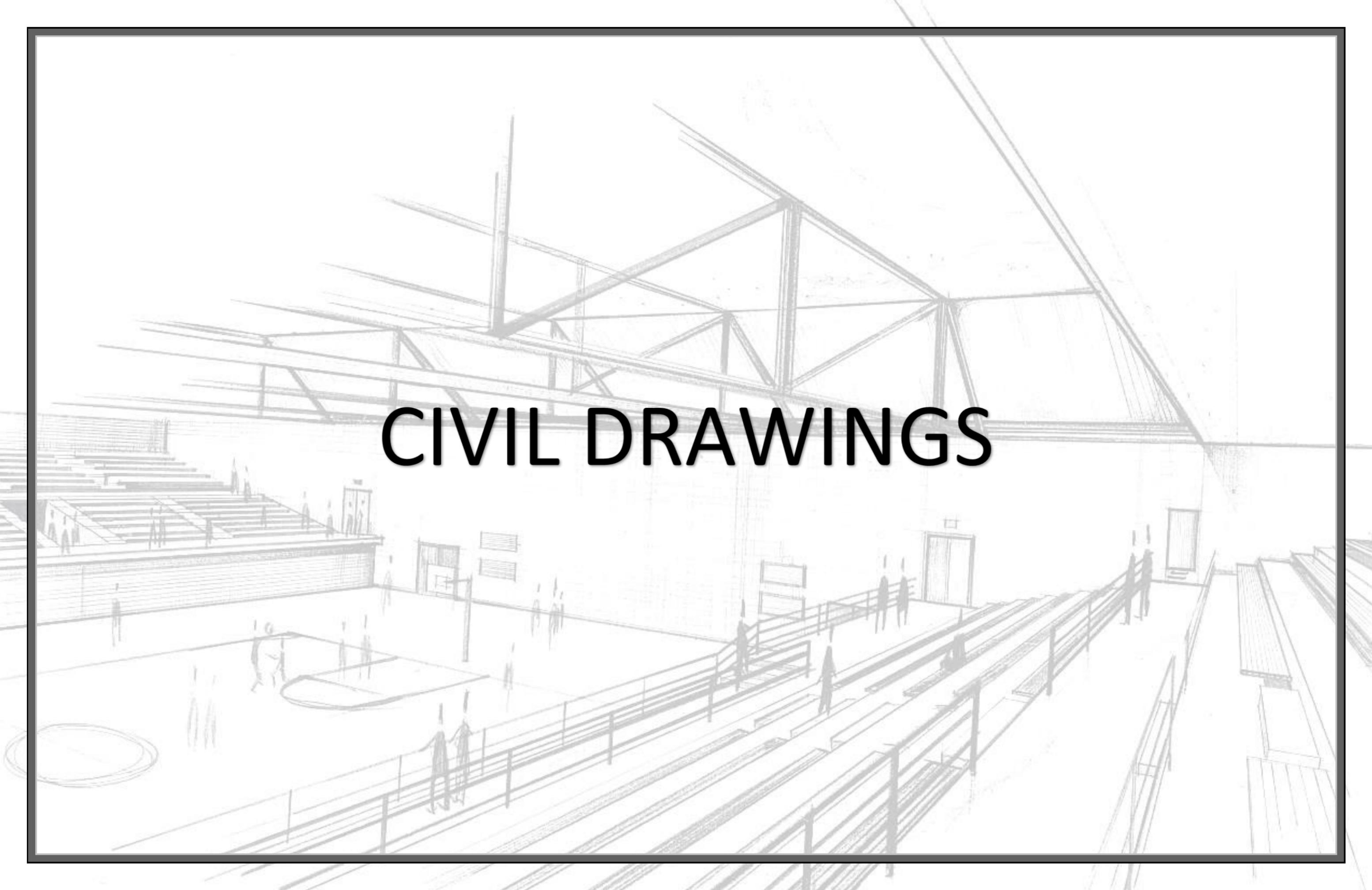
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<b>Organisation:</b>	
<b>Organisation Role:</b>	

**Purpose of Issue:**

I - Information Issue	P - Preliminary Design Drawings	
T - Tender Drawings	C - Contract Drawings	

**Drawing Title:**

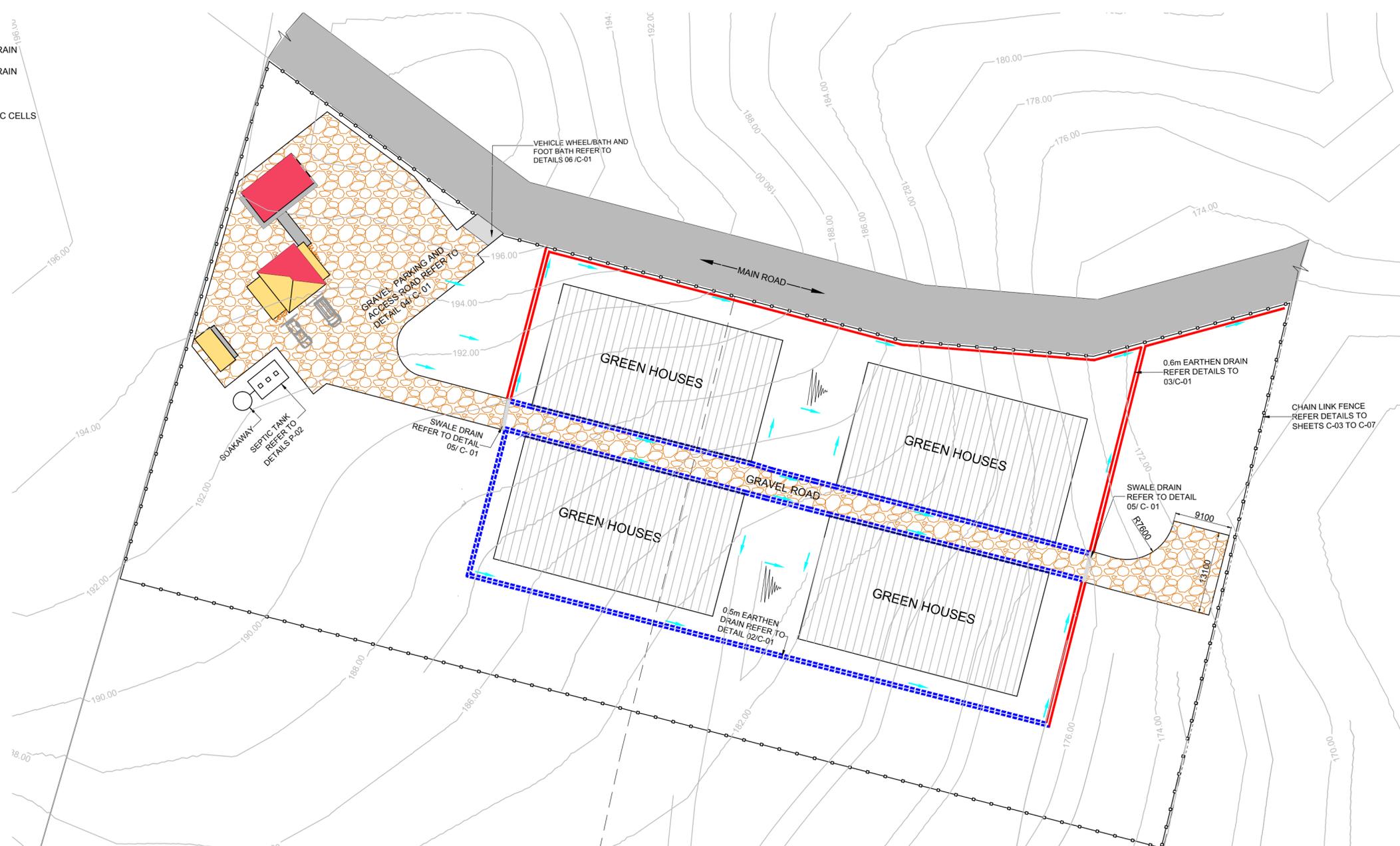
E - Email	D - Digital Distribution	
M - Registered Mail	U - Upload	
H - Hardcopy		

An architectural sketch of a gymnasium interior. The drawing shows a large hall with a high, vaulted ceiling supported by a complex steel truss system. In the foreground, there are rows of bleachers with a railing. In the middle ground, a basketball court is visible with several figures of people. The background shows a wall with windows and doors. The overall style is a light pencil or ink sketch.

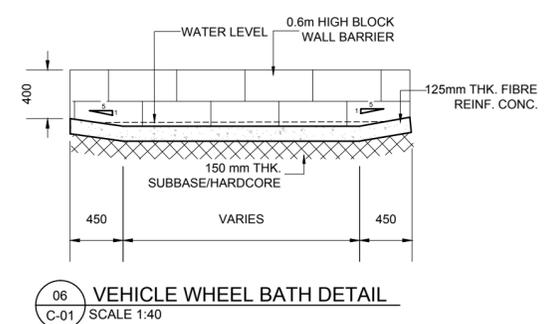
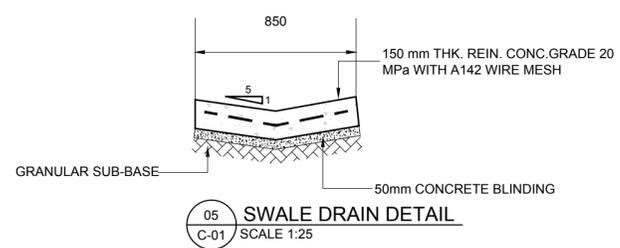
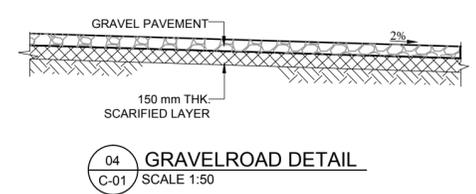
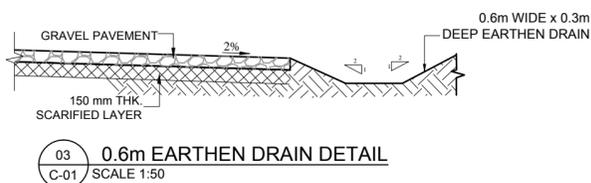
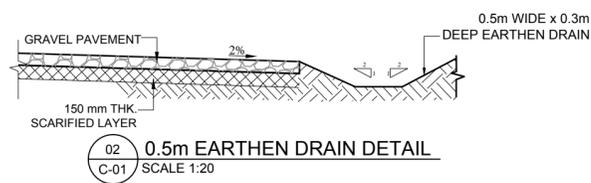
# CIVIL DRAWINGS

**LEGEND**

- 0.6m PROPOSED EARTHEN DRAIN
- - - 0.5m PROPOSED EARTHEN DRAIN
- PROPOSED STRUCTURES
- LOCATION OF PHOTO-VOLTAIC CELLS
- PROPOSED GRAVEL ROAD
- DIRECTION OF FLOW



**01 SITE LAYOUT**  
C-01 SCALE 1:500



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APPROVED:	GILBERT FONTENARD	GF
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JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES
TYPE OF DRAWING	DESIGN DRAWINGS



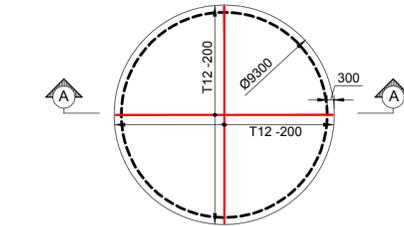
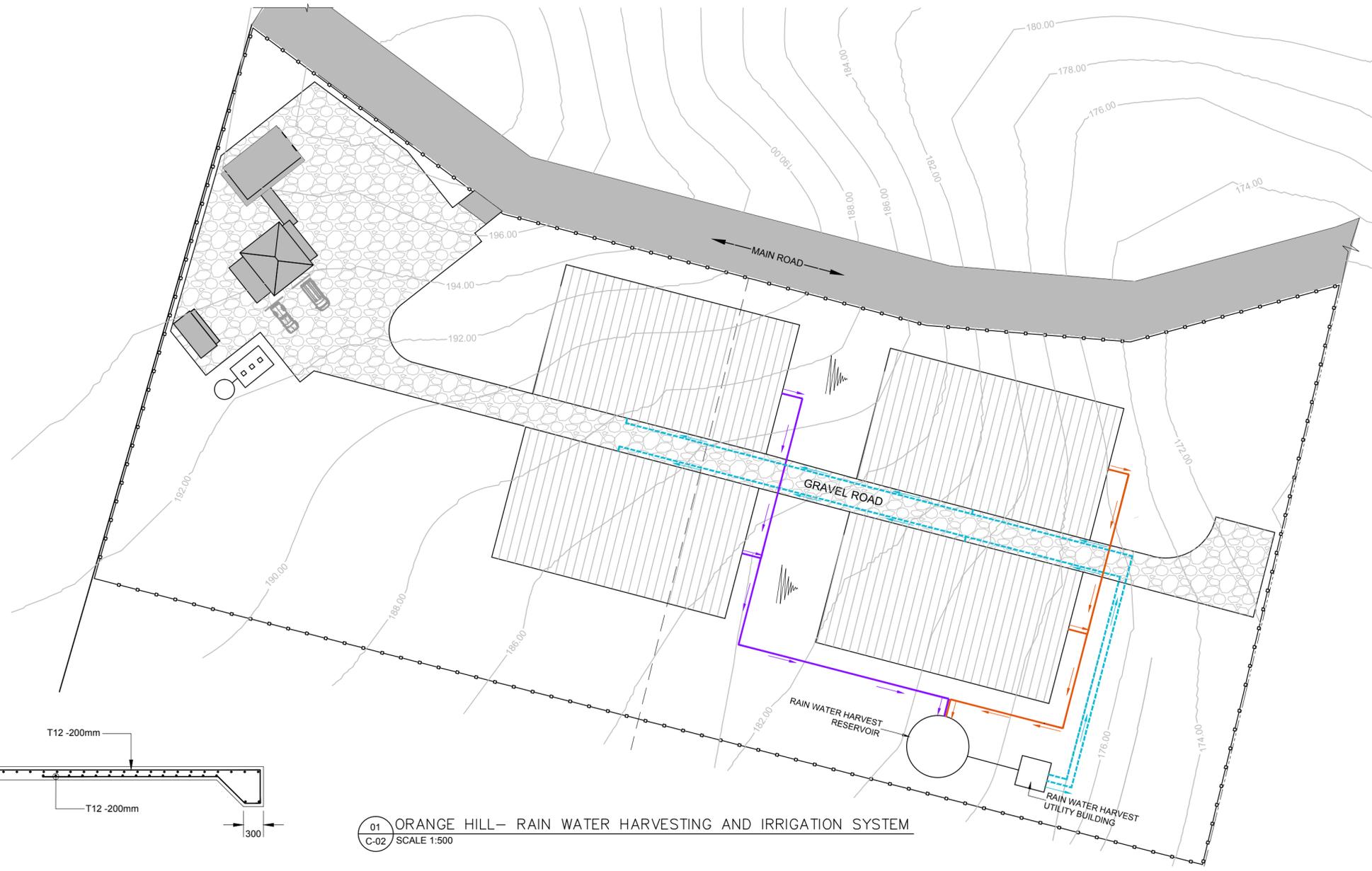
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 CASTRIES ST. LUCIA  
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 Fax. (758) 453 7048  
 email: fdl@fdlconsultinc.com  
 website: www.fdlconsultinc.com

**ORANGE HILL CIVIL SITE LAYOUT AND DETAILS**

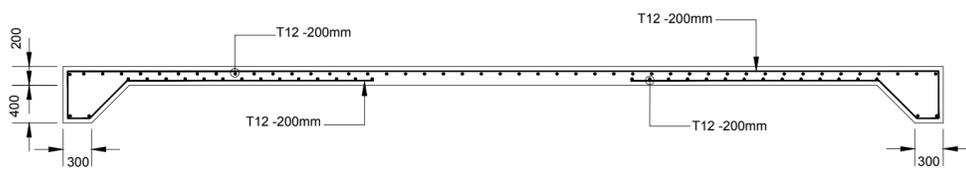
DRAWING TITLE	ORANGE HILL CIVIL SITE LAYOUT AND DETAILS
SCALE	AS SHOWN
SIZE	A2
DRAWING NO	SLU -1510-S-027-GPF
SHEET	C-01

**LEGEND**

- PROPOSED STRUCTURES
- 75mm UNDERGROUND RAINWATER HARVEST SUPPLY LINE
- 75mm RAINWATER HARVEST OVERHEAD SUPPLY LINE
- - - 50mm FERTIGATION SUPPLY LINE
- ▶ DIRECTION OF FLOW
- ▶ DIRECTION OF FLOW
- ▶ DIRECTION OF FLOW
- - - EXISTING GROUND PROFILE
- ▨ PROPOSED CUT
- ▨ PROPOSED FILL

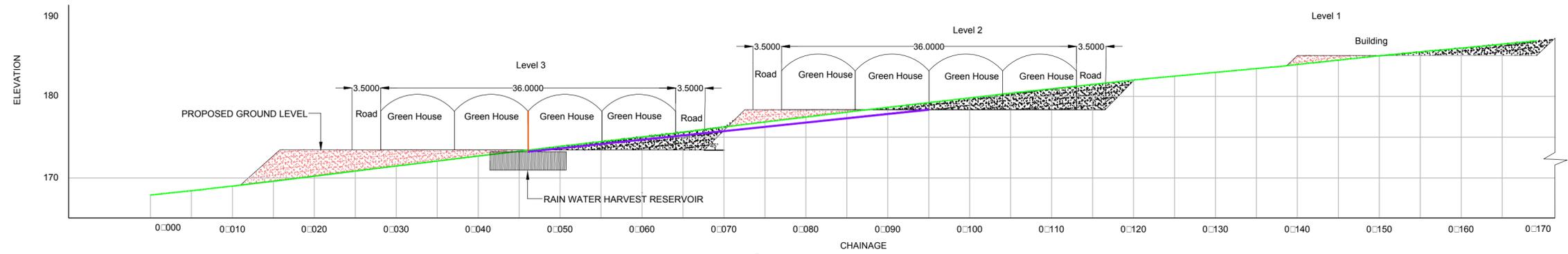


02 RESERVOIR BASE REINFORCEMENT LAYOUT  
C-02 SCALE 1:100



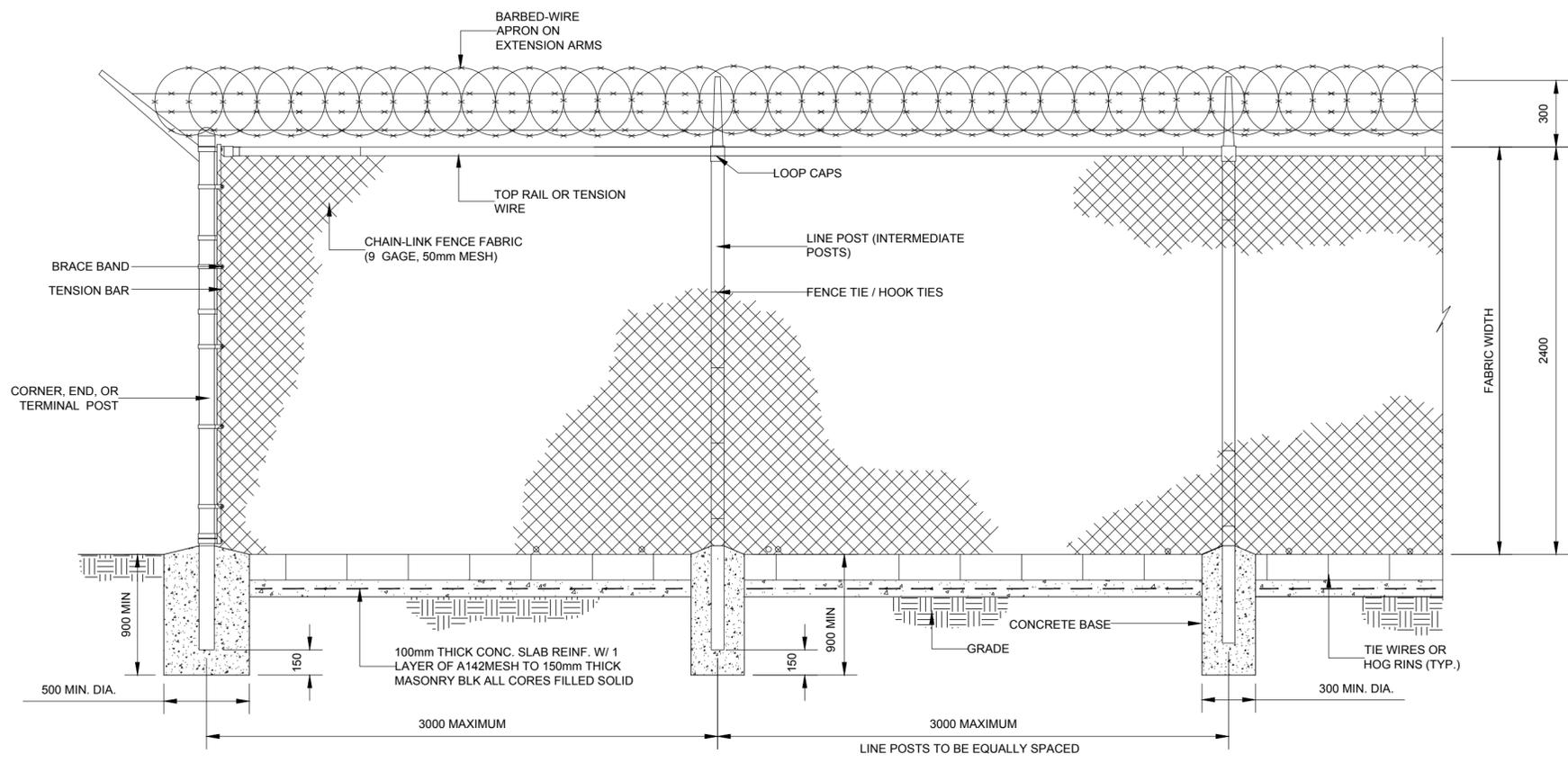
03 RESERVOIR BASE SECTION A-A  
C-02 SCALE 1:50

01 ORANGE HILL- RAIN WATER HARVESTING AND IRRIGATION SYSTEM  
C-02 SCALE 1:500

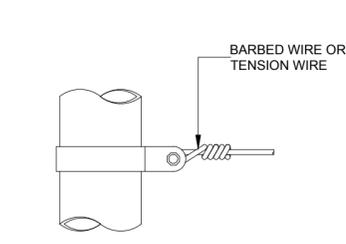


04 TYPICAL LONGITUDINAL SECTION THROUGH GREEN HOUSES  
C-02 SCALE 1:400

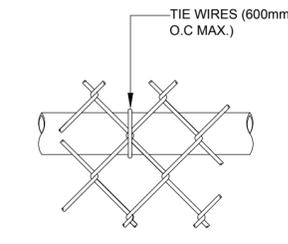
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							CHECKED: GILBERT FONTENARD	GF		JOB TITLE	DESIGN DRAWINGS	SCALE	SIZE	DRAWING NO	SHEET
							APPROVED: GILBERT FONTENARD	GF	ISSUED DATE:	PROPERTY OF:	FDL CONSULT INC.	AS SHOWN	A2	SLU -1510-S-027-GPF	C-02
									OCTOBER 2015						



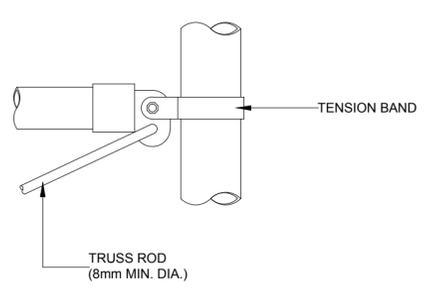
01 CHAIN-LINK SECURITY FENCE DETAIL  
C-03 SCALE: N.T.S



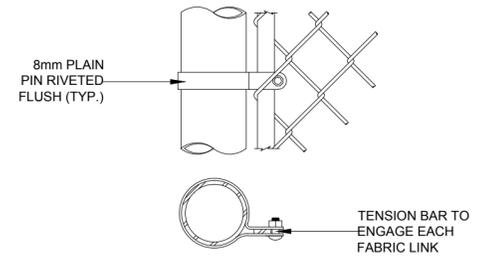
02 TENSION BAND  
C-03 SCALE: N.T.S



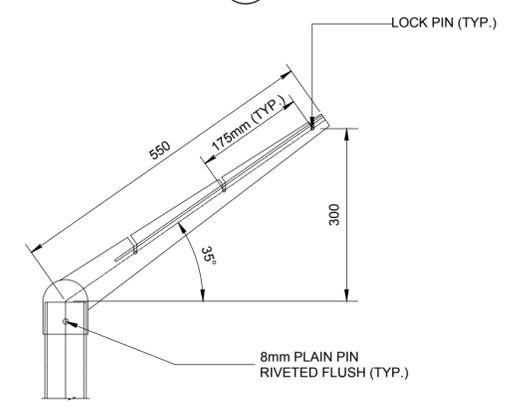
03 TOP RAIL ATTACHMENT  
C-03 SCALE: N.T.S



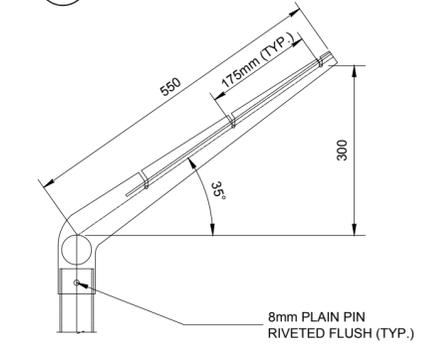
04 ROUND POST  
C-03 SCALE: N.T.S



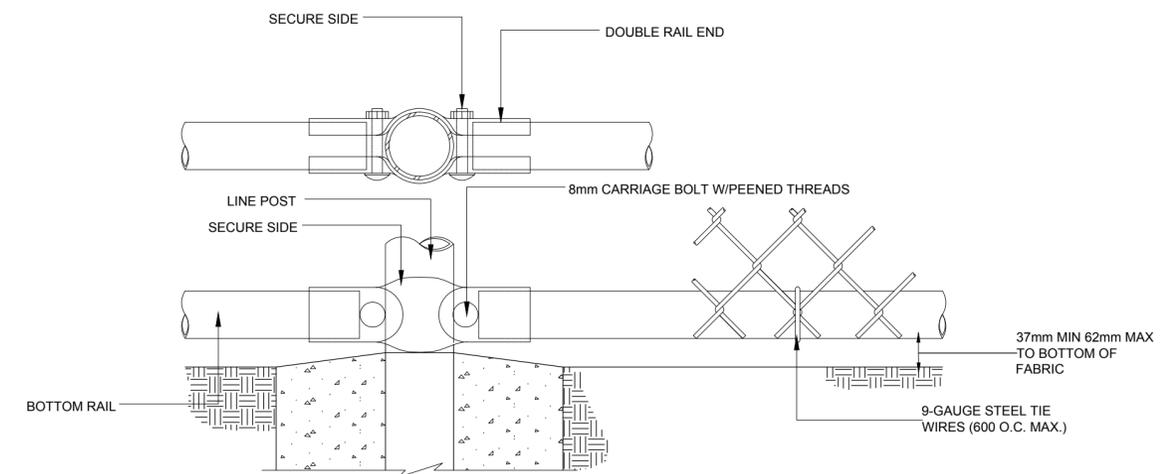
05 END OR GATE POST DETAIL  
C-03 SCALE: N.T.S



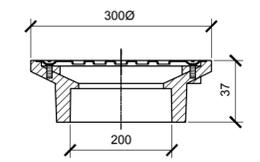
06 CHAIN-LINK SECURITY FENCE DETAIL  
C-03 SCALE: N.T.S



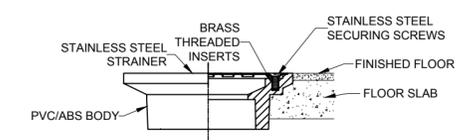
07 EXTENSION ARM DETAIL-LINE POST  
C-03 SCALE: N.T.S



08 BOTTOM RAIL DETAIL  
C-03 SCALE: N.T.S



09 FLOOR DRAIN DETAIL  
C-03 SCALE: N.T.S



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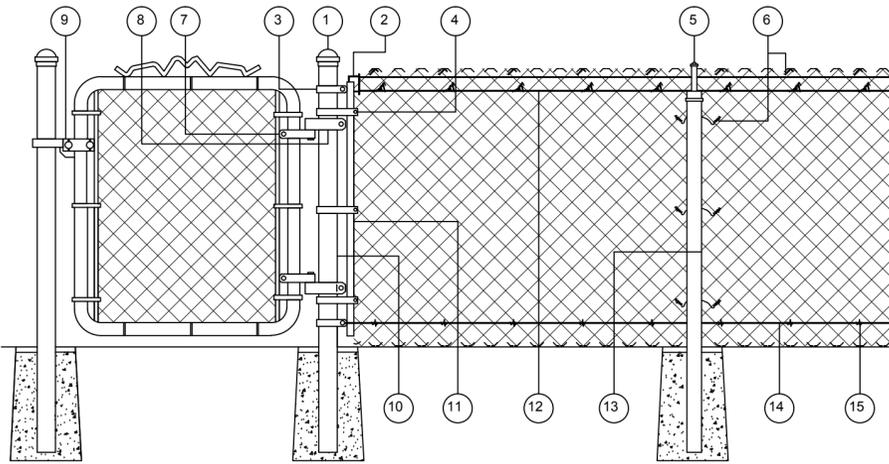
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DRAWN BY:	DANIEL JACKSON	DJ
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF
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CLIENT TITLE	GOVERNMENT OF ST. VINCENT AND THE GRENADINES	
	MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION	
JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES	
TYPE OF DRAWING	DESIGN DRAWINGS	

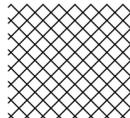
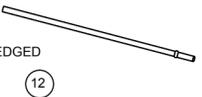
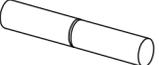
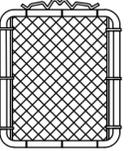
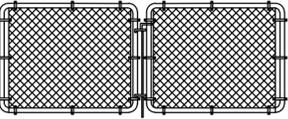
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DRAWING TITLE	CHAIN LINK FENCING DETAILS 1		
SCALE	SIZE	DRAWING NO	SHEET
N.T.S	A2	SLU-1510-S-027-GPF	C-03

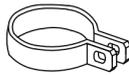
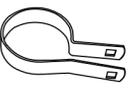
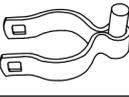
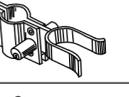
**PARTS LIST**



- |                     |                    |                       |
|---------------------|--------------------|-----------------------|
| ① TERMINAL POST CAP | ⑥ FENCE TIE        | ⑪ TENSION BAR         |
| ② RAIL END          | ⑦ GATE FRAME HINGE | ⑫ TOP RAIL            |
| ③ RAIL END BAND     | ⑧ GATE POST HINGE  | ⑬ LINE POST           |
| ④ TENSION BAND      | ⑨ GATE FORK LATCH  | ⑭ BOTTOM TENSION WIRE |
| ⑤ LINE POST TOP     | ⑩ TERMINAL POST    | ⑮ TENSION WIRE CLIP   |

**PARTS DESCRIPTION**

CHAIN-LINK FABRIC		SAME LINEAR FOOTAGE TO FENCE LESS GATE OPENINGS
TERMINAL POST (END, CORNER AND GATE POSTS)		AS REQUIRED (2 FOR EACH GATE)
LINE POST TOP INTERMEDIATE POST		DIVIDE THE TOTAL FOOTAGE OF YOUR FENCE (LESS GATE OPENINGS) BY 10 AND SUBTRACT 1. 1 SUBTRACT 1 ADDITIONAL LINE POST FOR EACH CORNER POST USED SPACE LINE POSTS EQUIDISTANT AT INTERVALS NOT EXCEEDING 3 METERS
TOP RAIL (PLAIN OR SWEDGED END)		SAME LINEAR FOOTAGE AS FENCE FABRIC
TOP RAIL SLEEVE		1 FOR EACH LENGTH OF PLAIN TOP RAIL. NOT NEEDED FOR SWEDGED END TOP RAIL
TENSION BAR		1 FOR EACH END POST 1 FOR EACH GATE POST 1 FOR EACH CORNER POST
SINGLE SWING GATE		INDIVIDUAL FITTINGS AS INDICATED BELOW
DOUBLE SWING GATE		INDIVIDUAL FITTINGS AS INDICATED BELOW
TERMINAL POST CAP		1 FOR EACH TERMINAL POST
LINE POST TOP		1 FOR EACH LINE POST

RAIL END		1 FOR EACH END POST 1 FOR EACH GATE POST 1 FOR EACH CORNER POST
RAIL END BAND		1 FOR EACH RAIL END
TENSION BAND		FOR EACH END POST, USE 3 FOR 75mm, 1050mm OR 1200. USE 4 EACH FOR 1500mm, AND USE 5 EACH FOR 1800mm. SAME FOR GATE POSTS. DOUBLE THE QUANTITY FOR CORNER POSTS.
GATE POST HINGE		2 FOR SINGLE SWING GATE 4 FOR DOUBLE SWING GATE
GATE FRAME HINGE		2 FOR SINGLE SWING GATE 4 FOR DOUBLE SWING GATE
GATE FORK LATCH		1 FOR EACH SINGLE SWING GATE
FENCE TIE		1 FOR EVERY 600mm OF TOP RAIL AND 1 FOR EVERY 300mm OF LINE POST
7mm x 30mm CARRIAGE BOLT		1 FOR EACH RAIL END 2 FOR EACH TENSION BAND
9mm x 50mm CARRIAGE BOLT		1 FOR EACH GATE FRAME HINGE
9mm x 75mm CARRIAGE BOLT		1 FOR EACH GATE POST HINGE
BOTTOM TENSION WIRE		SAME LINEAR FOOTAGE TO FENCE LESS GATE OPENINGS
TENSION WIRE CLIP		FOR EVERY 600mm OF TENSION WIRE
CONCRETE MIX		APPROXIMATELY TWO 27.3 KG SACK PER POST HOLE

**USEFUL TOOLS**

- |   |   |
|---|---|
| STRING OR CHALK LINE AND STAKES                           | 12mm AND 14mm WRENCH OR CRESCENT WRENCH |
| TAPE MEASURE  | HACKSAW OR PIPE CUTTER                  |
| POST HOLE DIGGER  | FENCE STRETCHER                         |
| WHEELBARROW, SHOVEL AND HOE TO MIX AND TRANSPORT CONCRETE | PLIERS                                  |
| CARPENTER'S LEVEL   | TENSION WIRE CLIP (HOG RING) PLIERS     |

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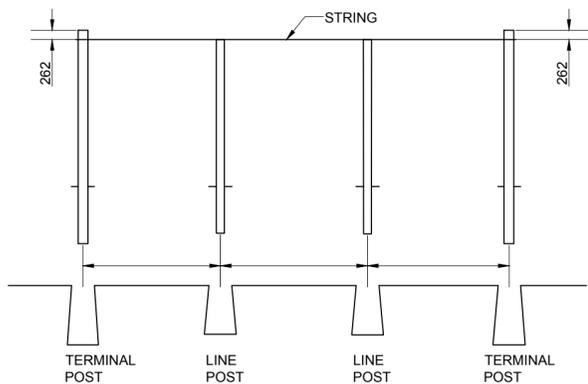
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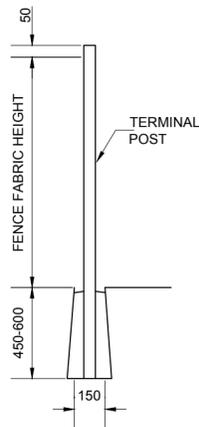
DRAWING TITLE		CHAIN LINK FENCING DETAILS 2	
SCALE	SIZE	DRAWING NO	SHEET
NTS	A2	SLU-1510-S-027-GPF	C-04

**STEP 1**  
WHEN THE TERMINAL POST FOOTINGS HAVE HARDENED ENOUGH TO STABILIZED THE POSTS, STRETCH A STRING SHOULD BE POSITIONED ON THE OUTSIDE THE FACE OF THE POSTS 100mm BELOW THE TOP (FIG. 3). HEIGHT, ABOVE LEVEL GROUND, OF LINE POSTS WILL EQUAL THE HEIGHT OF THE FABRIC MINUS 50mm.



