

Proposed 06 Classroom at
Th.Burunee School
(02 Storey)

SERVICES DRAWINGS
Client: Ministry of Education



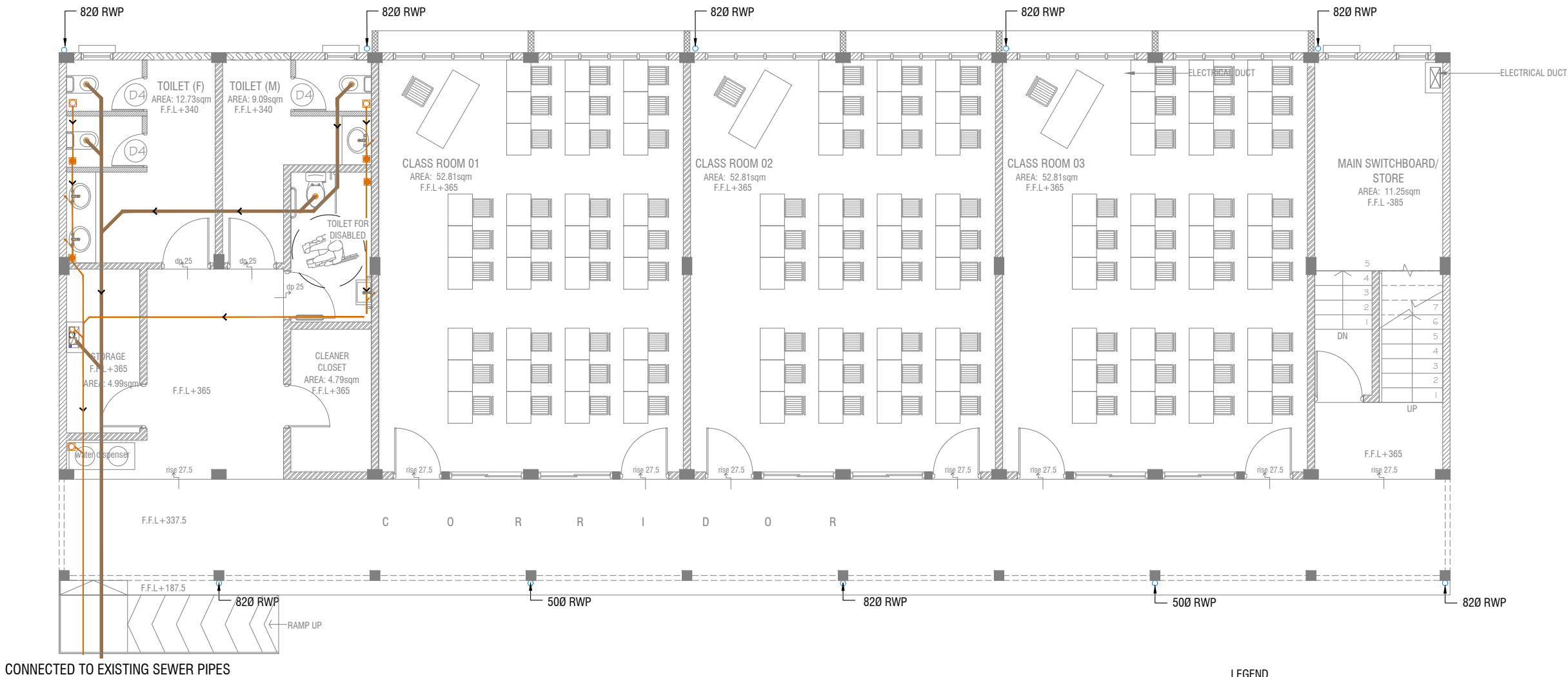
RIYAN PRIVATE LIMITED

t : +9603315049 f : +9603310776
e : info@riyan.com.mv
w : www.riyan.com.mv

3rd floor, H. Azum, Ameeleemagu, Male'

TABLE OF CONTENTS

DRAWING No.	TITLE	REVISION No.	DATE	REMARKS
S E R V I C E S		---	---	---
DR - 01 /03	GROUND FLOOR DRAINAGE LAYOUT	---	---	---
DR - 02 /03	FIRST FLOOR DRAINAGE LAYOUT	---	---	---
DR - 03 /03	ROOF DRAINAGE LAYOUT	---	---	---
PL - 01 / 02	GROUND FLOOR PLUMBING LAYOUT	---	---	---
PL - 02 / 02	FIRST FLOOR PLUMBING LAYOUT	---	---	---
EL - 01 / 02	GROUND FLOOR LIGHTING LAYOUT	---	---	---
EL - 02 / 02	FIRST FLOOR LIGHTING LAYOUT	---	---	---
EP - 01 / 02	GROUND FLOOR POWER LAYOUT	---	---	---
EP - 02 / 02	FIRST FLOOR POWER LAYOUT	---	---	---
FDP - 01 / 02	GROUND FLOOR FDP LAYOUT	---	---	---
FDP - 02 / 02	FIRST FLOOR FDP LAYOUT	---	---	---



GROUND FLOOR DRAINAGE LAYOUT



- LEGEND**
- FG FLOOR GULLY
 - FD FLOOR DRAIN
 - WM 40 Ø STUB FOR WASHING MACHINE
 - SP 110 Ø SOIL PIPE
 - SVP 110 Ø SOIL VENT PIPE
 - WP 82 Ø WASTE PIPE
 - WVP 82 Ø WASTE VENT PIPE
 - WP 40 Ø WASTE PIPE
 - RWP 82/50 Ø RAINWATER PIPE
 - RWO 82/50 Ø DRAIN OUTLET
 - CD 25 Ø DRAIN PIPE
 - MHVP 50 Ø MANHOLE VENT PIPE

NOTE:

- ALL RAINWATER PIPES TO BE AT GROUND LEVEL DISCHARGED THROUGH A PERFORATED COWL OR TO A SOAK PIT
- ALL SOIL AND WASTE PIPES TO BE AT GROUND LEVEL, UNDER THE SLAB.

