

# **FINANCIAL SERVICES COMMISSION BUILDING**

## **Little Bay, Montserrat**

### **Part B-Work Requirements**

#### **10.3 MEP Drawings Set**

**KJ Cassell Consultants Ltd**  
P.O. Box 313  
Gerald's, Montserrat, MSR 1110

Office : 664-491-2819  
Mobile: 664-492-1282  
E-mail: [kencassell@gmail.com](mailto:kencassell@gmail.com)



**EDC CONSULTANTS LIMITED**

42, Luis Street  
Port of Spain  
Trinidad, W.I.  
Tel: 1 (868) 628-8604 / 2661  
Fax: 1 (868) 622-7775

**PROJECT:** Financial Services Commission Building  
**PROJECT NO.** 19-010

DAY  
MONTH  
YEAR

[illegible]

DRAWING NUMBER	SCALE	DESCRIPTION
<b>E**</b>		<b>ELECTRICAL</b>
E01	1/16" : 1'-0"	Electrical Site Plan
E02	1/16" : 1'-0"	External Lighting Layout
E03	1/16" : 1'-0"	External Grounding Layout
E04	3/16" : 1'-0"	Level 1 - Lighting Layout
E05	3/16" : 1'-0"	Level 1 - Power Layout
E06	3/16" : 1'-0"	Level 2 - Lighting Layout
E07	3/16" : 1'-0"	Level 2 - Power Layout
E08	3/16" : 1'-0"	Level 3 - Lighting Layout
E09	3/16" : 1'-0"	Level 3 - Power Layout
E10	3/16" : 1'-0"	Level 1 - AC Power Layout
E11	3/16" : 1'-0"	Level 2 - AC Power Layout
E12	3/16" : 1'-0"	Level 3 - AC Power Layout
E13	NTS	Main Electrical Single Line Schematic
E14	NTS	Panel Schedules
E15	3/16" : 1'-0"	Level 1 - Security Layout
E16	3/16" : 1'-0"	Level 2 - Security Layout
E17	3/16" : 1'-0"	Level 3 - Security Layout
F01	3/16" : 1'-0"	Level 1 - Fire Alarm Layout
F02	3/16" : 1'-0"	Level 2 - Fire Alarm Layout
F03	3/16" : 1'-0"	Level 3 - Fire Alarm Layout
<b>P**</b>		<b>PLUMBING</b>
P01	1/16" : 1'-0"	Wastewater Site Plan
P02	1/16" : 1'-0"	Water Reticulation Site Plan
P03	3/16" : 1'-0"	Level 1 - Wastewater Layout
P04	3/16" : 1'-0"	Level 2 - Wastewater Layout
P05	3/16" : 1'-0"	Level 3 - Wastewater Layout
P06	3/16" : 1'-0"	Level 1 - Water Reticulation Layout
P07	3/16" : 1'-0"	Level 2 - Water Reticulation Layout
P08	3/16" : 1'-0"	Level 3 - Water Reticulation Layout
P09	NTS	Wastewater Isometric Layout
P10	NTS	Potable Water Isometric Layout
P11	NTS	Sewer Details
P12	NST	Water Reticulation Details
<b>AC**</b>		<b>AIR CONDITIONING</b>
AC01	1/16" : 1'-0"	HVAC Site Plan
AC02	3/16" : 1'-0"	Level 1 - HVAC Layout
AC03	3/16" : 1'-0"	Level 2 - HVAC Layout
AC04	3/16" : 1'-0"	Level 3 - HVAC Layout
AC05	3/16" : 1'-0"	Level 1 - VRF Piping Layout
AC06	3/16" : 1'-0"	Level 2 - VRF Piping Layout
AC07	3/16" : 1'-0"	Level 3 - VRF Piping Layout
AC08	NTS	HVAC Ducting Details
AC09	NTS	HVAC Piping Details

[illegible]