**01 LOCATING AND SETTING LINE POLES**  
C-05 SCALE: N.T.S

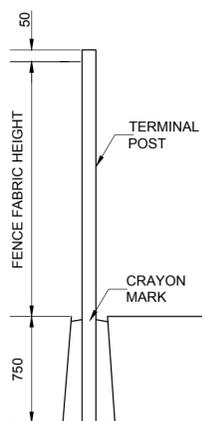
**STEP 2**  
MEASURE THE DISTANCE BETWEEN TERMINAL POSTS AND REFER TO POST SPACING CHART TO DETERMINE THE DISTANCE BETWEEN LINE POSTS. DIG LINE POST HOLES 150mm WIDE AND 450mm TO 600mm DEEP, WITH SLOPING SIDES. CENTRE THE LINE POSTS IN HOLES. MAKE SURE THE POSTS ARE PLUMB, ALIGNED WITH THE CENTERS OF TERMINAL POSTS, AND SET AT THE CORRECT HEIGHT. SURROUND POSTS WITH CONCRETE IN A CONTINUOUS POUR. TROWEL FINISH AROUND POSTS AND SLOPE DOWNWARD TO DIRECT WATER AWAY.



**STEP 1**  
DIG TERMINAL POST HOLES APPROXIMATELY 200mm IN DIAMETER AND 750mm DEEP, WITH SLOPING SIDES. THE EXACT DIAMETER AND DEPTH WILL BE DETERMINED BY LOCAL WEATHER AND SOIL CONDITIONS.

**STEP 2**  
WITH CRAYON OR CHALK, MARK THE GROUND LINE ON POSTS. HEIGHT, ABOVE LEVEL GROUND, OF TERMINAL POSTS WILL EQUAL THE HEIGHT OF THE FENCE FABRIC PLUS 50mm.

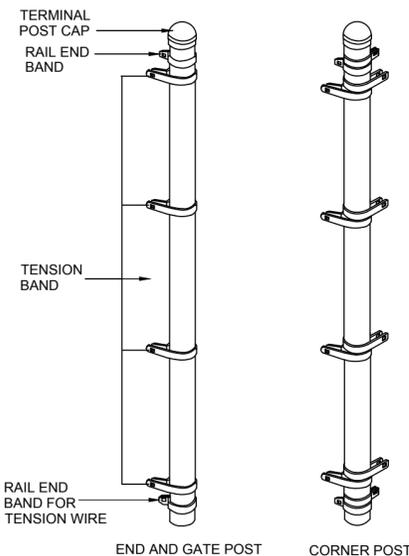
**STEP 3**  
CENTER THE TERMINAL POSTS IN THE HOLES. MAKE SURE THE POSTS ARE PLUMB AND SET AT THE CORRECT HEIGHT. (CRAYON MARK SHOULD BE AT GROUND LEVEL.). SURROUND POSTS WITH CONCRETE IN A CONTINUOUS POUR. TROWEL FINISH AROUND POSTS AND SLOPE DOWNWARD TO DIRECT WATER AWAY.



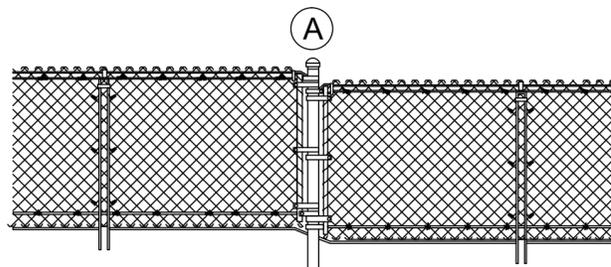
**02 SETTING TERMINAL POSTS**  
C-05 SCALE: N.T.S

**STEP 1**  
AFTER CONCRETE FOOTINGS HAVE BEEN ALLOWED TO SUFFICIENTLY HARDEN, SLIP THE RAIL END BANDS AND TENSION BANDS ONTO THE TERMINAL POSTS. (REFER TO PARTS LIST FOR THE DESCRIPTION AND QUANTITY OF FITTINGS THAT ARE REQUIRED FOR VARIOUS POST TYPES AND HEIGHTS). THE LONG FLAT SURFACE OF THE TENSION BAND SHOULD FACE TOWARD THE OUTSIDE OF THE FENCE

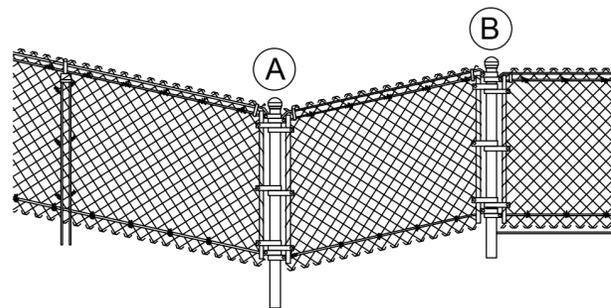
**STEP 2**  
APPLY ALL TERMINAL POST CAPS.



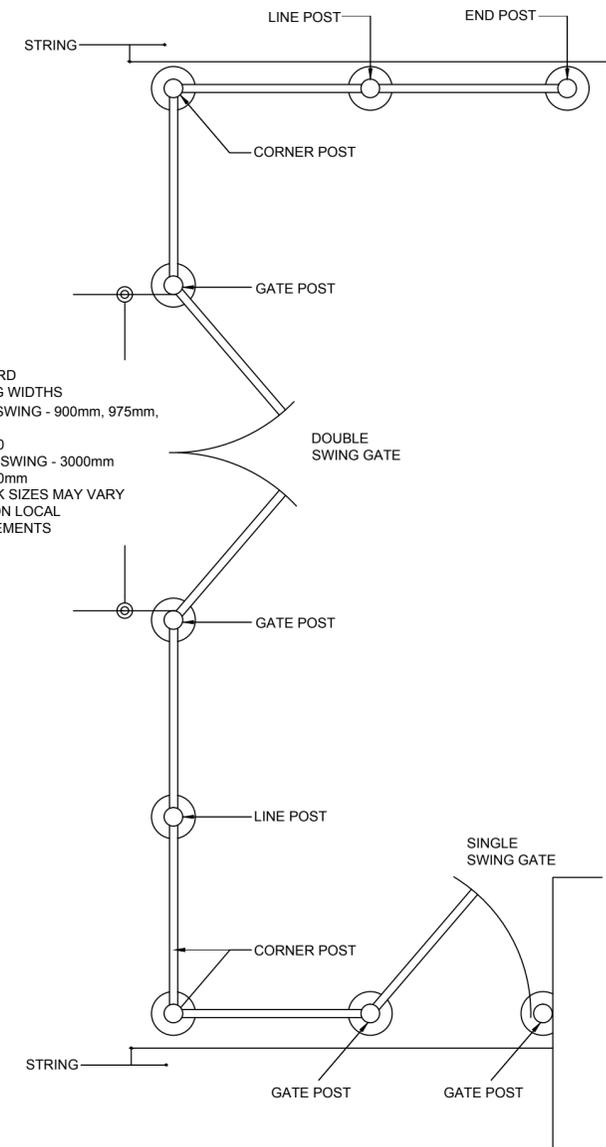
TERRACED GROUND CORNER POST ASSEMBLY IS USED AT A POINT A TO ALLOW FABRIC TO FOLLOW TERRACED CONTOUR OF GROUND.



VERY UNEVEN GROUND CORNER POST ASSEMBLY IS USED AT POINTS A AND B. WHEN GROUND RISES OR DROPS MORE THAN 375mm PER 30.5 METERS.



**03 ADDING FITTINGS TO TERMINAL POSTS**  
C-05 SCALE: N.T.S



STANDARD OPENING WIDTHS  
SINGLE SWING - 900mm, 975mm, 1050mm  
AND 1200  
DOUBLE SWING - 3000mm  
AND 3600mm  
IN STOCK SIZES MAY VARY  
BASED ON LOCAL REQUIREMENTS

**STEP 1**  
LOCATE YOUR PROPERTY LINES. IT IS RECOMMENDED THAT ALL POSTS BE SET APPROXIMATELY 100mm INSIDE THE PROPERTY LINE SO THAT CONCRETE FOOTINGS DO NOT ENCROACH ONTO ANY ADJOINING PROPERTY.

**STEP 2**  
MEASURE THE OVERALL LENGTH OF EACH OF YOUR PLANNED FENCE TO DETERMINE HOW MANY FEET OF CHAIN-LINK FABRIC AND TOP RAIL BE REQUIRED.

**STEP 3**  
MARK THE LOCATION OF EACH TERMINAL POST (CORNER, END, AND GATE POST ARE CALLED TERMINAL POSTS) WITH A STAKE.

WHEN DETERMINING THE POSITIONS OF GATE POSTS REMEMBER THAT CLEARANCE FOR HINGES, LATCHES, ETC. IS INCLUDED IN THE LISTED OPENING WIDTH OF THE GATE. THEREFORE, IF YOU ORDERED A GATE FOR A 900mm OPENING THE POST SPACING SHOULD BE EXACTLY 900mm, INSIDE POST FACE TO INSIDE POST FACE.

**04 PREPARE FENCE LAYOUT**  
C-05 SCALE: N.T.S

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DRAWING TITLE

CHAIN LINK FENCING DETAILS 3

SCALE

N.T.S

SIZE

A2

DRAWING NO

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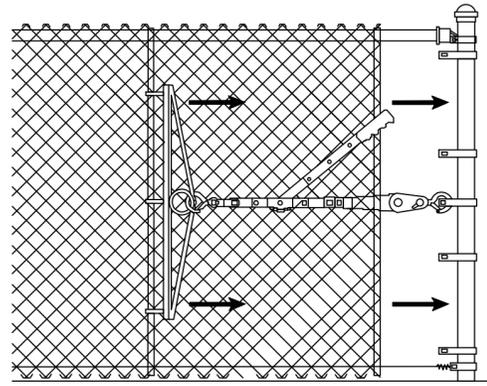
SHEET

C-05

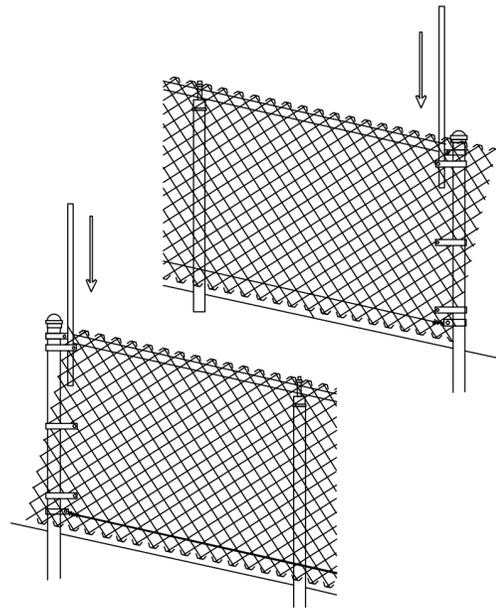
**STEP 1**  
TEMPORARILY INSERT A TENSION BAR ABOUT 900mm INSIDE THE UNATTACHED END OF THE FABRIC. SECURELY FASTEN ONE END OF THE FENCE STRETCHER TO THE TENSION BAR AND THE OTHER END OF THE TERMINAL POST (FIG. 17). STRETCH THE OTHER END TO THE TERMINAL. THE CORRECT FABRIC TENSION SHOULD ALLOW A SLIGHT AMOUNT OF GIVE WHEN SQUEEZED BY HAND. REMOVE THE TEMPORARY TENSION BAR.

**STEP 2**  
ADJUST THE FABRIC TO THE EXACT LENGTH BY ADDING OR REMOVING WIRE AS SHOWN IN FIGURES 15 AND 16. INSERT A TENSION BAR AT THE END OF THE FABRIC AND CONNECT TO TENSION BANDS ON TERMINAL POST.

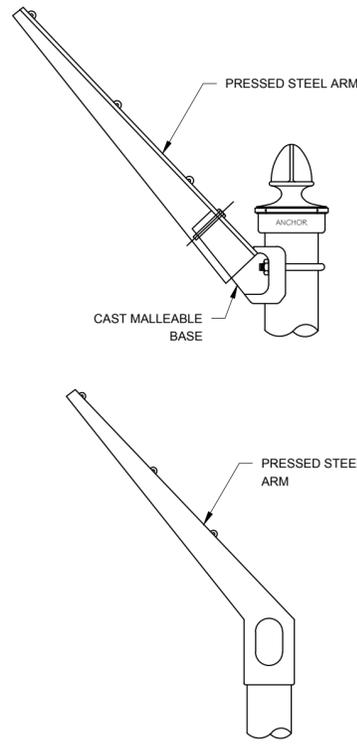
HILLSIDE STRETCH -BIAS CUTTING  
(IF NECESSARY)



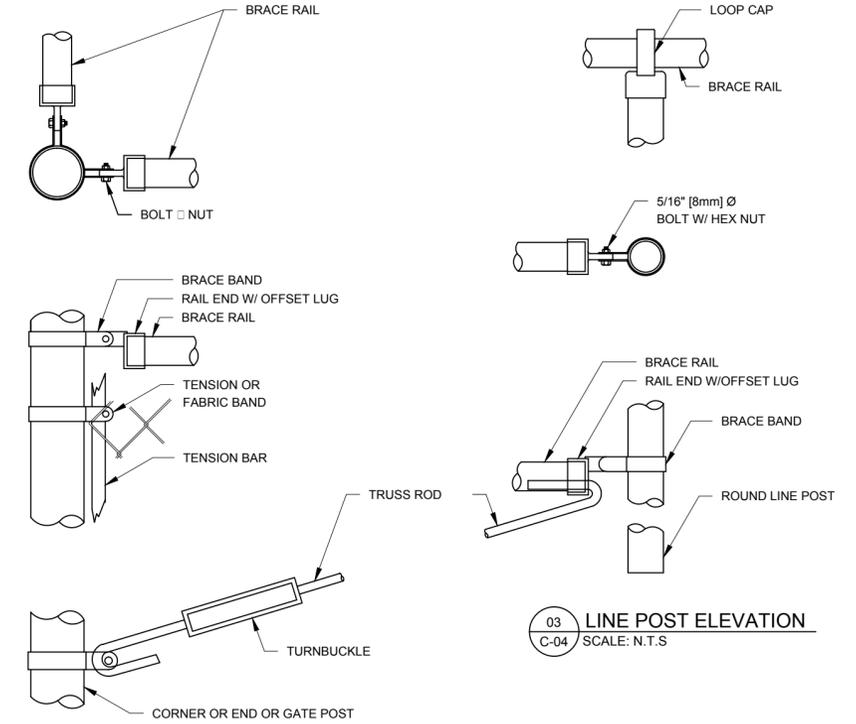
IF THE TOP OF THE CHAIN-LINK FABRIC DOES NOT CREATE A RIGHT ANGLE TO THE TERMINAL POST, THE FABRIC MUST BE CUT ON A BIAS SO THAT THE TENSION BAR CAN SLIDE INTO THE FABRIC AT THE PROPER ANGLE. PULL THE CHAIN-LINK FABRIC UNTIL THE TOP OR BOTTOM, WHICHEVER IS THE SHORTEST, REACHES THE TERMINAL POST. THE OTHER CORNER OF THE FABRIC WILL EXTEND TO THE TERMINAL POST. INSERT THE TENSION BAR AT THE ANGLE THROUGH THE FABRIC PARALLEL TO THE TERMINAL POST (FIG. 18). REMOVE THE EXCESS WIRE BY CUTTING THE STRANDS THAT FORM THE DIAMOND AT THE TENSION BAR LEAVING THEM LONG ENOUGH TO BEND OVER THE BAR. DO NOT CUT EVERY WIRE. THE NUMBER OF WIRES CUT DEPENDS ON THE DEGREE OF THE SLOPE AND THE HEIGHT OF THE FENCE.



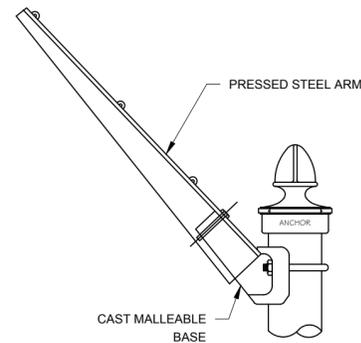
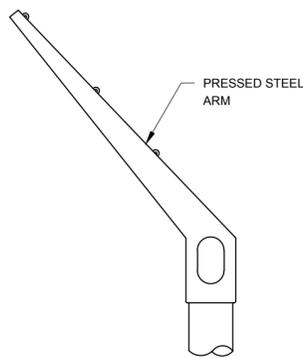
01 STRETCHING FENCE FABRIC  
C-06 SCALE: N.T.S



02 END, CORNER OR GATE POST  
C-06 SCALE: N.T.S



03 LINE POST ELEVATION  
C-04 SCALE: N.T.S



04 BARBED WIRE ARM 45° ARM (TYP. ARM POST)  
C-06 SCALE: N.T.S

05 BARBED WIRE CORNER ARM (TYP. CORNER POST)  
C-06 SCALE: N.T.S

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SCALE	SIZE	DRAWING NO	SHEET
N.T.S	A2	SLU-1510-S-027-GPF	C-06

**STEP 1**  
PLACE LINE POST TOP OF EACH LINE POST. THE OFF-SET ROUND SIDE SHOULD BE TOWARD THE OUTSIDE OF THE FENCE (FIG. 1)

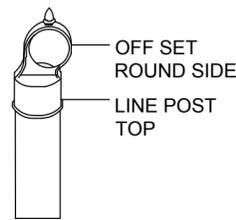


FIGURE 1

**STEP 2**  
INSERT ONE LENGTH OF TOP RAIL THROUGH THE LINE POST TOP CLOSEST TO A TERMINAL POST. SLIP RAIL END ONTO THE END OF THE TOP RAIL AND ATTACH IT TO A TERMINAL POST BY USING A RAIL END BAND. SECURE BY USING A 7mm x 30mm CARRIAGE BOLT WITH THE HEAD TO THE OUTSIDE OF THE FENCE (FIG. 2).

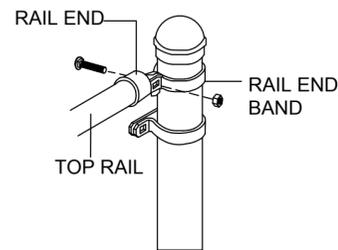


FIGURE 2

**STEP 3**  
CONTINUE BY FORCING LENGTHS OF SWEDGE END TOP RAIL TOGETHER THROUGH THE LINE POST TOPS. (IF SWEDGE END TOP RAIL IS NOT USED, JOIN LENGTHS TOGETHER WITH TOP RAIL SLEEVES.) (FIG. 3)

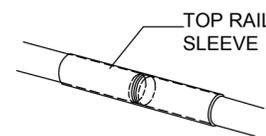


FIGURE 3

**STEP 4**  
UPON REACHING THE NEXT TERMINAL POST, MEASURE CAREFULLY AND CUT THE TOP RAIL TO FIT TIGHTLY BETWEEN THE LAST LENGTH OF TOP RAIL AND THE RAIL END. FASTEN RAIL END TO RAIL END BAND ON THE TERMINAL POST. SECURE IN PLACE WITH A 7mm x 31mm CARRIAGE BOLT (FIG. 4)

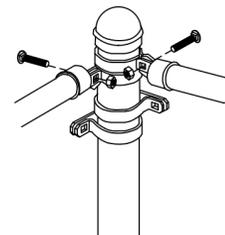


FIGURE 4

01 INSTALLING TOP RAILS  
C-07 SCALE: N.T.S

WRAP TENSION WIRE ONCE AROUND BOTTOM RAIL END BAND CARRIAGE BOLT. USING PLIERS, TWIST SEVERAL TIMES TO SECURE (FIG. 5). TENSION WIRE SHOULD RUN ALONG THE SAME SIDE OF THE POST AS THE FABRIC. APPLY TENSION WIRE CLIPS NO MORE THAN 600mm APART, OR AS NEEDED FOR SECURING THE WIRE TO THE CHAIN-LINK FABRIC.

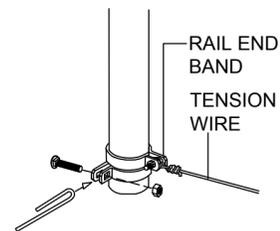


FIGURE 5

02 ADDING TENSION WIRE (OPTIONAL)  
C-07 SCALE: N.T.S

**STEP 1**  
STARTING AT A TERMINAL POST, UNROLL CHAIN-LINK FABRIC ON THE GROUND ALONG THE OUTSIDE OF THE FENCE LINE NEXT TO THE TERMINAL POST. SLIDE A TENSION BAR THROUGH THE FIRST ROW OF THE CHAIN-LINK DIAMONDS. FASTEN EVENLY SPACED TENSION BANDS (ALREADY ON THE POST) TO THE TENSION BAR, FABRIC COMBINATION USING 7mm X 30mm CARRIAGE BOLTS WITH HEADS TO THE OUTSIDE OF THE FENCE. (FIGS.6 □ 7)

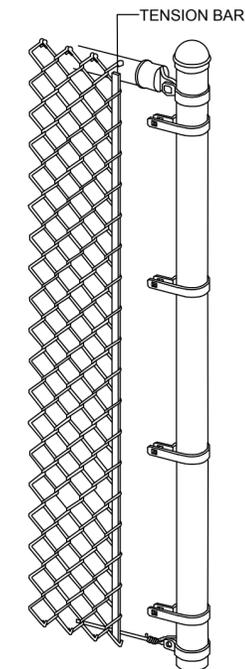


FIGURE 6

**STEP 2**  
WALK ALONG THE FABRIC AND STAND IT UP AGAINST THE FENCE FRAME, TAKING OUT THE SLACK AS YOU GO. LOOSELY ATTACH FABRIC TO TOP RAIL WITH A FEW FENCE TIES TO HOLD IT IN PLACE. SEPARATE ENOUGH FABRIC FROM THE ROLL TO THE SPAN THE OPENING BETWEEN THE TERMINAL POST.

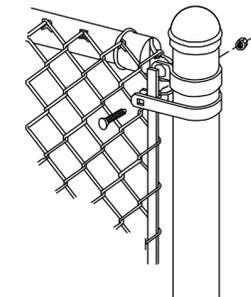


FIGURE 7

TO REMOVE EXCESS FABRIC

REMOVE THE EXCESS FABRIC WITH PLIERS BY OPENING THE TOP AND BOTTOM LOOPS (KNUCKLES) OF A SINGLE STRAND OF WIRE AT THE DESIRED POINT OF SEPARATION. UNWIND THE STRAND UP THROUGH THE LINKS UNTIL THE FABRIC COMES APART. (FIGS 8 □ 9)

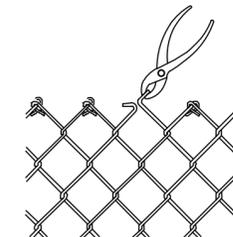


FIGURE 8

TO SPLICE SECTIONS OF FABRIC

SPLICE SECTIONS OF CHAIN-LINK FABRIC TOGETHER USING A SINGLE STRAND OF WIRE, REMOVED FROM THE END OF THE FABRIC. JOIN THE TWO SECTIONS BY WINDING THE LOOSE STRAND DOWN, CORKSCREW STYLE, THROUGH THE END LINKS. JOIN AND TIGHTEN THE KNUCKLES AT THE TOP AND BOTTOM TO SECURE.

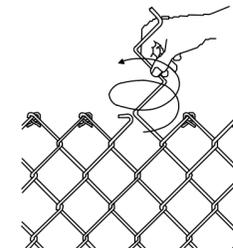


FIGURE 9

NOTE: BEFORE SECTIONS CAN BE SPLICED, A SECOND STRAND MAY HAVE TO BE REMOVED.

03 HANGING FENCE FABRIC  
C-07 SCALE: N.T.S

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DESIGNED BY:	FDL CONSULT INC.	FDL
DRAWN BY:	DANIEL JACKSON	DJ
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF



CLIENT TITLE  
**GOVERNMENT OF ST.VINCENT AND THE GRENADINES**  
MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION

ISSUED DATE:	OCTOBER 2015
PROPERTY OF:	FDL CONSULT INC.