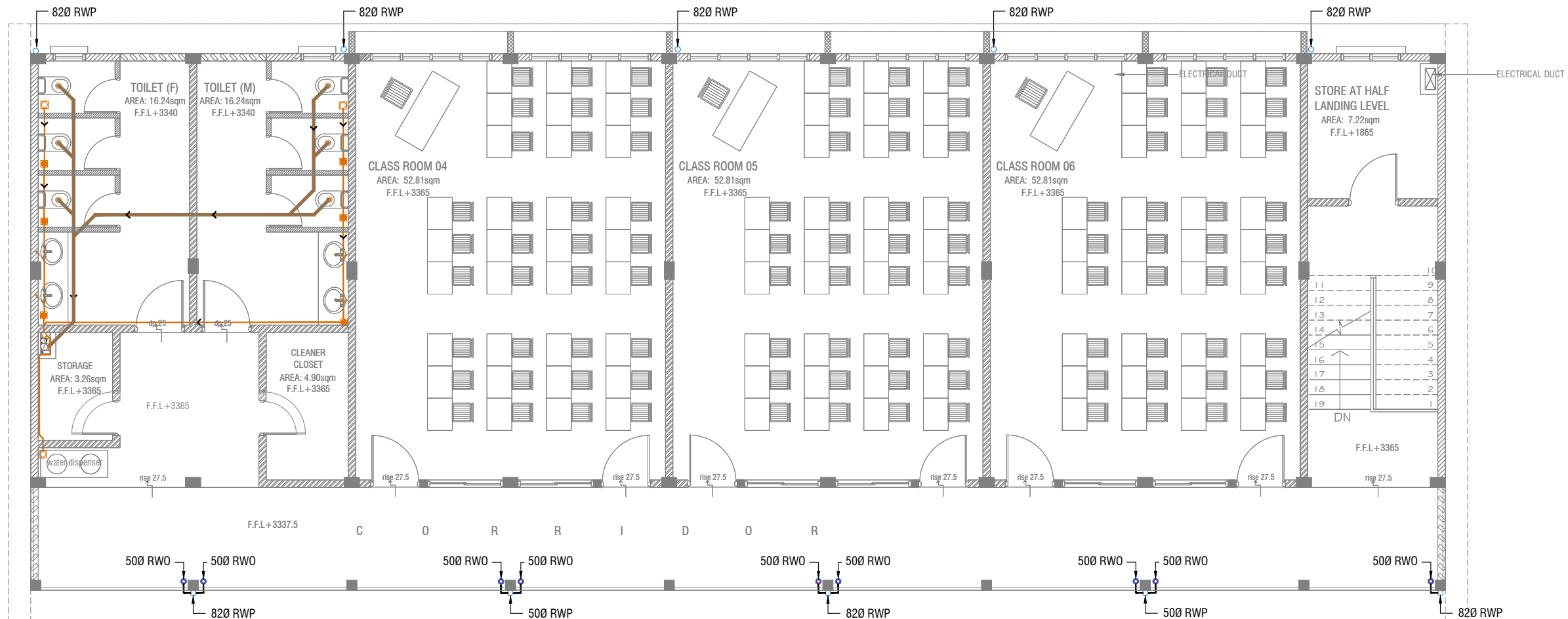
Th. Burunee School 6 Classroom Block (2 story)
Client: Ministry of Education

Rev no	Date
1	
2	
3	
4	
5	

Project Number: RI/2020/006
Date: January 2021
Architect: Maryam Irsha Shareef
Engineer: Mohamed Muhtalib Waleed
Drawn by: Maryam Leevan Jaleel
Services: Aishath Ahmed
Interior: -



RIYAN PRIVATE LIMITED
t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameenemagu, Male'



FIRST FLOOR DRAINAGE LAYOUT

SCALE 1:100



LEGEND

- FG FLOOR GULLY
- FD FLOOR DRAIN
- WM 40 Ø STUB FOR WASHING MACHINE
- SP 110 Ø SOIL PIPE
- SVP 110 Ø SOIL VENT PIPE
- WP 82 Ø WASTE PIPE
- WVP 82 Ø WASTE VENT PIPE
- WP 40 Ø WASTE PIPE
- RWP 82/50 Ø RAINWATER PIPE
- RWO 82/50 Ø DRAIN OUTLET
- CD 25 Ø DRAIN PIPE
- MHVP 50 Ø MANHOLE VENT PIPE

NOTE:

- ALL SOIL AND WASTE PIPES TO BE UNDER THE SLAB LEVEL.

Th. Burunee School 6 Classroom Block (2 story)
Client: Ministry of Education

Project Number: RI/2020/006

Date: January 2021

Architect: Maryam Irasha Shareef
Engineer: Mohamed Muthalib Valeed
Drawn by: Maryam Leevan Jaleel
Services: Aishath Ahmed