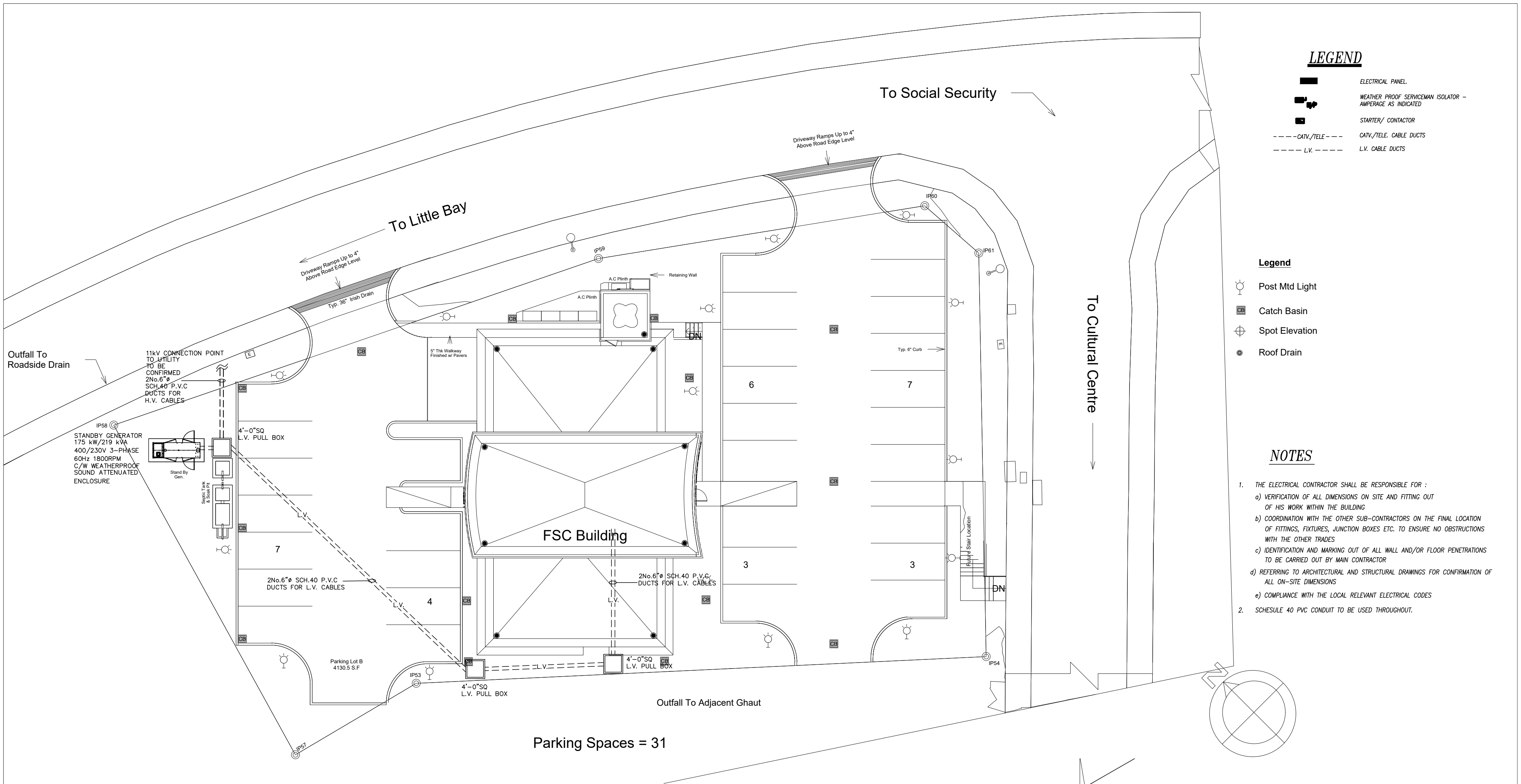
## DISTRIBUTION

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QUANTITY SURVEYOR
SECURITY CONSULTANT
AV/IT CONSULTANT
MAIN CONTRACTOR
ELECTRICAL CONTRACTOR
HVAC CONTRACTOR
PLUMBING CONTRACTOR
FIRE / SECURITY CONTRACTOR

[illegible]**DESIGN / CONSTRUCTION STATUS**[illegible]

**CODE:** P - Preliminary, D - Design, T - Tender, C - Construction, SA - Statutory Approval





**LEGEND**

- ELECTRICAL PANEL.
- WEATHER PROOF SERVICEMAN ISOLATOR - AMPERAGE AS INDICATED
- STARTER/ CONTACTOR
- CATV/TELE. CABLE DUCTS
- L.V. CABLE DUCTS

**Legend**

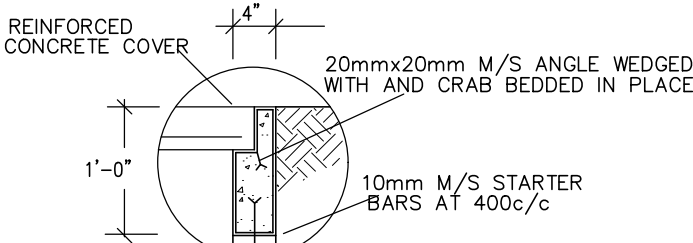
- Post Mtd Light
- Catch Basin
- Spot Elevation
- Roof Drain