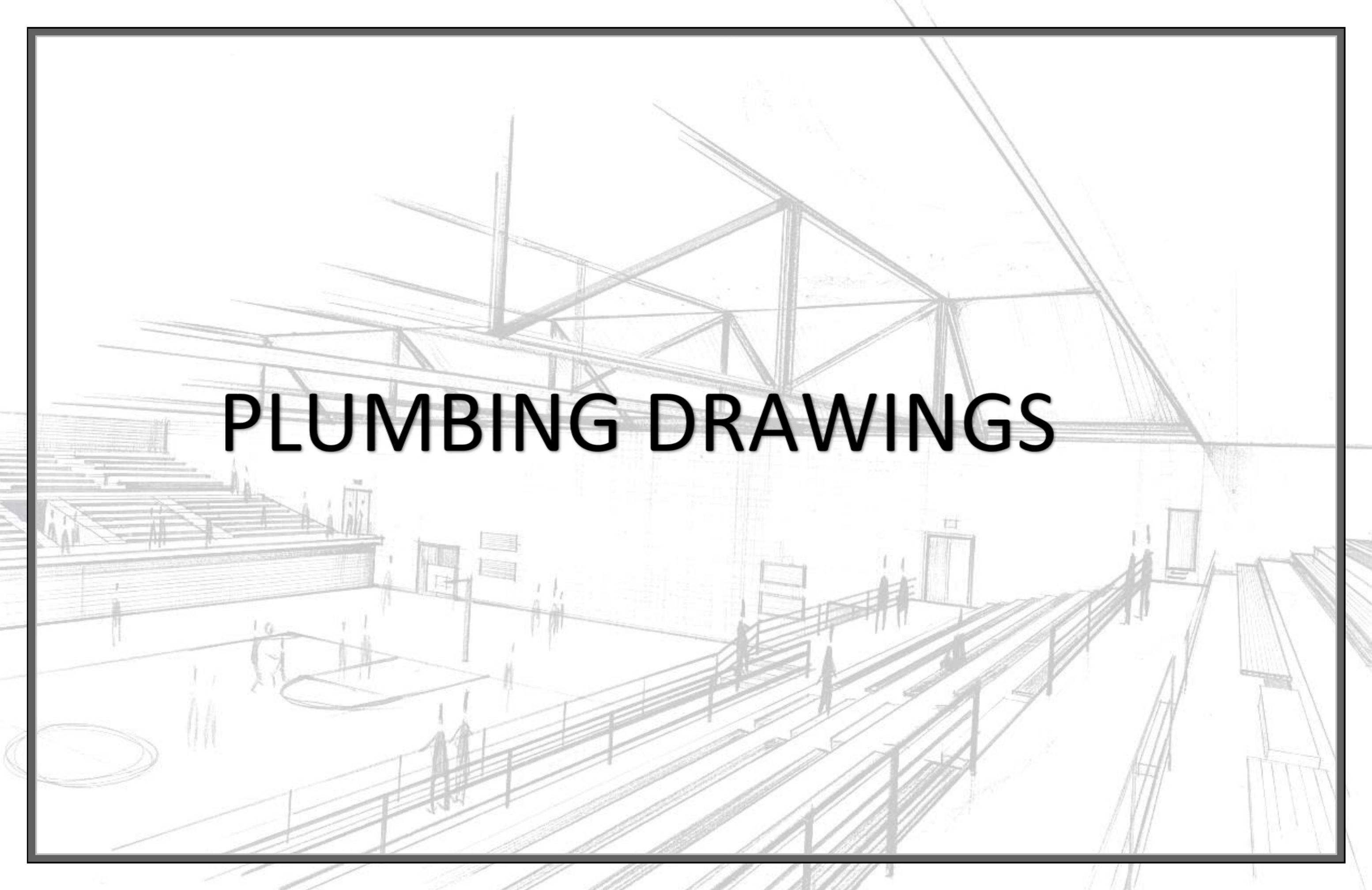
JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES
TYPE OF DRAWING	DESIGN DRAWINGS

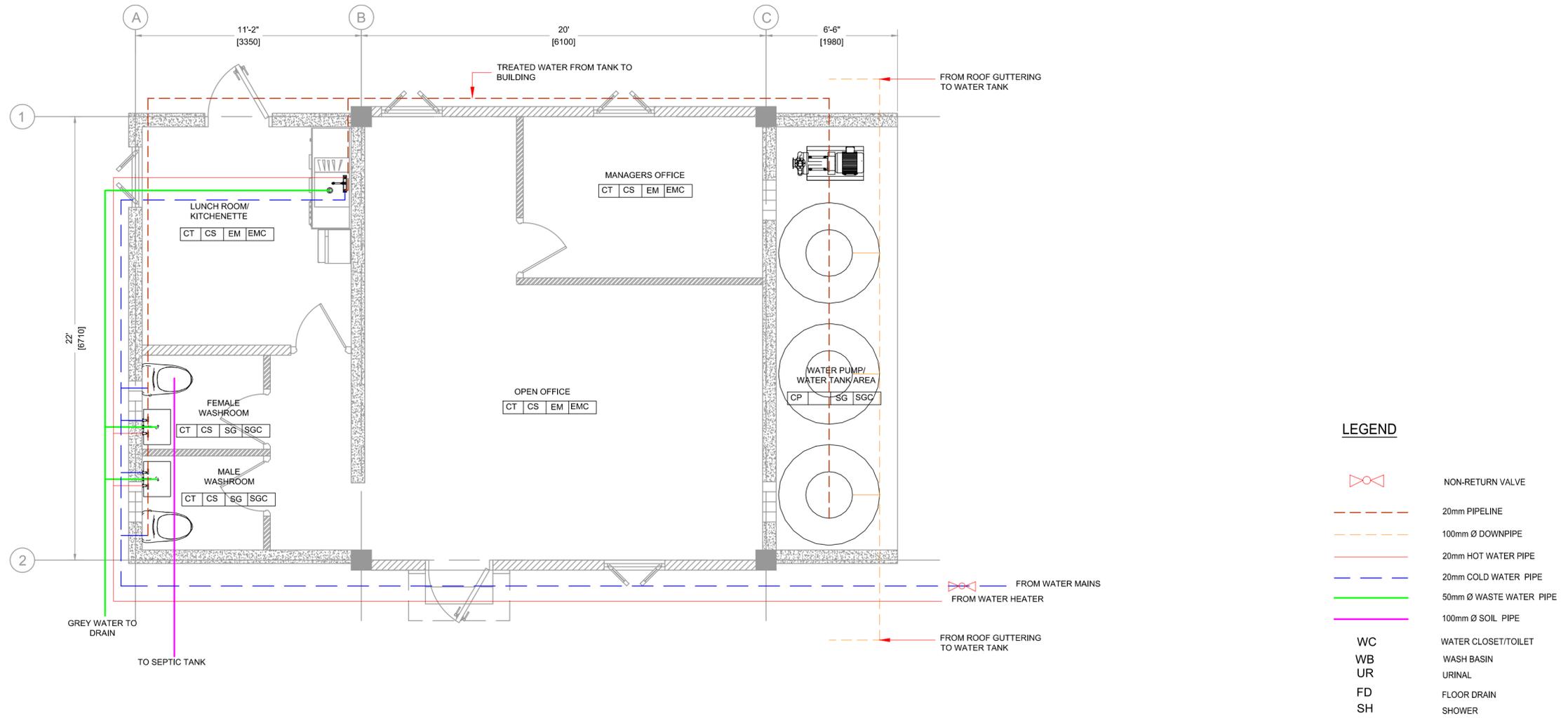


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website: www.fdlconsultinc.com

DRAWING TITLE	CHAIN LINK FENCING DETAILS 5		
SCALE	SIZE	DRAWING NO	SHEET
AS SHOWN	A2	SLU-1510-S-027-GPF	C-07

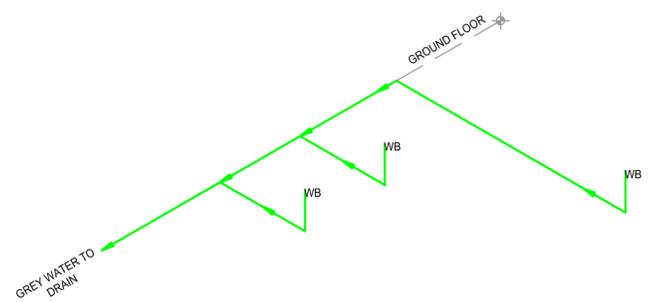
# PLUMBING DRAWINGS



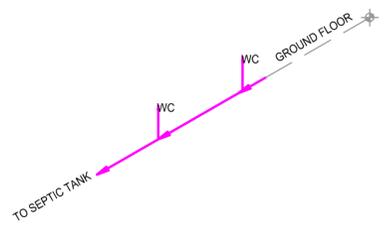


- LEGEND**
- NON-RETURN VALVE
  - 20mm PIPELINE
  - 100mm Ø DOWNPIPE
  - 20mm HOT WATER PIPE
  - 20mm COLD WATER PIPE
  - 50mm Ø WASTE WATER PIPE
  - 100mm Ø SOIL PIPE
  - WC** WATER CLOSET/TOILET
  - WB** WASH BASIN
  - UR** URINAL
  - FD** FLOOR DRAIN
  - SH** SHOWER

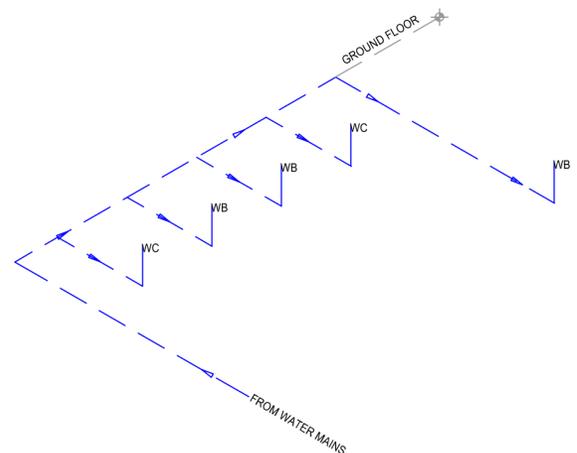
01 PLUMBING LAYOUT  
P-01 SCALE 1:50



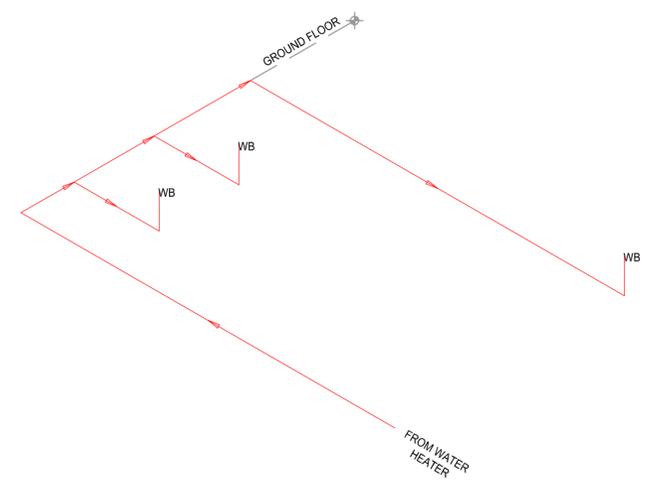
02 BUILDING WASTE WATER ISO.  
P-01 SCALE 1:100



03 SOIL PIPE ISO.  
P-01 SCALE 1:100



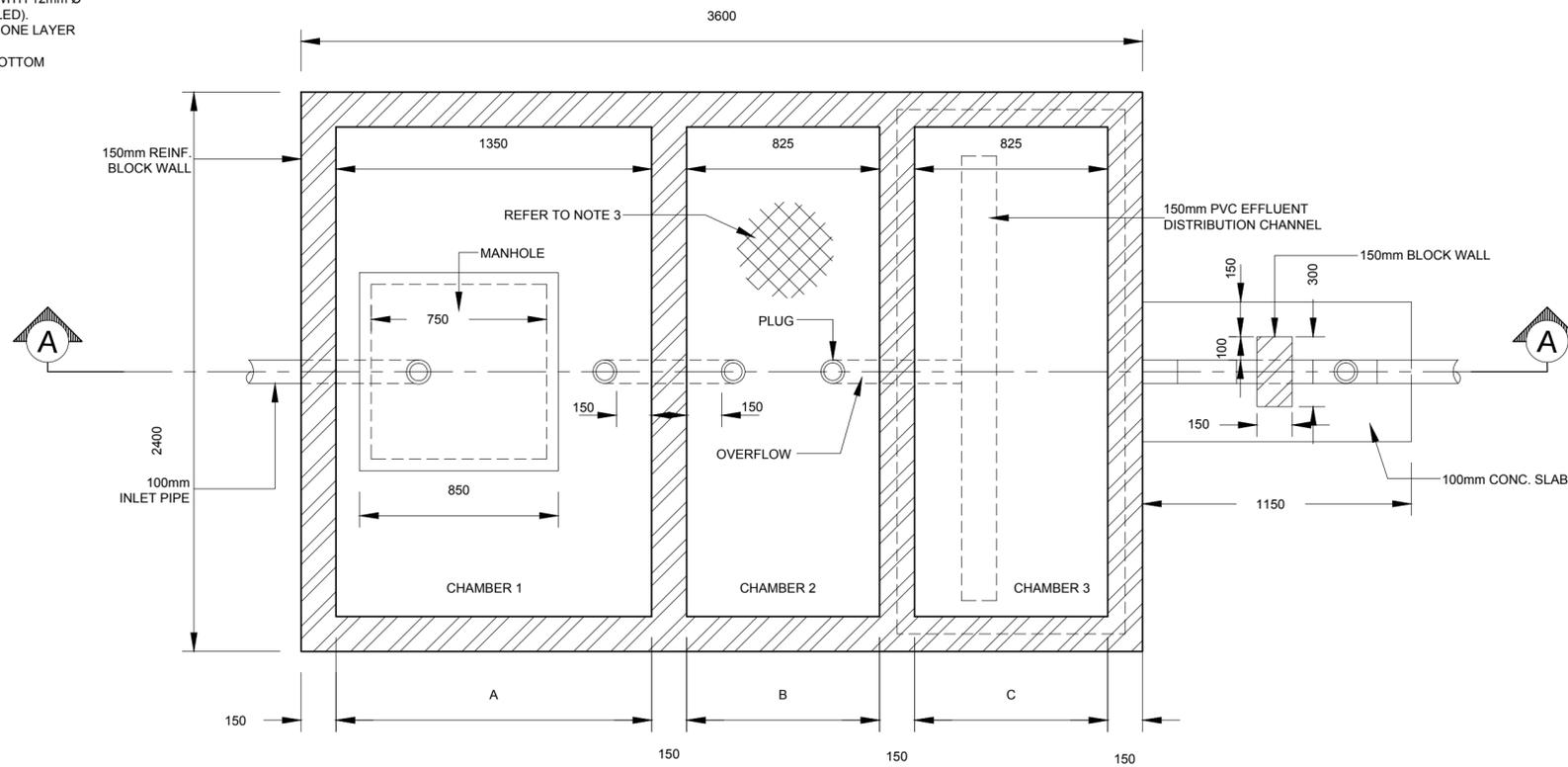
04 COLD WATER DISTRIBUTION ISO.  
P-01 SCALE 1:100



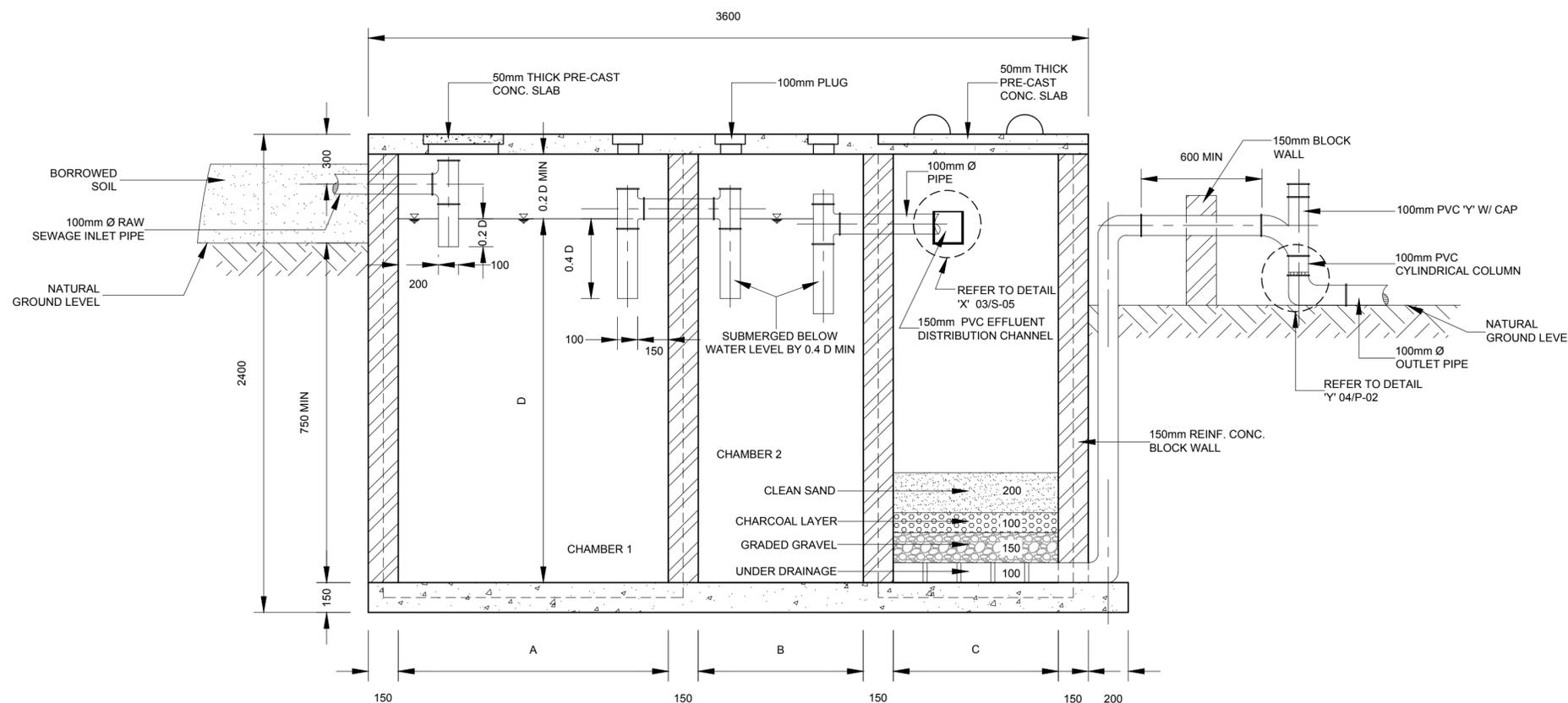
05 HOT WATER DISTRIBUTION ISO.  
P-01 SCALE 1:100

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ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED		This drawing is copyright and should not be reproduced without prior permission.								DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES	DRAWING TITLE	SCALE	SIZE
						It is to be read in conjunction with all relevant design drawings and specification.  Scaled dimensions should not be taken from this drawing. All dimensions must be checked on site prior to manufacture and commencement of works. Notify FDL CONSULT of any discrepancies or omissions observed without delay	DESIGNED BY: FDL CONSULT INC. FDL DRAWN BY: DANIEL JACKSON DJ CHECKED: GILBERT FONTENARD GF APPROVED: GILBERT FONTENARD GF			GOVERNMENT OF ST. VINCENT AND THE GRENADINES MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION		DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES		PLUMBING LAYOUT AND ISOMETRIC	AS SHOWN	A2	SLU-1510-S-027-GPF	P-01
							ISSUED DATE: OCTOBER 2015 PROPERTY OF: FDL CONSULT INC.			JOB TITLE: DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES TYPE OF DRAWING: DESIGN DRAWINGS		SCALE: AS SHOWN	SIZE: A2	DRAWING NO: SLU-1510-S-027-GPF	SHEET: P-01			

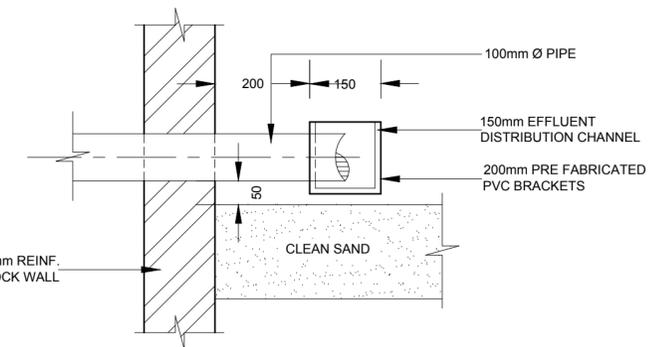
- NOTES:
1. ALL VERTICAL WALLS TO BE REINFORCED WITH 12mm Ø STEEL RODS @ 200mm C/C (ALL CORES FILLED).
  2. BOTTOM SLAB IS TO BE REINFORCED WITH ONE LAYER OF 12mm Ø BARS @ 200mm BOTHWAYS
  3. 12mm Ø STEEL BARS @ 200mm C/C TOP & BOTTOM (BOTHWAYS)



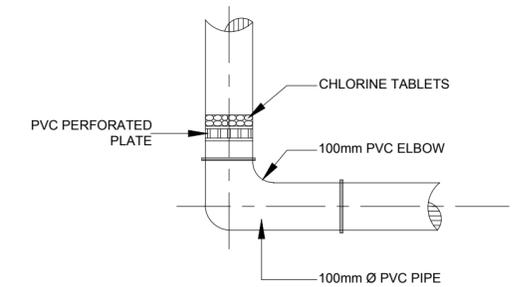
01 PLAN LAYOUT  
P-02 SCALE 1:20



02 SECTION A - A  
P-02 SCALE 1:100



03 DETAIL 'X'  
P-02 SCALE 1:100



04 DETAIL 'Y'  
P-02 SCALE 1:100

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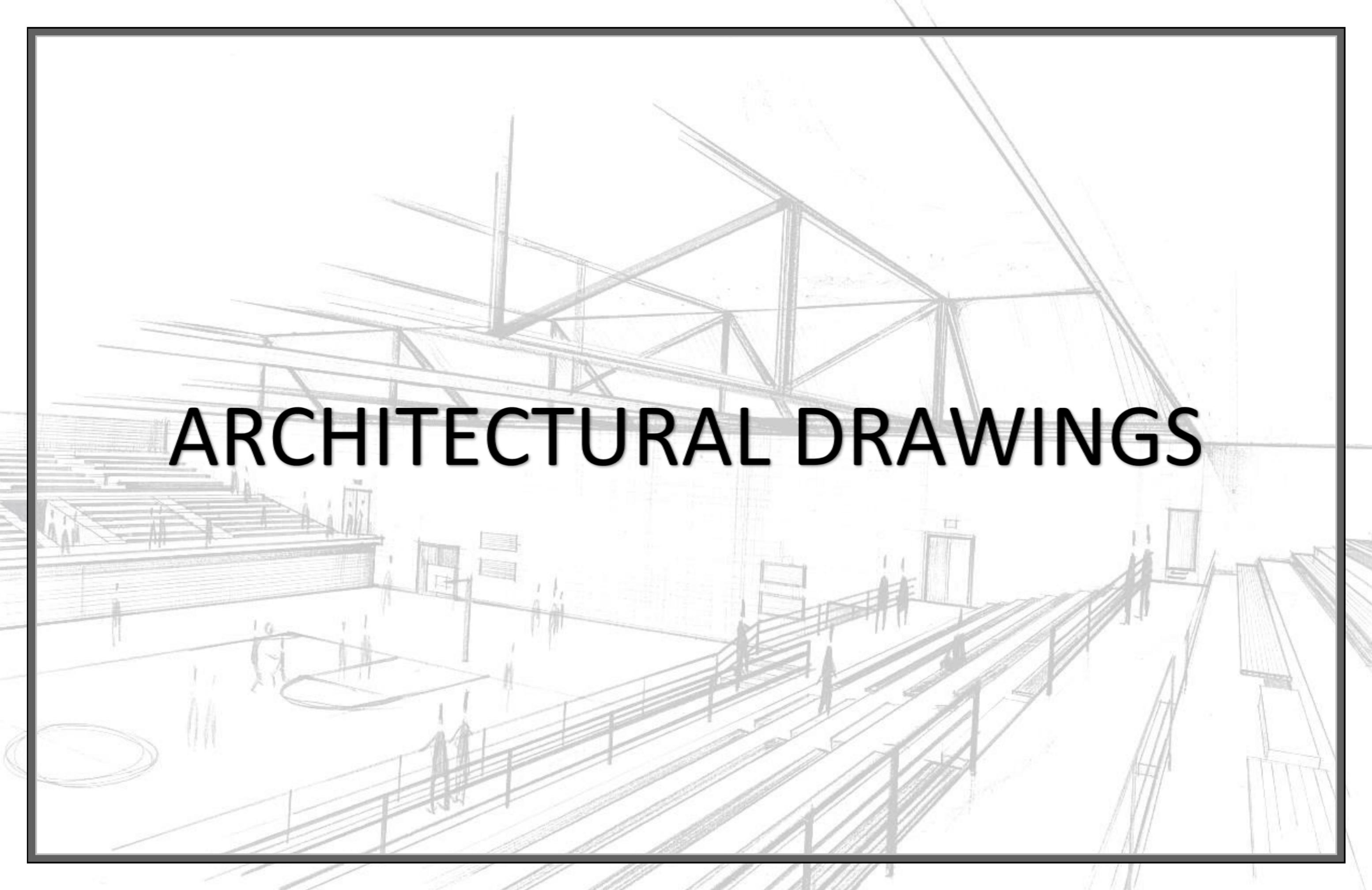
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DRAWN BY:	DANIEL JACKSON	DJ
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF
ISSUED DATE:	OCTOBER 2015	
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CLIENT TITLE	GOVERNMENT OF ST. VINCENT AND THE GRENADINES
	MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION
JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES
TYPE OF DRAWING	DESIGN DRAWINGS

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DRAWING TITLE	SEPTIC TANK DETAILS		
SCALE	SIZE	DRAWING NO	SHEET
AS SHOWN	A2	SLU-1510-S-027-GPF	P-02

A detailed architectural sketch of a gymnasium interior. The drawing shows a basketball court with a hoop and backboard on the left. Rows of bleachers with railings are on the right. The ceiling features a complex truss system with various beams and supports. Several people are sketched throughout the space to provide scale. The overall style is a fine-line architectural rendering.

# ARCHITECTURAL DRAWINGS



MAP OF ST. VINCENT



ORANGE HILL SITE LOCATION



01 ORANGE HILL SITE LOCATION  
SCALE: N.T.S

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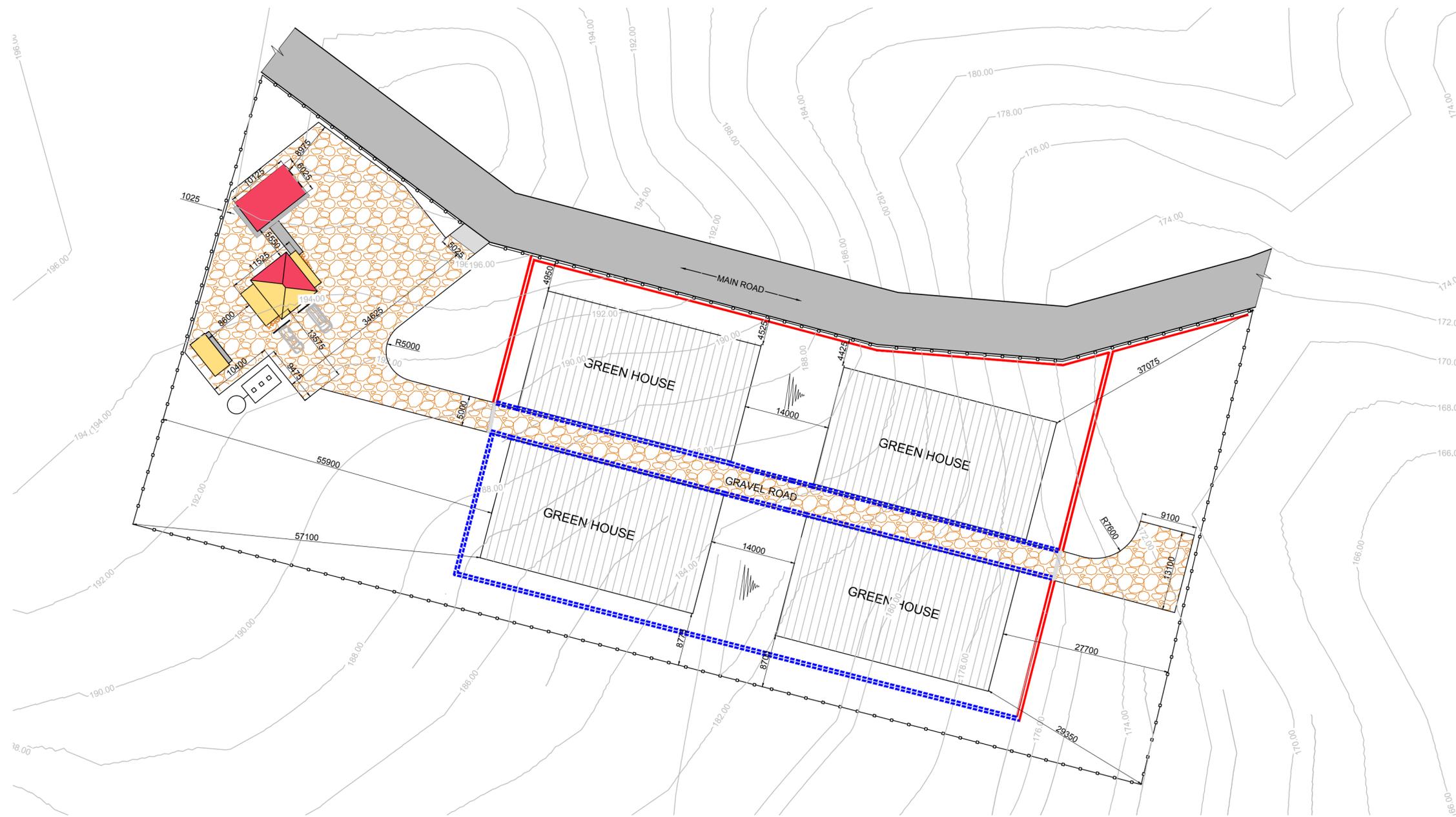
DESIGNER:	FDL CONSULT INC.	FDL
DRAWN BY:	DANIEL JACKSON	DJ
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF
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JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES
TYPE OF DRAWING	DESIGN DRAWINGS

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DRAWING TITLE		ORANGE HILL SITE LOCATION	
SCALE	SIZE	DRAWING NO	SHEET
AS SHOWN	A2	SLU -1510-S-027-GPF	i

**LEGEND**

- 0.6m PROPOSED EARTHEN DRAIN
- - - 0.5m PROPOSED EARTHEN DRAIN
- PROPOSED STRUCTURES
- LOCATION OF PHOTO-VOLTAIC CELLS
- PROPOSED GRAVEL ROAD



01 ORANGE HILL - ARCHITECTURAL SITE PLAN  
A-01 SCALE 1:500

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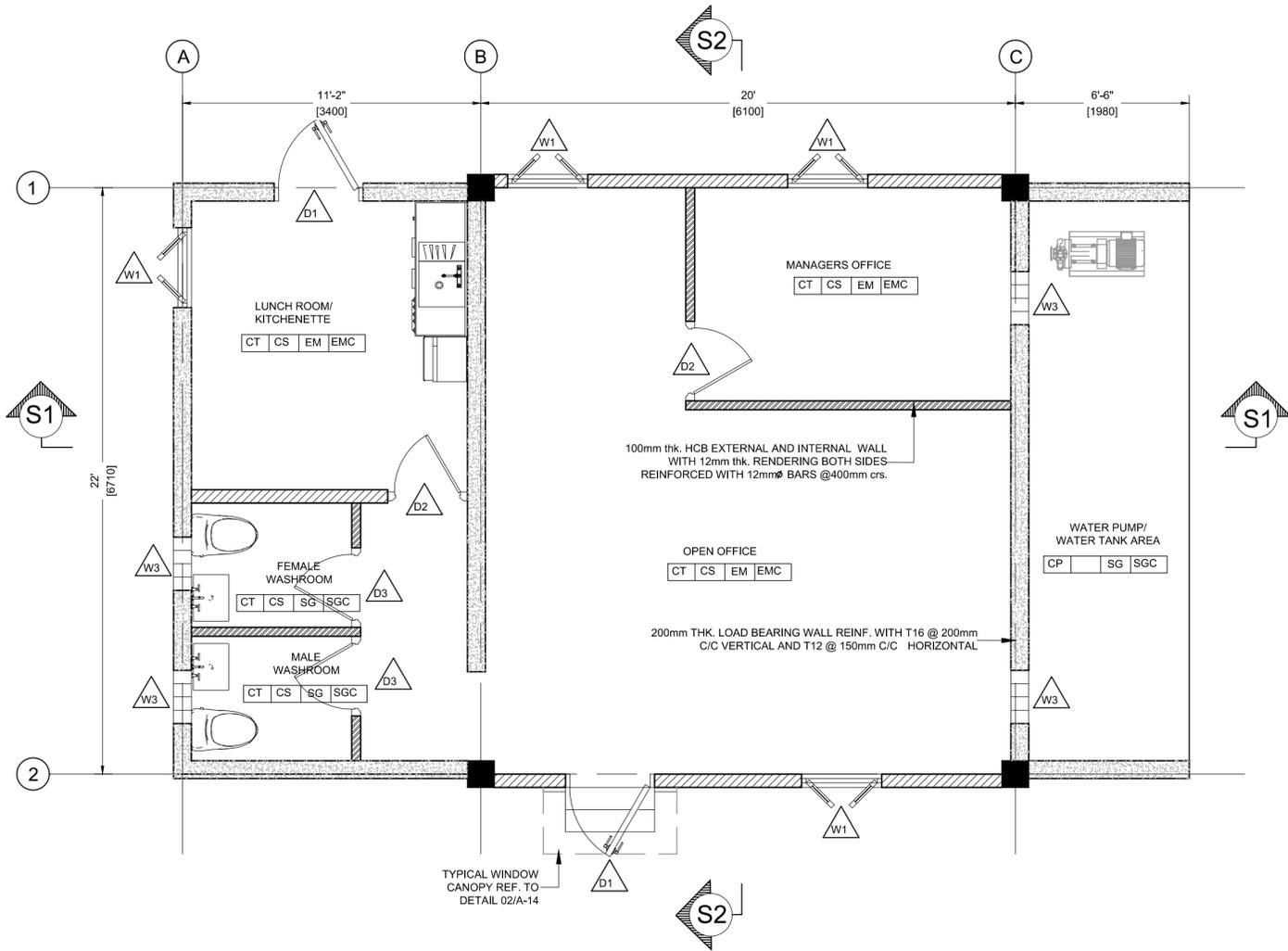
DESIGNER:	FDL CONSULT INC.	FDL
DRAWN BY:	LYNDELL ST JUSTE	LS
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF
ISSUED DATE:	OCTOBER 2015	
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	SCALE	SIZE	DRAWING NO	SHEET
AS SHOWN	A2	SLU -1510-S-027-GPF	A-01	

**SYMBOL KEY**

	100mm THK. HCB EXTERNAL AND INTERNAL WALL WITH 12mm THK. RENDERING BOTH SIDES REINFORCED WITH 12mmØ BARS @400mm crs.
	150mm THK. HCB EXTERNAL AND INTERNAL WALL WITH 12mm THK. RENDERING BOTH SIDES REINFORCED WITH 12mmØ BARS @400mm crs.
	200mm THK. LOAD BEARING WALL REINF. WITH T16 @ 200mm C/C VERTICAL AND T12 @ 150mm C/C HORIZONTAL



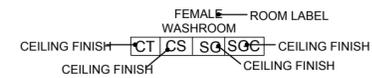
01 FURNITURE LAYOUT  
A-02 SCALE 1:50

**NOTES:**

- ALL LEVELS ARE IN METERS.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH OTHER TRADES
- UNLESS OTHERWISE INDICATED ALL EXTERNAL MASONRY UNITS SHALL REACH STRUCTURAL CEILING AND ALL CMU SHALL BE FILLED WITH CONCRETE AS SPECIFIED.
- EXTERNAL AND INTERNAL FINISHES EXTERNAL WALLS SHALL BE RENDERED AS FOLLOWS:
  - a- 2 COATS OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 20mm. ON EXTERNAL FACE.
  - b- 1 COAT OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 12mm. ON INTERNAL FACE.
  - c- PAINT COLOUR SHALL BE AS INDICATED
- UNLESS OTHERWISE INDICATED ALL FAIRFACED CONCRETE SHALL BE CHAMFERED 20x20mm.
- UNLESS OTHERWISE INDICATED ALL LINTELS OVER DOORS AND WINDOWS SHALL EXTEND 200mm FROM EACH SIDE OF OPENINGS.
- PROVIDE OPENINGS IN PARTITION WALLS ABOVE SUSPENDED CEILING AS REQUIRED AND SHOWN ON MECHANICAL DRAWINGS.
- HARDWARE SET OF EACH DOOR IS INDICATED ON DRAWING BELOW THE DOOR TYPE. OTHERWISE HARDWARE SET SHOULD BE PROVIDED BY DOOR MANUFACTURER.



