



SUPERVED BY: ENG. WAHEDULLAH SULTANI
 DRAWN BY: ENG. WAHEDULLAH SULTANI
 DESIGNED BY: ENG. WAHEDULLAH SULTANI

CHECKED BY: ENG. NESAR AHMAD HADARY
 REVIEWED BY: ENG. POVA
 APPROVED BY: KHASHI

PROVINCE: KAPISA
 DISTRICT: NURAB

VILLAGE: NURAB

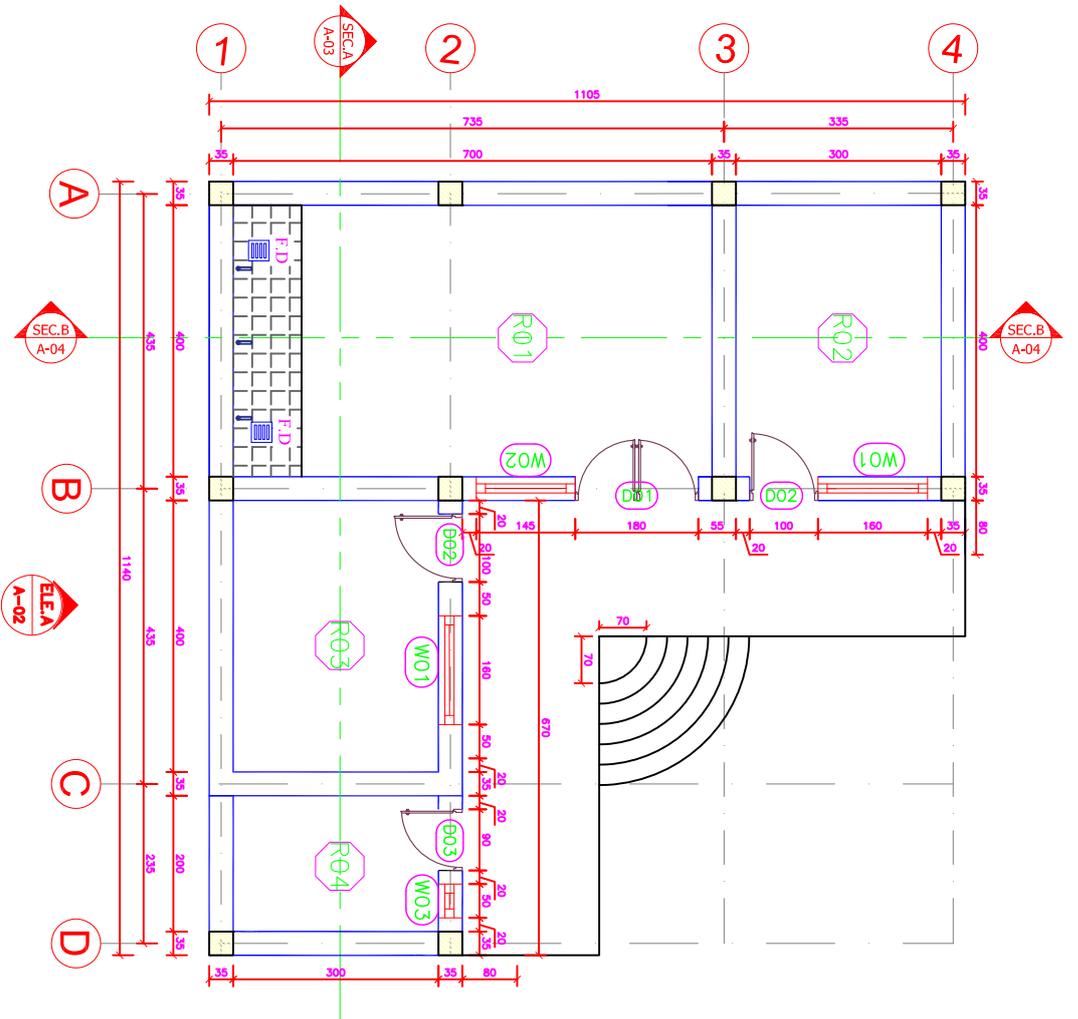
SCALE: SURVEY DATE: DESIGN DATE:

H.V. TOHT

PROJECT NAME: DAIRY PROCESSING CENTER
 DRAWING TITLE: FIRST FLOOR PLAN

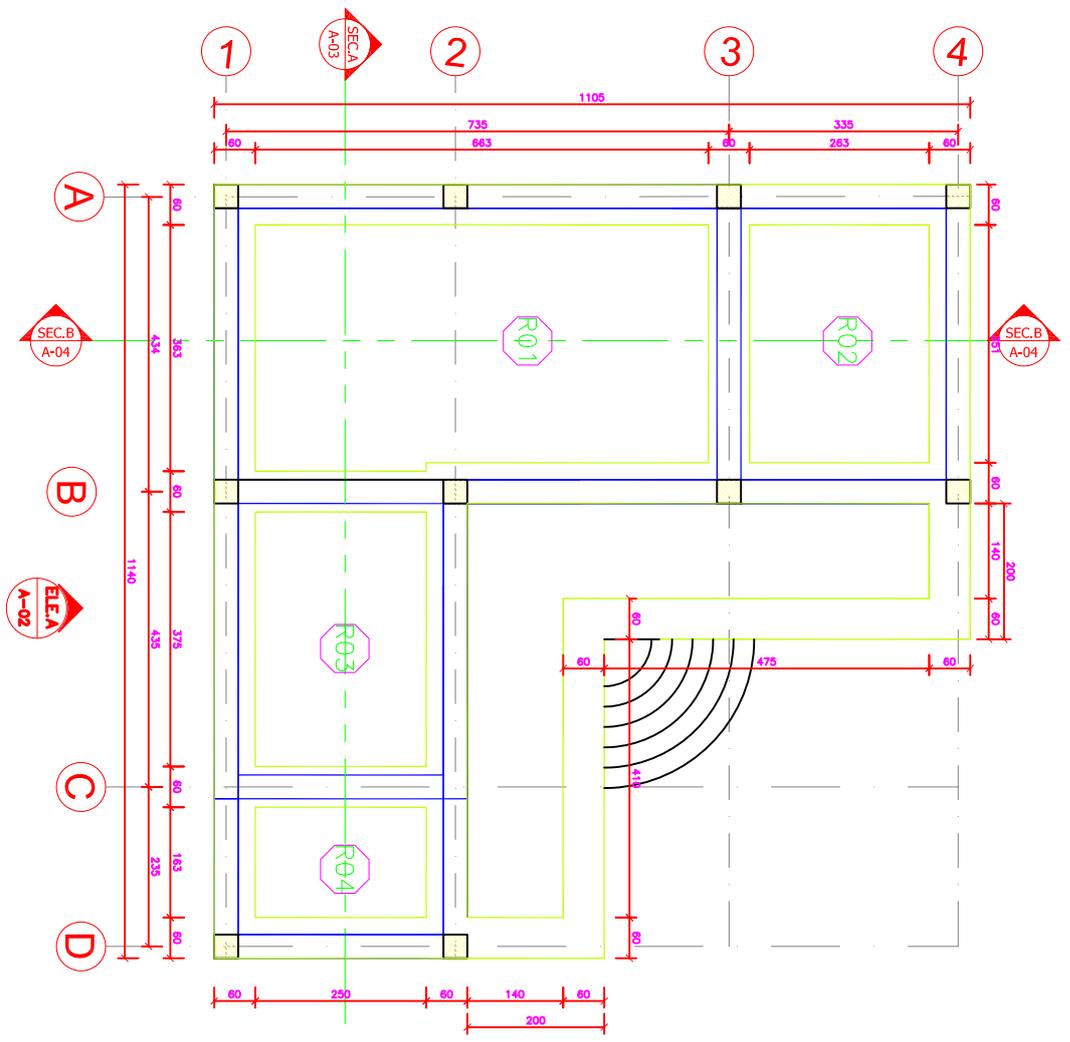
FIRST FLOOR PLAN

SCALE NTS



R01	Dairy Product Room (700x400)cm	D01	(180x250)cm
R02	Administrative Room (300x400)cm	D02	(1100x250)cm
R03	Laboratory Room (300x400)cm	D03	(90x250)cm
R04	Toilet Room (300x200)cm	W01	(1600x140)cm
		W02	(1450x140)cm
		W03	(50x50)cm

FOUNDATION PLAN
 REF SCALE NTS





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 REVIEWED BY: ENG. POYA
 APPROVED BY: KHASHI

PROVINCE: KAPISA
 DISTRICT: MURGAB
 VILLAGE:

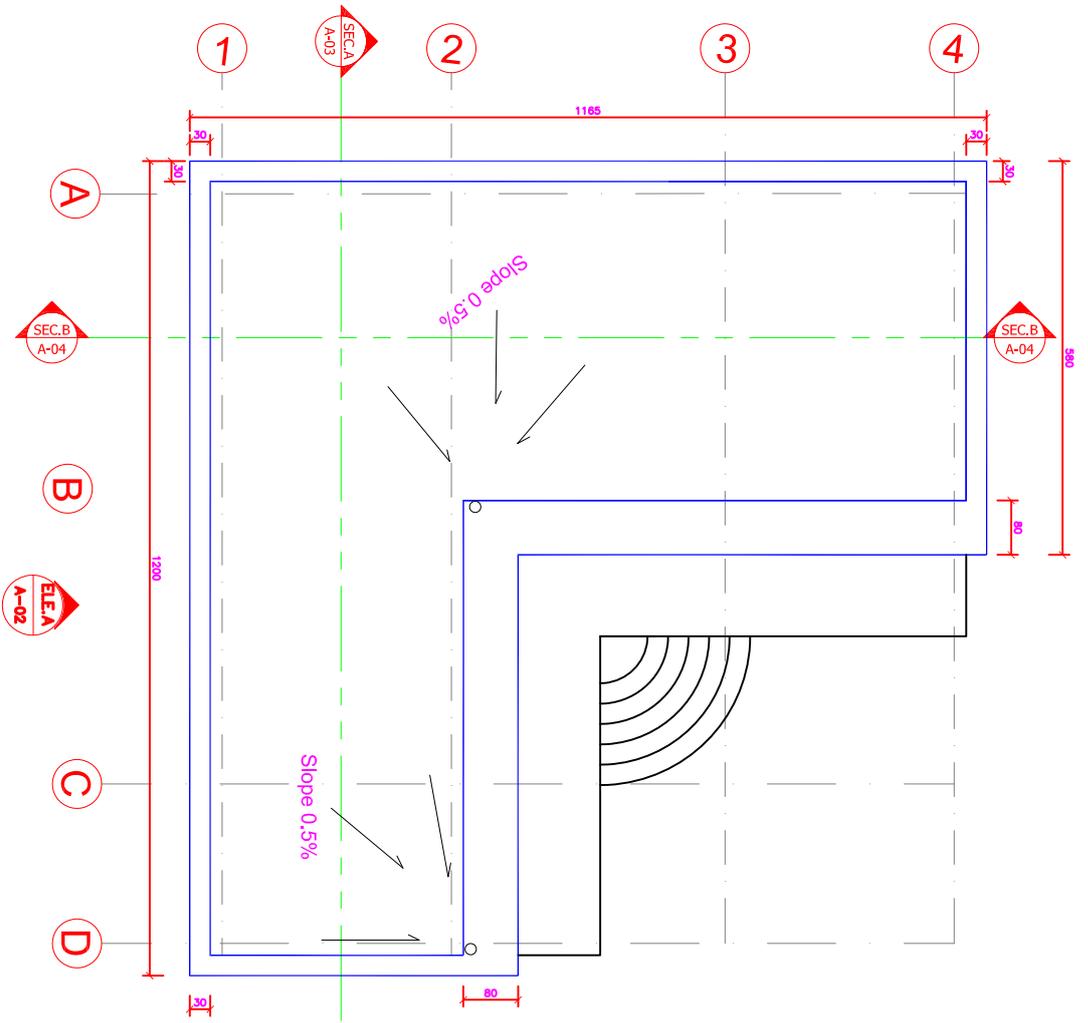
SCALE:
 SURVEY DATE:
 DESIGN DATE:

PROJECT NAME:
 DAIRY PROCESSING CENTER
 DRAWING TITLE:
 ROOF PLAN

SHEET NO:
 3
 6

ROOF PLAN

SCALE NTS





SURVEYED BY: ENG. WAHEDULLAH SULTANI
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 DESIGNED BY: ENG. WAHEDULLAH SULTANI

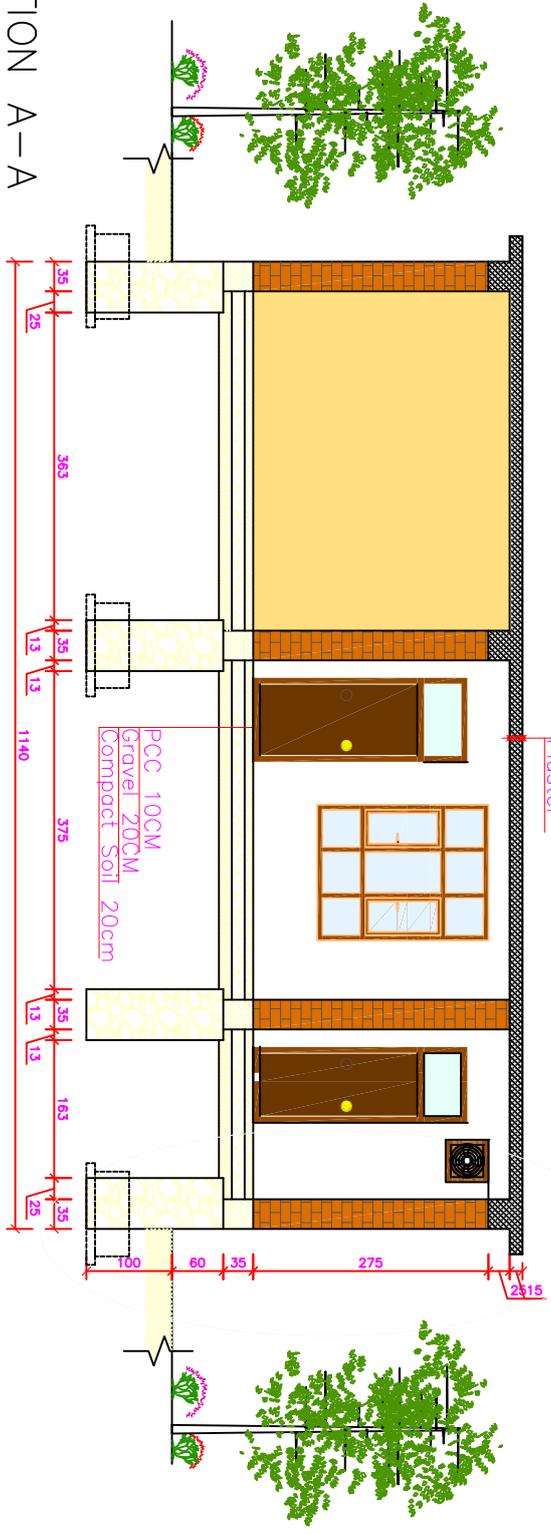
CHECKED BY: ENG. NESAR AHMAD HADARY
 REVIEWED BY: ENG. POYA
 APPROVED BY: KHASHI

PROVINCE: KAPISA
 DISTRICT: MURGAB
 VILLAGE:

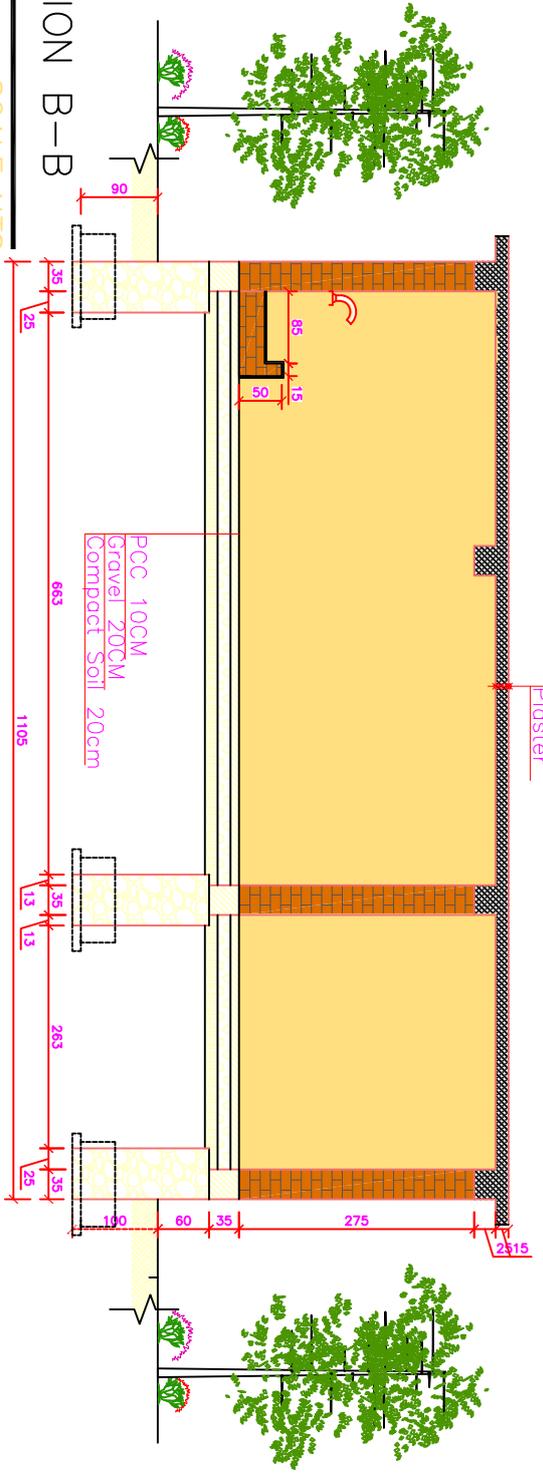
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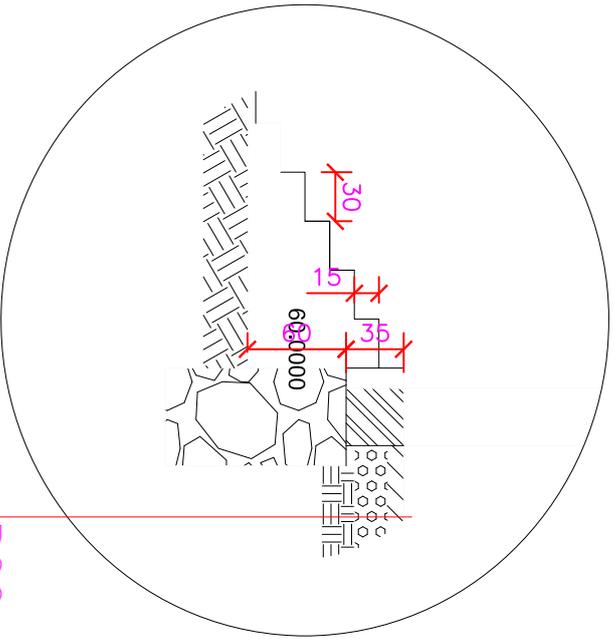
PROJECT NAME:
 DAIRY PROCESSING CENTER
 DRAWING TITLE:
 SECTIONS A-A & B-B