Rev no	Date
1	
2	
3	
4	

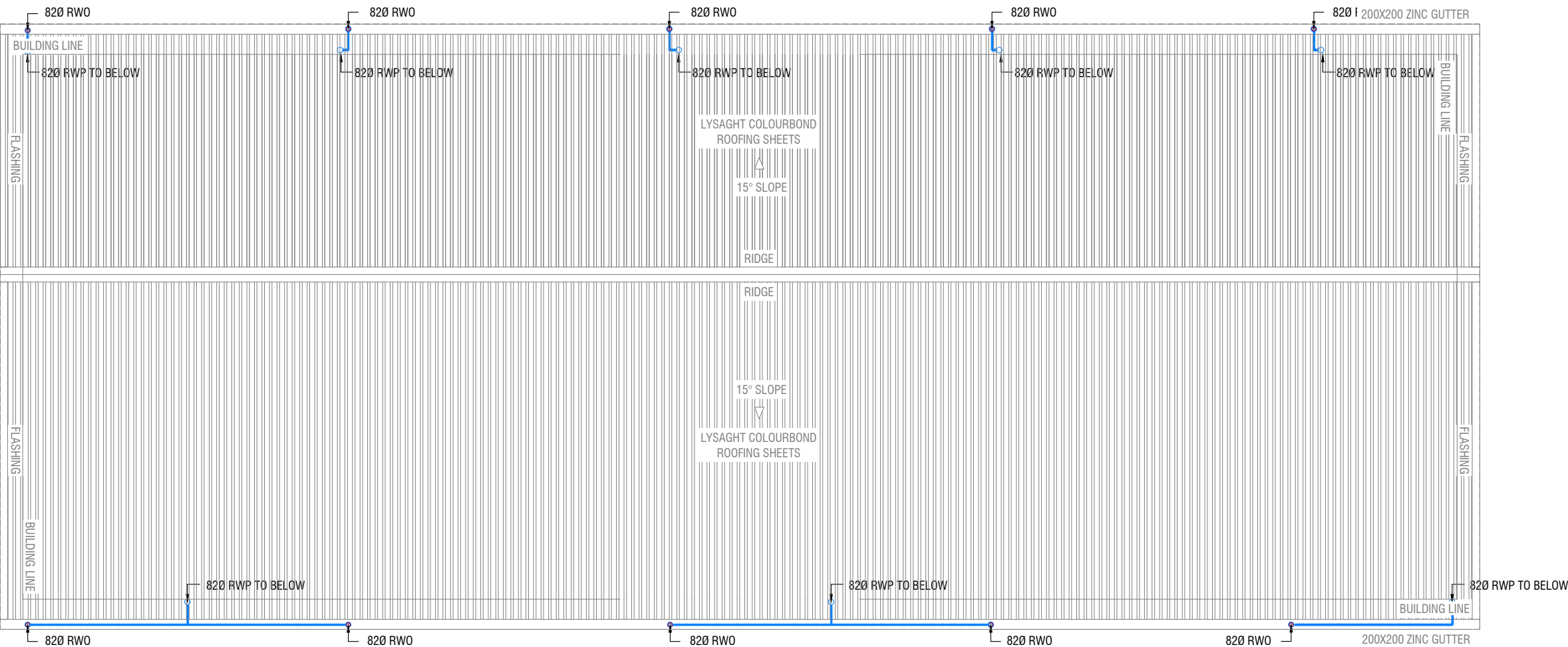


RIYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameenemagu, Male'

Title: First Floor
Drainage Layout

Page: DR 02- 03















ROOF DRAINAGE LAYOUT

SCALE 1:100



LEGEND

- FG  FLOOR GULLY
- FD  FLOOR DRAIN
- WM  40 Ø STUB FOR WASHING MACHINE
- SP  110 Ø SOIL PIPE
- SVP  110 Ø SOIL VENT PIPE
- WP  82 Ø WASTE PIPE
- WVP  82 Ø WASTE VENT PIPE
- WP  40 Ø WASTE PIPE
- RWP  82/50 Ø RAINWATER PIPE
- RWO  82/50 Ø DRAIN OUTLET
- CD  25 Ø DRAIN PIPE
- MHVP  50 Ø MANHOLE VENT PIPE

ThBurunee School 6 Classroom Block (2 story)
Client: Ministry of Education

Project Number: RI/2020/006

Date: January 2021

Architect: Maryam Irasha Shareef
Engineer: Mohamed Muthalib Waleed
Drawn by: Maryam Lervan Jaleel
Services: Aishath Ahmed

Rev no	Date
1	10/01/2021
2	10/01/2021
3	10/01/2021
4	10/01/2021

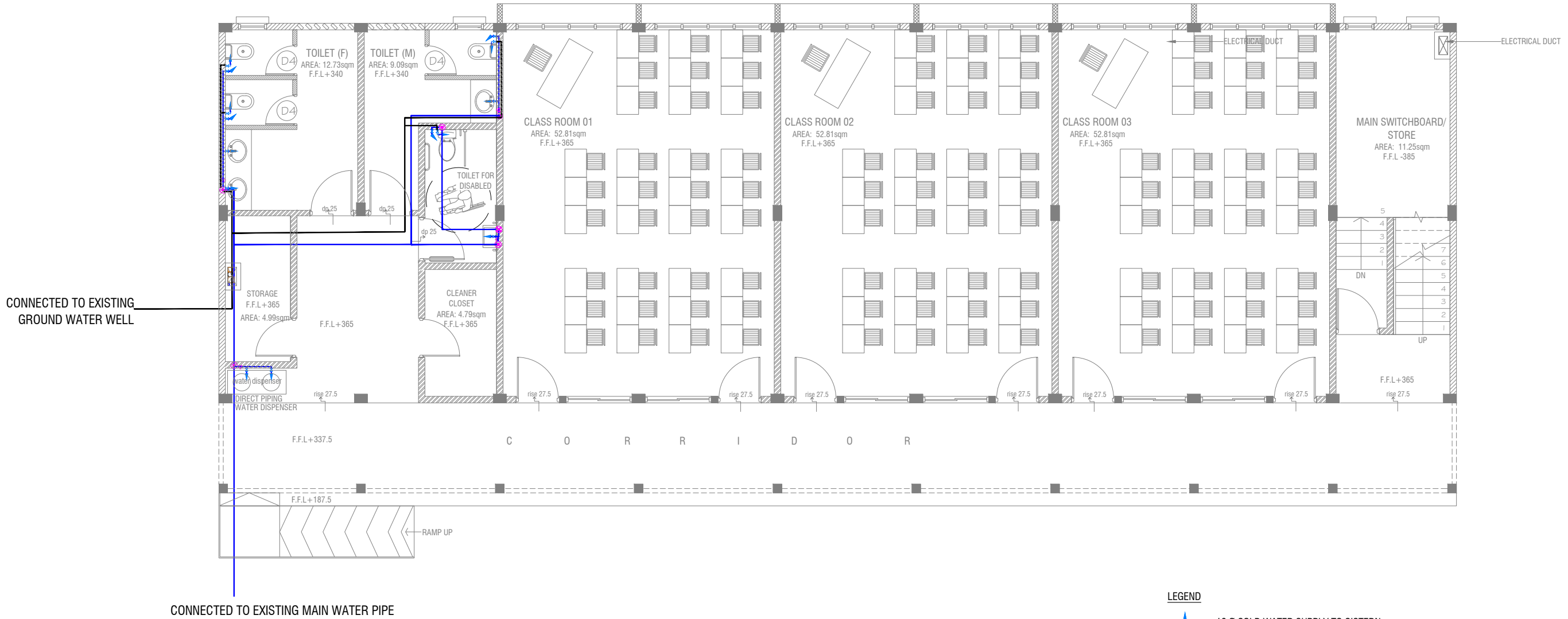


RIYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameenemagu, Male'