9. ROOM FINISHES ARE RECORDED AS INDICATED BELOW:



- ALL PLASTER MUST REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
- ALL CERAMIC WALL TILES SHALL REACH 2200mm. FROM FFL AND THE REST PART SHALL BE POINTED WITH WATER RESISTANT PAINT.
- ALL WALL PAINT SHALL REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
- EXTERNAL GLASS TYPE SHALL BE OF HIGH PERFORMANCE DOUBLE GLAZING HAVING THE FOLLOWING CHARACTERISTICS: MAXIMUM U VALUE : Uv 3.30/M2-C  
MAXIMUM SHADING COEFFICIENT : SC=0.46

FLOOR MATERIAL FINISH	
CT	600x600x8mm. THICK NON SLIP CERAMIC TILES.
CT3	150x150x6mm. THICK NON SLIP CERAMIC TILES.
CP	CAST IN PLACE CONCRETE WITH STAMPED SURFACE - SORRENTO
EP	EPOXY FINISH OR SIMILAR FLOOR FINISH
BASE MATERIAL FINISH	
CS	100mm HIGH CERAMIC SKIRTING MATCHING WITH FLOORING TILES.
WALL MATERIAL FINISH	
SG	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - EGG SHELL FINISH (RGB 240,234,214)
SGD	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - FIRE BRICK (RGB 145,34,34)
EM	EMULSION PAINT ON SAND CEMENT PLASTER EGG SHELL FINISH - EGG SHELL FINISH
CT3	150x150x6mm THICK GLAZED CERAMIC TILES
SG	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGG SHELL
SP	STUCCO OVER SAND CEMENT PLASTER - FIRE BRICK (RGB 240,234,214)
CEILING MATERIAL FINISH	
SGC	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGG SHELL
EB	EMULSION PAINT OVER 12 mm. THICK PLASTER BOARD JOINTLESS SUSPENDED CEILING - EGG SHELL
MR	0.7mm. STANDING SEAM METAL SHEETING ROOF COVERING.
SP	STUCCO OVER SAND CEMENT PLASTER - BAMBOO
EMC	EMULSION PAINT OVER SAND CEMENT PLASTER - EGG SHELL

REVISIONS					
ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED

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DRAWN BY:	J. FRANCIS, D. JACKSON	JF, DJ
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF
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**JOB TITLE**  
 DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES

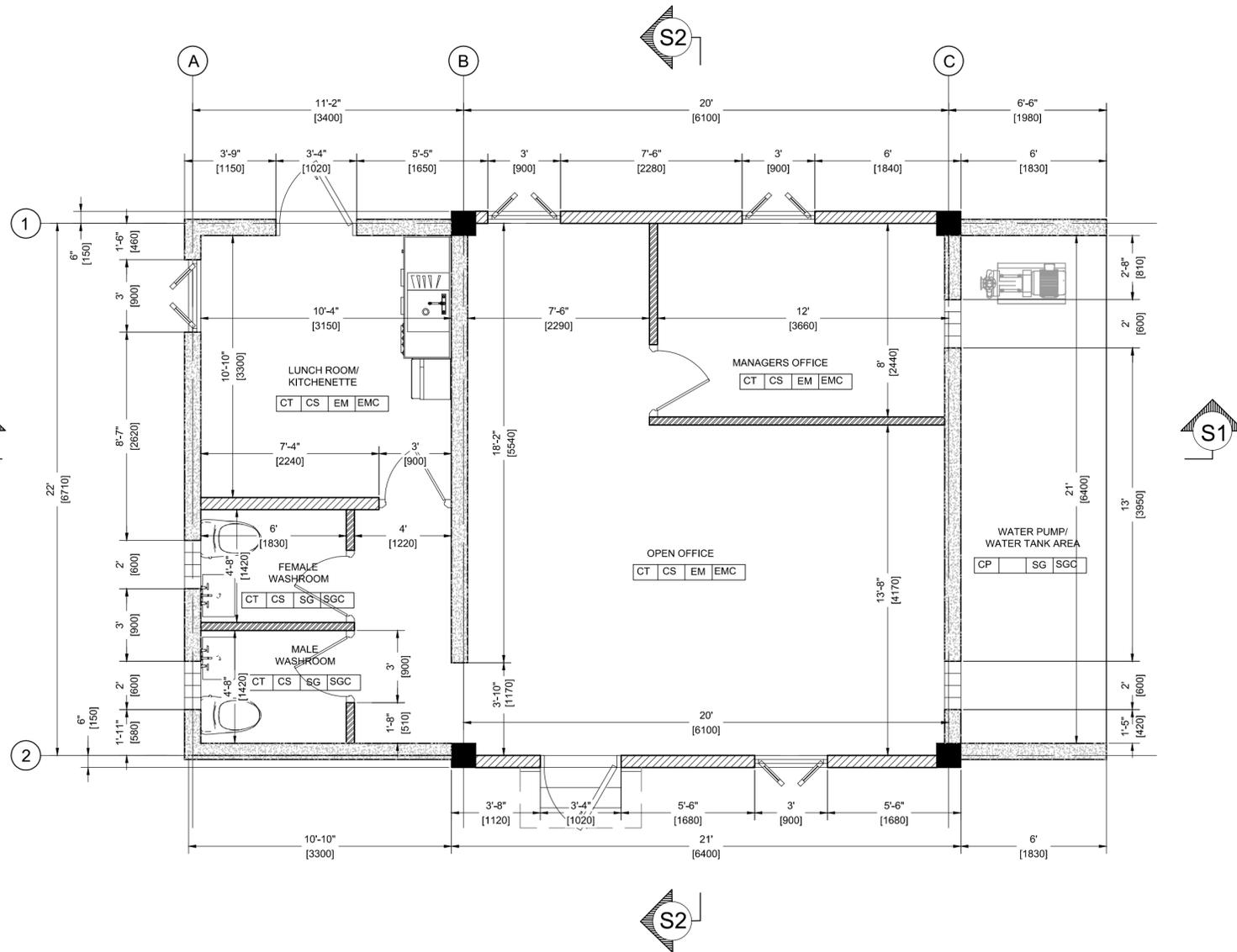
**TYPE OF DRAWING**  
 DESIGN DRAWINGS

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<b>DRAWING TITLE</b>	FURNITURE LAYOUT		
<b>SCALE</b>	1:50	<b>SIZE</b>	A2
<b>DRAWING NO</b>	SLU-1510-S-027-GPF	<b>SHEET</b>	A-02

**SYMBOL KEY**

	100mm THK. HCB EXTERNAL AND INTERNAL WALL WITH 12mm THK. RENDERING BOTH SIDES REINFORCED WITH 12mmØ BARS @400mm crs.
	150mm THK. HCB EXTERNAL AND INTERNAL WALL WITH 12mm THK. RENDERING BOTH SIDES REINFORCED WITH 12mmØ BARS @400mm crs.
	200mm THK. LOAD BEARING WALL REINF. WITH T16 @ 200mm C/C VERTICAL AND T12 @ 150mm C/C HORIZONTAL.



01 DIMENSIONED LAYOUT  
A-03 SCALE 1:50

**NOTES:**

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  - 1 COAT OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 12mm. ON INTERNAL FACE.
  - PAINT COLOUR SHALL BE AS INDICATED
- UNLESS OTHERWISE INDICATED ALL FAIRFACED CONCRETE SHALL BE CHAMFERED 20x20mm.
- UNLESS OTHERWISE INDICATED ALL LINTELS OVER DOORS AND WINDOWS SHALL EXTEND 200mm FROM EACH SIDE OF OPENINGS.
- PROVIDE OPENINGS IN PARTITION WALLS ABOVE SUSPENDED CEILING AS REQUIRED AND SHOWN ON MECHANICAL DRAWINGS.
- HARDWARE SET OF EACH DOOR IS INDICATED ON DRAWING BELOW THE DOOR TYPE. OTHERWISE HARDWARE SET SHOULD BE PROVIDED BY DOOR MANUFACTURER.
 

DOOR TYPE  
 HARDWARE SET TYPE
- ROOM FINISHES ARE RECORDED AS INDICATED BELOW:
 

FEMALE WASHROOM ROOM LABEL  
 CEILING FINISH CT CS SG SGC CEILING FINISH  
 CEILING FINISH
- ALL PLASTER MUST REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
- ALL CERAMIC WALL TILES SHALL REACH 2200mm. FROM FFL AND THE REST PART SHALL BE POINTED WITH WATER RESISTANT PAINT.
- ALL WALL PAINT SHALL REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
- EXTERNAL GLASS TYPE SHALL BE OF HIGH PERFORMANCE DOUBLE GLAZING HAVING THE FOLLOWING CHARACTERISTICS: MAXIMUM U VALUE : UV 3.30/M2-C  
MAXIMUM SHADING COEFFICIENT : SC=0.46

FLOOR MATERIAL FINISH	
CT	600x600x8mm. THICK NON SLIP CERAMIC TILES.
CT3	150x150x6mm. THICK NON SLIP CERAMIC TILES.
CP	CAST IN PLACE CONCRETE WITH STAMPED SURFACE - SORRENTO
EP	EPOXY FINISH OR SIMILAR FLOOR FINISH
BASE MATERIAL FINISH	
CS	100mm HIGH CERAMIC SKIRTING MATCHING WITH FLOORING TILES.
WALL MATERIAL FINISH	
SG	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - EGG SHELL FINISH (RGB 240,234,214)
SGD	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - FIRE BRICK (RGB 145,34,34)
EM	EMULSION PAINT ON SAND CEMENT PLASTER EGG SHELL FINISH - EGG SHELL FINISH
CT3	150x150x6mm THICK GLAZED CERAMIC TILES
SG	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGG SHELL
SP	STUCCO OVER SAND CEMENT PLASTER - FIRE BRICK (RGB 240,234,214)
CEILING MATERIAL FINISH	
SGC	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGG SHELL
EB	EMULSION PAINT OVER 12 mm. THICK PLASTER BOARD JOINTLESS SUSPENDED CEILING - EGG SHELL
MR	0.7mm. STANDING SEAM METAL SHEETING ROOF COVERING.
SP	STUCCO OVER SAND CEMENT PLASTER - BAMBOO
EMC	EMULSION PAINT OVER SAND CEMENT PLASTER - EGG SHELL

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CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF
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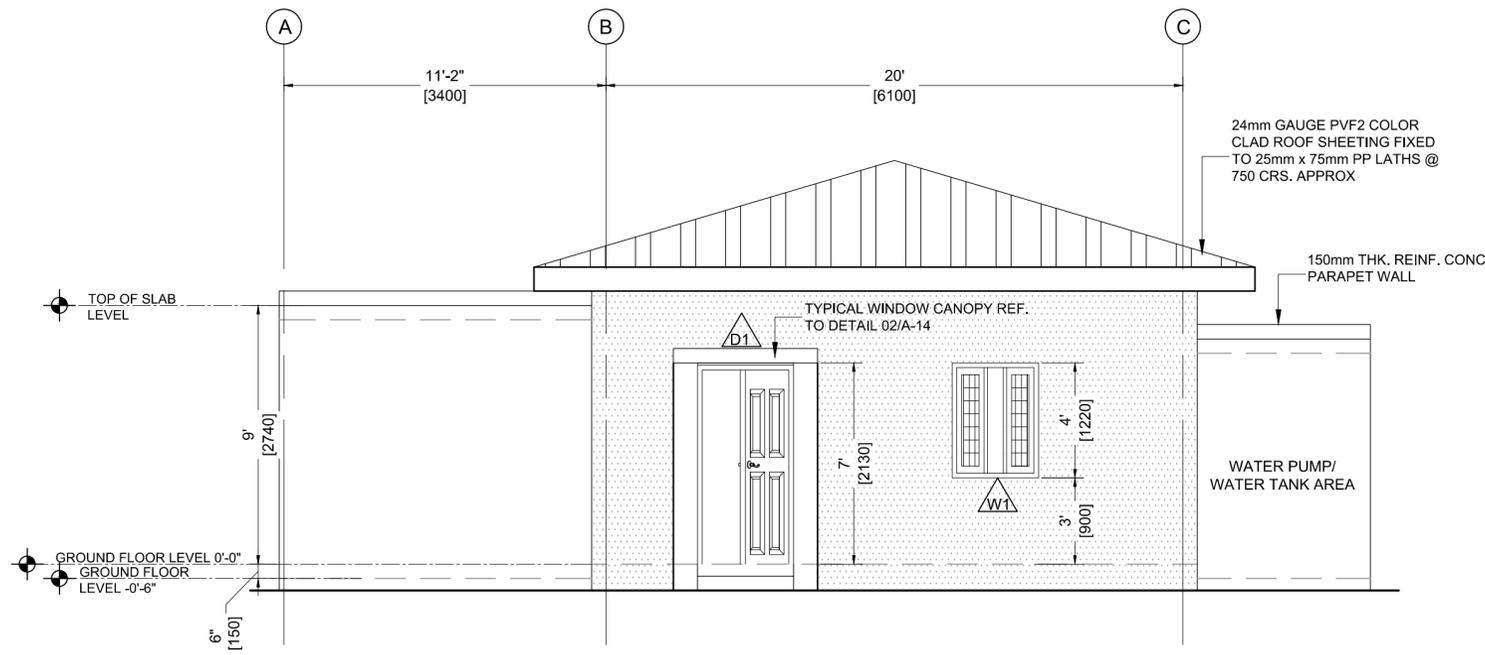
**JOB TITLE**  
 DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES

**TYPE OF DRAWING**  
 DESIGN DRAWINGS

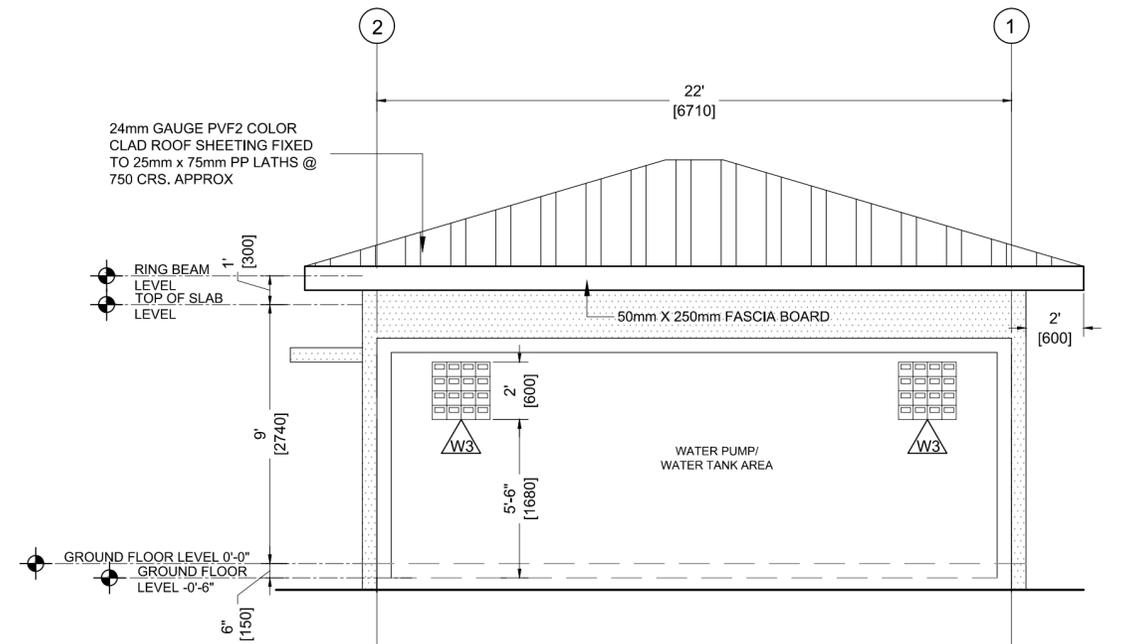
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 email: fdl@fdiconsultinc.com  
 website: www.fdlconsultinc.com

**DRAWING TITLE**  
 DIMENSIONED LAYOUT

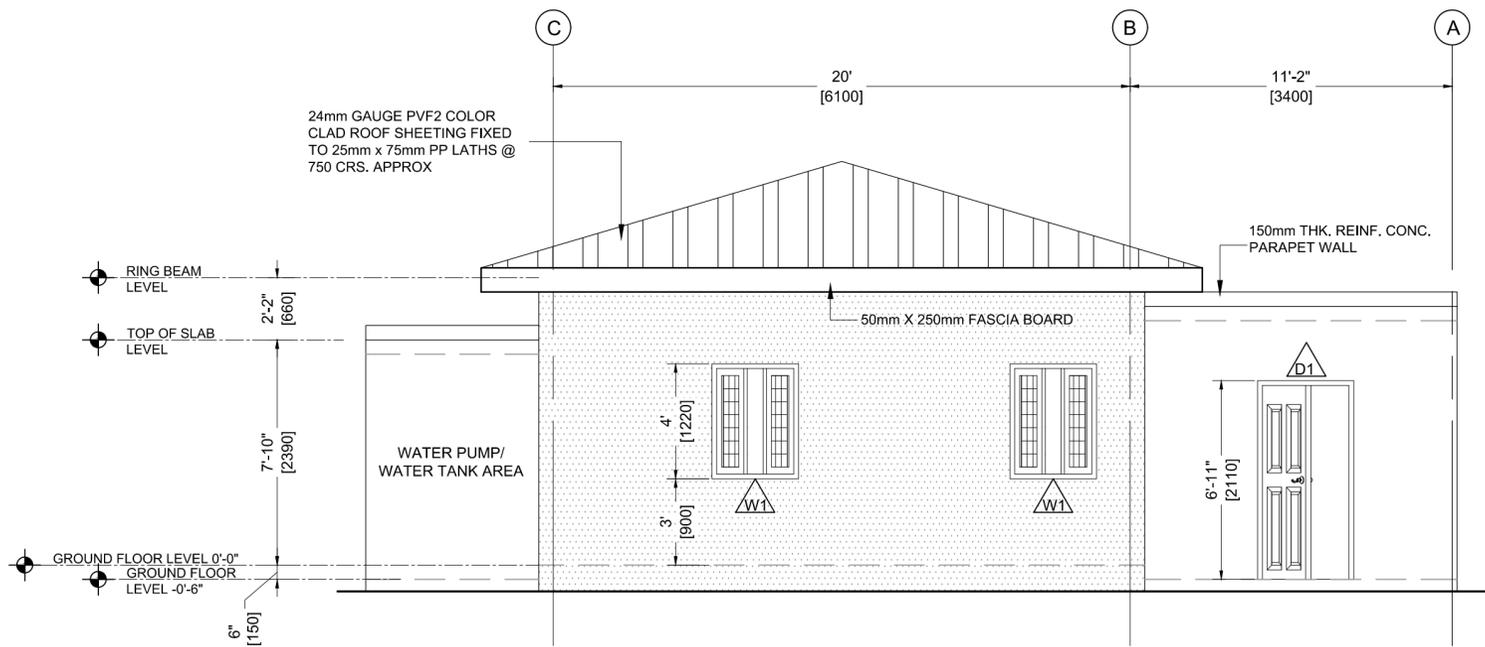
<b>SCALE</b> 1:50	<b>SIZE</b> A2	<b>DRAWING NO</b> SLU-1510-S-027-GPF	<b>SHEET</b> A-03
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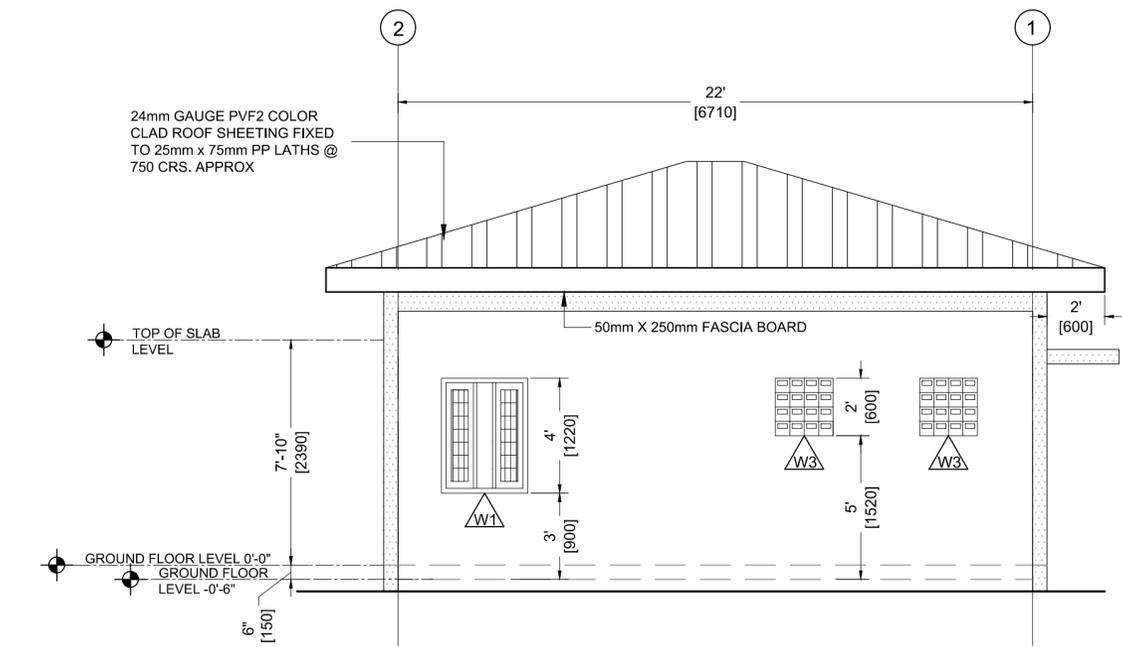
01 FRONT ELEVATION  
A-04 SCALE 1:50



01 SIDE ELEVATION  
A-04 SCALE 1:50



01 BACK ELEVATION  
A-04 SCALE 1:50



01 SIDE ELEVATION  
A-04 SCALE 1:50

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DESIGNED BY:	JAMAL FRANCIS	JF
DRAWN BY:	J. FRANCIS, D. JACKSON	JF, DJ
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF
ISSUED DATE:	OCTOBER 2015	
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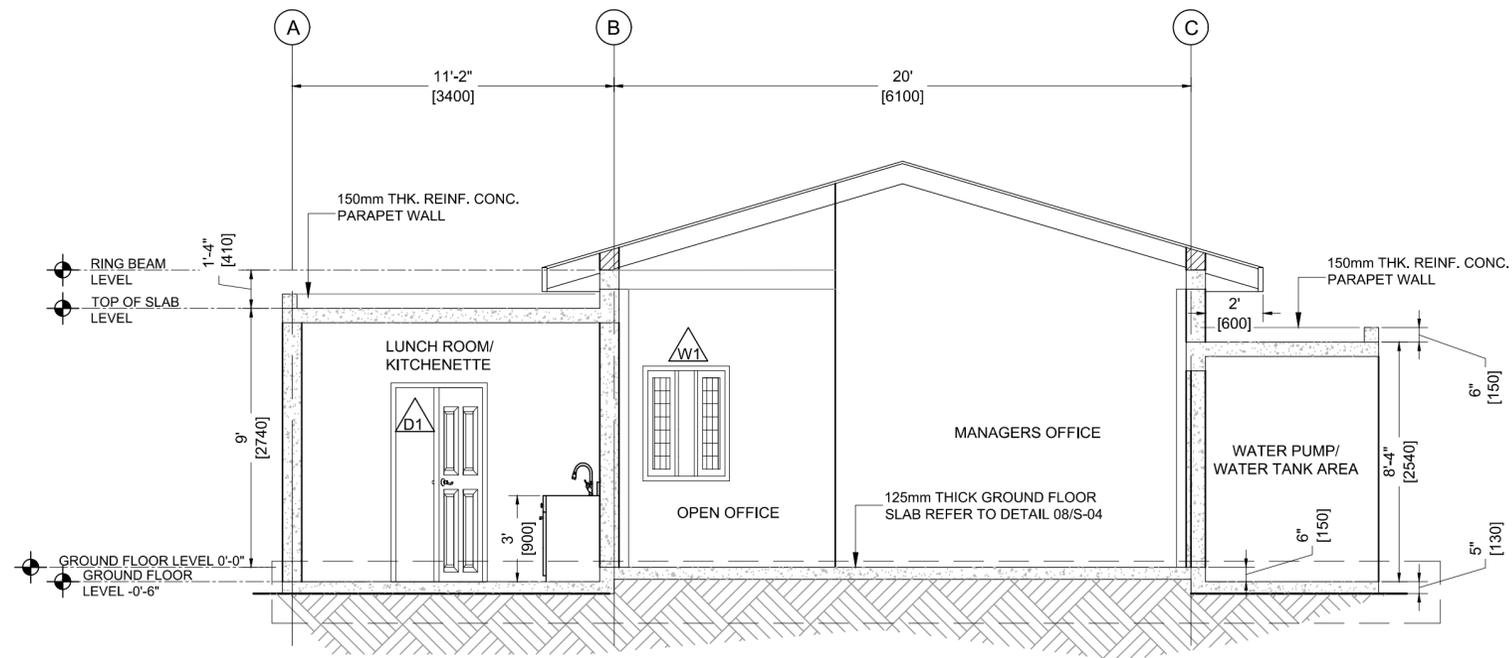
**CLIENT TITLE**  
**GOVERNMENT OF ST. VINCENT AND THE GRENADINES**  
 MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION

**JOB TITLE**  
 DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES

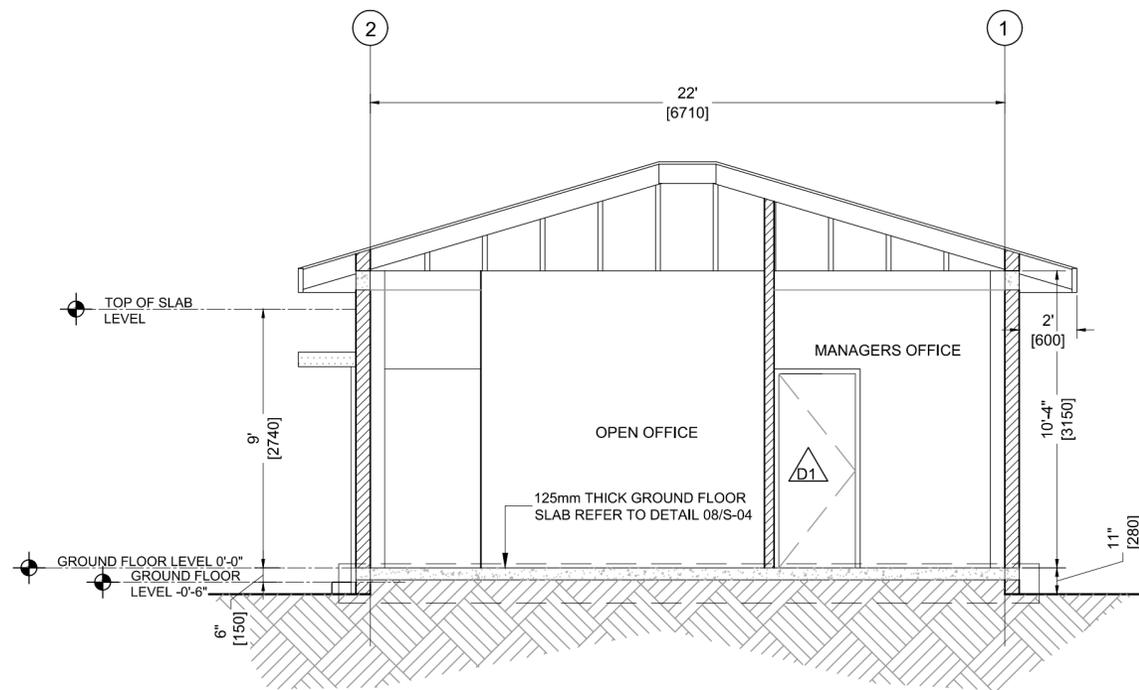
**TYPE OF DRAWING**  
 DESIGN DRAWINGS

**FDL Consult Inc.**  
 P.O. Box 1803 GOODLANDS  
 CASTRIES ST. LUCIA  
 Tel. (758) 457 6400  
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 website: www.fdlconsultinc.com

<b>DRAWING TITLE</b>	ELEVATIONS		
<b>SCALE</b>	<b>SIZE</b>	<b>DRAWING NO</b>	<b>SHEET</b>
1:50	A2	SLU-1510-S-027-GPF	A-04