SECTION A-A
 SCALE NTS



SECTION B-B
 SCALE NTS





07 DETAIL -B

REF

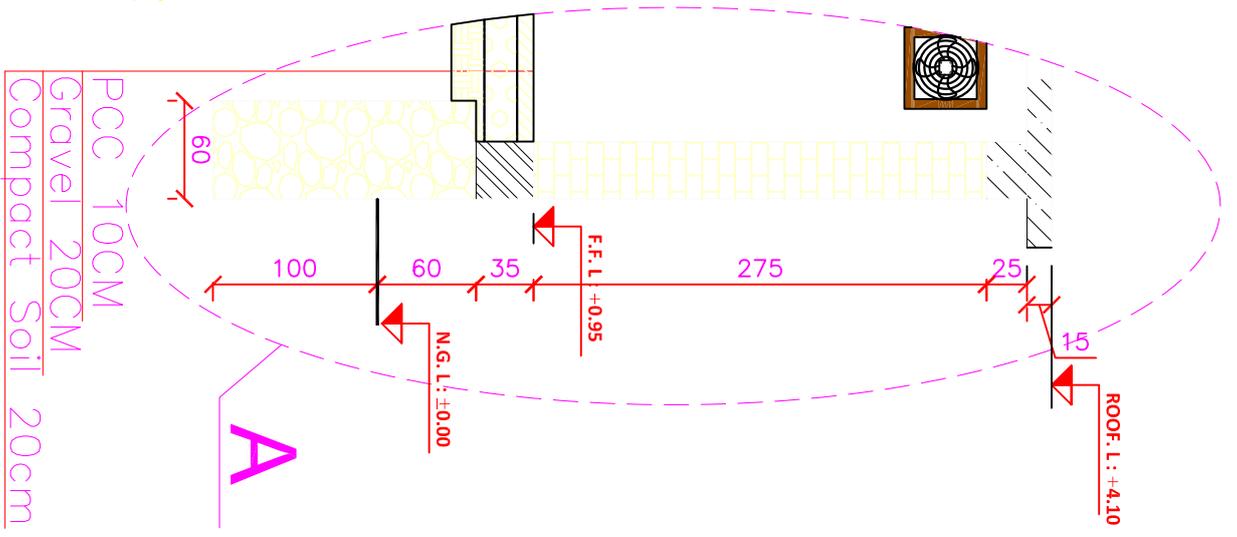
SCALE NTS

PCC 10CM
Gravel 20CM
Compact Soil 20cm

08 DETAIL -A

REF

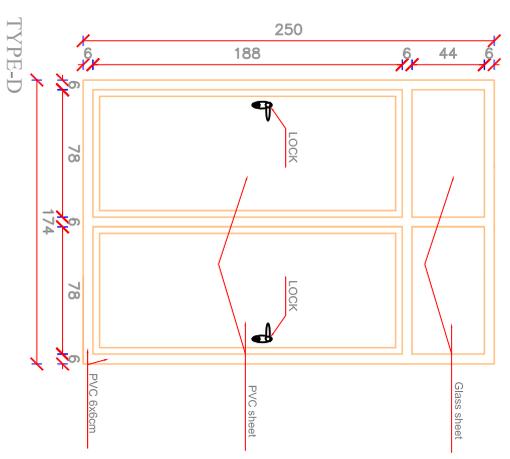
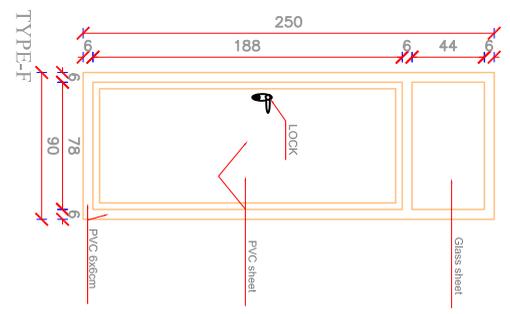
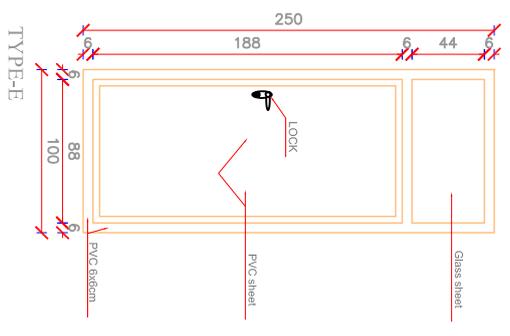
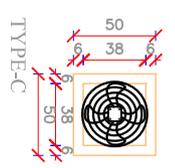
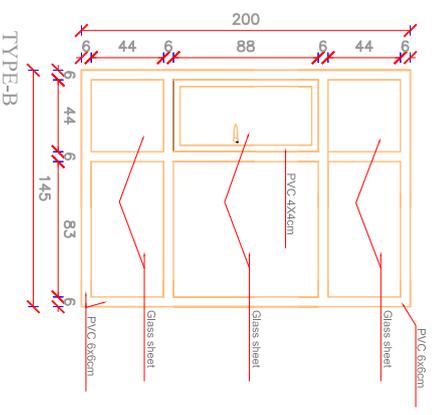
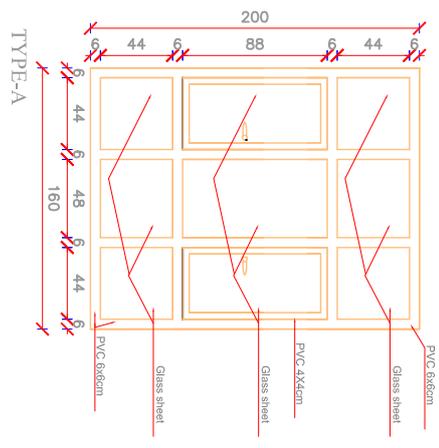
SCALE NTS



PCC 10CM
Gravel 20CM
Compact Soil 20cm

A

AFGHANISTAN CARE International ABADEE 2.0 Project Kapisa		SURVEYED BY DRAWN BY DESIGNED BY		ENG. WAHEDULLAH SULTANI ENG. WAHEDULLAH SULTANI ENG. WAHEDULLAH SULTANI		CHECKED BY REVIEWED BY APPROVED BY		ENG. NESRAN AHMAD HADARY ENG. POYA KHASHI		PROVINCE DISTRICT VILLAGE		KAPISA MURGAB		SCALE SURVEY DATE DESIGN DATE		H.V. TOHT PROJECT NAME: DAIRY PROCESSING CENTER DRAWING TITLE: DETAILS A AND B	
																SHEET NO 	



DOORS AND WINDOW SCHEDULE									
WINDOWS									
NO	LOCATION	TYPE	MATL	WIDTH	HEIGHT	THICK	NO		
FIRST FLOOR									
W01	ROOM R(2.3)	A	PVC	160	200	6	2		
W02	ROOM R(1)	B	PVC	145	200	6	1		
W03	ROOM R(0)	C	PVC	50	50	6	1		
DOORS									
D01	ROOM R(1)	D	PVC	74	250	6	1		
D02	ROOM R(2.3)	E	PVC	100	250	6	2		
D03	ROOM R(5.0)	F	PVC	90	250	6	1		



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 REVIEWED BY: ENG. POVA
 APPROVED BY: KHAISHI

PROVINCE: KAPISA
 DISTRICT: MURGAB
 VILLAGE:

SCALE:
 SURVEY DATE:
 DESIGN DATE:

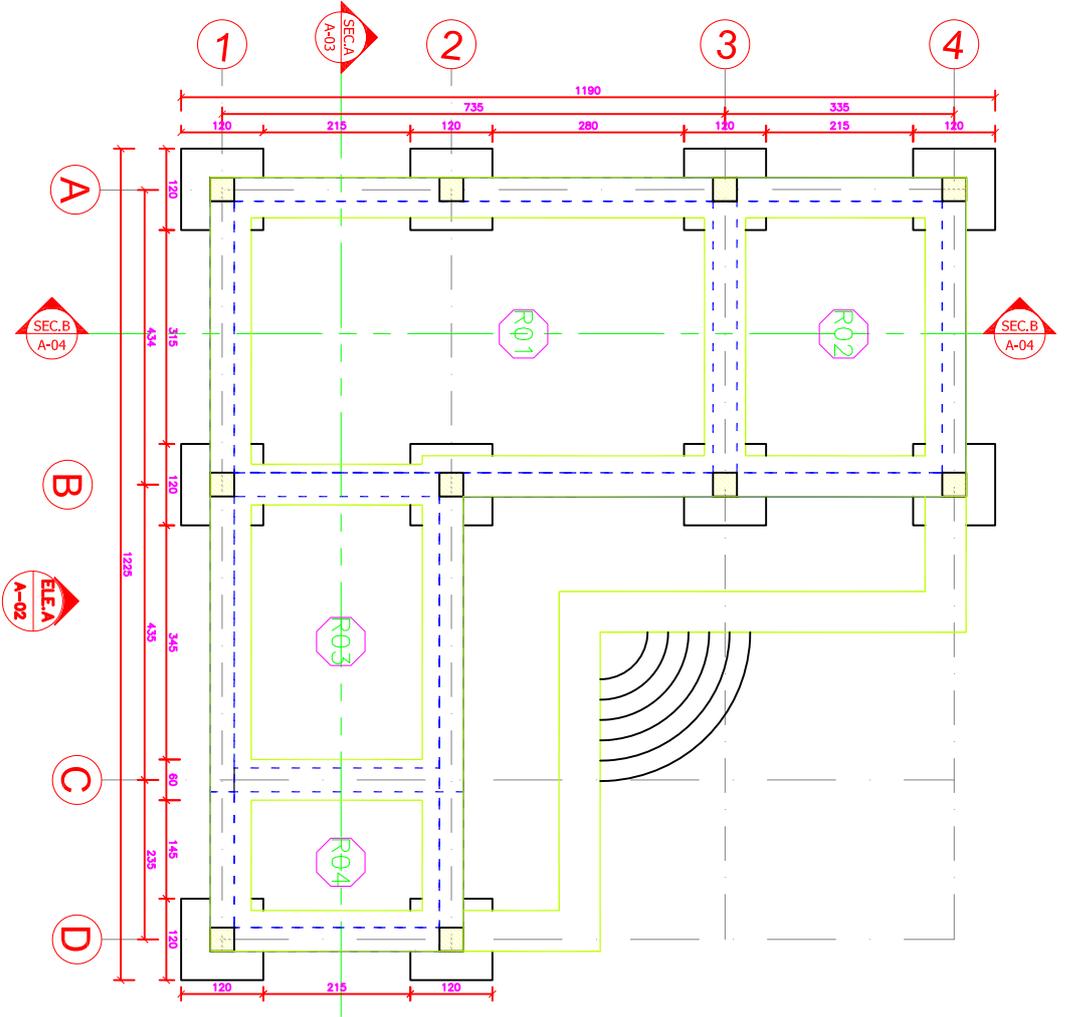
H.V. TOHT

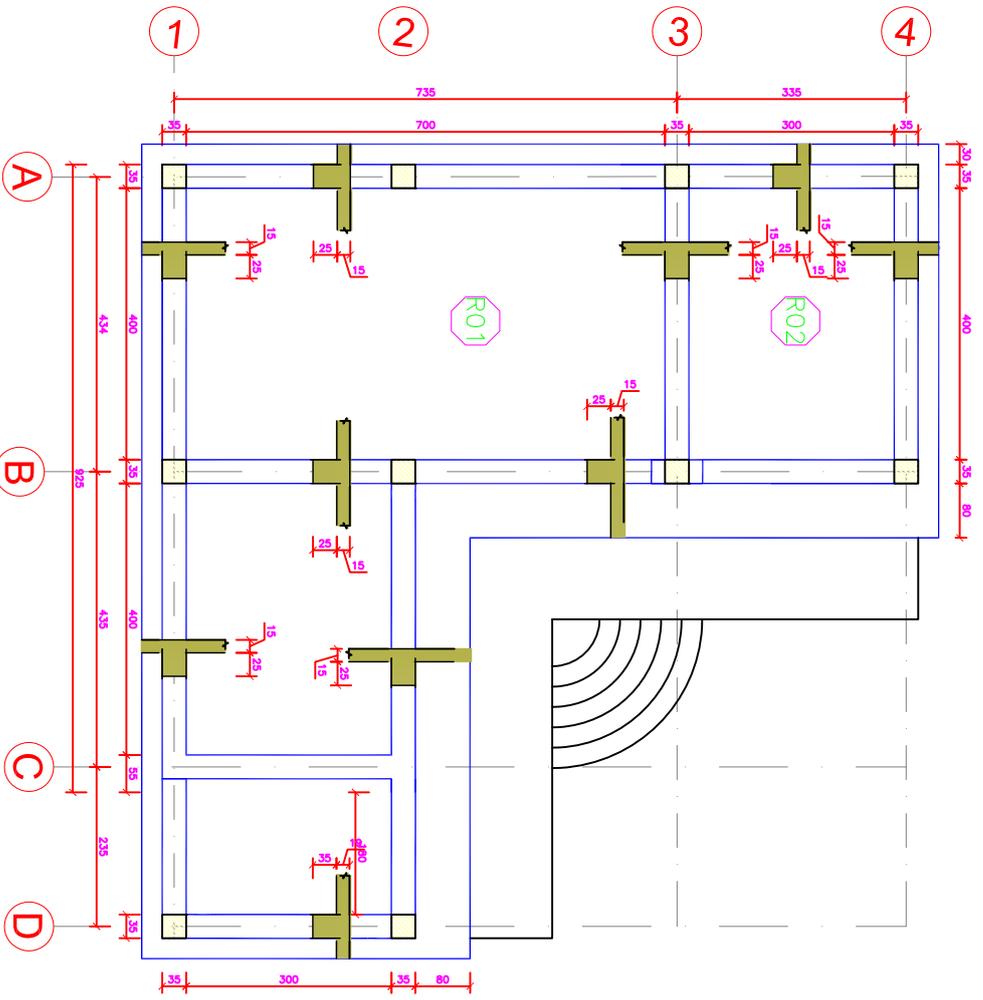
PROJECT NAME:
 DAIRY PROCESSING CENTER
 DRAWING TITLE:
 FOUNDATION PLAN

SHEET NO
 1
 8

FOUNDATION PLAN

SCALE NTS





SHATTERING PLAN

REF

SCALE NTS

SURVEYED BY
DRAWN BY
DESIGNED BY

ENG. WAHEDULLAH SULTANI
ENG. WAHEDULLAH SULTANI
ENG. WAHEDULLAH SULTANI

CHECKED BY
REVIEWED BY
APPROVED BY

ENG. NESAR AHMAD HADARY
ENG. POVA
KAHASHI

PROVINCE
DISTRICT
VILLAGE

KAPISA
MURAB

SCALE
SURVEY DATE
DESIGN DATE

H.V. TOHT

PROJECT NAME:
DARY PROCESSING CENTER
DRAWING TITLE:
SHATTERING PLAN

SHEET NO
2
8





SURVEYED BY: ENG. WAHEDULLAH SULTANI
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PROVINCE: KAPISA
 DISTRICT: MURGAB
 VILLAGE: A&D