Title: Roof
Drainage Layout

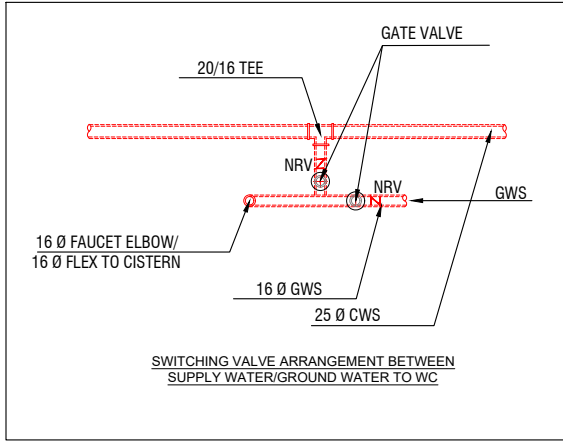
Page: DR 03-03



CONNECTED TO EXISTING MAIN WATER PIPE

GROUND FLOOR PLUMBING LAYOUT

SCALE 1:100



LEGEND

- 16 Ø COLD WATER SUPPLY TO CISTERN
- 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
- 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
- GV GATE VALVE
- 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
- 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING
- RISE IN WALL
- DROP IN WALL
- CWS COLD WATER SUPPLY
- HWS HOT WATER SUPPLY
- GROUND WATER SUPPLY

NOTE:

- THE WELL SHALL BE RELOCATED ACCORDING TO THE SALINITY OF THE GROUND WATER.
- BASED ON WELL LOCATION PUMP CAPACITY TO BE DECIDED

Th.Burunee School 6 Classroom Block (2 story)
Client: Ministry of Education

Project Number: RI/2020/006

Date: January 2021

Architect: Maryam Irasha Shareef
Engineer: Mohamed Muthalib Waleed
Drawn by: Maryam Leevan Jaleel
Services: Aishath Ahmed

Rev no

Date

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

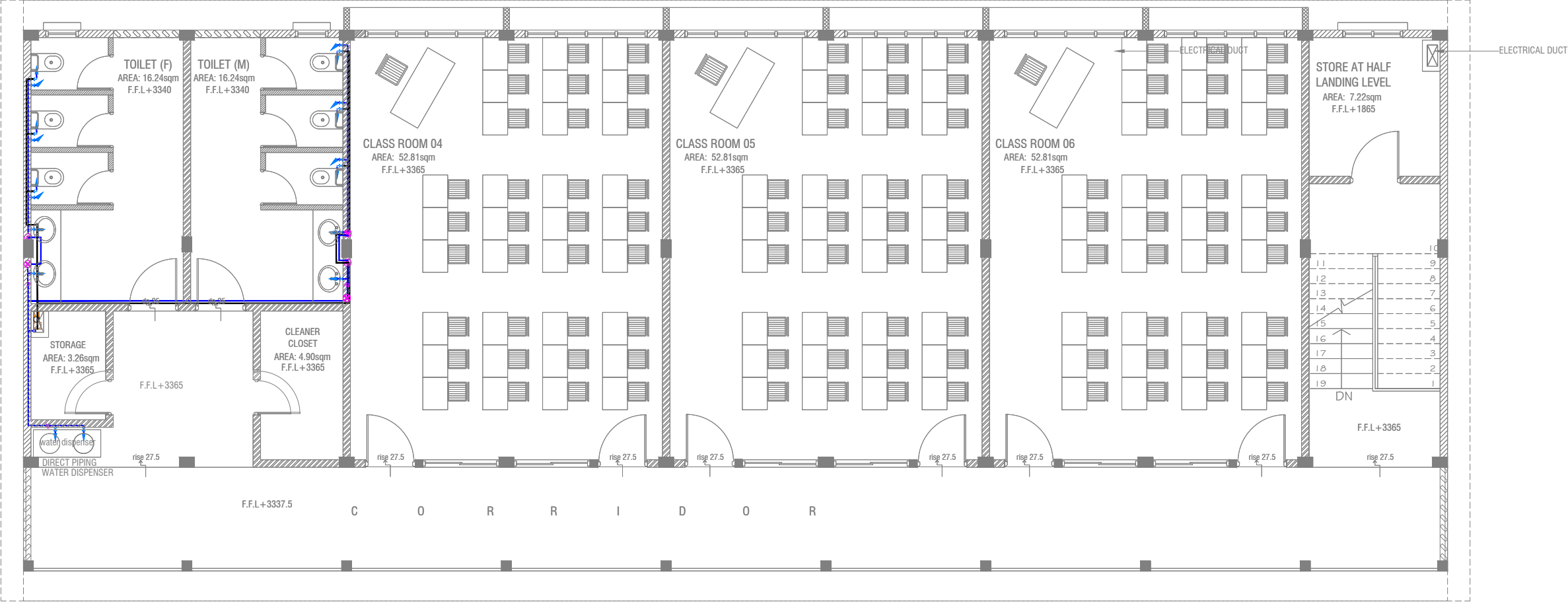
313

314

315

316

317



FIRST FLOOR PLUMBING LAYOUT



- LEGEND**
- 16 Ø COLD WATER SUPPLY TO CISTERN
 - 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
 - 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
 - GV GATE VALVE
 - 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
 - 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING
 - RISE IN WALL
 - DROP IN WALL
 - CWS COLD WATER SUPPLY
 - HWS HOT WATER SUPPLY
 - GROUND WATER SUPPLY