01 SECTION S1  
A-05 SCALE 1:50



02 SECTION S2  
A-05 SCALE 1:50

REVISIONS					
ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED

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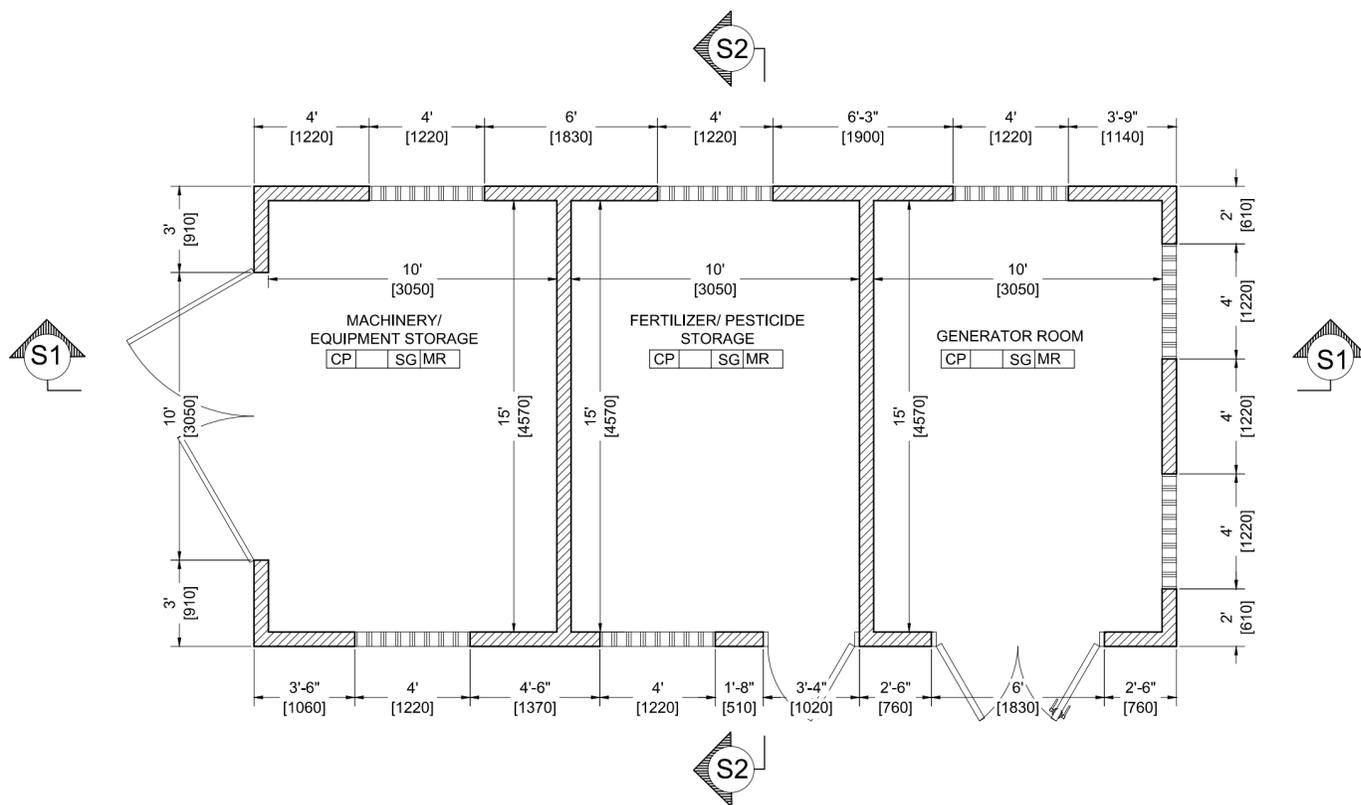
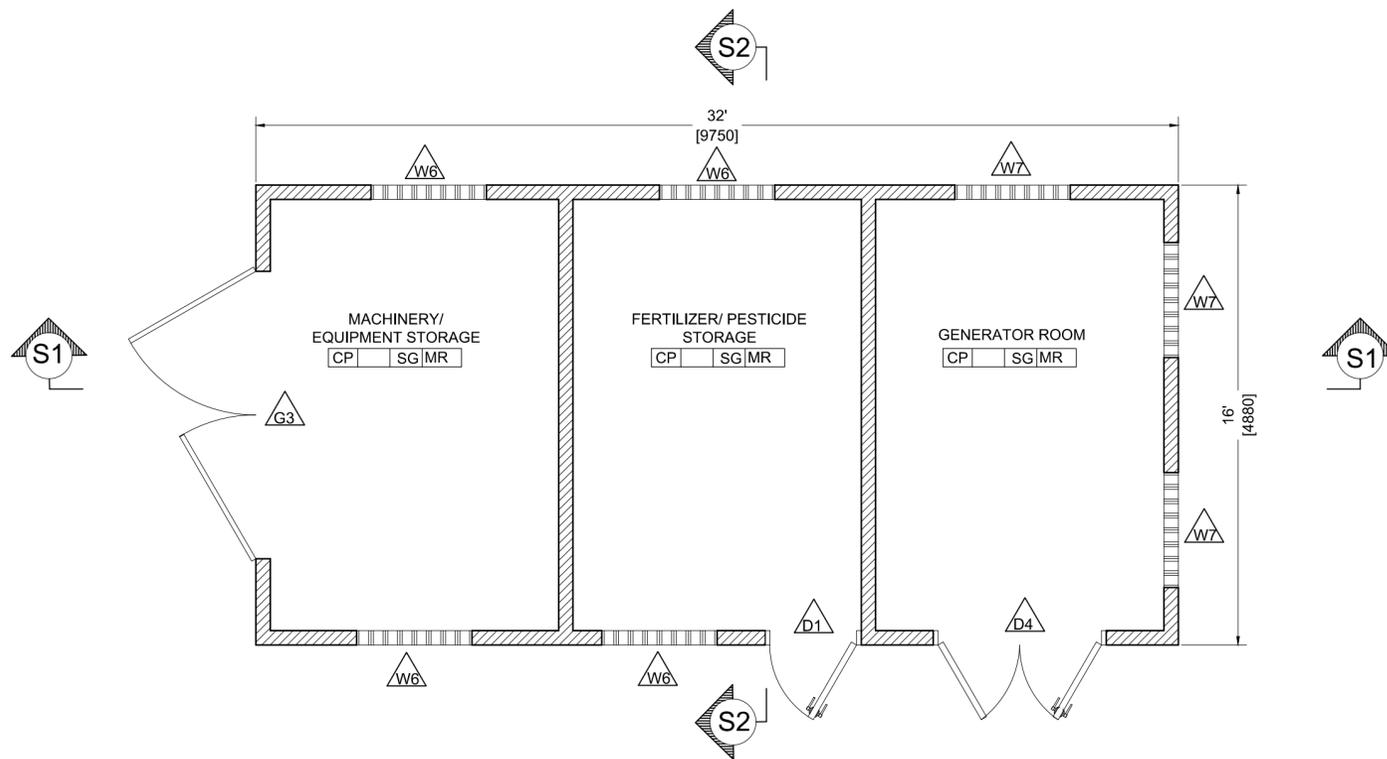
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JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES
TYPE OF DRAWING	DESIGN DRAWINGS

		<b>FDL Consult Inc.</b> P.O. Box 1803 GOODLANDS CASTRIES ST. LUCIA Tel. (758) 457 6400 Fax. (758) 453 7048 email: fdl@fdlconsultinc.com website: www.fdlconsultinc.com	
DRAWING TITLE		SECTIONS S1 AND S2	
SCALE	SIZE	DRAWING NO	SHEET
1:50	A2	SLU-1510-S-027-GPF	A-05

**SYMBOL KEY**

150mm THK. HCB EXTERNAL AND INTERNAL WALL WITH 12mm THK. RENDERING BOTH SIDES REINFORCED WITH 12mmØ BARS @400mm crs.



**NOTES:**

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- EXTERNAL AND INTERNAL FINISHES EXTERNAL WALLS SHALL BE RENDERED AS FOLLOWS:
  - a- 2 COATS OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 20mm. ON EXTERNAL FACE.
  - b- 1 COAT OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 12mm. ON INTERNAL FACE.
  - c- PAINT COLOUR SHALL BE AS INDICATED
- UNLESS OTHERWISE INDICATED ALL FAIRFACED CONCRETE SHALL BE CHAMFERED 20x20mm.
- UNLESS OTHERWISE INDICATED ALL LINTELS OVER DOORS AND WINDOWS SHALL EXTEND 200mm FROM EACH SIDE OF OPENINGS.
- PROVIDE OPENINGS IN PARTITION WALLS ABOVE SUSPENDED CEILING AS REQUIRED AND SHOWN ON MECHANICAL DRAWINGS.
- HARDWARE SET OF EACH DOOR IS INDICATED ON DRAWING BELOW THE DOOR TYPE, OTHERWISE HARDWARE SET SHOULD BE PROVIDED BY DOOR MANUFACTURER.



9. ROOM FINISHES ARE RECORDED AS INDICATED BELOW:



- ALL PLASTER MUST REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
- ALL CERAMIC WALL TILES SHALL REACH 2200mm. FROM FFL AND THE REST PART SHALL BE POINTED WITH WATER RESISTANT PAINT.
- ALL WALL PAINT SHALL REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
- EXTERNAL GLASS TYPE SHALL BE OF HIGH PERFORMANCE DOUBLE GLAZING HAVING THE FOLLOWING CHARACTERISTICS: MAXIMUM U VALUE : UV 3.30/M2-C  
MAXIMUM SHADING COEFFICIENT : SC=0.46

FLOOR MATERIAL FINISH	
CT	600x600x8mm. THICK NON SLIP CERAMIC TILES.
CT3	150x150x6mm. THICK NON SLIP CERAMIC TILES.
CP	CAST IN PLACE CONCRETE WITH STAMPED SURFACE - SORRENTO
EP	EPOXY FINISH OR SIMILAR FLOOR FINISH
BASE MATERIAL FINISH	
CS	100mm HIGH CERAMIC SKIRTING MATCHING WITH FLOORING TILES.
WALL MATERIAL FINISH	
SG	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - EGGSHELL FINISH (RGB 240,234,214)
SGD	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - FIRE BRICK (RGB 145,34,34)
EM	EMULSION PAINT ON SAND CEMENT PLASTER EGGSHELL FINISH - EGGSHELL FINISH
CT3	150x150x6mm THICK GLAZED CERAMIC TILES
SG	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGGSHELL
SP	STUCCO OVER SAND CEMENT PLASTER - FIRE BRICK (RGB 240,234,214)
CEILING MATERIAL FINISH	
SGC	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGGSHELL
EB	EMULSION PAINT OVER 12 mm. THICK PLASTER BOARD JOINTLESS SUSPENDED CEILING - EGGSHELL
MR	0.7mm. STANDING SEAM METAL SHEETING ROOF COVERING.
SP	STUCCO OVER SAND CEMENT PLASTER - BAMBOO
EMC	EMULSION PAINT OVER SAND CEMENT PLASTER - EGGSHELL

REVISIONS					
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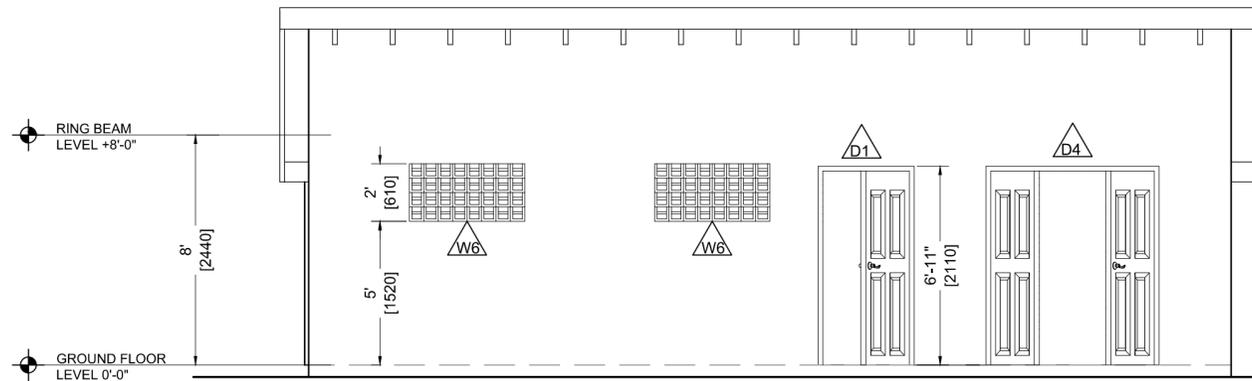
**JOB TITLE**  
DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES

**TYPE OF DRAWING**  
DESIGN DRAWINGS

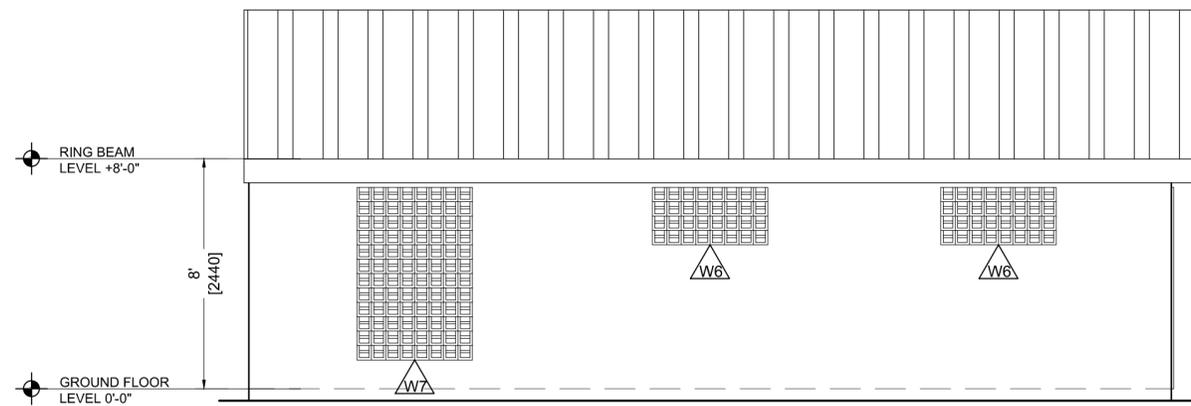
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**DRAWING TITLE**  
UTILITY BUILDING DESCRIPTION AND DIMENSIONED LAYOUT

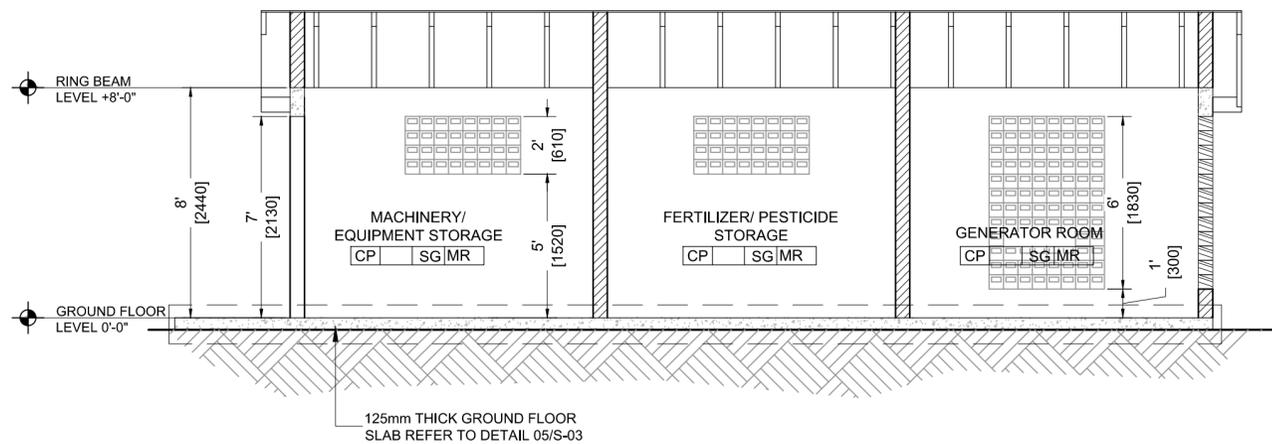
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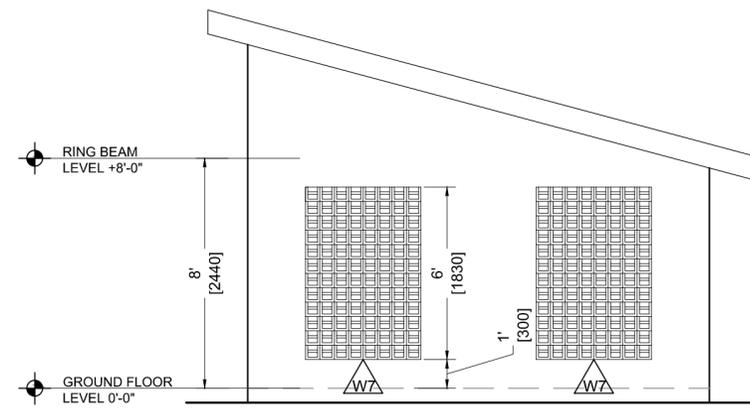
01 UTILITY BUILDING FRONT ELEVATION  
A-07 SCALE 1:50



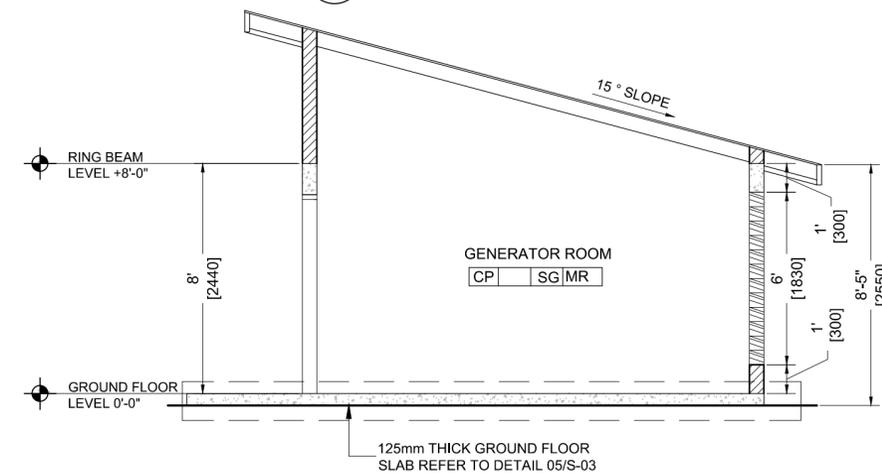
02 UTILITY BUILDING BACK ELEVATION  
A-07 SCALE 1:50



03 UTILITY BUILDING SECTION S1  
A-07 SCALE 1:50



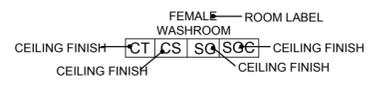
04 UTILITY BUILDING SIDE ELEVATION  
A-07 SCALE 1:50



05 UTILITY BUILDING SECTION S2  
A-07 SCALE 1:50

NOTES:

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  - EXTERNAL AND INTERNAL FINISHES EXTERNAL WALLS SHALL BE RENDERED AS FOLLOWS:
    - 2 COATS OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 20mm. ON EXTERNAL FACE.
    - 1 COAT OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 12mm. ON INTERNAL FACE.
    - PAINT COLOUR SHALL BE AS INDICATED
  - UNLESS OTHERWISE INDICATED ALL FAIRFACED CONCRETE SHALL BE CHAMFERED 20x20mm.
  - UNLESS OTHERWISE INDICATED ALL LINTELS OVER DOORS AND WINDOWS SHALL EXTEND 200mm FROM EACH SIDE OF OPENINGS.
  - PROVIDE OPENINGS IN PARTITION WALLS ABOVE SUSPENDED CEILING AS REQUIRED AND SHOWN ON MECHANICAL DRAWINGS.
  - HARDWARE SET OF EACH DOOR IS INDICATED ON DRAWING BELOW THE DOOR TYPE. OTHERWISE HARDWARE SET SHOULD BE PROVIDED BY DOOR MANUFACTURER.
9. ROOM FINISHES ARE RECORDED AS INDICATED BELOW:



FLOOR MATERIAL FINISH	
CT	600x600x8mm. THICK NON SLIP CERAMIC TILES.
CT3	150x150x6mm. THICK NON SLIP CERAMIC TILES.
CP	CAST IN PLACE CONCRETE WITH STAMPED SURFACE - SORRENTO
EP	EPOXY FINISH OR SIMILAR FLOOR FINISH
BASE MATERIAL FINISH	
CS	100mm HIGH CERAMIC SKIRTING MATCHING WITH FLOORING TILES.
WALL MATERIAL FINISH	
SG	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - EGGSHELL FINISH (RGB 240,234,214)
SGD	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - FIRE BRICK (RGB 145,34,34)
EM	EMULSION PAINT ON SAND CEMENT PLASTER EGGSHELL FINISH - EGGSHELL FINISH
CT3	150x150x6mm THICK GLAZED CERAMIC TILES
SG	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGGSHELL
SP	STUCCO OVER SAND CEMENT PLASTER - FIRE BRICK (RGB 240,234,214)
CEILING MATERIAL FINISH	
SGC	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGGSHELL
EB	EMULSION PAINT OVER 12 mm. THICK PLASTER BOARD JOINTLESS SUSPENDED CEILING - EGGSHELL
MR	0.7mm. STANDING SEAM METAL SHEETING ROOF COVERING.
SP	STUCCO OVER SAND CEMENT PLASTER - BAMBOO
EMC	EMULSION PAINT OVER SAND CEMENT PLASTER - EGGSHELL

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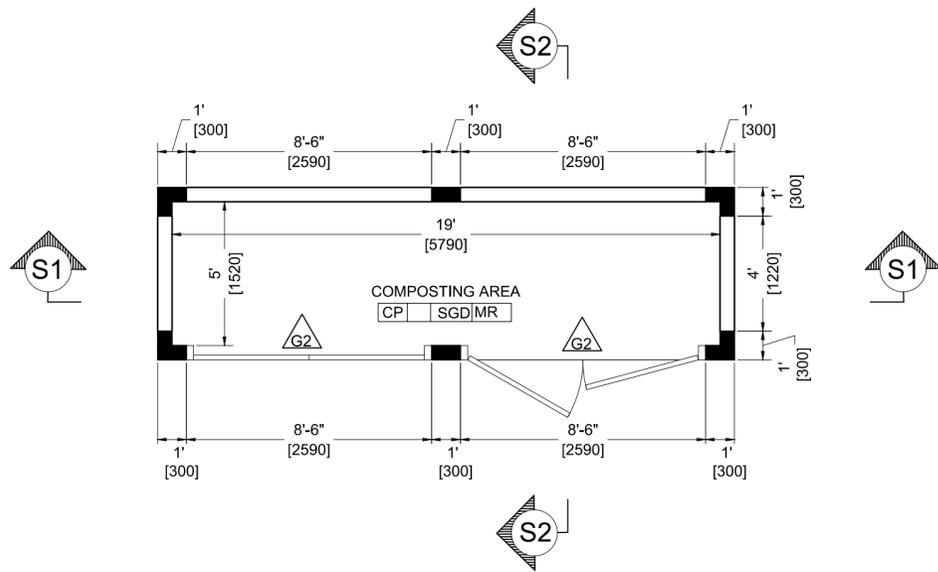
**JOB TITLE**  
 DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES

**TYPE OF DRAWING**  
 DESIGN DRAWINGS

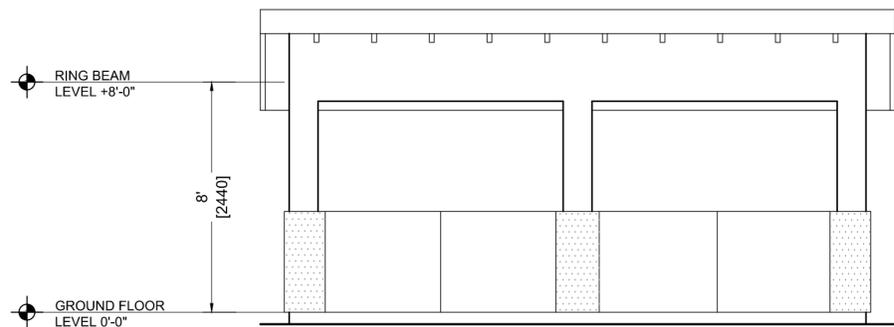
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**DRAWING TITLE**  
 UTILITY BUILDING ELEVATIONS AND SECTIONS

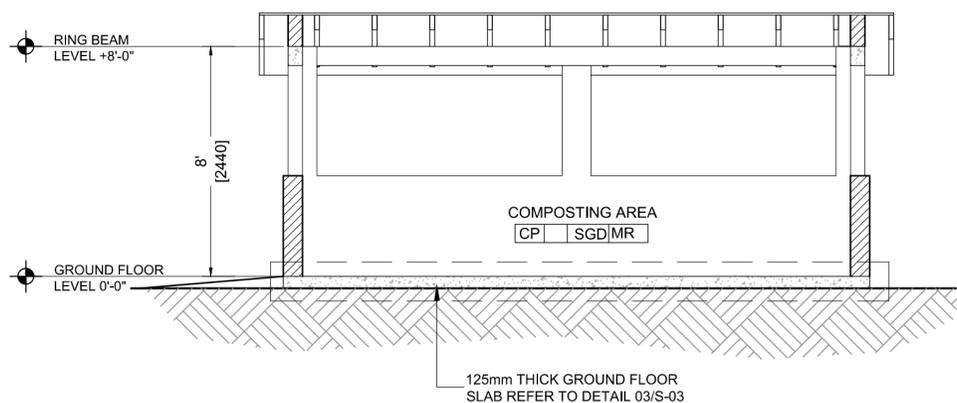
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1:50	A2	SLU-1510-S-027-GPF	A-07



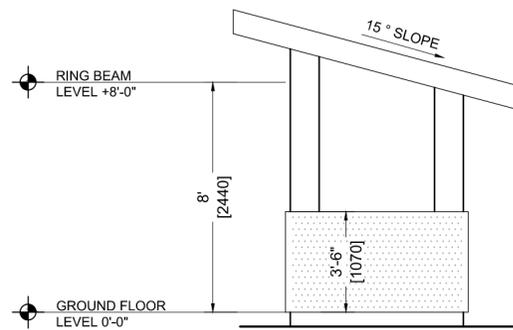
01 COMPOST BUILDING FLOOR LAYOUT  
A-08 SCALE 1:50



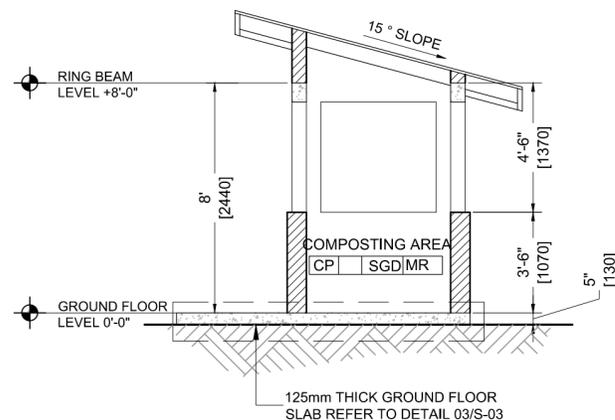
02 COMPOST BUILDING FRONT ELEVATION  
A-08 SCALE 1:50



03 COMPOST BUILDING SECTION S1  
A-08 SCALE 1:50



04 COMPOST BUILDING SIDE ELEVATION  
A-08 SCALE 1:50



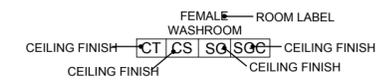
05 COMPOST BUILDING SECTION S2  
A-08 SCALE 1:50

**NOTES:**

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12. ALL WALL PAINT SHALL REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
13. EXTERNAL GLASS TYPE SHALL BE OF HIGH PERFORMANCE DOUBLE GLAZING HAVING THE FOLLOWING CHARACTERISTICS: MAXIMUM U VALUE : UV 3.30/M2-C  
MAXIMUM SHADING COEFFICIENT : SC-0.46

FLOOR MATERIAL FINISH	
CT	600x600x8mm. THICK NON SLIP CERAMIC TILES.
CT3	150x150x6mm. THICK NON SLIP CERAMIC TILES.
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EP	EPOXY FINISH OR SIMILAR FLOOR FINISH
BASE MATERIAL FINISH	
CS	100mm HIGH CERAMIC SKIRTING MATCHING WITH FLOORING TILES.
WALL MATERIAL FINISH	
SG	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - EGGSHELL FINISH (RGB 240,234,214)
SGD	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - FIRE BRICK (RGB 145,34,34)
EM	EMULSION PAINT ON SAND CEMENT PLASTER EGGSHELL FINISH - EGGSHELL FINISH
CT3	150x150x6mm THICK GLAZED CERAMIC TILES
SG	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGGSHELL
SP	STUCCO OVER SAND CEMENT PLASTER - FIRE BRICK (RGB 240,234,214)
CEILING MATERIAL FINISH	
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EB	EMULSION PAINT OVER 12 mm. THICK PLASTER BOARD JOINTLESS SUSPENDED CEILING - EGGSHELL
MR	0.7mm. STANDING SEAM METAL SHEETING ROOF COVERING.
SP	STUCCO OVER SAND CEMENT PLASTER - BAMBOO
EMC	EMULSION PAINT OVER SAND CEMENT PLASTER - EGGSHELL

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**JOB TITLE**  
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**TYPE OF DRAWING**  
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**DRAWING TITLE**  
 COMPOST BUILDING FLOOR LAYOUT, ELEVATIONS AND SECTIONS

SCALE	SIZE	DRAWING NO	SHEET
1:50	A2	SLU-1510-5-027-GPF	A-08

<b>G1</b>	NON STANDARD STEEL GATE WITH 2 X 2 RHS INTERNAL FRAMING AND ALUMINUM SHEET BOTH SIDES WITH STEEL CASTERS TOP AND BOTTOM RUNNING ON STEEL TRACK TOP AND BOTTOM FINISHED WITH 2 COATS AUTOMOTIVE PAINT (BONE WHITE)	<b>D1</b>	STANDARD HOLLOW CORE ALUMINUM EXTERNAL DOOR FINISH WITH 2 COATS AUTOMOTIVE PAINT (BONE WHITE) IN TREATED TIMBER FRAME	<b>D2</b>	<b>D3</b>	STANDARD HOLLOW CORE ALUMINUM EXTERNAL DOOR FINISH WITH 2 COATS AUTOMOTIVE PAINT (BONE WHITE) IN TREATED TIMBER FRAME	<b>D4</b>	STANDARD HOLLOW CORE ALUMINUM EXTERNAL DOOR FINISH WITH 2 COATS AUTOMOTIVE PAINT (BONE WHITE) IN TREATED TIMBER FRAME	<b>G2</b>	NON STANDARD STEEL GATE WITH 2 X 2 RHS INTERNAL FRAMING AND ALUMINUM SHEET BOTH SIDES WITH STEEL CASTERS TOP AND BOTTOM RUNNING ON STEEL TRACK TOP AND BOTTOM FINISHED WITH 2 COATS AUTOMOTIVE PAINT (BONE WHITE) IN 2 X 4 RHS FRAME WITH SAME FINISH	<b>G3</b>	NON STANDARD STEEL GATE WITH 2 X 2 RHS INTERNAL FRAMING AND ALUMINUM SHEET BOTH SIDES WITH STEEL CASTERS TOP AND BOTTOM RUNNING ON STEEL TRACK TOP AND BOTTOM FINISHED WITH 2 COATS AUTOMOTIVE PAINT (BONE WHITE) IN 2 X 4 RHS FRAME WITH SAME FINISH	

01 DOOR SCHEDULE  
A-09 SCALE: N.T.S

<b>W1</b>	STANDARD ALUMINUM WINDOW AND FRAME WITH AUTOMOTIVE PAINT FINISH (BONE WHITE)	<b>W2</b>	STANDARD ALUMINUM WINDOW AND FRAME WITH AUTOMOTIVE PAINT FINISH (BONE WHITE)	<b>W3</b>	RED CLAY VENT BLOCKS	<b>W4</b>	RED CLAY VENT BLOCKS	<b>W5</b>	RED CLAY VENT BLOCKS	<b>W6</b>	RED CLAY VENT BLOCKS	<b>W7</b>	RED CLAY VENT BLOCKS

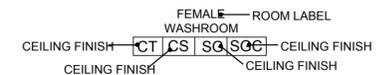
02 WINDOW SCHEDULE  
A-09 SCALE: N.T.S

NOTES:

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  - 1 COAT OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 12mm. ON INTERNAL FACE.
  - PAINT COLOUR SHALL BE AS INDICATED
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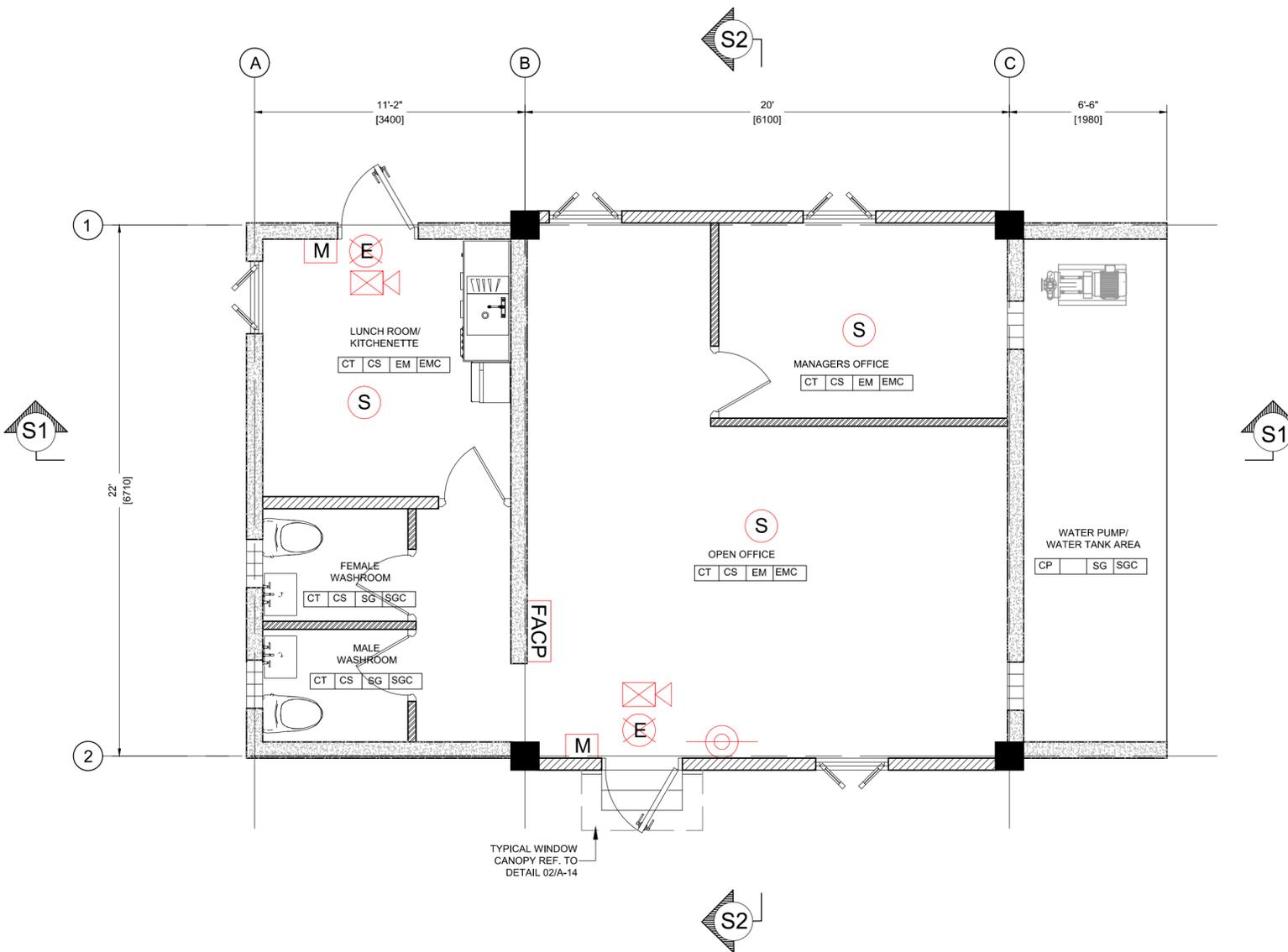
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- ALL CERAMIC WALL TILES SHALL REACH 2200mm. FROM FFL AND THE REST PART SHALL BE POINTED WITH WATER RESISTANT PAINT.
- ALL WALL PAINT SHALL REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
- EXTERNAL GLASS TYPE SHALL BE OF HIGH PERFORMANCE DOUBLE GLAZING HAVING THE FOLLOWING CHARACTERISTICS: MAXIMUM U VALUE : UV 3.30/M2-C  
MAXIMUM SHADING COEFFICIENT : SC=0.46

<b>REVISIONS</b> <table border="1"> <thead> <tr> <th>ISSUE</th> <th>DATE</th> <th>NATURE OF CHANGE</th> <th>ECN</th> <th>BY</th> <th>CHECKED</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>						ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED																															<b>COPYRIGHT/NOTES:</b> This drawing is copyright and should not be reproduced without prior permission. It is to be read in conjunction with all relevant design drawings and specification. Scaled dimensions should not be taken from this drawing. All dimensions must be checked on site prior to manufacture and commencement of works. Notify FDL CONSULT of any discrepancies or omissions observed without delay						DESIGNED BY: JAMAL FRANCIS JF DRAWN BY: J. FRANCIS, D. JACKSON JF, DJ CHECKED: GILBERT FONTENARD GF APPROVED: GILBERT FONTENARD GF ISSUED DATE: OCTOBER 2015 PROPERTY OF: FDL CONSULT INC.			<b>CLIENT TITLE</b> GOVERNMENT OF ST. VINCENT AND THE GRENADINES MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION JOB TITLE: DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES TYPE OF DRAWING: DESIGN DRAWINGS			 FDL Consult Inc. P O Box 1803 GOODLANDS CASTRIES ST. LUCIA Tel. (758) 457 6400 Fax. (758) 453 7048 email: fdl@fdlconsultinc.com website: www.fdlconsultinc.com			<b>FDL Consult Inc.</b> DRAWING TITLE: DOOR AND WINDOW SCHEDULE SCALE: N.T.S. SIZE: A2 DRAWING NO: SLU-1510-S-027-GPF SHEET: A-09		
ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED																																																						

SYMBOL KEY	
	100mm THK. HCB EXTERNAL AND INTERNAL WALL WITH 12mm THK. RENDERING BOTH SIDES REINFORCED WITH 12mmØ BARS @400mm crs.
	150mm THK. HCB EXTERNAL AND INTERNAL WALL WITH 12mm THK. RENDERING BOTH SIDES REINFORCED WITH 12mmØ BARS @400mm crs.
	200mm THK. LOAD BEARING WALL REINF. WITH T16 @ 200mm C/C VERTICAL AND T12 @ 150mm C/C HORIZONTAL.

**LEGEND**

- FIRE ALARM CONTROL PANEL
- STROBE
- HORN/STROBE
- MANUAL PULL STATION
- EXIT SIGN
- PHOTOELECTRIC SMOKE DETECTOR
- FIRE EXTINGUISHER



01 FIRE LAYOUT  
F-01 SCALE 1:50

**NOTES:**

1. ALL LEVELS ARE IN METERS.
  2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH OTHER TRADES
  3. UNLESS OTHERWISE INDICATED ALL EXTERNAL MASONRY UNITS SHALL REACH STRUCTURAL CEILING AND ALL CMU SHALL BE FILLED WITH CONCRETE AS SPECIFIED.
  4. EXTERNAL AND INTERNAL FINISHES EXTERNAL WALLS SHALL BE RENDERED AS FOLLOWS:
    - a- 2 COATS OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 20mm. ON EXTERNAL FACE.
    - b- 1 COAT OF SAND CEMENT PLASTER SMOOTH FINISH WITH A TOTAL THICKNESS OF 12mm. ON INTERNAL FACE.
    - c- PAINT COLOUR SHALL BE AS INDICATED
  5. UNLESS OTHERWISE INDICATED ALL FAIRFACED CONCRETE SHALL BE CHAMFERED 20x20mm.
  6. UNLESS OTHERWISE INDICATED ALL LINTELS OVER DOORS AND WINDOWS SHALL EXTEND 200mm FROM EACH SIDE OF OPENINGS.
  7. PROVIDE OPENINGS IN PARTITION WALLS ABOVE SUSPENDED CEILING AS REQUIRED AND SHOWN ON MECHANICAL DRAWINGS.
  8. HARDWARE SET OF EACH DOOR IS INDICATED ON DRAWING BELOW THE DOOR TYPE. OTHERWISE HARDWARE SET SHOULD BE PROVIDED BY DOOR MANUFACTURER.
- DOOR TYPE  
 HARDWARE SET TYPE
9. ROOM FINISHES ARE RECORDED AS INDICATED BELOW:
 

FEMALE WASHROOM	CT   CS   SG   SGC	CEILING FINISH
CEILING FINISH	CT   CS   SG   SGC	CEILING FINISH
  10. ALL PLASTER MUST REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
  11. ALL CERAMIC WALL TILES SHALL REACH 2200mm. FROM FFL AND THE REST PART SHALL BE POINTED WITH WATER RESISTANT PAINT.
  12. ALL WALL PAINT SHALL REACH 150mm. ABOVE SUSPENDED CEILING LEVEL.
  13. EXTERNAL GLASS TYPE SHALL BE OF HIGH PERFORMANCE DOUBLE GLAZING HAVING THE FOLLOWING CHARACTERISTICS: MAXIMUM U VALUE : UV 3.30/M2-C  
MAXIMUM SHADING COEFFICIENT : SC=0.46

FLOOR MATERIAL FINISH	
CT	600x600x8mm. THICK NON SLIP CERAMIC TILES.
CT3	150x150x6mm. THICK NON SLIP CERAMIC TILES.
CP	CAST IN PLACE CONCRETE WITH STAMPED SURFACE - SORRENTO
EP	EPOXY FINISH OR SIMILAR FLOOR FINISH
BASE MATERIAL FINISH	
CS	100mm HIGH CERAMIC SKIRTING MATCHING WITH FLOORING TILES.
WALL MATERIAL FINISH	
SG	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - EGG SHELL FINISH (RGB 240,234,214)
SGD	SEMI-GLOSS OIL PAINT ON SAND CEMENT PLASTER - FIRE BRICK (RGB 145,34,34)
EM	EMULSION PAINT ON SAND CEMENT PLASTER EGG SHELL FINISH - EGG SHELL FINISH
CT3	150x150x6mm THICK GLAZED CERAMIC TILES
SG	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGG SHELL
SP	STUCCO OVER SAND CEMENT PLASTER - FIRE BRICK (RGB 240,234,214)
CEILING MATERIAL FINISH	
SGC	SEMI-GLOSS OIL PAINT OVER SAND CEMENT PLASTER - EGG SHELL
EB	EMULSION PAINT OVER 12 mm. THICK PLASTER BOARD JOINTLESS SUSPENDED CEILING - EGG SHELL
MR	0.7mm. STANDING SEAM METAL SHEETING ROOF COVERING.
SP	STUCCO OVER SAND CEMENT PLASTER - BAMBOO
EMC	EMULSION PAINT OVER SAND CEMENT PLASTER - EGG SHELL

REVISIONS					
ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED

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**JOB TITLE**  
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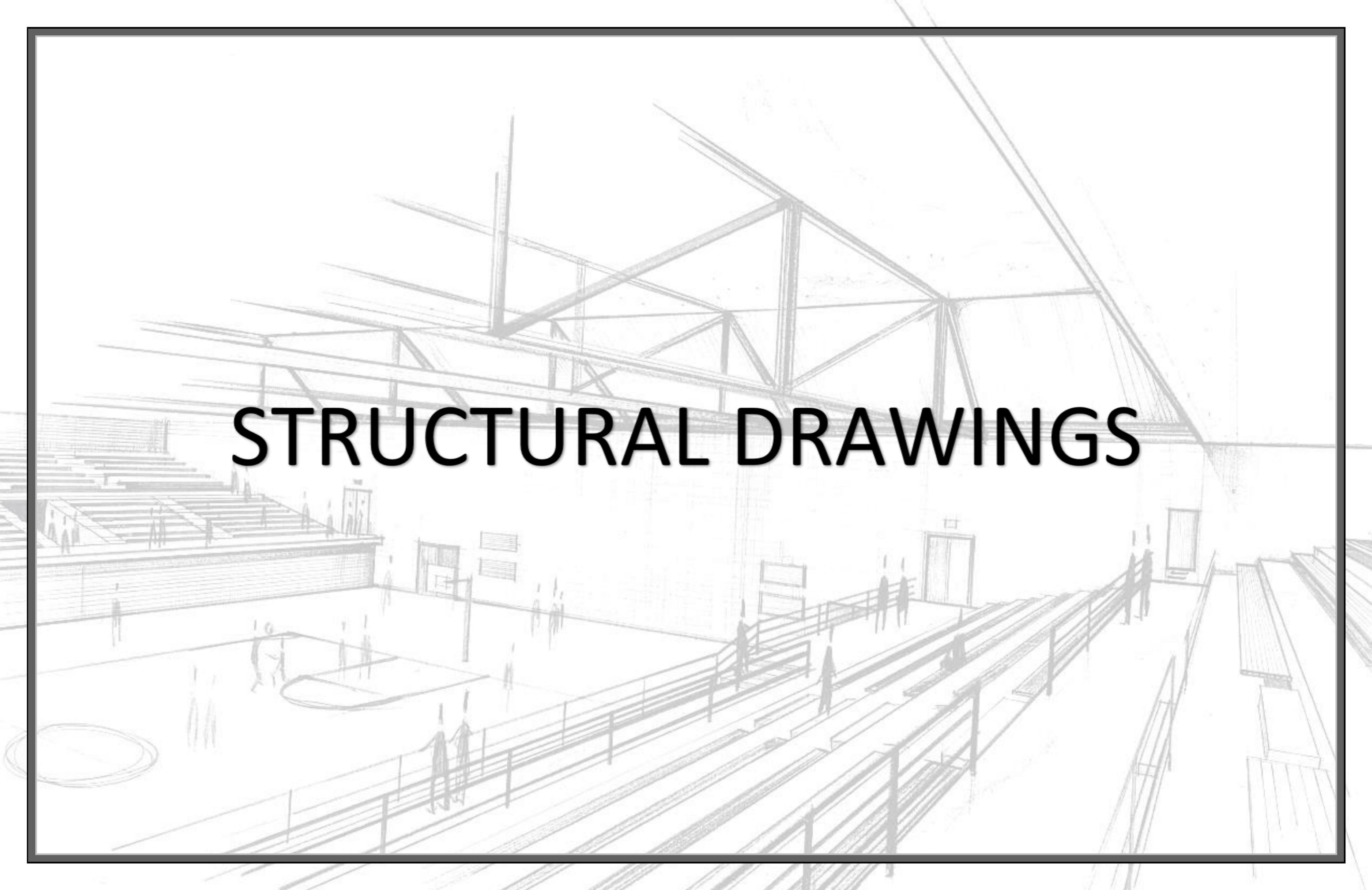
**TYPE OF DRAWING**  
 DESIGN DRAWINGS

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**DRAWING TITLE**  
 FIRE LAYOUT

<b>SCALE</b> 1:50	<b>SIZE</b> A2	<b>DRAWING NO</b> SLU-1510-S-027-GPF	<b>SHEET</b> F-01
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# STRUCTURAL DRAWINGS



### 1.0 - GENERAL

- THESE STRUCTURAL DRAWINGS (INCLUDING THIS SPECIFICATIONS SHEET) ARE INSTRUMENTS OF SERVICE, THE PROPERTY AND COPYRIGHT OF FDL CONSULT INC. NO REPRODUCTION IS PERMITTED WITHOUT THE WRITTEN PERMISSION OF FDL CONSULT INC. AND WHEN MADE SHALL BEAR THE NAME OF THE CONSULTING FIRM.
- THE MANUFACTURING AND CONSTRUCTION OF THE COMPONENTS WITHIN THE BUILDING, AS WELL AS THE MATERIALS TO BE USED, ARE TO BE VERIFIED BY A QUALIFIED PROFESSIONAL TO ENSURE IT MEETS THE QUALITY NOTED IN THE TECHNICAL SPECIFICATION.
- PRIOR TO CONSTRUCTION, VERIFY ALL DIMENSIONS ON DRAWINGS AND REPORT ANY INCONSISTENCIES TO THE ENGINEER. PLEASE DO NOT SCALE THE DRAWINGS.
- THE STRUCTURAL DRAWINGS ARE TO BE READ IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS AND THE TECHNICAL SPECIFICATIONS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR PROMPT RESOLUTION.
- NOTIFY THE SUPERVISING ENGINEER 24 HOURS PRIOR TO COMMENCING STEEL INSTALLATION, PLACING OF CONCRETE AND BEGINNING OF MASONRY WORK.

### 2.0 - DESIGN DATA

- DESIGN CODES: ACI 318-08 / ASCE/SEI 7-10 / IBC 2009
- GRAVITY LOADING  
LIVE LOADS: FLOORS = 4 KN/m<sup>2</sup>  
ROOF = 1.5 KN/m<sup>2</sup>
- WIND DESIGN DATA (RP 1700)  
DESIGN WIND SPEED:  $V_{wind} = 67$  m/s (149 mph)
- ASCE7-10 EARTHQUAKE DATA (RP 2475)  
ANALYSIS PROCEDURES: EQUIVALENT LATERAL FORCE (ELF)  
MMF: MOMENT  
SITE CLASS FOR FOUNDATIONS- 'D'  
 $F_a = 1.0$   $F_v = 1.6$   
  
DESIGN SPECTRAL RESPONSE ACCELERATIONS  
 $SD = 0.20g$   
 $SD = 0.40g$

### 3.0 - FOUNDATIONS

- THE FOUNDATION DESIGN WAS BASED ON AN AVERAGE RESULTS FROM PRELIMINARY DCP TEST RESULTS ALLOWABLE SOIL BEARING CAPACITY OF 200 MPa (AT A DEPTH OF ONE (1) METRE BELOW EXISTING GROUND LEVEL). THIS AVERAGE BEARING CAPACITY MUST BE CONFIRMED ON SITE DURING THE CONSTRUCTION STAGE BEFORE THE COMMENCEMENT OF ANY FOUNDATION WORKS.
- REMOVE ALL ORGANIC MATERIAL FROM THE CONSTRUCTION AREA PRIOR TO EXECUTING ANY FOUNDATION WORKS. REMOVE ALL LOOSE OR SATURATED MATERIAL FROM THE BASE OF FOOTING EXCAVATIONS PRIOR TO PLACING CONCRETE. STORE TOPSOIL FOR LANDSCAPING.
- REMOVE GROUND WATER ENTERING EXCAVATIONS BY APPROVED DEWATERING METHODS. CONSULT THE TECHNICAL SPECIFICATIONS FOR MORE INFORMATION.
- SHORE AND UNDERPIN EXCAVATIONS TO PREVENT DISTURBANCE TO ADJACENT STRUCTURES, STREETS, SIDEWALKS AND UTILITIES.
- PROOF ROLL SUBGRADES (AS REQUIRED BY THE ENGINEER) TO DETECT SOFT OR HARD SPOTS. REMEDY SOFT SPOTS AS DIRECTED BY THE ENGINEER.

### 4.0 - EXCAVATION AND BACKFILLING

- EXCAVATE FOR NEW CONSTRUCTION TO INSTALL FOOTINGS AS SHOWN IN THE DRAWINGS. REMOVE TOP SOIL, ORGANIC MATTER AND DEBRIS TO EXPOSE COMPETENT (APPROVED BY THE ENGINEER) SOILS BELOW GROUND FLOOR SLAB. COMPACT SUB-GRADE BELOW GROUND FLOOR SLAB PRIOR TO BACKFILLING.
- BACKFILLING MATERIAL SHALL CONSIST OF APPROVED ENGINEERING FILL AND COMPACTED IN LAYERS NOT EXCEEDING 200mm DEEP TO ACHIEVE A DENSITY OF ATLEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY BS 1377.
- GRANULAR FILL TO BE CLEAN NATURAL SAND AND GRAVEL, FREE FROM SILT, LOAM, FRIABLE OR VEGETABLE MATTER - MAXIMUM GRAIN SIZE TO BE 75mm.
- PLAN AND CONTROL EXCAVATION WORK TO ENSURE BOTTOM OF EXCAVATION DOES NOT SOFTEN AND SLIDE.
- SUPPORT CONSTRUCTION DURING BACKFILLING TO PREVENT DISPLACEMENT.
- DO NOT BACKFILL AGAINST WALLS RETAINING EARTH UNTIL ELEMENTS PROVIDING LATERAL SUPPORTS ARE COMPLETED. PLACE BACKFILL SIMULTANEOUSLY ON BOTH SIDES OF WALLS BELOW GRADE.

### 5.0 CAST-IN-PLACE CONCRETE

- CONCRETE MATERIALS, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES ARE TO CONFORM TO THE BRITISH STANDARD INSTITUTE PUBLICATION: EUROCODE 2: DESIGN OF CONCRETE STRUCTURES (BS EN 1992): BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY (ACI 318M-05)
- CONCRETE TO BE AS FOLLOWS:
  - CONCRETE IN FOOTINGS, SLABS ON GRADE AND FOUNDATION WALLS:
    - 28 DAY CUBE STRENGTH - 35MPa
    - MAXIMUM AGGREGATE SIZE - 20mm
    - MAXIMUM SLUMP - 75mm
    - MINIMUM CEMENT CONTENT - 350kg/m<sup>3</sup>
    - MAXIMUM WATER/CEMENT RATIO - 0.50
  - CONCRETE IN STRUCTURAL SLABS, COLUMNS AND BEAMS:
    - 28 DAY CUBE STRENGTH - 35 MPa
    - MAXIMUM AGGREGATE SIZE - 20mm
    - MAXIMUM SLUMP - 75mm
    - MINIMUM CEMENT CONTENT - 350kg/m<sup>3</sup>
    - MAXIMUM WATER CONTENT RATIO - 0.50
- ALL TESTING RESULTS ARE TO BE FORWARDED TO THE STRUCTURAL ENGINEERING FOR APPROVAL AND TO ENSURE COMPLIANCE WITH TECHNICAL SPECIFICATIONS.
- SUBMIT THE PROPOSED CONCRETE MIX DESIGN(S) FOR THE ENGINEER'S REVIEW AND CONDUCT PRELIMINARY TESTS PRIOR TO THE EXECUTION OF ANY CONCRETING WORKS TO VERIFY THAT THE SUBMITTED CONCRETE MIX DESIGN(S) IS/ARE SUITED TO THE PROPERTIES OF THE CONSTITUENT MATERIALS THEREBY ACHIEVING THE DESIRED 28 DAY STRENGTHS.
- THE CONCRETE CONTRACTOR IS TO DESIGN ALL FORMWORK FOR LOADS AND LATERAL PRESSURES OUTLINED IN ACI 318 - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. ACI 347- RECOMMENDED PRACTISE FOR RECOMMENDED FORWORK.
- PLACE AND VIBRATE CONCRETE WITHOUT DISTURBING PLACED REINFORCING STEEL.

### 6.0 SLABS ON GRADE

- PROVIDE 200mm CRUSH STONE (HARDCORE) AND COMPACT SUBGRADE FOR SLAB ON GRADE.
- PROVIDE APPROVED PRE-FORMED KEYED CONTROL JOINTS OR SAW CUT (WITHIN 24 HOURS) ALONG COLUMN GRID LINES CUT 1/3 DEPTH OF SLAB AND FILL WITH APPROVED MASTIC JOINT.
- BREAK BOND AT SURFACES OF CONTACT WITH OTHER CONCRETE (USE ASPHALT WATERPROOFING, HEAVY DUTY POLYTHENE OR SAND LAYER).

### 7.0 REINFORCING STEEL

- REINFORCING STEEL TO BE AND COMPLY WITH BS 4483 FOR WELDED FABRIC MESH REINFORCEMENT AND BS 4449 FOR REINFORCING BARS ( $F_y = 410$  MPa) / ASTM A 706/A 706M, ASTM A 615/A 615M GRADE 60.
- ALL REINFORCING STEEL TO BE DETAILED IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE ACI 315-99, DETAILS AND DETAILING OF CONCRETE REINFORCEMENT. CONCRETE COVER TO ALL REINFORCING BARS, UNLESS OTHERWISE STATED IN DRAWINGS ARE TO BE:
  - BURIED CONCRETE IN CONTACT WITH THE EARTH: 75mm
  - BURIED CONCRETE NOT IN CONTACT WITH THE EARTH: 75mm
  - STRUCTURAL SLABS: 25mm
  - STRUCTURAL BEAMS AND COLUMNS: 50mm

- ALL REINFORCING BAR LAP LENGTHS ARE TO BE 50 TIMES THE BAR DIAMETER (MINIMUM), OR IN ACCORDANCE WITH THE ACI STANDARD DETAILS AND DETAILING OF CONCRETE REINFORCEMENT AS REPORTED BY ACI COMMITTEE 315. ALL REINFORCING BAR SLICES ARE TO BE CLASS B TENSION SPLICES PER LAP SPLICE SCHEDULE UNLESS OTHERWISE SHOWN. WALL HORIZONTALS ARE TO BE CONSIDERED 'TOP BARS'.

- UNLESS SHOWN ON DRAWINGS ALL CAST-IN-PLACE STRUCTURAL OPENINGS TO BE TRIMMED WITH 2-T16 BARS ALL AROUND ON ALL FACES IN THE FORM OF A DIAMOND. BARS ARE TO PROJECT 600mm BEYOND OPENINGS. ALL REQUIRED OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

- REINFORCEMENT TO SLABS ON GRADE TO BE SUPPORTED ON APPROVED CHAIRS. AT 900mm MAXIMUM SPACING. SPACER BLOCKS USED TO ACHIEVE COVER TO BOTTOM REINFORCEMENT ARE TO BE OF THE FABRICATED TO ACHIEVE THE REQUIRED CONCRETE COVER.

- CONCRETE SPACERS TO HAVE 28 DAY CYLINDER STRENGTH OF 35MPa.

### 8.0 - MASONRY

- ALL MASONRY WORK SHALL COMPLY WITH ACI 530-05/ ASCE 5-05/ TMS 402-05 BUILDING CODE REQUIREMENT FOR MASONRY STRUCTURES UNLESS NOTED.
- MINIMUM CONCRETE BLOCK UNIT STRENGTH (NET AREA) 15 MPa MORTAR STRENGTH  $F'_c = 12$  MPa GROUT STRENGTH  $F'_c = 20$  MPa
- MINIMUM MASONRY REINFORCEMENT (UNLESS OTHERWISE NOTED) WALL THICKNESS:
 

150mm	HORIZ.	SMR @ 400
	VERT.	1-12mm @ 400
200mm	HORIZ.	HDMR @ 400
	VERT.	1-12mm @ 400

- SMR IS GALVANIZED STANDARD TYPE MASONRY REINFORCEMENT WITH 2-#9 Ga. (3.6mm) SIDE RODS (TOTAL AREA 21mm<sup>2</sup>) HDMR IS GALVANISED LADDER TYPE HEAVY MASONRY REINFORCEMENT WITH 2-#6 Ga. (4.76mm) SIDE RODS. (TOTAL AREA 35.66mm<sup>2</sup>)

- UNLESS OTHERWISE NOTED, LINTELS FOR NON LOAD BEARING BLOCK WALLS TO BE OF REINFORCED CONCRETE WITH THE FOLLOWING SPECIFICATIONS:

- FOR SPANS UP TO 1200mm, LINTELS ARE TO BE 200mm DEEP, REINFORCED WITH 2-Y12 BARS BOTTOM.
- FOR SPANS UP TO 2000mm, LINTELS ARE TO BE 300mm DEEP, REINFORCED WITH 2-Y16 BARS BOTTOM.
- FOR SPANS UP TO 3000mm, LINTELS ARE TO BE 400mm DEEP, REINFORCED WITH 2-Y20 BARS BOTTOM.

- LINTELS ARE TO CONTINUE 400mm PAST EACH SIDE OF THE OPENING TO CREATE A KNOCK OUT BLOCK EFFECT. CELLS BELOW BEARING ENDS TO BE CONCRETE FILLED AND REINFORCED WITH 1-Y12 VERTICAL BAR PER CELL WHICH EXTENDS INTO LINTEL.

- FILL VOIDS CONTAINING REINFORCEMENT COMPLETELY TO FULL HEIGHT WITH COARSE GROUT IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS WITH A 28-DAY CYLINDER STRENGTH OF 15 MPa AND MAXIMUM AGGREGATE SIZE OF 12mm AND A MINIMUM AND MAXIMUM SLUMP AT TIME OF PLACING OF 75mm AND 200mm RESPECTIVELY.

- SUBMIT PROPOSED MORTAR AND GROUT MIXES TO THE ENGINEER FOR HIS REVIEW PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORK.

- PLACE GROUT IN LIFTS NOT EXCEEDING 1200mm. CONSOLIDATE THE FILLING OF THE CELLS OF MASONRY UNITS BY VIBRATION AS REQUIRED.

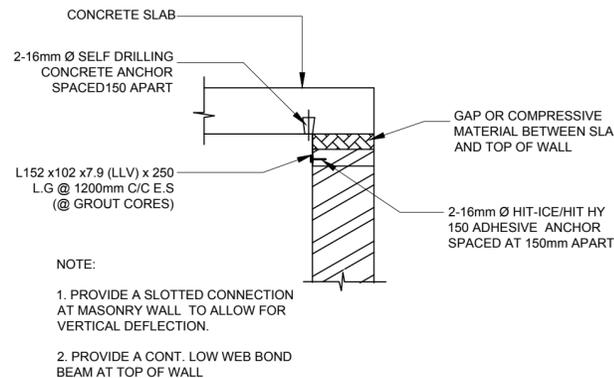
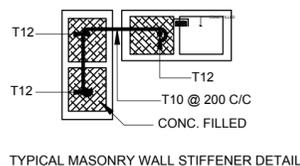
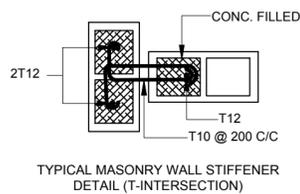
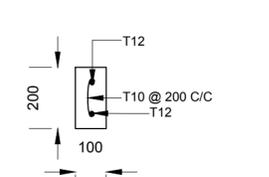
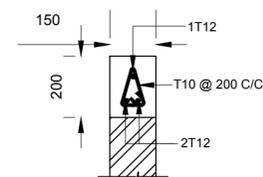
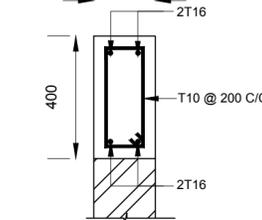
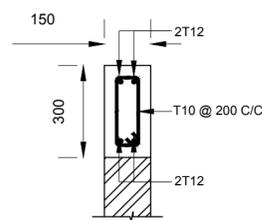
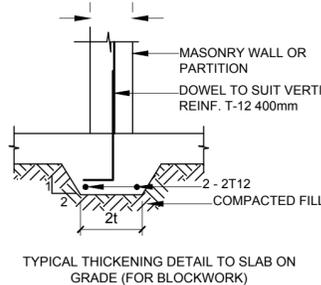
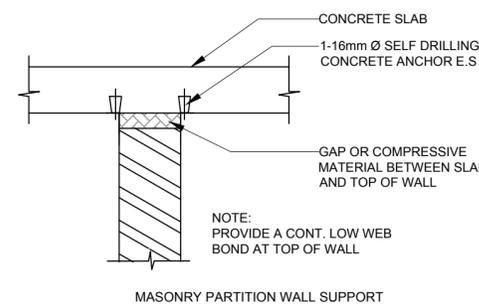
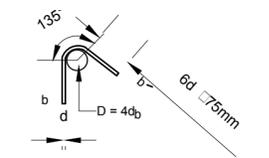
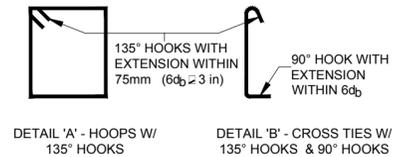
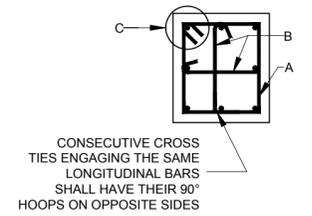
- BOND BEAMS IN CONCRETE BLOCK WALLS, WHERE NOT OTHERWISE SHOWN, TO HAVE A MINIMUM OF 2-T16 BARS CONTINUOUS AS REINFORCEMENT WITH CORNER BARS TO MATCH (SIMILAR TO FOUNDATION WALLS).