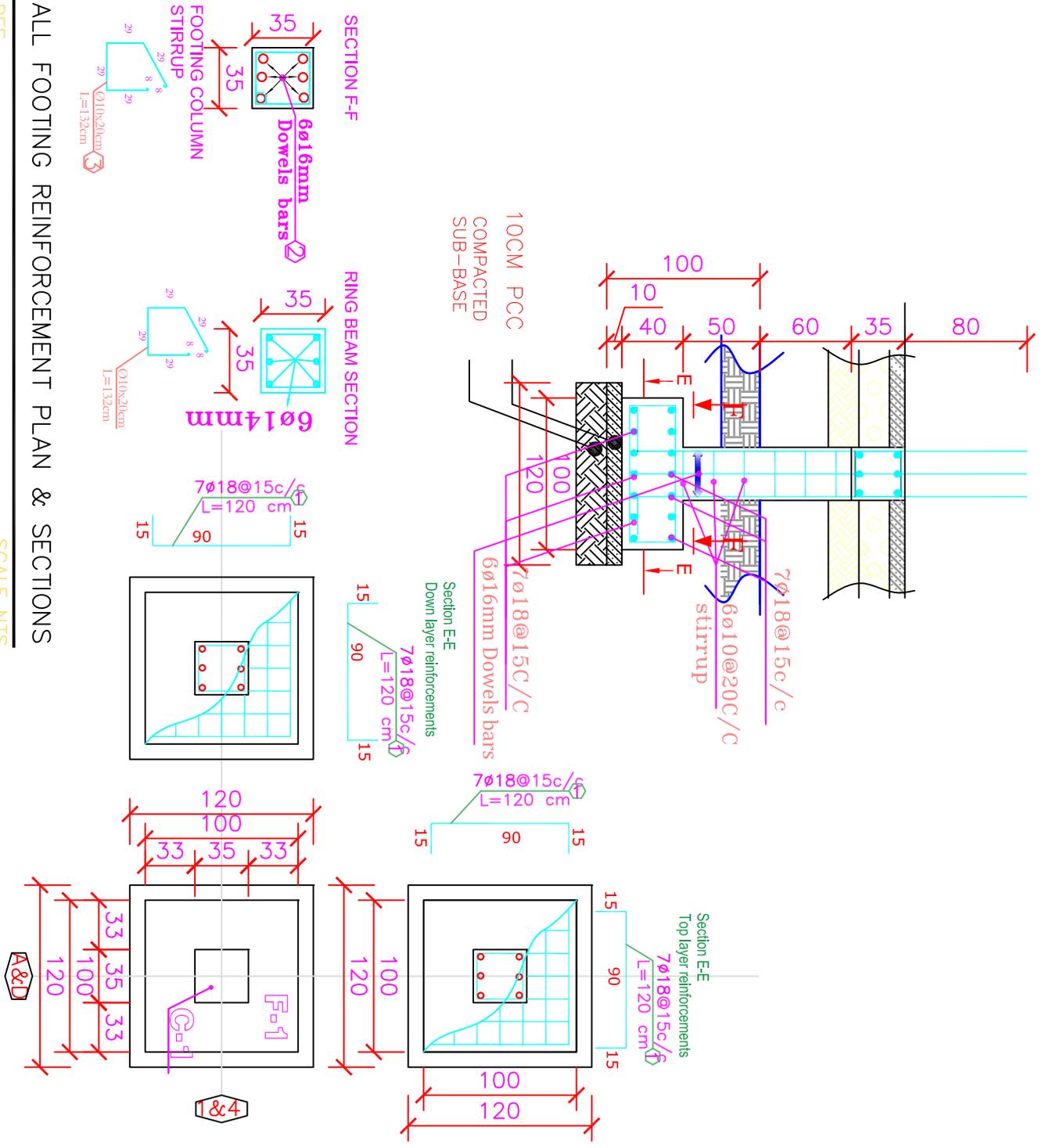
SCALE: H/V TOHT
 SURVEY DATE: _____
 DESIGN DATE: _____

PROJECT NAME: DAIRY PROCESSING CENTER
 DRAWING TITLE: ALL FOOTING REINFORCEMENT PLAN & SECTIONS

ALL FOOTING REINFORCEMENT PLAN & SECTIONS

REF

SCALE NTS



SECTION F-F

RING BEAM SECTION

Section E-E
Down layer reinforcements

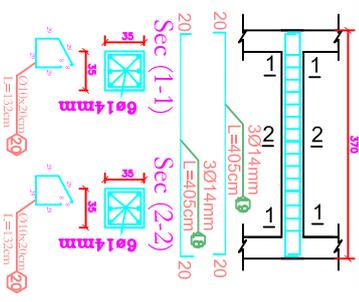
Section E-E
Top layer reinforcements

A&D

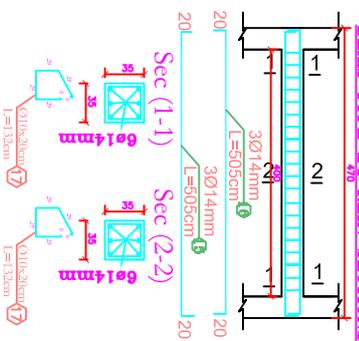
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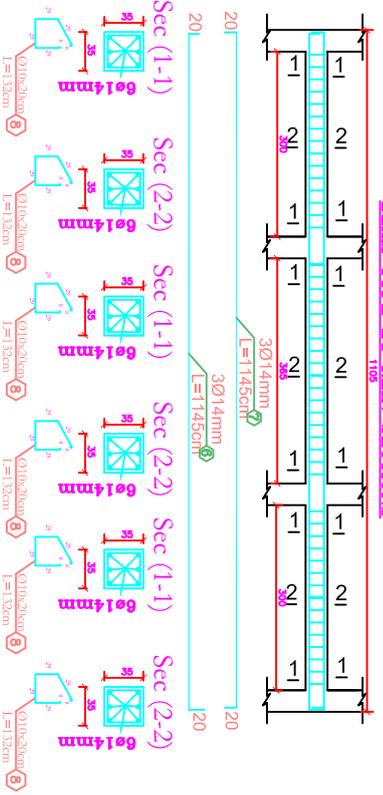
BEAM TYPE B5 REIN SECTIONS



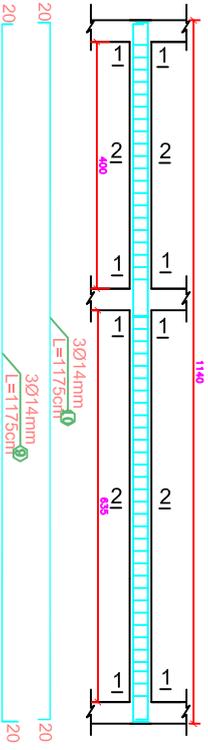
BEAM TYPE B4 REIN SECTIONS



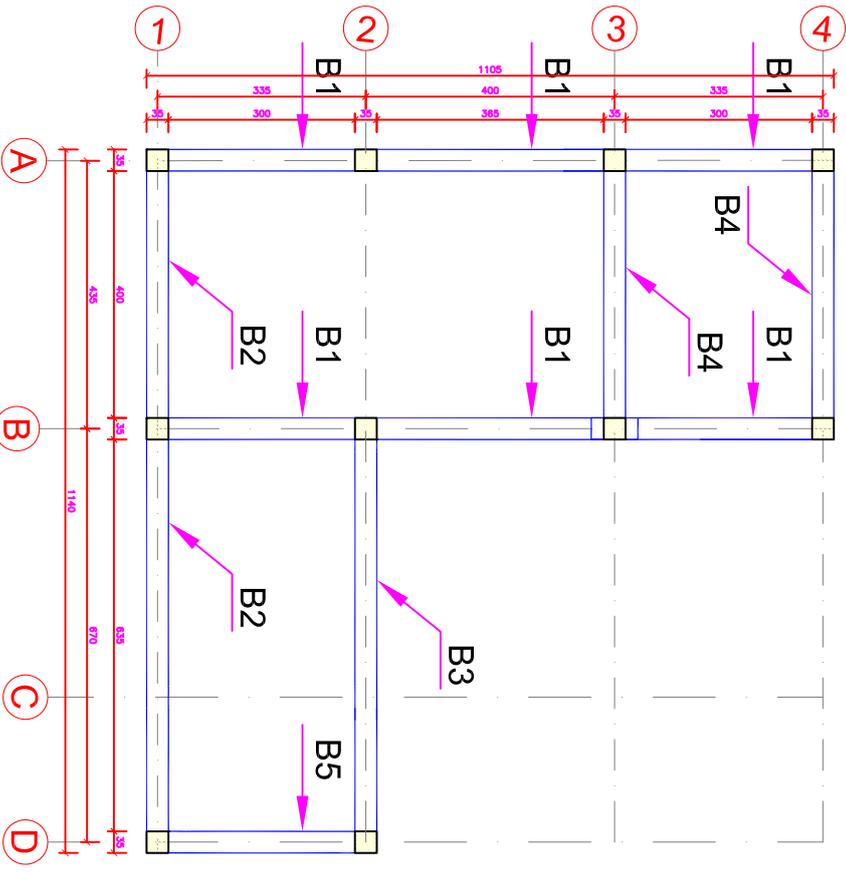
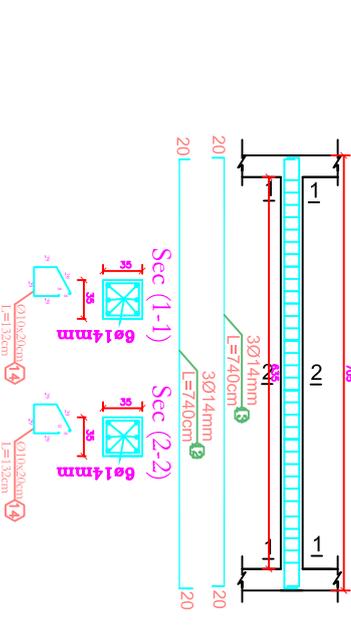
BEAM TYPE B1 REIN SECTIONS