Th Burunee School 6 Classroom Block (2 story)
Client: Ministry of Education

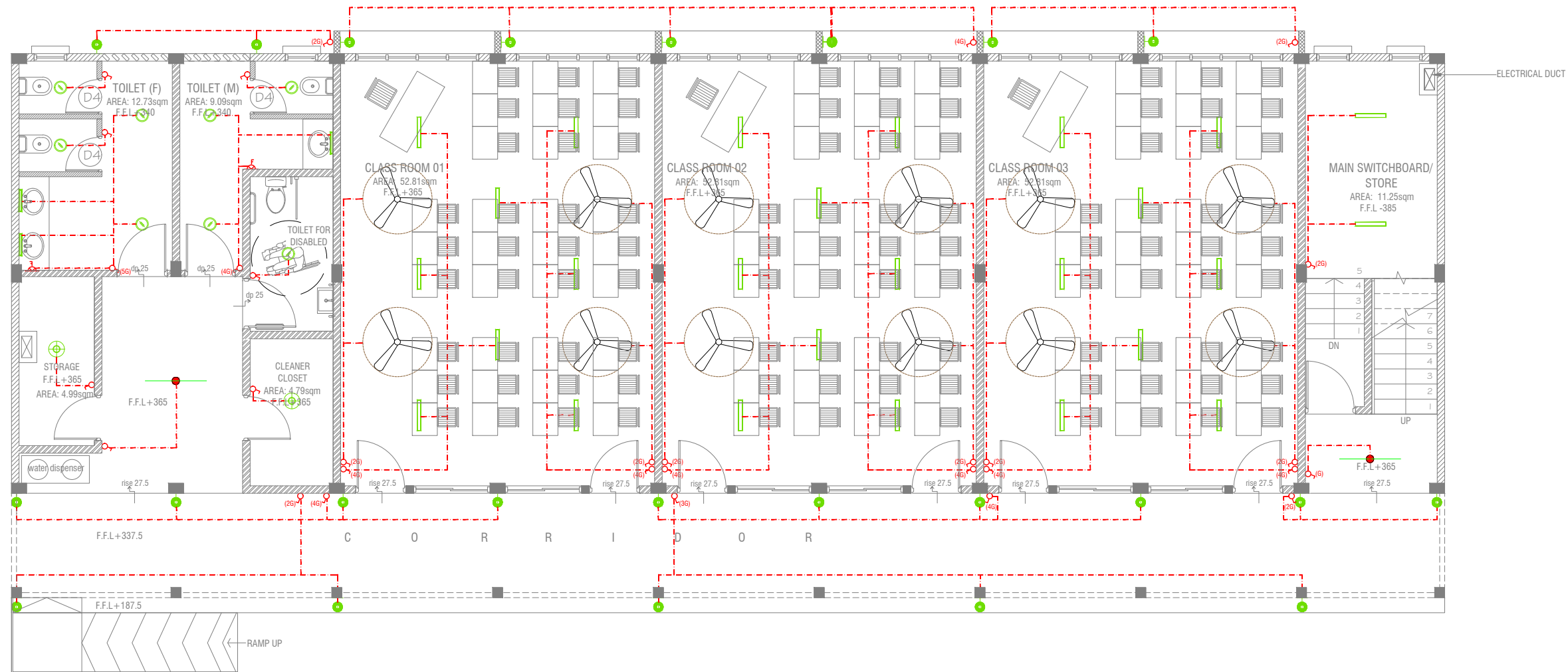
Project Number: RI/2020/006
Date: January 2021

Architect: Maryam Irasha Shareef
Engineer: Mohamed Muthalib Waleed
Drawn by: Maryam Leevan Jaleel
Services: Aishath Ahmed
Interior: -

Rev no	Date
1	
2	
3	
4	
5	


RIYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameenemagu, Male'



GROUND FLOOR LIGHTING LAYOUT

SCALE 1:100



LEGEND

- WPD 40W (IP 65) OUT DOOR WALL LIGHT
- ML MIRROR LIGHT (7W LED LIGHT)
- H2 LED RECESSED DOWN LIGHT 12W
- CL LED CEILING LIGHT 18W
- WP LED TUBE LIGHT WITH WEATHER PROOF OPAL CASING
- C2 LED CEILING DOWN LIGHT (18W)
- LIGHT SWITCH
- SWITCHING LINE
- EXHAUST

CL2 LED TUBE LIGHT WITH OPAL CASING



NOTE:

- ALL WIRING TO BE OF STELCO APPROVED STANDARDS
- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL
- ALL LIGHTING POINTS CONNECTED TO THEIR RESPECTIVE DB
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED AT THE OUTDOORS

Th. Burunee School 6 Classroom Block (2 story)
Client: Ministry of Education

Project Number: RI/2020/006

Date: January 2021

Architect: Maryam Irsha Shareef
Engineer: Mohamed Muthalib Waleed
Drawn by: Maryam Leevan Jaleel
Services: Aishath Ahmed
Interior: -