- UNLESS OTHERWISE NOTED, PROVIDE VERTICAL DOWELS FROM CONCRETE SLABS, BEAMS AND/OR WALLS TO MATCH ALL VERTICAL BLOCK WALL REINFORCEMENT WITH A LENGTH OF 1200mm ABOVE THE CONCRETE AND 600mm EMBEDMENT WITHIN THE CONCRETE.

- BOND JOINING WALLS TOGETHER WITH PROPER TIES LAID IN ALTERNATE HORIZONTAL JOINTS. PROVIDE MASONRY BRICK TIES IN ALL CAVITY WALLS SPACED 600mm VERTICALLY AND 600mm HORIZONTALLY.

### 9.0 - SEISMIC HOOP REINFORCE DETAILING

- DESIGN CODES IN ACCORDANCE WITH ACI 315
- AT LAP SPLICES, SPACING OF HOOPS NOT GREATER THAN 100mm (4")
- $d_b$  = DIAMETER OF HOOP REBAR



#### REVISIONS

#### COPYRIGHT/NOTES:

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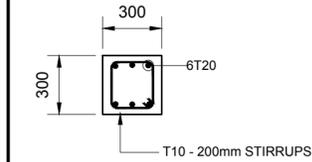


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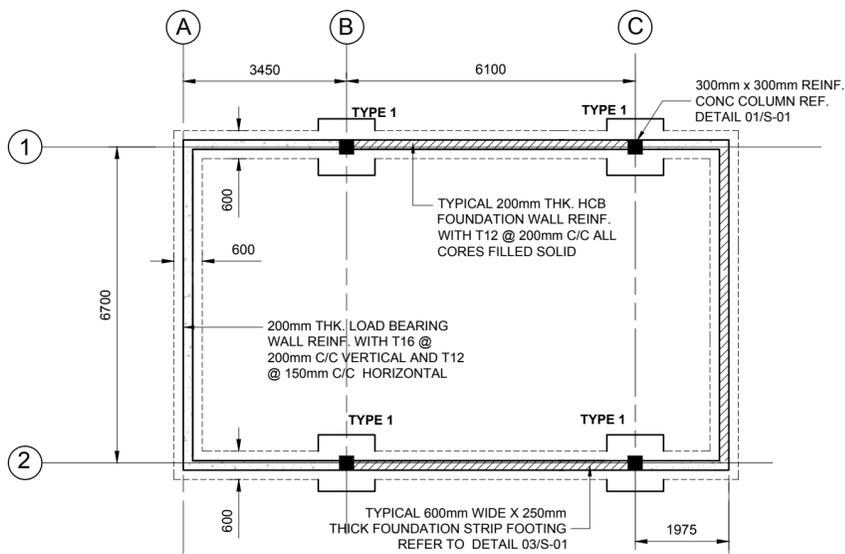
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TYPE OF DRAWING	DESIGN DRAWINGS	SCALE	SIZE	DRAWING NO	SHEET
		NTS	A2	SLU-1510-S-027-GPF	S-01

PAD FOOTINGS	DIMENSIONS
TYPE 1	1.2 m X 1.2m

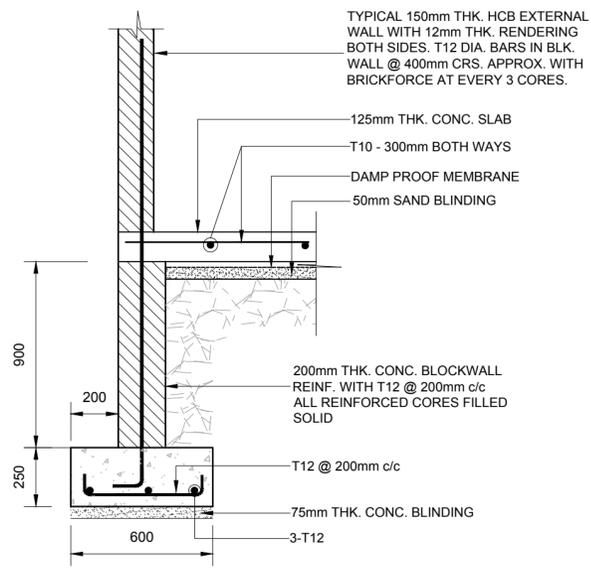
200mm THK. REIN. CONC. FOUNDATION WALL  
 200mm THK. LOAD BEARING WALL



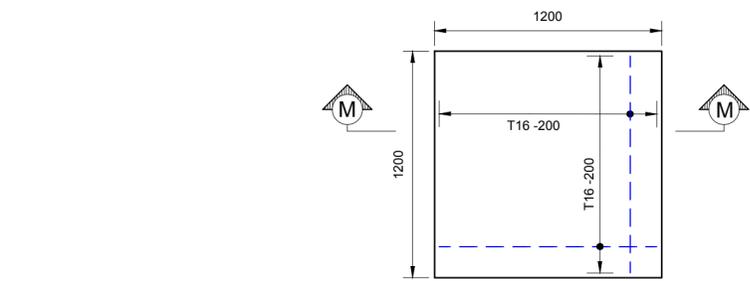
01 COLUMN SECTION  
S-02 SCALE 1:20



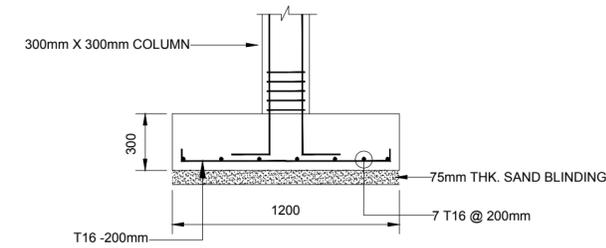
02 FOUNDATION LAYOUT  
S-02 SCALE 1:100



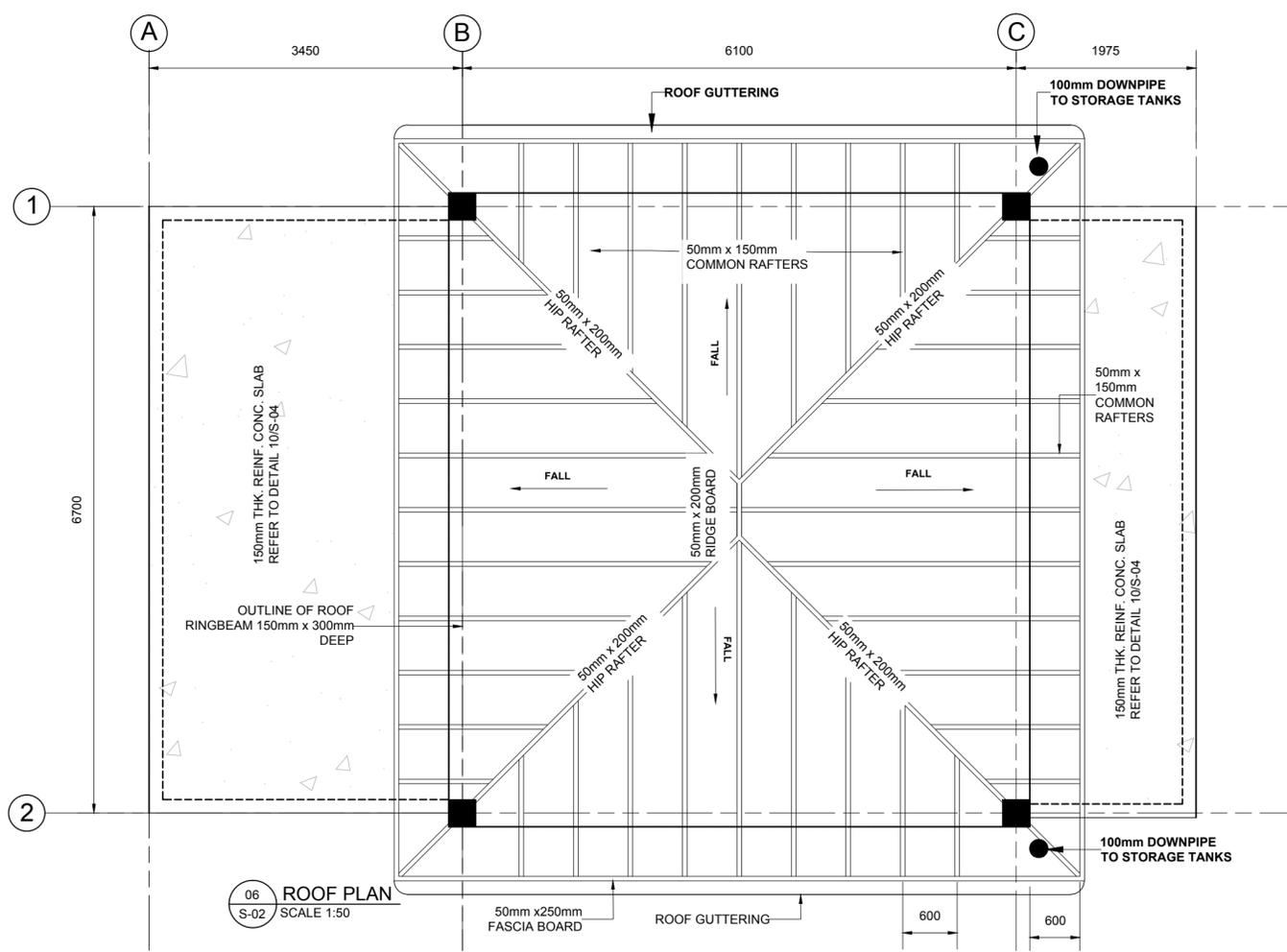
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S-02 SCALE 1:20



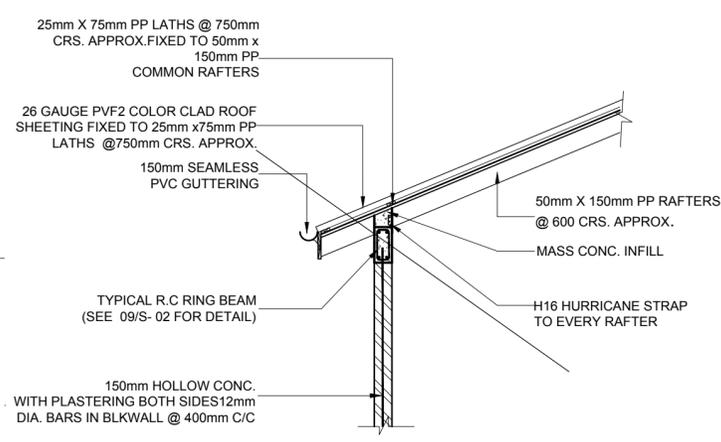
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S-02 SCALE 1:25



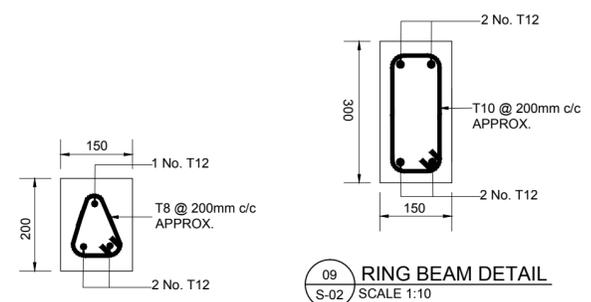
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S-02 SCALE 1:25



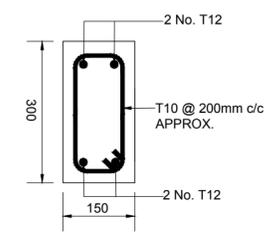
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S-02 SCALE 1:50



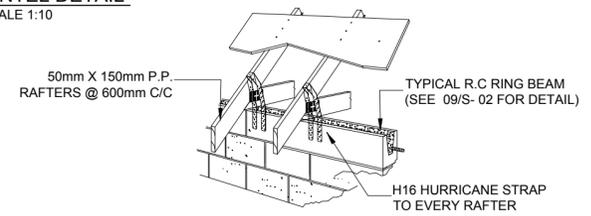
07 EAVE DETAIL  
S-02 SCALE 1:40



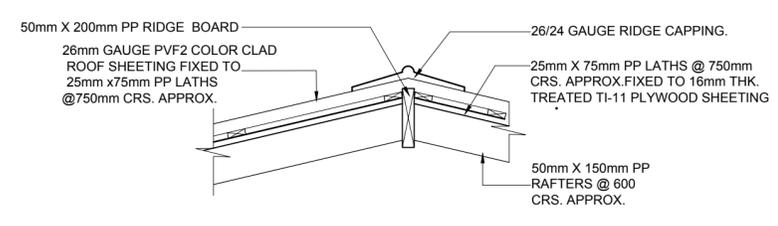
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S-02 SCALE 1:10



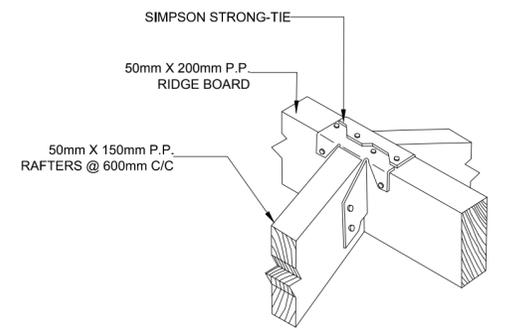
09 RING BEAM DETAIL  
S-02 SCALE 1:10



10 H16 HURRICANE STRAP TO RAFTER DETAIL  
S-02 SCALE 1:10



11 RIDGE BOARD DETAIL  
S-02 SCALE 1:20



12 TYPICAL RIDGE TO RAFTER ANCHOR DETAIL  
S-02 SCALE 1:10

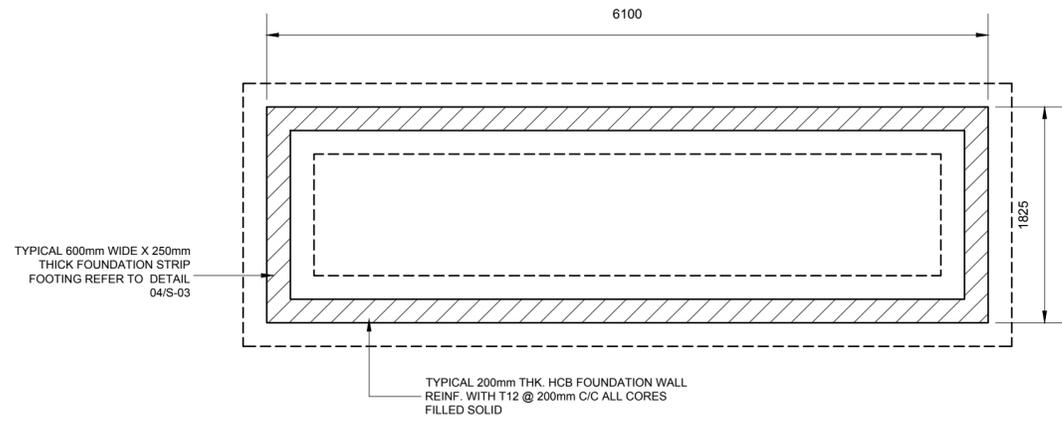
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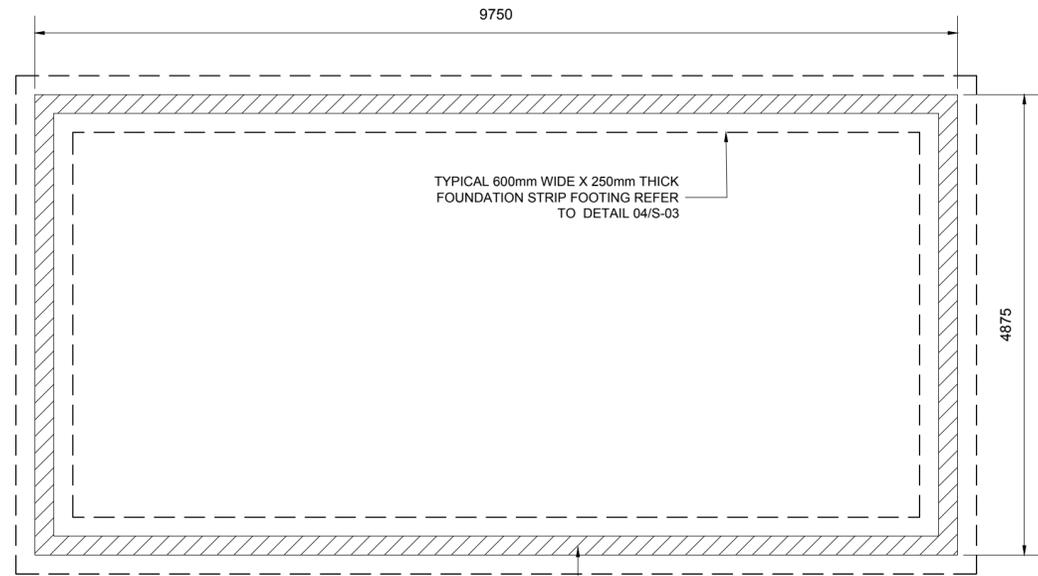
DESIGNER:	FDL CONSULT INC.	FDL
DRAWN BY:	LYNELLE ST JUSTE	LS
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF
ISSUED DATE:	OCTOBER 2015	
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CLIENT TITLE	GOVERNMENT OF ST. VINCENT AND THE GRENADINES
MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION	
JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES
TYPE OF DRAWING	DESIGN DRAWINGS

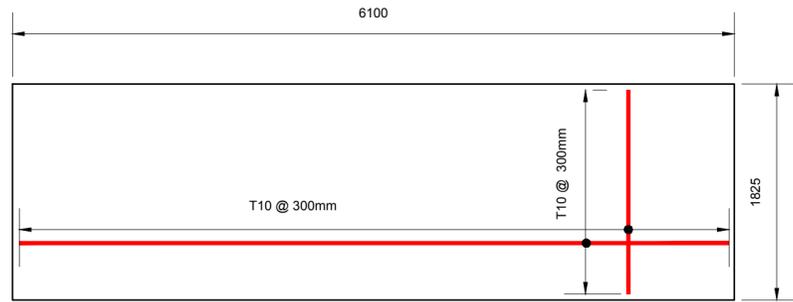
		<b>FDL Consult Inc.</b> P.O. Box 1803 GOODLANDS CASTRIES ST. LUCIA Tel: (758) 457 6400 Fax: (758) 453 7048 email: fdl@fdlconsultinc.com website: www.fdlconsultinc.com	
DRAWING TITLE	FOUNDATION AND ROOF PLAN AND DETAILS	DRAWING NO	SHEET
SCALE	AS SHOWN	SIZE	A2
		SLU -1510-S-027-GPF	S-02



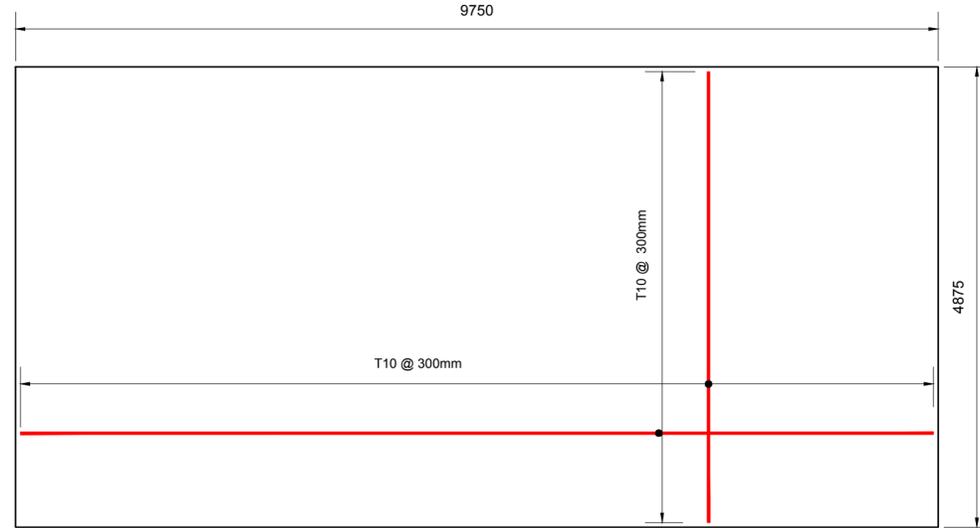
01 COMPOST - FOUNDATION PLAN  
S-03 SCALE 1:40



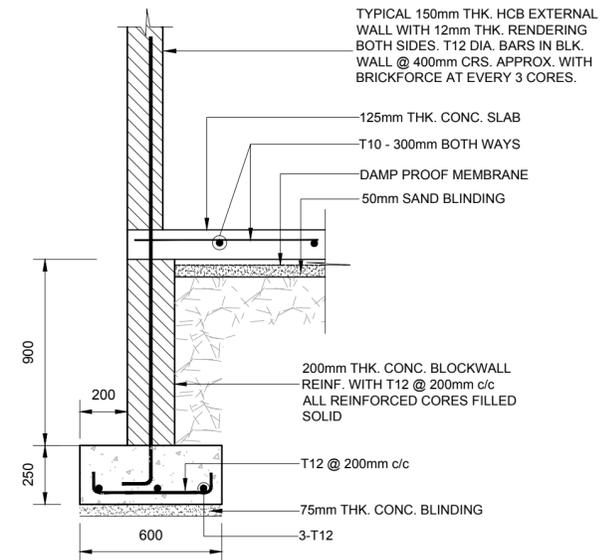
02 UTILITY BUILDING - FOUNDATION PLAN  
S-03 SCALE 1:40



03 COMPOST BUILDING - REINFORCEMENT LAYOUT  
S-03 SCALE 1:40



05 UTILITY BUILDING - REINFORCEMENT LAYOUT  
S-03 SCALE 1:50



04 STRIP FOOTING FOUNDATION DETAIL  
S-03 SCALE 1:20

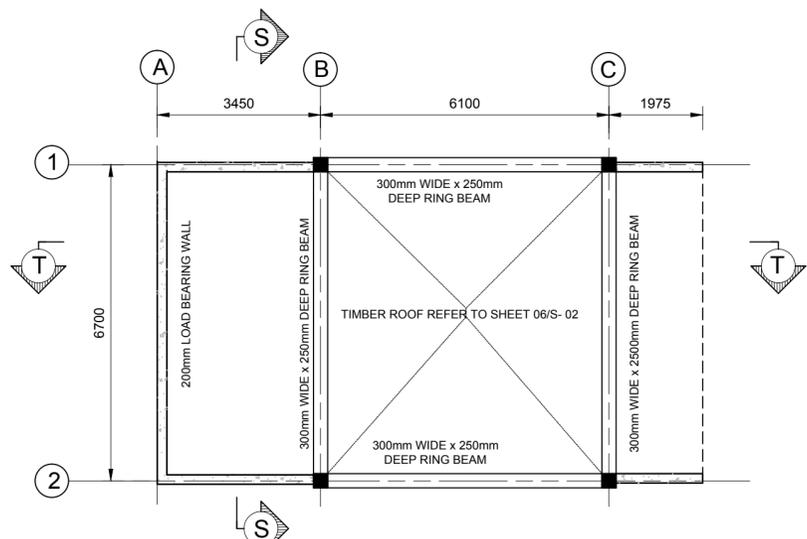
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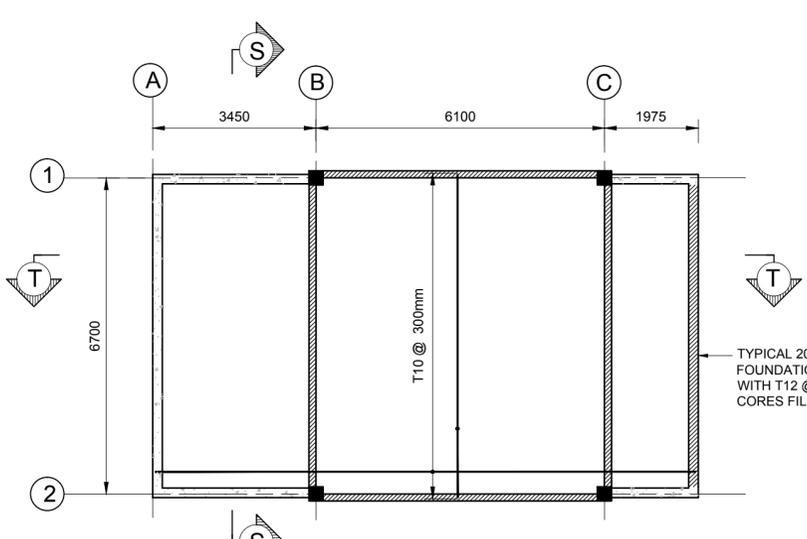
DESIGNER:	FDL CONSULT INC.	FDL
DRAWN BY:	LYNDELL ST JUSTE	LS
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF
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 CLIENT TITLE <b>GOVERNMENT OF ST. VINCENT AND THE GRENADINES</b> MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION	JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES
	TYPE OF DRAWING	DESIGN DRAWINGS

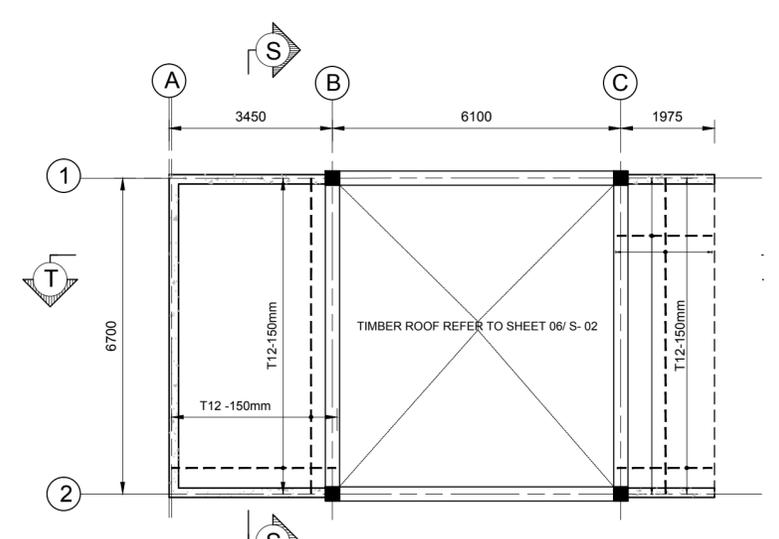
 <b>FDL Consult Inc.</b> P.O. Box 1803 GOODLANDS CASTRIES ST. LUCIA Tel. (758) 457 6400 Fax. (758) 453 7048 email: fdl@fdlconsultinc.com website: www.fdlconsultinc.com	DRAWING TITLE		FOUNDATION PLAN AND REINFORCEMENT LAYOUT - COMPOST AND UTILITY BUILDING	
	SCALE	SIZE	DRAWING NO	SHEET
AS SHOWN	A2	SLU -1510-S-027-GPF	S-03	



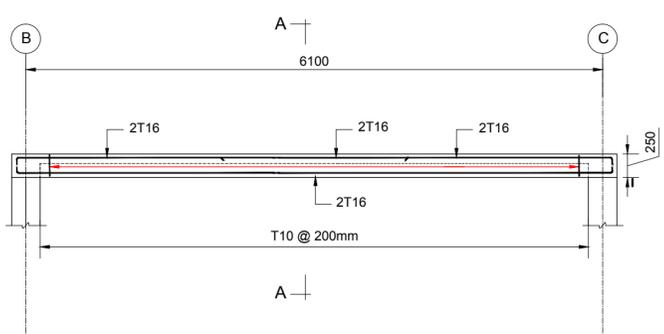
01 ROOF BEAM LAYOUT  
S-04 SCALE 1:100



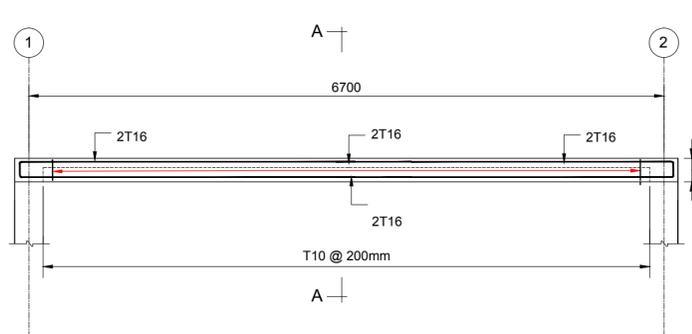
02 GROUND FLOOR REINFORCEMENT LAYOUT  
S-04 SCALE 1:100



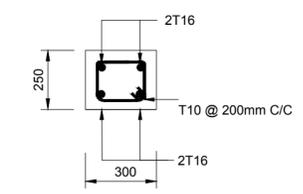
03 ROOF - BOTTOM REINFORCEMENT LAYOUT  
S-04 SCALE 1:100



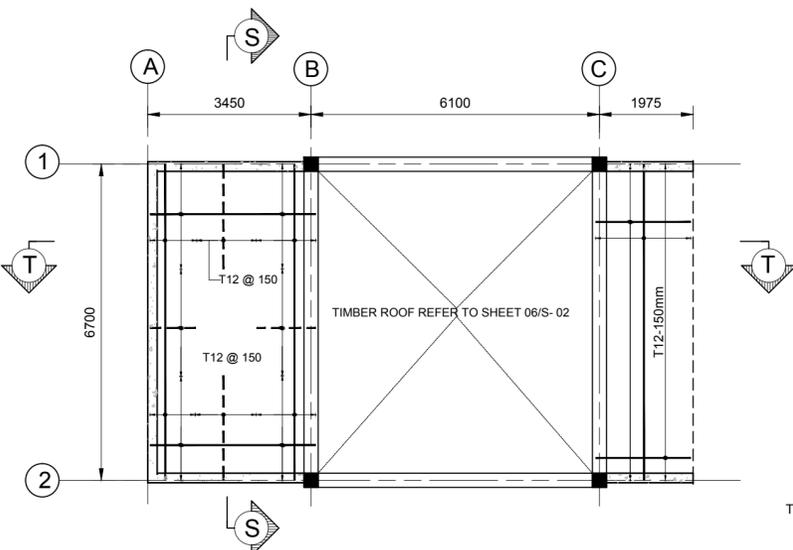
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S-04 SCALE 1:50



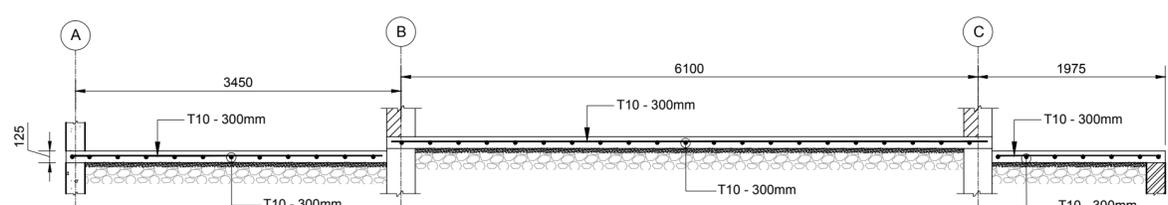
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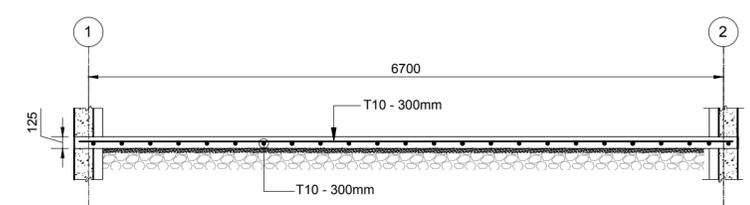
06 BEAM CROSS SECTION A-A  
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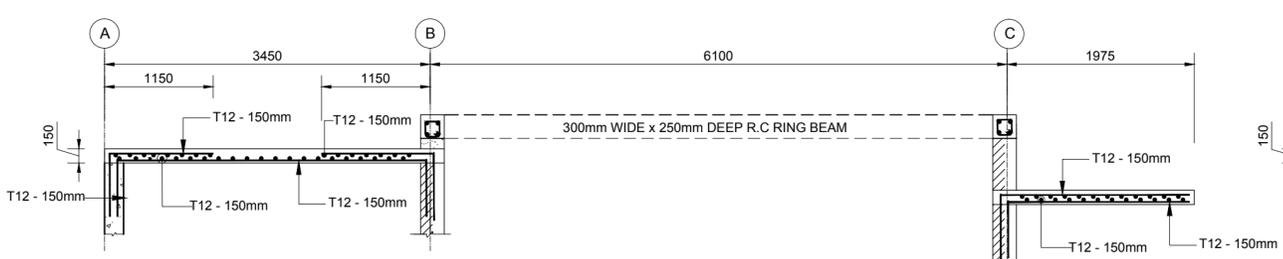
07 ROOF - TOP REINFORCEMENT LAYOUT  
S-04 SCALE 1:100