BEAM TYPE B2 REIN SECTIONS



BEAM TYPE B3 REIN SECTIONS



RING BEAM REINFORCEMENT PLAN & SECTIONS

REF

SCALE NTS



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DRAWN BY	ENG. WAHEDULLAH SULTANI	REVIEWED BY	ENG. POVA
DESIGNED BY	ENG. WAHEDULLAH SULTANI	APPROVED BY	KHASHI

PROVINCE	KAPISA	SCALE	H/V TOHT
DISTRICT	MURGAB	SURVEY DATE	
VILLAGE		DESIGN DATE	

PROJECT NAME:	DAIRY PRODUCTION CENTRE
DRAWING TITLE:	RING BEAM REINFORCEMENT PLAN & SECTIONS



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APPROVED BY: KHASHI

PROVINCE: KAPISA
DISTRICT: MURGAB
VILLAGE:

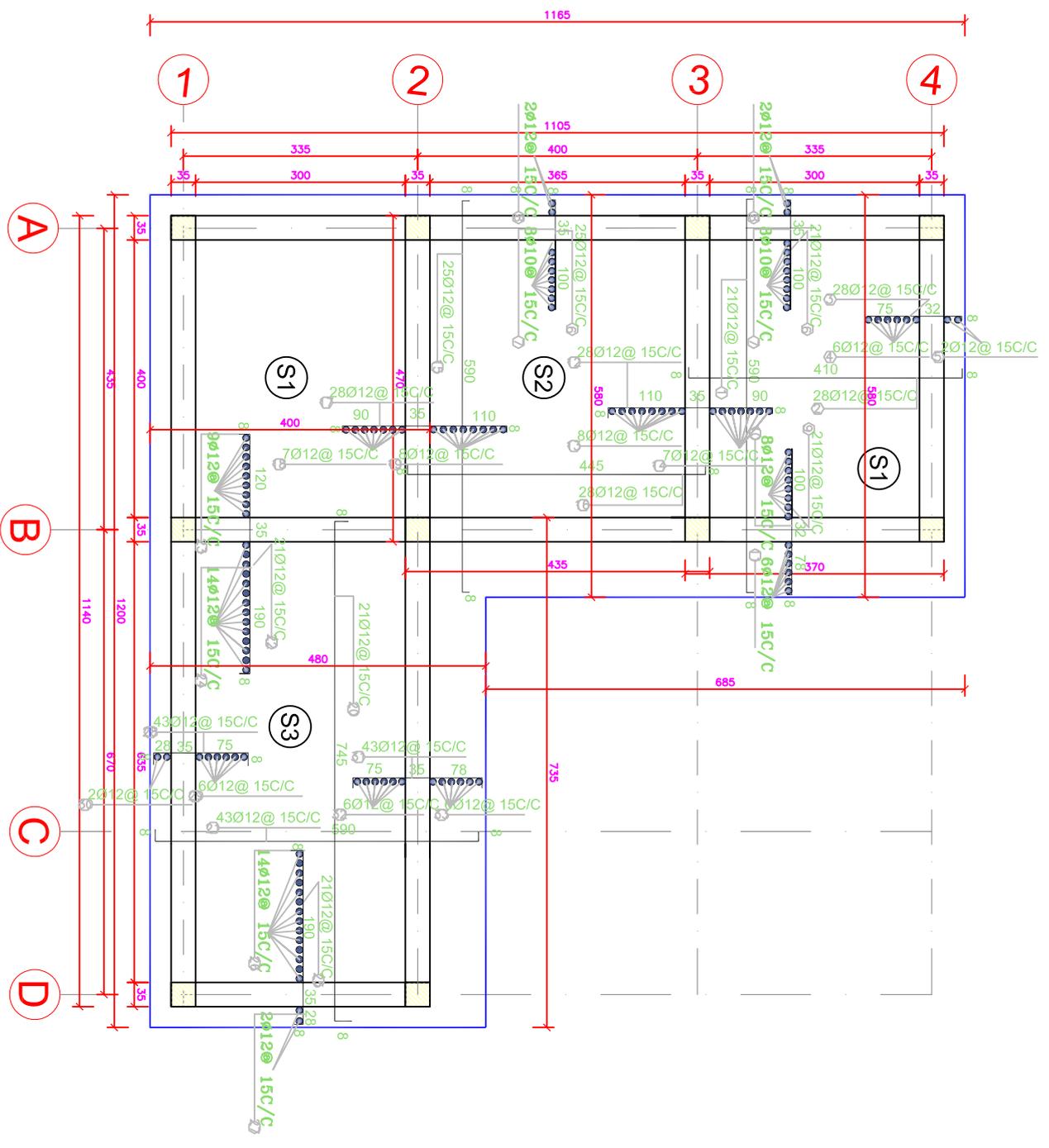
SCALE:
SURVEY DATE:
DESIGN DATE:

PROJECT NAME:
DAIRY PRODUCTION CENTER
DRAWING TITLE:
SLAB REINFORCEMENT PLAN

REF

SLAB REINFORCEMENT PLAN

SCALE: NTS



Bar Nominatio n Number (#)	Bar Location	Bar Dia (mm)	Num of Bar	No of MEMBER	Length (m)	Spacing	Total Length	Weight (kg/m)	Total Weight (kg)	Total Weight +5%(kg)	Shape of Bar
1	FOOTING	18	28	10	1.2	15cm	336.00	1.998	671.3	704.90	
2	DOWELS BAR	16	6	10	2.85		79.20	1.579	125.0	131.28	
3	STIRRUP	10	6	10	1.32	20cm	79.20	0.617	48.8	51.28	
4	COLUMN BARS	16	6	10	3.3		198.00	1.579	312.6	328.21	
5	Column Stirrup	10	14	10	1.4	20cm	196.00	0.617	120.9	126.91	
6	Ring Beam B1	14	3	2	11.45		68.70	1.209	83.0	87.19	
7	Ring Beam B1	14	3	2	11.45		68.70	1.209	83.0	87.19	
8	ring beam stirrup	10	50	2	1.32	20cm	132.00	0.617	81.4	85.47	
9	Ring Beam B2	14	3	1	11.75		35.25	1.209	42.6	44.74	
10	Ring Beam B2	14	3	1	11.75		35.25	1.209	42.6	44.74	
11	ring beam stirrup	10	52	2	1.32	20cm	68.64	0.617	42.3	44.44	
12	Ring Beam B3	14	3	1	7.4		22.20	1.209	26.8	28.17	
13	Ring Beam B3	14	3	1	7.4		22.20	1.209	26.8	28.17	
14	ring beam stirrup	10	33	1	1.32	20cm	43.56	0.617	26.9	28.21	
15	Ring Beam B4	14	3	2	5.05		30.30	1.209	36.6	38.45	
16	Ring Beam B4	14	3	2	5.05		30.30	1.209	36.6	38.45	
17	ring beam stirrup	10	21	2	1.32	20cm	55.44	0.617	34.2	35.90	
18	Ring Beam B5	14	3	1	4.05		12.15	1.209	14.7	15.42	
19	Ring Beam B5	14	3	1	4.05		12.15	1.209	14.7	15.42	
20	ring beam stirrup	10	16	1	1.32	20cm	21.12	0.617	13.0	13.68	
Total Weight of 18mm											
704.90											
Total Weight of 16mm											
459.49											
Total Weight of 14mm											
427.94											
Total Weight of 10mm											
385.88											
Total Weight Drop Reinforcement											
1984.01											
Total Weight of Reinforcement+5%											
1978.21											

Bar Nominatio n Number (#)	Bar Location	Bar Dia (mm)	Num of Bar	No of MEMBER	Length (m)	Spacing	Total Length	Weight (kg/m)	Total Weight (kg)	Total Weight +5%(kg)	Shape of Bar
1	Beam B1	14	4	2	11.45		91.60	1.209	110.7	116.25	
2	Beam B1	14	2	2	11.45		45.80	1.209	55.4	58.12	
3	Beam B1	14	2	2	1.3		5.20	1.209	6.3	6.60	
4	Beam B1	14	2	2	2.35		9.40	1.209	11.4	11.93	
5	Beam B1	14	2	2	2.35		9.40	1.209	11.4	11.93	
6	Beam B1	14	2	2	1.3		5.20	1.209	6.3	6.60	
7	beam stirrup	10	50	2	1.32	20cm	132.00	0.617	81.4	85.47	
8	Beam B2	14	4	2	11.75		94.00	1.209	113.6	119.50	
9	Beam B2	14	2	2	11.75		47.00	1.209	56.8	59.65	
10	Beam B2	14	2	2	1.5		6.00	1.209	7.3	7.61	
11	Beam B2	14	2	2	3.45		13.80	1.209	16.7	17.51	
12	Beam B2	14	2	2	2.4		9.60	1.209	11.6	12.18	
13	beam stirrup	10	52	2	1.32	20cm	137.28	0.617	84.7	88.89	
14	Beam B3	14	4	2	5.05		40.40	1.209	24.4	25.64	
15	Beam B3	14	2	2	5.05		20.20	1.209	12.2	12.76	
16	Beam B3	14	2	2	1.5		6.00	1.209	7.3	7.61	
17	Beam B3	14	2	2	1.5		6.00	1.209	7.3	7.61	
18	beam stirrup	10	21	2	1.32	20cm	55.44	0.617	34.2	35.90	
19	Beam B4	14	4	2	4.05		32.40	1.209	39.2	41.12	
20	Beam B4	14	2	2	4.05		16.20	1.209	19.6	20.56	
21	Beam B4	14	2	2	1.3		5.20	1.209	6.3	6.60	
22	Beam B4	14	2	2	1.3		5.20	1.209	6.3	6.60	
23	beam stirrup	10	16	2	1.32	20cm	42.24	0.617	26.0	27.35	
Total Weight of 14mm											
594.70											
Total Weight of 10mm											
237.61											
Total Weight Drop Reinforcement											
792.67											
Total Weight of Reinforcement+5%											
832.31											