Rev no	Date
1	1
2	2
3	3
4	4
5	5
6	6
7	7

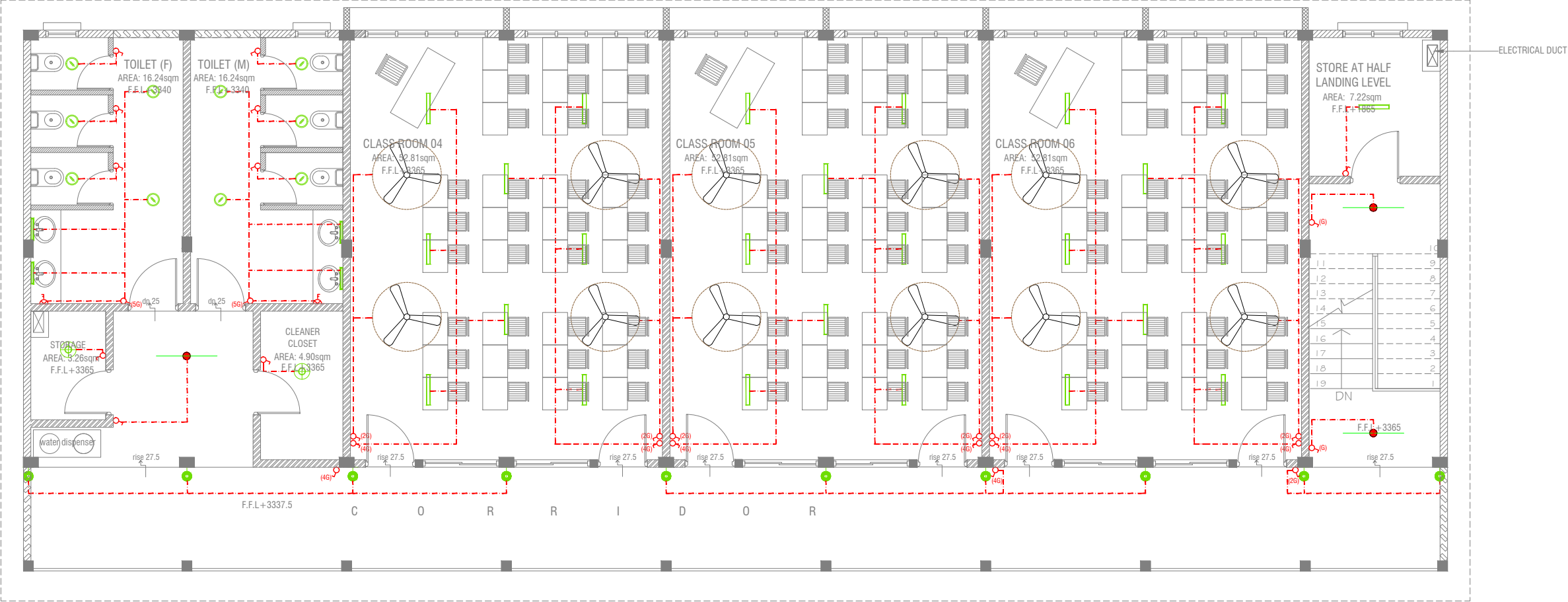


RIYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameenemagu, Male'

Title: Ground Floor
Lighting Layout

Page: EL 01-02



FIRST FLOOR LIGHTING LAYOUT



LEGEND

- WPD 40W (IP 65) OUT DOOR WALL LIGHT
- ML MIRROR LIGHT (7W LED LIGHT)
- H2 LED RECESSED DOWN LIGHT 12W
- CL LED CEILING LIGHT 18W
- WP LED TUBE LIGHT WITH WEATHER PROOF OPAL CASING
- C2 LED CEILING DOWN LIGHT (18W)
- LIGHT SWITCH
- SWITCHING LINE
- EXHAUST

CL2 LED TUBE LIGHT WITH OPAL CASING



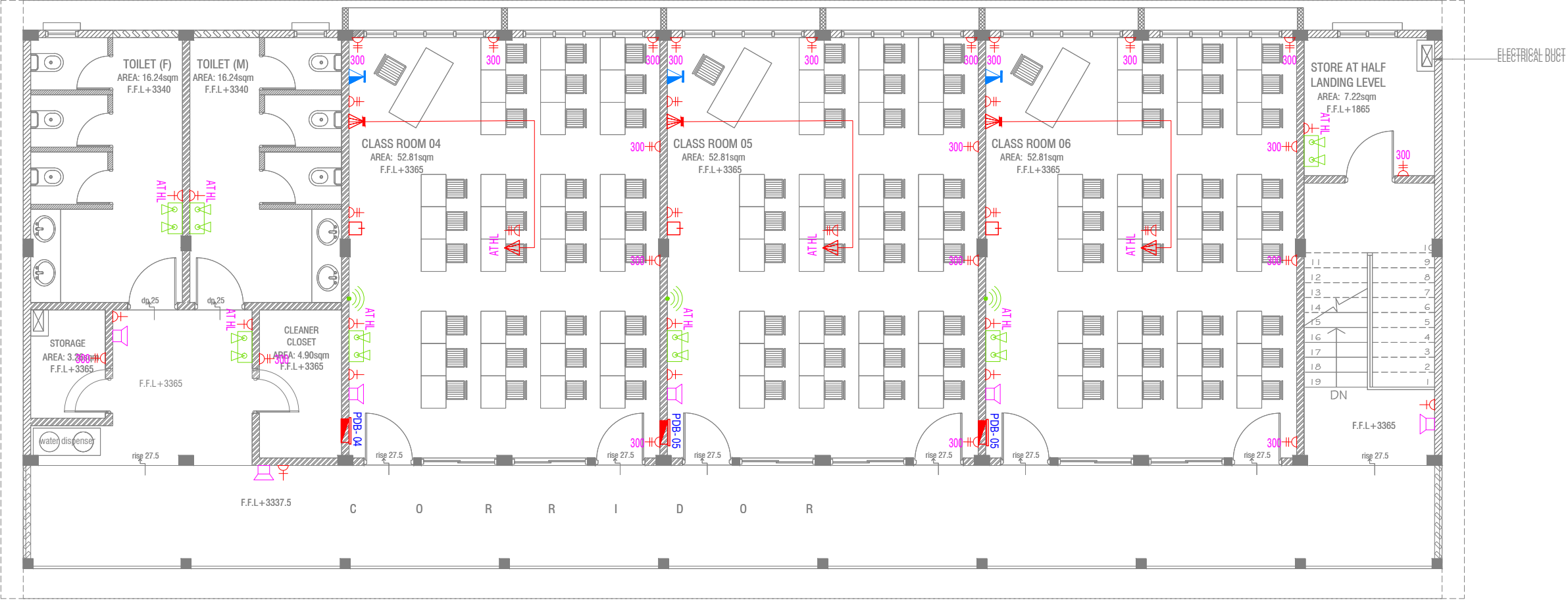
NOTE:

- ALL WIRING TO BE OF STELCO APPROVED STANDARDS
- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL
- ALL LIGHTING POINTS CONNECTED TO THEIR RESPECTIVE DB
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED AT THE OUTDOORS

Th Burunee School 6 Classroom Block (2 story)
Client: Ministry of Education

Rev no	Date
1	
2	
3	
4	

Project Number: RI/2020/006
Date: January 2021
Architect: Maryam Irasha Shareef
Engineer: Mohamed Muthalib Waleed
Drawn By: Maryam Leevan Jaleel
Services: Aishath Ahmed
Interior: -