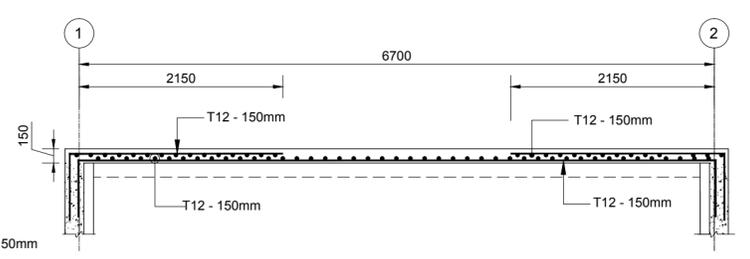
08 GROUND FLOOR - SLAB SECTION T-T  
S-04 SCALE 1:50



09 GROUND FLOOR - SLAB SECTION S-S  
S-04 SCALE 1:50



10 ROOF - SLAB SECTION T-T  
S-04 SCALE 1:50



11 ROOF FLOOR - SLAB SECTION S-S  
S-04 SCALE 1:50

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DRAWN BY:	KENT EMMANUEL	KE
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF
ISSUED DATE:	OCTOBER 2015	
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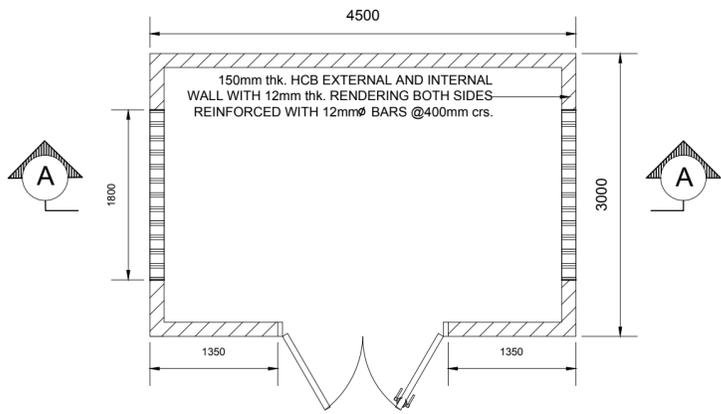
**JOB TITLE**  
 DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES

**TYPE OF DRAWING**  
 DESIGN DRAWINGS

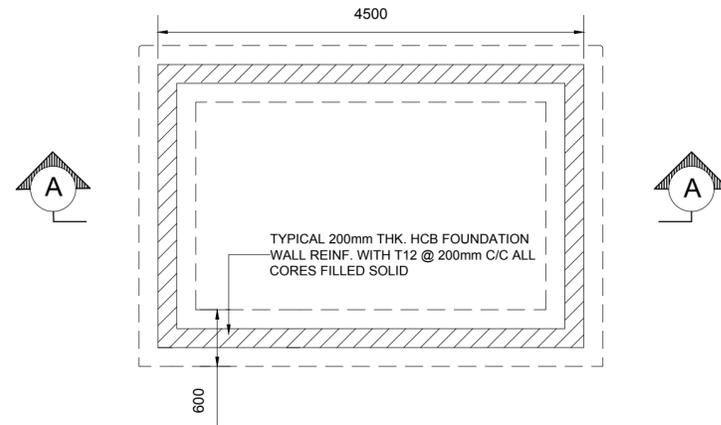
**FDL Consult Inc.**  
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 Tel. (758) 457 6400  
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 email: fdl@fdlconsultinc.com  
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**DRAWING TITLE**  
 ROOF BEAM LAYOUT AND DETAILS, GROUND AND ROOF SLAB CROSS SECTIONS

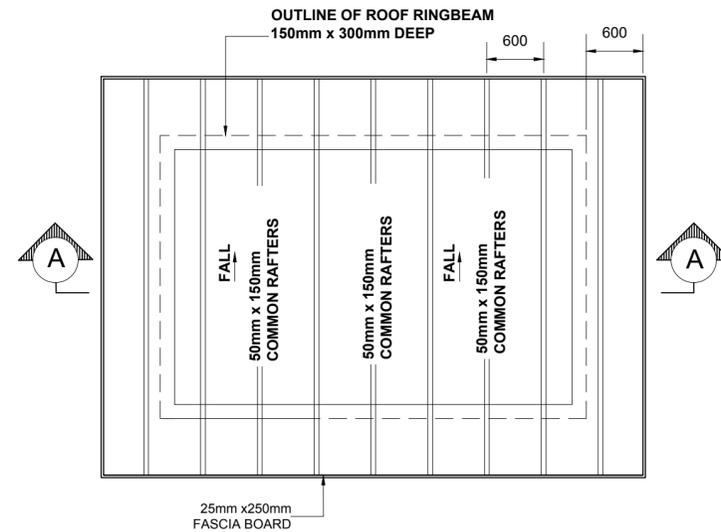
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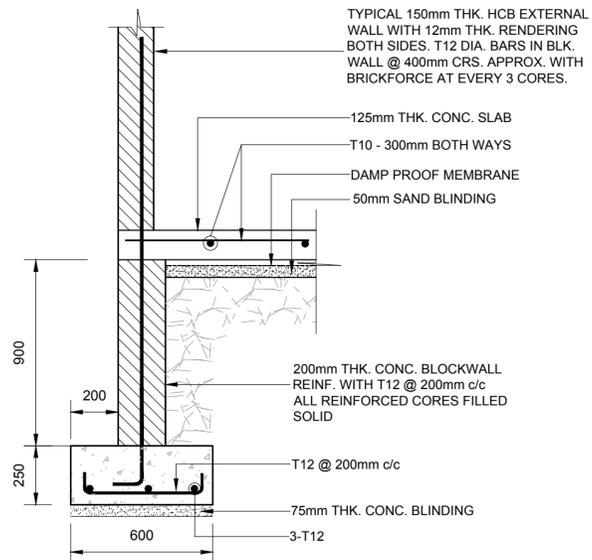
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S-05 SCALE 1:50



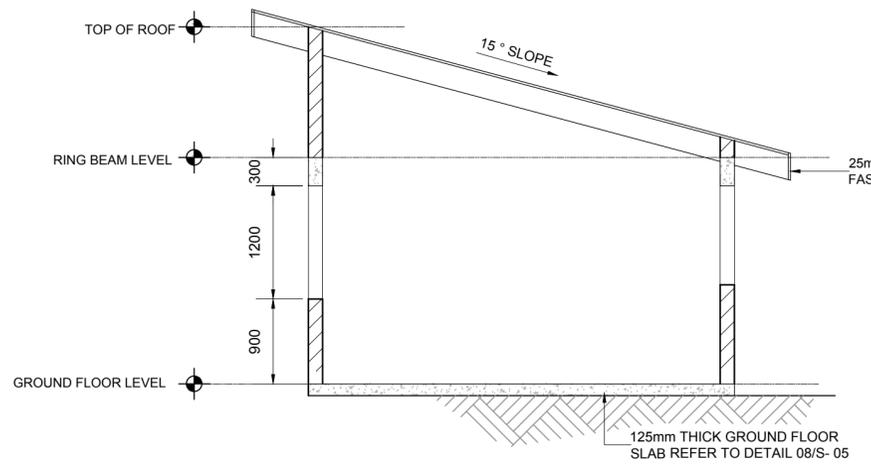
02 RAIN WATER HARVESTING UTILITY BUILDING- FOUNDATION PLAN  
S-05 SCALE 1:50



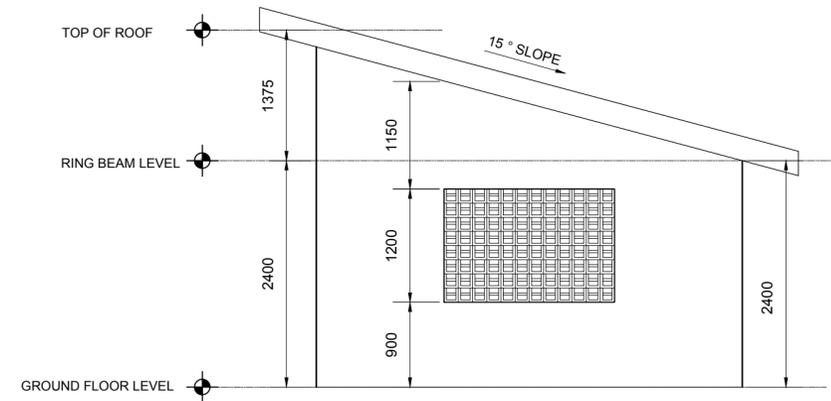
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S-05 SCALE 1:50



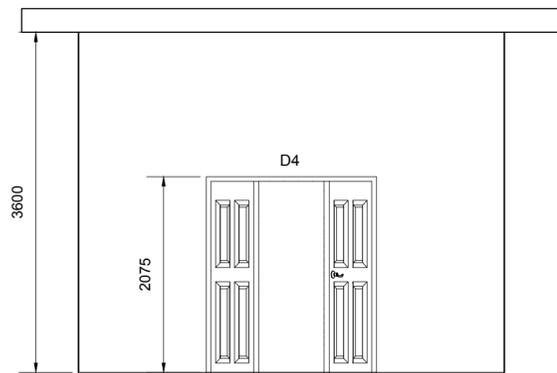
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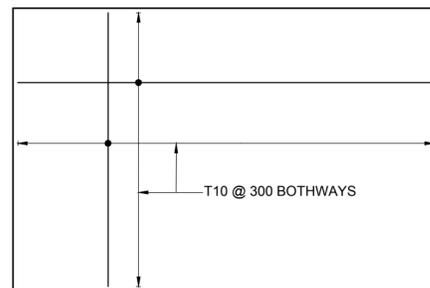
05 RAIN WATER HARVESTING UTILITY BUILDING-SECTION A-A  
S-05 SCALE 1:50



06 RAIN WATER HARVESTING UTILITY BUILDING-SIDE ELEVATION  
S-05 SCALE 1:50



07 RAIN WATER HARVESTING UTILITY BUILDING- FRONT ELEVATION  
S-05 SCALE 1:50



08 RAIN WATER HARVESTING UTILITY BUILDING- GROUND FLOOR SLAB REINFORCEMENT  
S-05 SCALE 1:50

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DESIGNER:	FDL CONSULT INC.	FDL
DRAWN BY:	KENT EMMANUEL	KE
CHECKED:	GILBERT FONTENARD	GF
APPROVED:	GILBERT FONTENARD	GF

ISSUED DATE:	OCTOBER 2015
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CLIENT TITLE  
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MINISTRY OF AGRICULTURE, INDUSTRY, FORESTRY, FISHERIES AND RURAL TRANSFORMATION

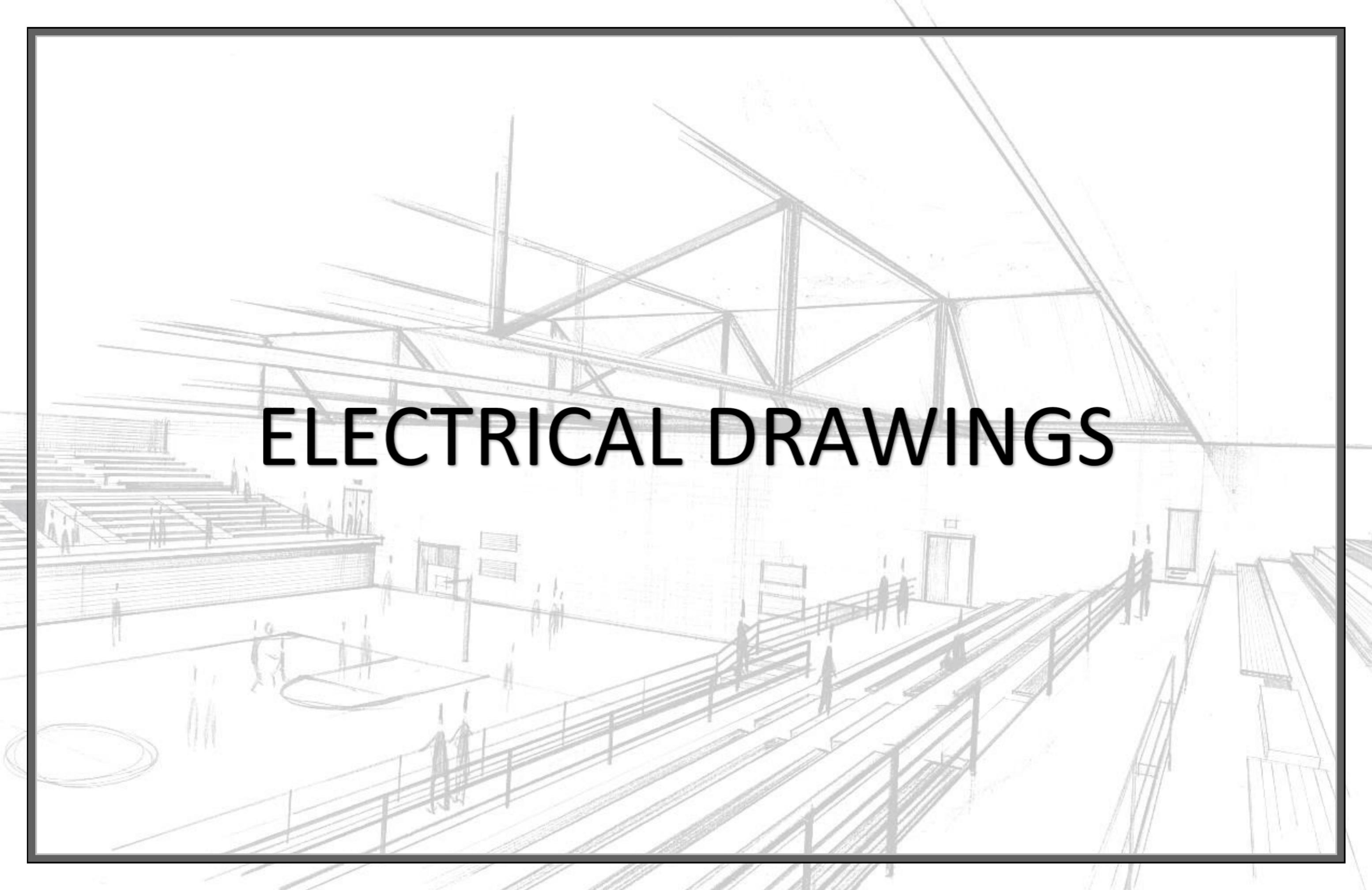
JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES
TYPE OF DRAWING	DESIGN DRAWINGS

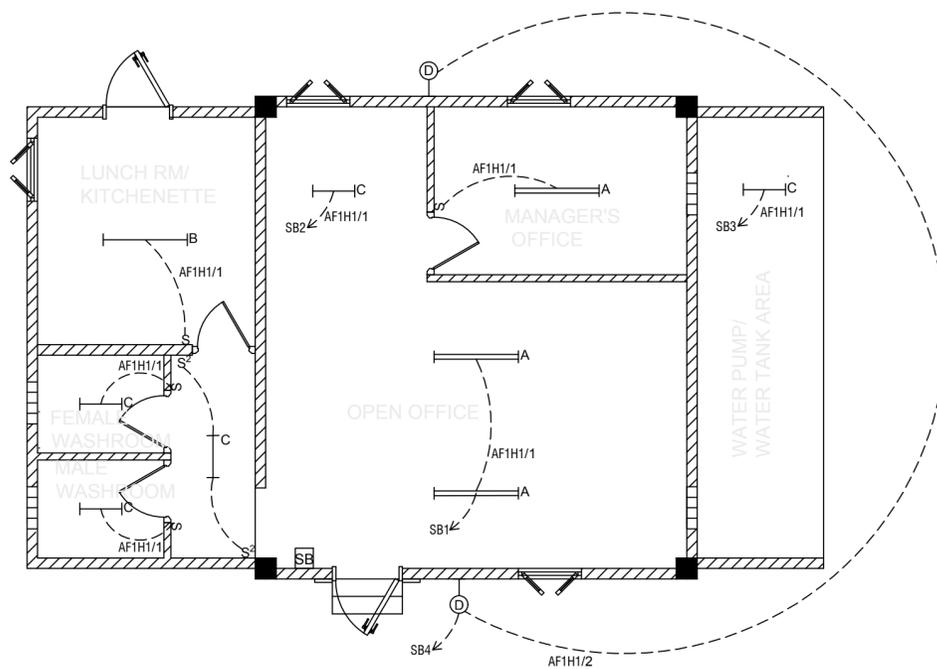


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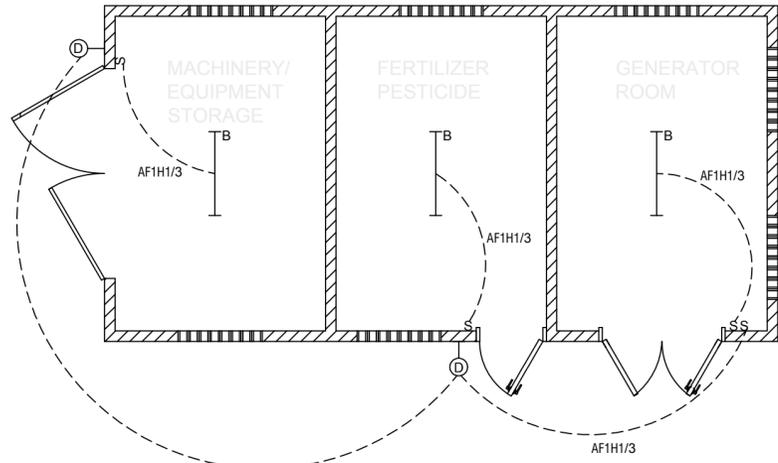
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SCALE	AS SHOWN
SIZE	A2
DRAWING NO	SLU -1510-S-027-GPF
SHEET	S-05

# ELECTRICAL DRAWINGS





01 PACKING FACILITY BUILDING - LIGHTING LAYOUT  
E-01 NTS

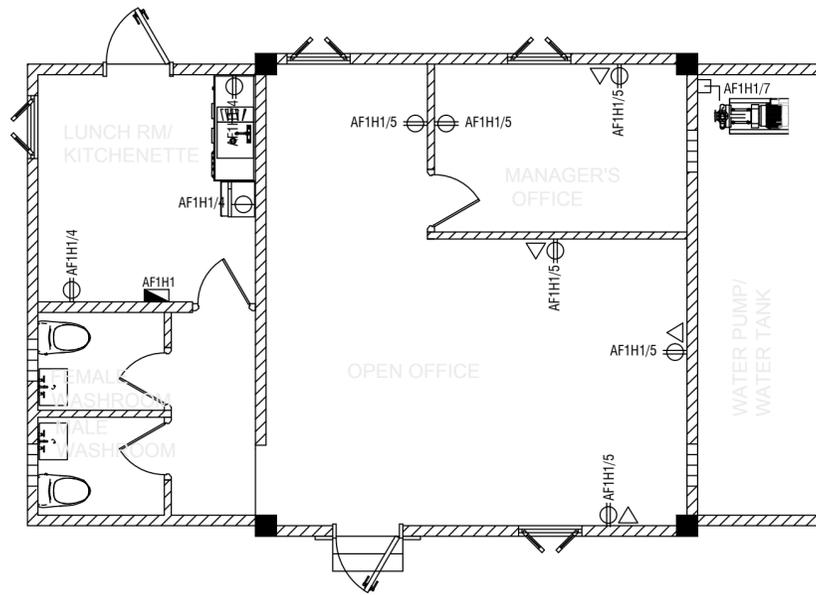


02 UTILITY BUILDING - LIGHTING LAYOUT  
E-01 NTS

- Legend**
- A— 4FT LED ENCLOSED FIXTURE TO IP65 C/W 2x18W 4 FT TUBULAR LED LAMP
  - B— 4FT LED ENCLOSED FIXTURE TO IP65 C/W 1x18W 4 FT TUBULAR LED LAMP
  - C— 2FT LED ENCLOSED FIXTURE TO IP65 C/W 1x9W 2 FT TUBULAR LED LAMP
  - ⊙ 40W LED WALL LAMP TO IP65
  - s 10A 1 WAY SWITCH
  - s² 10A 2 WAY SWITCH
  - SB SWITCH BANK

- NOTES**
- Do not scale from this drawing.
  - Field verify all conditions prior commencing with any work.
  - Dimensional discrepancies to be reported immediately to the architect.
  - This drawing to be read with all relevant architectural and interior designer drawings.
1. All conduit systems shall be blown dry using a compressor before the installation of any cable.
  2. All conduit ends shall be protected during construction to prevent the ingress of water, dirt and debris.
  3. Generally, all trunking and conduit shall run concealed wherever possible. Surface trunking runs will be allowed only where a concealed run is not possible and shall be to the approval of the engineer.
  4. The installation shall be wired on the loop-in system i.e. wiring shall terminate at definite points and no intermediate connections or joints shall be used.
  5. All switch boxes shall be installed recessed in all walls wherever possible.
  6. All light switches shall be mounted at 54" AFF except, where indicated otherwise.
  7. Switch boxes installed in close proximity to a door shall be at least six(6) inches from the finished edge of the door opening.
  8. See lighting fixture schedule for fixture details and manufacturer.
  9. See manufacturer lighting specification for mounting details.
  10. Sketch of conduit runs shall be provided by the electrical contractor and agreed to by the engineer before the installation of any conduit. The conduit runs shall then be examined by the engineer after installation before the installation of any cables.
  11. Type A, B C and D fixtures shall be LED fixtures or retrofitted as LED fixtures and the cost to do so shall be reflected in the material cost of the fixture.
  12. Type A, B and C fixtures shall be suspended using appropriate hangers in areas of exposed rafters.

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ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED		DRAWN BY:	JAMES CHARLES	JC <th rowspan="2">  </th> <th rowspan="2">DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES</th> <th>DRAWING TITLE</th> <td>ORANGE HILL - PARKING FACILITY BUILDING AND UTILITY BUILDING - LIGHTING LAYOUT</td>		DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES	DRAWING TITLE	ORANGE HILL - PARKING FACILITY BUILDING AND UTILITY BUILDING - LIGHTING LAYOUT
						CHECKED:	GILBERT FONTENARD	GF	JOB TITLE				SCALE
						APPROVED:	GILBERT FONTENARD	GF	TYPE OF DRAWING	DESIGN DRAWINGS <th>SIZE</th> <td>A2</td>	SIZE	A2	
						ISSUED DATE:	OCTOBER 2015		PROPERTY OF:		DRAWING NO	SLU-1510-S-027-GPF	
									FDL CONSULT INC.		SHEET	E-01	



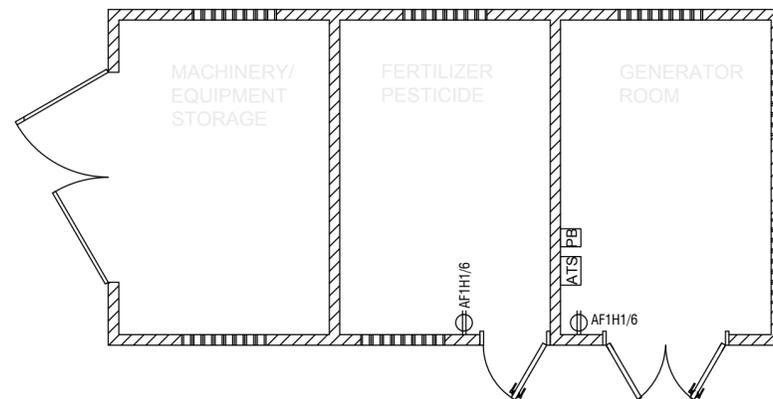
**Legend**

- ⊕ 240V 13A DUPLEX SOCKET OUTLET
- ⊕<sup>W</sup> 120V 15A DUPLEX SPLASHPROOF SOCKET OUTLET TO IP65
- ⊞ DOUBLE POLE ISOLATING SWITCH TO IP65
- △ VOICE/DATA POINT
- ▭ DISTRIBUTION PANEL
- ⊞ 63A MCCB IN ENCLOSURE
- ⊞ AUTOMATIC TRANSFER SWITCH

**NOTES**

- Do not scale from this drawing.
  - Field verify all conditions prior commencing with any work.
  - Dimensional discrepancies to be reported immediately to the architect.
  - This drawing to be read with all relevant architectural and interior designer drawings.
1. All power and communication outlet boxes shall be mounted at 18 inches above finished floor level, except where indicated otherwise.
  2. All conduit systems shall be blown dry using a compressor before the installation of any cable.
  3. All conduit ends shall be protected during construction to prevent the ingress of water, dirt and debris.
  4. Where receptacle boxes are installed recessed next to each other, there shall be a spacing of 1/2 inches between boxes. Where they are installed surface they shall touch each other with one two-compartment trunking feeding them. The power and communication boxes shall be installed as oriented on drawings.
  5. Generally, all trunking and conduit shall run concealed wherever possible. Surface trunking runs will be allowed only where a concealed run is not possible and shall be to the approval of the engineer.
  6. All receptacle boxes shall be installed recessed wherever possible.
  7. The installation shall be wired on the loop-in system i.e. wiring shall terminate at definite points and no intermediate connections or joints shall be used.
  8. All condensing units shall be fitted with appropriate isolating switches located in close proximity to the units.
  9. All small current (voice, data, etc.) conduit shall be 25mm heavy gauge PVC. A maximum of two(2) small current receptacle boxes will be linked before a home run to the small current main location.
  10. The small current conduits, cables, plates and modules shall be supplied by the contractor but the terminations shall be done by others.
  11. One 4 pair Cat5e cable shall run from the small current location in the electrical room to each voice/data box.
  12. The power, voice data, fire, security and PA systems shall each be afforded exclusive conduit systems.
  13. Sketch of conduit runs shall be provided by the electrical contractor and agreed to by the engineer before the installation of any conduit. The conduit runs shall then be examined by the engineer after installation before the installation of any cables.

01 PACKING FACILITY BUILDING - POWER LAYOUT  
E-02 NTS



01 UTILITY BUILDING - POWER LAYOUT  
E-02 NTS

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ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED		DRAWN BY:	JAMES CHARLES	JC <th rowspan="2">JOB TITLE</th> <td colspan="2">DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES</td> <th>SCALE</th> <td>SIZE <th>DRAWING NO</th> <th>SHEET</th> </td>	JOB TITLE	DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES			SCALE	SIZE <th>DRAWING NO</th> <th>SHEET</th>	DRAWING NO	SHEET
							CHECKED:	GILBERT FONTENARD	GF		PROPERTY OF:	FDL CONSULT INC.	TYPE OF DRAWING	DESIGN DRAWINGS	SCALE NTS	SIZE A2	DRAWING NO SLU-1510-S-027-GPF
							APPROVED:	GILBERT FONTENARD	GF								
							ISSUED DATE:	OCTOBER 2015									



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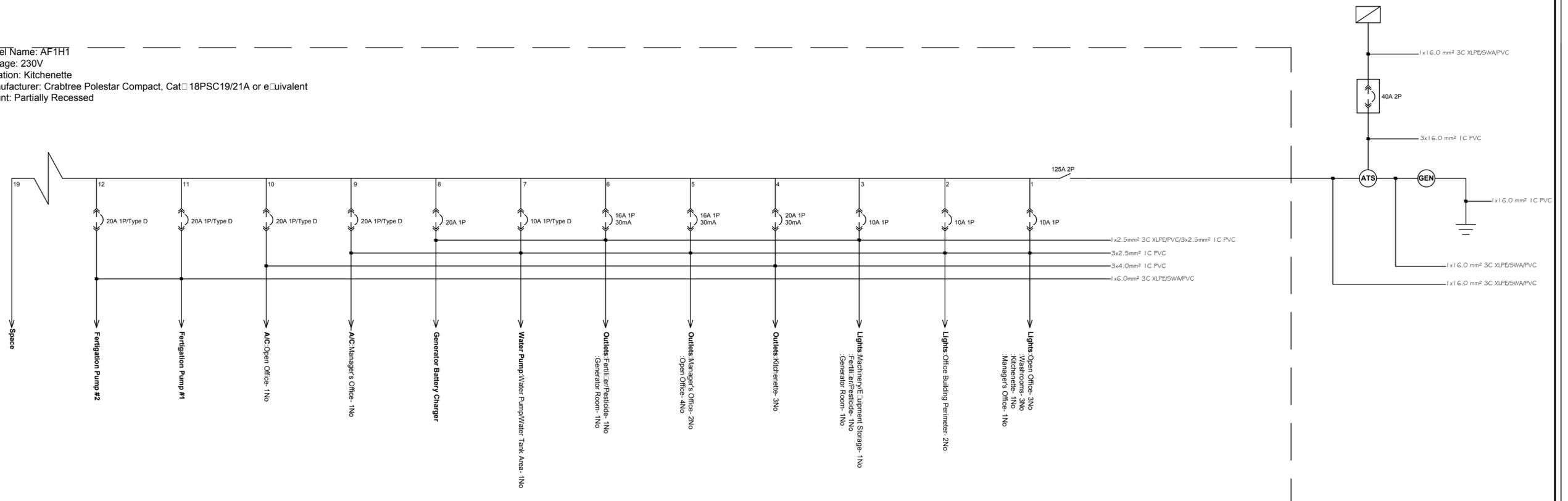
**NOTES:**

- All panels shall be fitted with appropriate incomer switches or circuit breakers and outgoing miniature circuit breakers or rcbo's as specified on drawings.
- All panels shall be of surface design and shall be semi recessed mounted.
- All internal isolating switches for electrical hardware shall be to IP55. All external switches and internal switches for electrical hardware in water prone areas shall be to IP65.
- All A/C system hardware shall be fitted with appropriate isolating switches.
- All cables shall be of the stranded high conductivity copper type. PVC or XLPE insulated only, and PVC-sheathed cables shall be 600/1000 volt grade to BS 6004:1969. Single wire armoured cable shall be 600/1000 volt grade to BS 5467:1969, and all cables shall carry the BASEC seal of approval.
- All cables shall be coloured in accordance with the I.E.E. Regulations.
- All circuit breakers are mcb's,rcbo's or mccb's with a 1 GkA rating except where indicated otherwise.
- See earthing and bonding details.
- Earth electrodes shall be tested to verify that the earth resistance values are within acceptable limits.

**Legend**

-  MCCB, MCB or RCBO
-  SWITCH
-  PV SYSTEM INVERTER
-  AUTOMATIC TRANSFER SWITCH
-  EARTH ELECTRODE
-  15kVA 230V 50Hz 1 PHASE GENERATOR SET

Panel Name: AF1H1  
 Voltage: 230V  
 Location: Kitchenette  
 Manufacturer: Crabtree Polestar Compact, Cat 18PSC19/21A or equivalent  
 Mount: Partially Recessed



**01 PANEL SCHEMATICS**  
 E-03 NTS

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ISSUE	DATE	NATURE OF CHANGE	ECN	BY	CHECKED		PROPERTY OF: FDL CONSULT INC.	JOB TITLE: DESIGN AND SUPERVISION OF THE CONSTRUCTION OF GREENHOUSE PARK FACILITIES	TYPE OF DRAWING: DESIGN DRAWINGS	SCALE: NTS	SIZE: A2	DRAWING NO: SLU-1510-S-027-GPF	SHEET: E-03	


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