Bar Nominatio n Number (#)	Bar Location	Bar Dia (mm)	Num of Bar	No of MEMBER	Length (m)	Spacing	Total Length	Weight (kg/m)	Total Weight (kg)	Total Weight +5%(kg)	Shape of Bar
1	SLAB	12	21	2	5.9	15cm	247.80	0.888	220.0	231.05	
2	SLAB	12	28	2	4.1	15cm	229.60	0.888	203.9	214.08	
3	SLAB	12	28	2	1.46	15cm	81.76	0.888	72.6	76.23	
4	SLAB	12	6	2	5.9	15cm	70.80	0.888	62.9	66.01	
5	SLAB	12	2	2	5.9	15cm	23.60	0.888	21.0	22.00	
6	SLAB	12	67	2	1.7	15cm	227.80	0.888	202.3	212.40	
7	SLAB	12	8	1	11.75	15cm	94.00	0.888	83.5	87.65	
8	SLAB	12	2	1	11.75	15cm	23.50	0.888	20.9	21.91	
9	SLAB	12	21	2	2.2	15cm	92.40	0.888	82.1	86.15	
10	SLAB	12	8	1	11.75	15cm	94.00	0.888	83.5	87.65	
11	SLAB	12	2	1	7	15cm	14.00	0.888	12.4	13.05	
12	SLAB	12	28	1	2.5	15cm	70.00	0.888	62.2	65.27	
13	SLAB	12	8	1	5.9	15cm	47.20	0.888	41.9	44.01	
14	SLAB	12	7	1	5.9	15cm	41.30	0.888	36.7	38.51	
15	SLAB	12	25	1	5.9	15cm	147.50	0.888	131.0	137.53	
16	SLAB	12	28	1	4.45	15cm	124.60	0.888	110.6	116.18	
17	SLAB	12	28	1	2.5	15cm	70.00	0.888	62.2	65.27	
18	SLAB	12	7	1	4.8	15cm	33.60	0.888	29.8	31.33	
19	SLAB	12	8	1	4.8	15cm	38.40	0.888	34.1	35.80	
20	SLAB	12	21	1	7.75	15cm	162.75	0.888	144.5	151.75	
21	SLAB	12	43	1	5.9	15cm	253.70	0.888	225.3	236.55	
22	SLAB	12	21	1	3.6	15cm	75.60	0.888	67.1	70.49	
23	SLAB	12	1	1	4.1	15cm	4.10	0.888	3.6	3.82	
24	SLAB	12	14	1	4.9	15cm	68.60	0.888	60.9	63.96	
25	SLAB	12	21	1	2.6	15cm	54.60	0.888	48.5	50.91	
26	SLAB	12	14	1	4.9	15cm	68.60	0.888	60.9	63.96	
27	SLAB	12	2	1	4.9	15cm	9.80	0.888	8.7	9.14	
28	SLAB	12	43	1	1.54	15cm	66.22	0.888	58.8	61.74	
29	SLAB	12	6	1	12.1	15cm	72.60	0.888	64.5	67.69	
30	SLAB	12	2	1	12.1	15cm	24.20	0.888	21.5	22.56	
31	SLAB	12	43	1	2	15cm	86.00	0.888	76.4	80.19	
32	SLAB	12	6	1	7.45	15cm	44.70	0.888	39.7	41.68	
33	SLAB	12	6	1	7.45	15cm	44.70	0.888	39.7	41.68	
Total Weight of 12mm											
2408.14											
Total Weight Drop Reinforcement											
2287.73											
Total Weight of Reinforcement+5%											
2408.14											

STEEL BAR TABLE

SCALE NTS

REF

SCALE NTS



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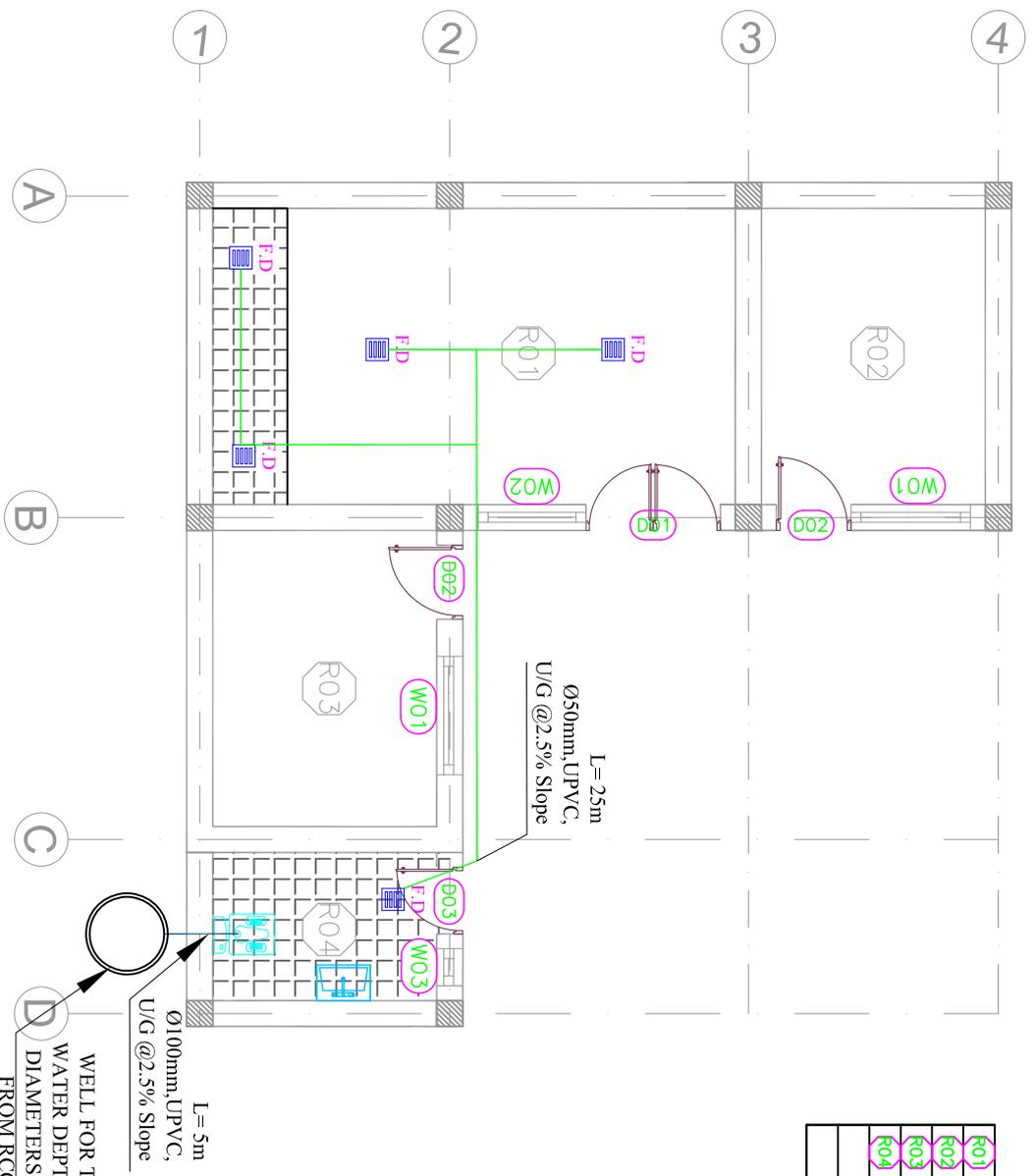
PROVINCE: KAPISA
DISTRICT: MIPJAB
VILLAGE:

SCALE:
SURVEY DATE:
DESIGN DATE:

H.V. TOHT:

PROJECT NAME:
DAIRY PRODUCTION CENTER
DRAWING TITLE:
SEWER PIPING DISTRIBUTION PLAN

SEWER PIPING DISTRIBUTION PLAN
SCALE NTS



R01	Dairy Product Room (700x400)cm	D01	(180x250)cm
R02	Administrative Room (300x400)cm	D02	(100x250)cm
R03	Laboratory Room (300x400)cm	D03	(90x250)cm
R04	Toilet Room (300x200)cm	W01	(180x140)cm
		W02	(145x140)cm
		W03	(50x50)cm

TECHNICAL LEGEND	
EASTERN W.CLOSET	EW.C
FLOOR DRAIN	FD
YARD CLEAN OUT	Yeo
COLD WATER	
HOT WATER	
VENT PIPE	
SEWER PIPE	
FLOOR CLEAN OUT	FCO
WALL CLEAN OUT	WCO
FLASH TANK	

WELL FOR TOILET WEST
WATER DEPTH 10METERS
DIAMETERS 100CM CAST
FROM RCC RING WITH
RCC COVER



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PROVINCE: KAPISA
DISTRICT: MURGAB
VILLAGE:

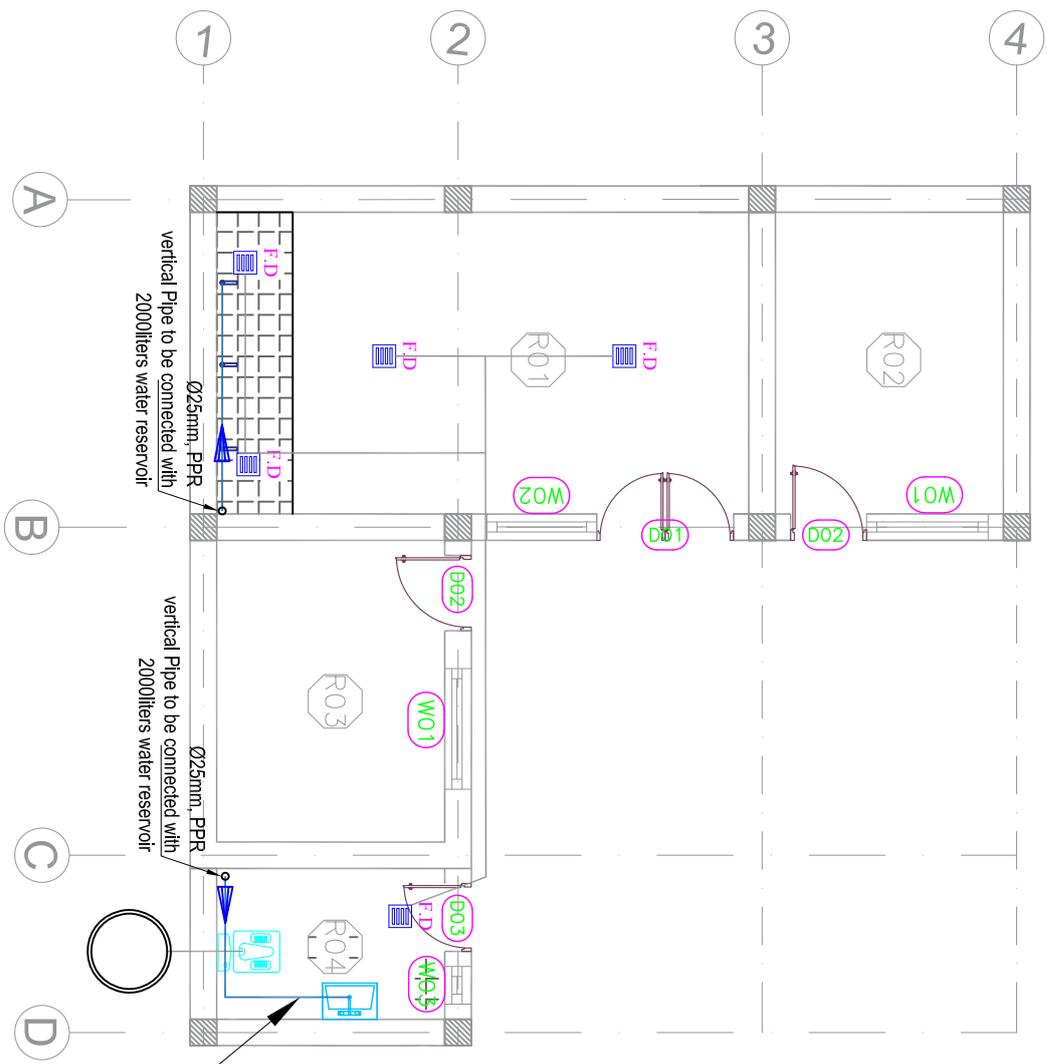
SCALE:
SURVEY DATE:
DESIGN DATE:

H.V. TOHT

PROJECT NAME:
DAIRY PRODUCTION CENTER

DRAWING TITLE:
COLD WATER PIPING DISTRIBUTION PLAN

COLD WATER PIPING DISTRIBUTION PLAN
REF SCALE NTS



D01	Dairy Product Room (700x400)cm	D01	(180x250)cm
D02	Administrative Room (300x400)cm	D02	(100x250)cm
D03	Laboratory Room (300x400)cm	D03	(90x250)cm
D04	Toilet Room (300x200)cm	W01	(180x140)cm
		W02	(145x140)cm
		W03	(50x50)cm

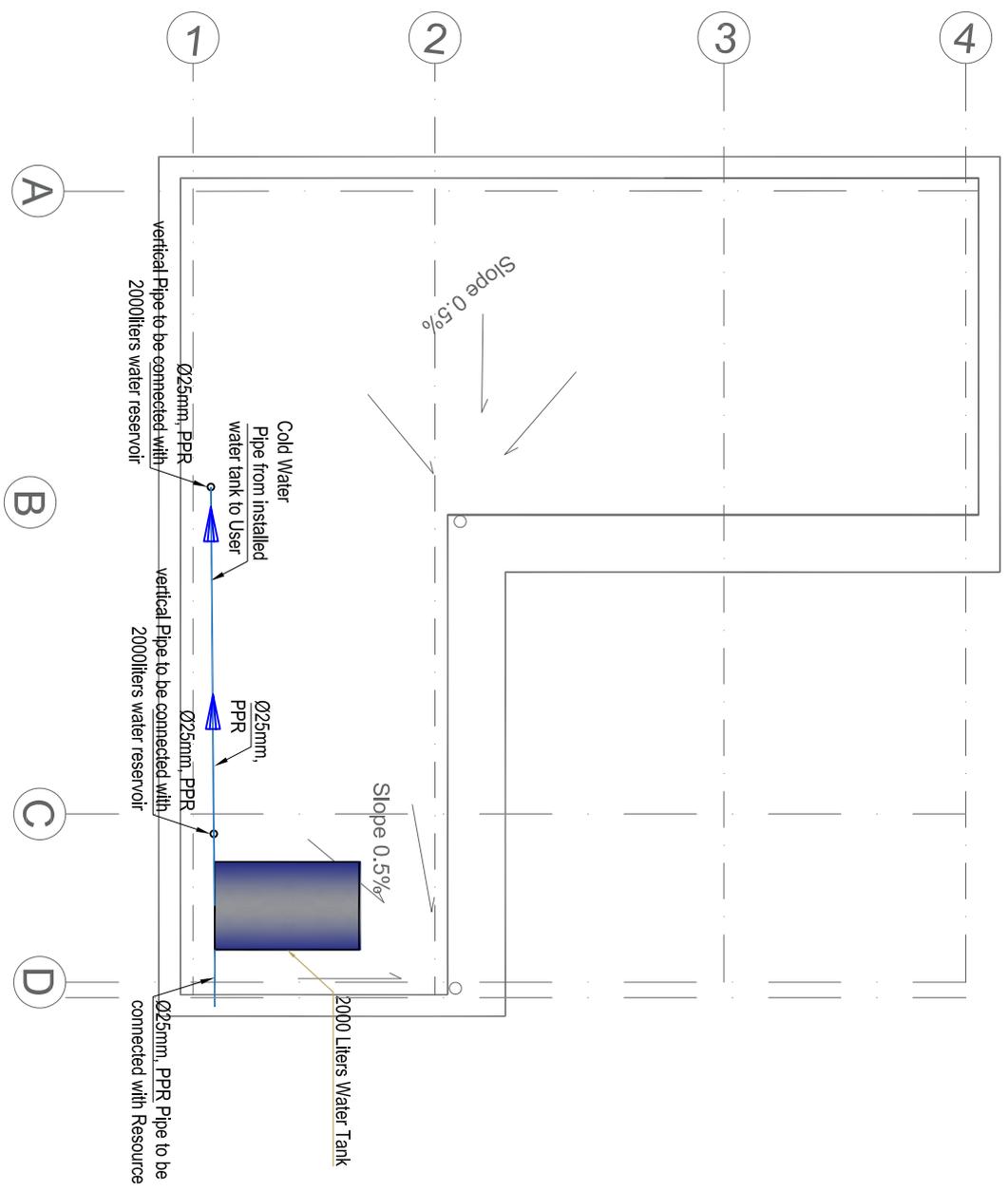
TECHNICAL LEGEND

EASTERN W. CLOSET	E.W.C	
FLOOR DRAIN	FD	
YARD CLEAN OUT	Yco.	
COLD WATER		
HOT WATER		
VENT PIPE		
SEWER PIPE		
FLOOR CLEAN OUT	FCO	
WALL CLEAN OUT	WCO	
FLASH TANK		

25mm CWP

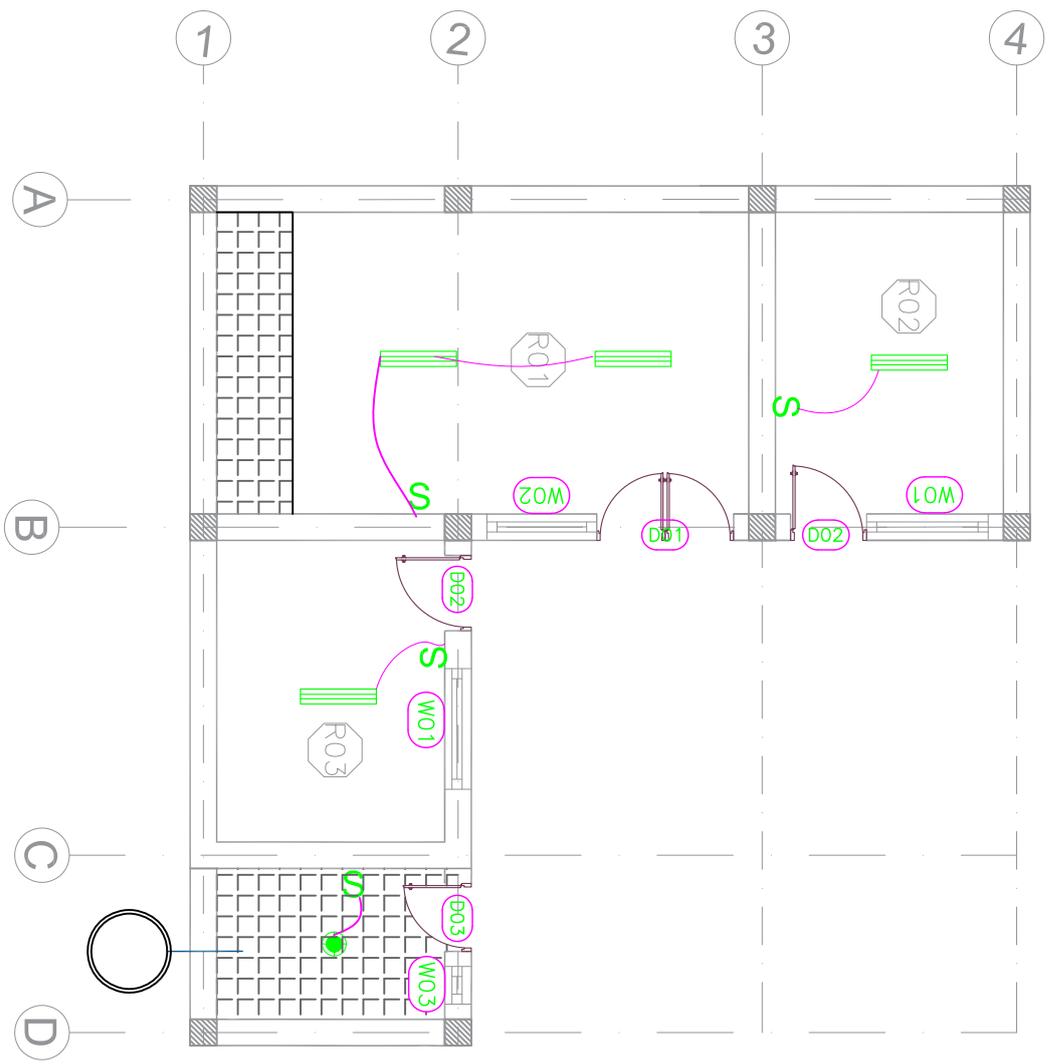
SURVEYED BY	ENG. WAHEDULLAH SULTANI	CHECKED BY	ENG. NESAR AHMAD HADARY	PROVINCE	KAPISA	SCALE	H.V. TOHT	PROJECT NAME:
DRAWN BY	ENG. WAHEDULLAH SULTANI	REVIEWED BY	ENG. POVA	DISTRICT	MIRPAK	SURVEY DATE		PASHA KARY FIRST PART - 10 M LENGTH SUPER PASSAGES
DESIGNED BY	ENG. WAHEDULLAH SULTANI	APPROVED BY	KHASHI	VILLAGE		DESIGN DATE		DRAWING TITLE:
								WATER TANK INSTALLATION PLAN