FIRST FLOOR POWER LAYOUT

SCALE 1:100

- NOTE:**
1. ALL WIRING TO BE OF APPROVED STANDARDS
 2. POWER/IT/COMPUTER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
 3. SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
 4. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
 5. AC = 2500MM - 2700MM FROM FLOOR FIN. LEVEL

LEGEND

- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER OUTLET
- 13A TWIN SOCKET OUTLET
- HDMI,VGA & RAC AV SOCKET
- DISTRIBUTION BOX
- SPEAKERS
- HDMI,VGA & RAC AV TWIN SOCKET
- TWIN COMPUTER NETWORK OUTLET
- DATA POINT

- PAGING MIC
- VOLUME CONTROLLER
- EMERGENCY LIGHT

ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

SPEAKERS TO BE CONNECTED TO THE MAIN PA SYSTEM OF THE SCHOOL

Th.Burunee School 6 Classroom Block (2 story)
Client: Ministry of Education

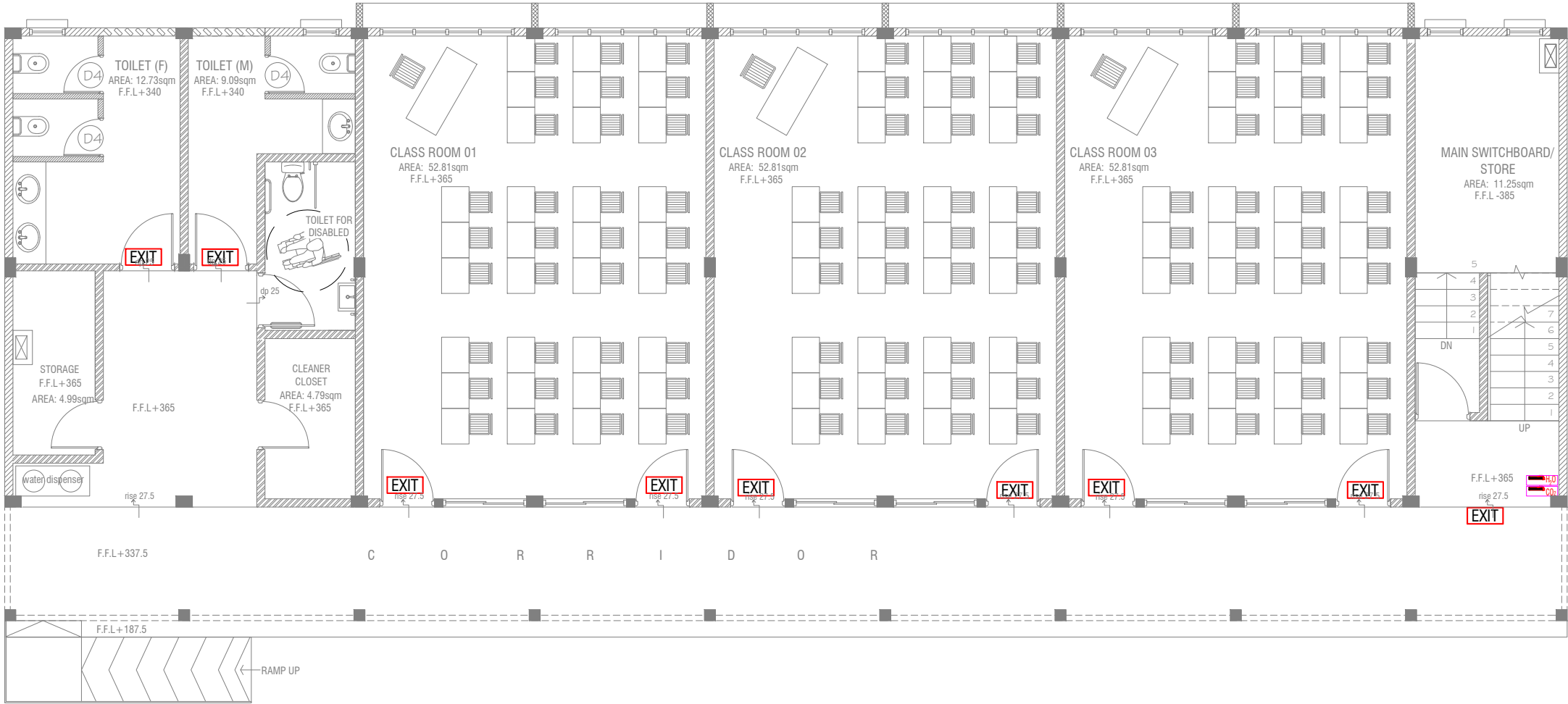
Rev no	Date
1	
2	
3	
4	
5	

Project Number: RI/2020/006
Date: January 2021
Architect: Maryam Irasha Shareef
Engineer: Mohamed Muhtalib Waleed
Drawn by: Maryam Leevan Jaleel
Services: Aishath Ahmed
Interior: -




GROUND FLOOR FDP LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5



LEGEND

-  EXIT SIGN
-  CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
-  H₂O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)

ALL FIRE CABLES AND CONDUITS SHOULD BE FIRE RETARDANT LOW SMOKE (FRLS) TYPE.

ALL FIRE RATED DOOR SHOULD COME WITH PACKING (EXPANSION SEAL TRAP)

- 1.ALL PIPES SHOULD BE GALVANIZED,SCHEDULE 40.
2. ALL PIPE SHALL BE PAINTED IN RED AS PER REGULATION.
3. ALL SUPPORT/BACKET SHALL BE HOT DIPPED GALVANIZED TO 100MM
- 4.ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

-IF THE INSTALLATION OF CEILING IS CARRIED OUT LOWER THAN BEAM BOTTOM ,SMOKE DETECTORS SHOULD BE PLACED AS INDICATED ON THE DRAWING.
-ALTERNATIVELY IF THE INSTALLATION OF CEILING IS CARRIED OUT EQUAL TO BEAM BOTTOM OR IF THE CEILING IS NOT INSTALLED , SMOKE DETECTORS ARE TO BE PLACED IN BETWEEN EACH BEAM

Th.Burunee School 6 Classroom Block (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: January 2021

Architect : Maryam Irasha Shareef

Engineer : Mohamed Muthalib Waleed

Drawn by : Maryam Leevan Jaleel

Services : Aishath Ahmed

Interior : -

Rev no	Date
--	-----
--	-----
--	-----



RIYAN PRIVATE LIMITED

t : +9603315049 f : +9603310776
e : info@riyan.com.mv
w : www.riyan.com.mv
3rd floor, H. Azum, Ameermeenagu, Male'

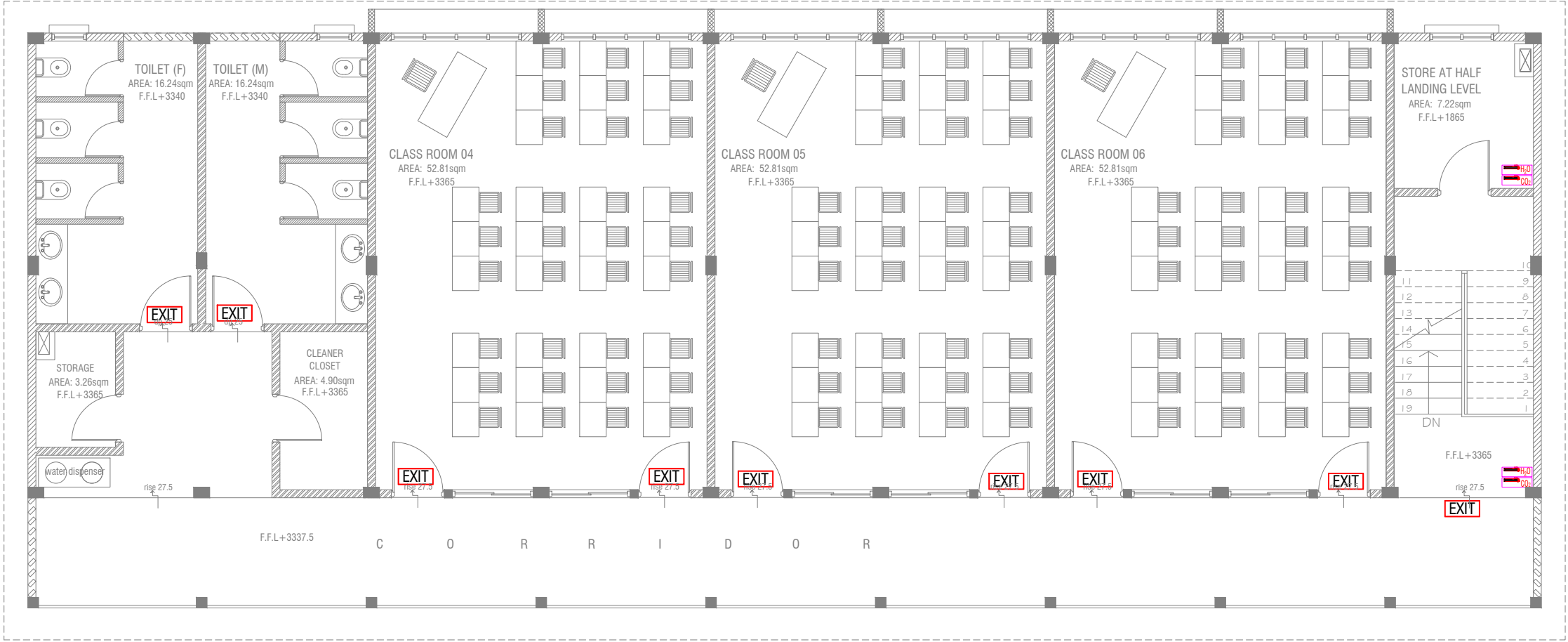
Title: Ground Floor
FDP Layout

Page: FDP 01-02

The contents of these drawings remain as a property of Riyan Private Limited. Any use other than those expressly stated is a violation of this copyright

FIRST FLOOR FDP LAYOUT

SCALE 1:100



LEGEND

- EXIT EXIT SIGN
- CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
- H₂O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)

ALL FIRE CABLES AND CONDUITS SHOULD BE FIRE RETARDANT LOW SMOKE (FRLS) TYPE.

ALL FIRE RATED DOOR SHOULD COME WITH PACKING (EXPANSION SEAL TRAP)

- 1.ALL PIPES SHOULD BE GALVANIZED,SCHEDULE 40.
2. ALL PIPE SHALL BE PAINTED IN RED AS PER REGULATION.
3. ALL SUPPORT/BRACKET SHALL BE HOT DIPPED GALVANIZED TO 100MM
- 4.ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

-IF THE INSTALLATION OF CEILING IS CARRIED OUT LOWER THAN BEAM BOTTOM ,SMOKE DETECTORS SHOULD BE PLACED AS INDICATED ON THE DRAWING.
-ALTERNATIVELY IF THE INSTALLATION OF CEILING IS CARRIED OUT EQUAL TO BEAM BOTTOM OR IF THE CEILING IS NOT INSTALLED , SMOKE DETECTORS ARE TO BE PLACED IN BETWEEN EACH BEAM

Th.Burunee School 6 Classroom Block (2 story)
Client: Ministry of Education

Project Number: RI/2020/006	Rev no	Date
Date: January 2021	-	-
Architect : Mariyam Irasha Shareef	-	-
Engineer : Mohamed Muththailb Waleed	-	-
Drawn by : Mariyam Leevan Jaleel	-	-
Services : Aishath Ahmed	-	-
Interior : -	-	-



RYAN PRIVATE LIMITED

t : +9603315049 f : +9603310776
e : info@ryan.com.mv
w : www.ryan.com.mv
3rd floor, H. Azum, Ameenemoggu, Male'

Title: First Floor
FDP Layout

Page: FDP 02-02

The contents of these drawings remain as a property of RYAN Private Limited. Any use other than those expressly stated is a violation of this copyright