WATER TANK INSTALLATION PLAN
 REF SCALE NTS



LIGHTING PLAN

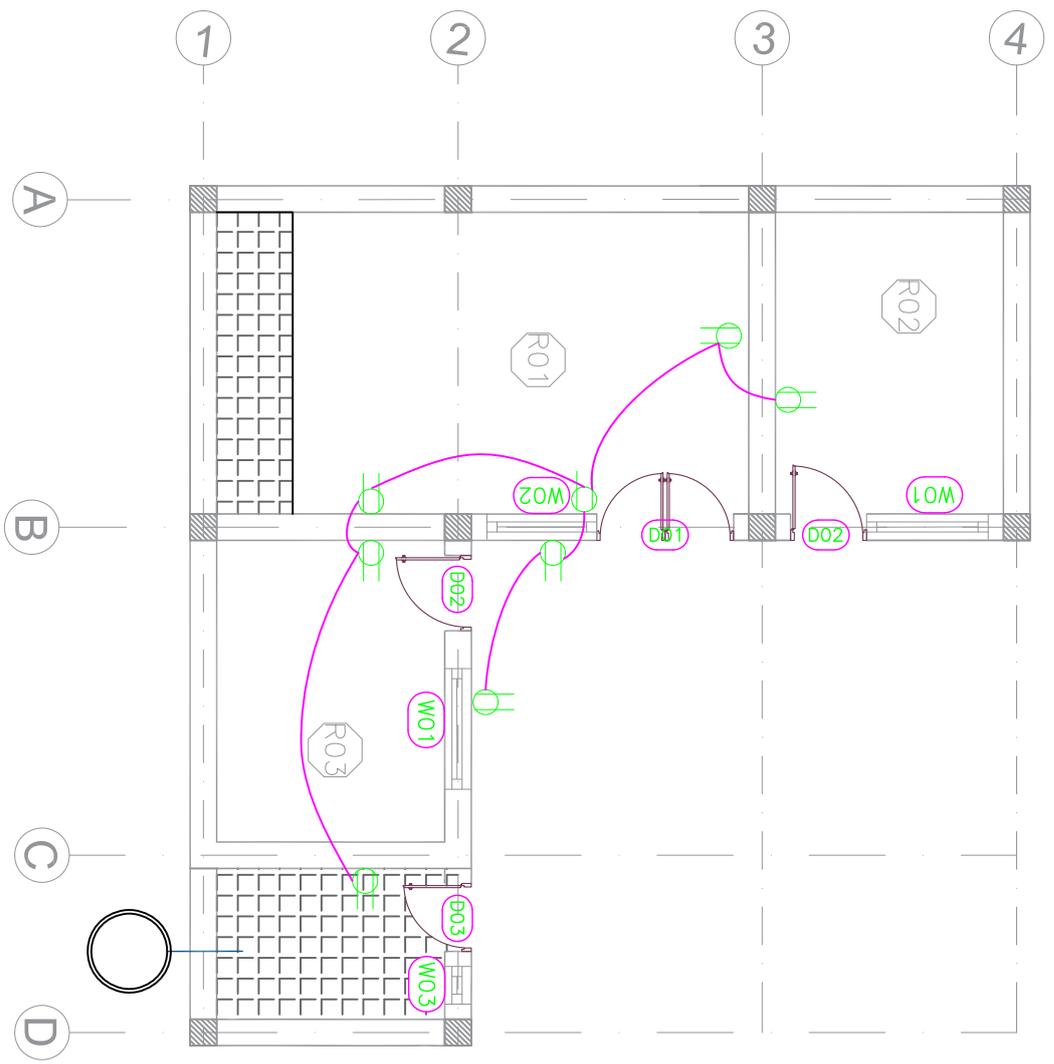
SCALE NTS



R01	Dairy Product Room (700x400)cm	D01	(180x250)cm
R02	Administrative Room (300x400)cm	D02	(100x250)cm
R03	Laboratory Room (300x400)cm	D03	(90x250)cm
R04	Toilet Room (300x200)cm	W01	(180x140)cm
		W02	(145x140)cm
		W03	(50x50)cm

POWER PLAN

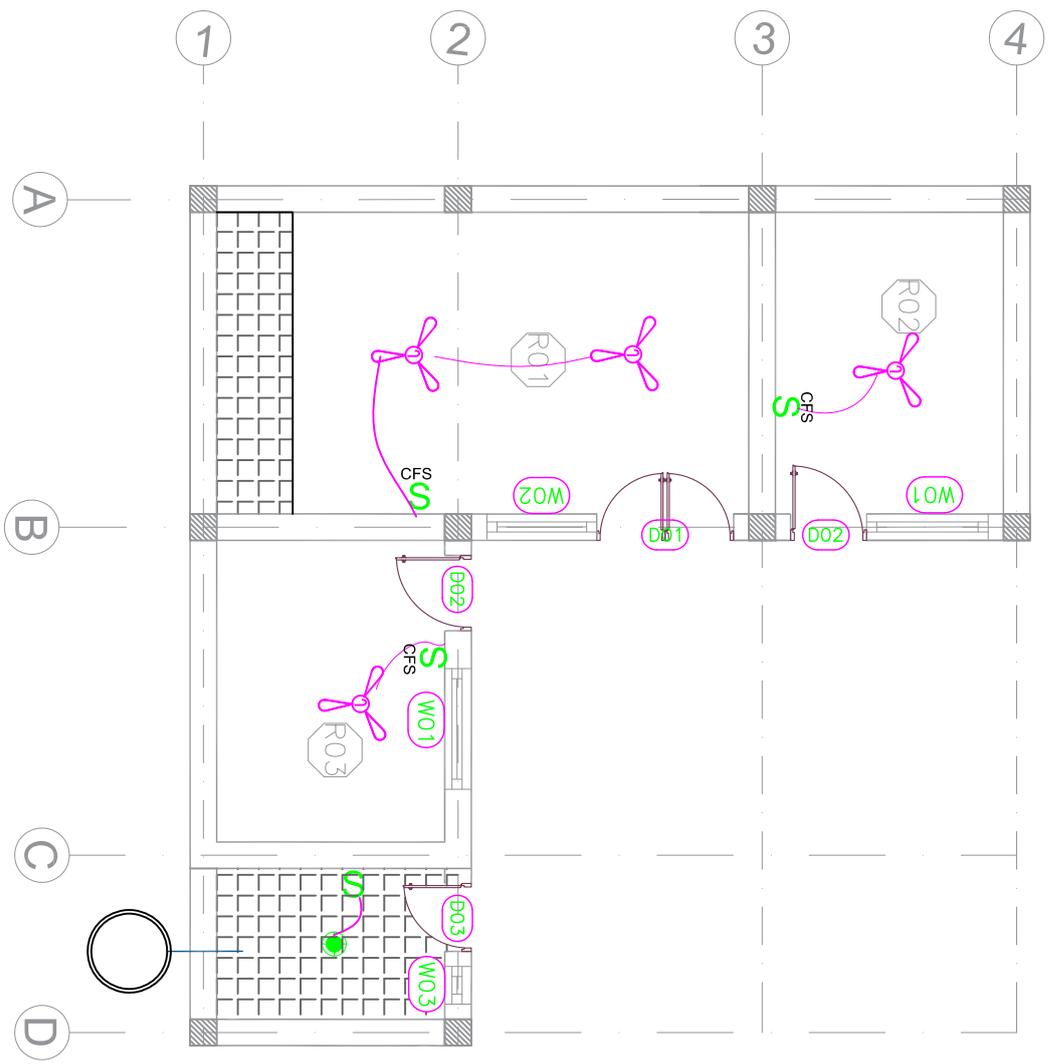
SCALE NTS



S01	Dairy Product Room (700x400)cm	D01	(180x250)cm
S02	Administrative Room (300x400)cm	D02	(100x250)cm
S03	Laboratory Room (300x400)cm	D03	(90x250)cm
S04	Toilet Room (300x200)cm	M01	(180x140)cm
		M02	(145x140)cm
		M03	(50x50)cm

MECHANICAL PLAN

SCALE NTS



R01	Dairy Product Room (700x400)cm	D01	(180x250)cm
R02	Administrative Room (300x400)cm	D02	(100x250)cm
R03	Laboratory Room (300x400)cm	D03	(90x250)cm
R04	Toilet Room (300x200)cm	W01	(180x140)cm
		W02	(145x140)cm
		W03	(50x50)cm

CFS = CEILING FAN SWITCH.



SURVEYED BY
DRAWN BY
DESIGNED BY

ENG.WAHEDULLAH SULTANI
ENG.WAHEDULLAH SULTANI
ENG.WAHEDULLAH SULTANI

CHECKED BY
REVIEWED BY
APPROVED BY

ENG.NESAR AHMAD HADARY
ENG. POYA
KAHASHI

PROVINCE
DISTRICT
VILLAGE

SCALE
SURVEY DATE
DESIGN DATE

H.V TOFT

PROJECT NAME:
DARY PRODUCTION CENTER
DRAWING TITLE:
LEGENDS AND ABBREVIATION

LEGENDS

	SINGLE POLE SWITCH, 220V, 50Hz, 20A, SURFACE MOUNTED AT 1200mm AFF
	TOW WAY SWITCH, 220V, 50Hz, 20A, SURFACE MOUNTED AT 1200mm AFF
	EMERGENCY LIGHT EXIT SIGN 1x8W 3 HOURS DURATION STEEL BODY
	SURFACE MOUNTED HIGH BAY LIGHT 150W/4PS, 50Hz, MOUNTED IP65
	WALL MOUNTED WATER PROOF PROJECTOR LIGHT 250W, 50Hz, IP65
	LIGHTING DISTRIBUTION BOARD AT 1800MM END OF PANEL, WATER PROOF RECESSED OR WALL MOUNTED TYPE.
	MAIN DISTRIBUTION BOARD AT 1800MM END OF PANEL, WATER PROOF WALL OR RECESSED MOUNTED TYPE.
	SURFACE MOUNTED SINGLE PHASE RECEPTACLE WATER PROOF 16A, 50Hz, 220V.
	SURFACE MOUNTED WATER PROOF EXHAUST FAN 80W, 50Hz, 220V
	GROUNDING SYSTEM
	ELECTRICAL MANHOLE
	ELECTRICAL HAND HOLE
	UPVC SCHEDULE 40 CONDUITS PIPE.
	SURFACE MOUNTED CABLE TRUNK SIZE AT 0.25mm ² /in
	ELECTRICAL CANAL
	DIRECTION OF POWER CABLE TO DB
	SURFACE MOUNTED GENERAL MAIN DISTRIBUTION BOARD (GMDR), (GLDB) AT 1800MM END OF PANEL, WATER PROOF.
	CABLE TRENCH DEPTH 120.
	AUTO TRANSFORMER SWITCH, 4 PL, 50Hz, 380V
	220V AND 16A RECESS MOUNTED SOCKET.
	24(W)WATTS AND 220V FLUORESCENT LIGHT.
	1x100(W)WATTS AND 220V WATER PROOF ROUND TYPE LIGHT.
	220V AND 10A RECESS MOUNTED WATERPROOF SWITCH FOR TOILETS.
	220V AND 16A RECESS MOUNTED WATER PROOF RECEPTACLE.
	220V AND 1200(BTU) SPLIT UNIT.
	GROUNDING ROD (3m x ø25mm) FOR EARTHING SYSTEM.
	TRANSFORMER
	CURRENT TRANSFORMER
	MOLDED CASE CIRCUIT BREAKER
	CIRCUIT BREAKER 3PH, 380V.
	PHASE LIGHTS
	WIRE CONNECTION- SOLID GROUND
	DELTA CONNECTION.

LEGENDS AND ABBREVIATIONS

ABBREVIATIONS:

A	-	AMPERE
A.F.F.	-	ABOVE FINNISH FLOOR LEVEL
CU	-	COPPER
E.H	-	ELECTRICAL HANDHOLD
Ø, DIA	-	DIAMETER
EX.F	-	EXHAUST FAN
EMT	-	ELECTRIC METALLIC TUBING
LDB	-	LIGHTING DISTRIBUTION BOARD
MDB	-	MAINE DISTRIBUTION BOARD
GLDB	-	GENERAL LIGHTING DISTRIBUTION BOARD
HZ	-	HERTZ
MECH	-	MECHANICAL
mm	-	MILLIMETER
GMDR	-	GENERAL MAIN DISTRIBUTION BOARD
MAX	-	MAXIMUM
M	-	METER
ATS	-	AUTO TRANSFER SWITCH
PVC	-	POLYVINYL CHLORIDE
RM	-	ROOM
TYPE	-	TYPICAL
V	-	VOLT
W	-	WATT
WP	-	WATERPROOF