**NOTES**

- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR :
  - VERIFICATION OF ALL DIMENSIONS ON SITE AND FITTING OUT OF HIS WORK WITHIN THE BUILDING
  - COORDINATION WITH THE OTHER SUB-CONTRACTORS ON THE FINAL LOCATION OF FITTINGS, FIXTURES, JUNCTION BOXES ETC. TO ENSURE NO OBSTRUCTIONS WITH THE OTHER TRADES
  - IDENTIFICATION AND MARKING OUT OF ALL WALL AND/OR FLOOR PENETRATIONS TO BE CARRIED OUT BY MAIN CONTRACTOR
  - REFERRING TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CONFIRMATION OF ALL ON-SITE DIMENSIONS
  - COMPLIANCE WITH THE LOCAL RELEVANT ELECTRICAL CODES
- SCHESULE 40 PVC CONDUIT TO BE USED THROUGHOUT.

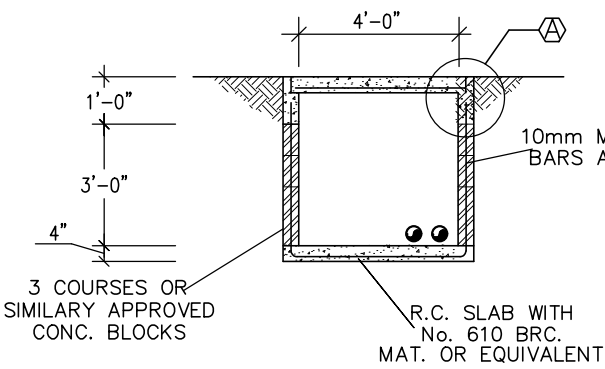
**ELECTRICAL SITE PLAN**

SCALE: 1/16"=1'-0"

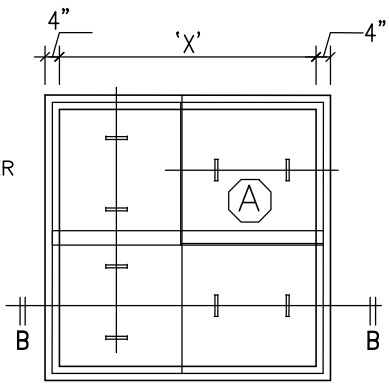


NOTES H.V. PULLBOX (A) X = 6'-0", Y = 3'-0" (H.V.)

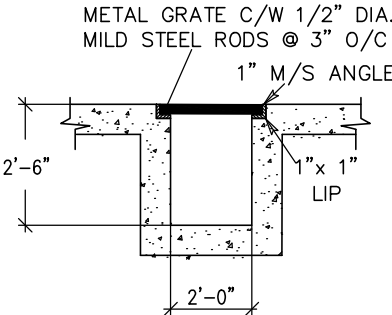
H.V. PULLBOX DETAILS SCALE: N.T.S.



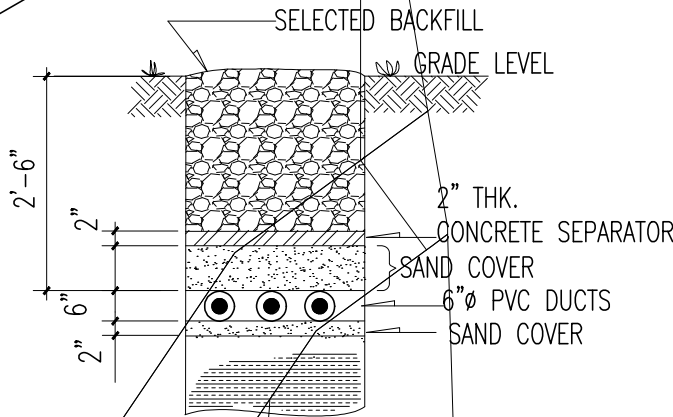
L.V. PULLBOX SECTION B-B SCALE: N.T.S.



NOTES L.V. PULLBOX (A) X = 4'-0" Y = 4'-0" CATV/TELE. (B) X = 2'-0" Y = 2'-0"



CABLE TRENCH/ GRATING DETAIL SCALE: N.T.S.

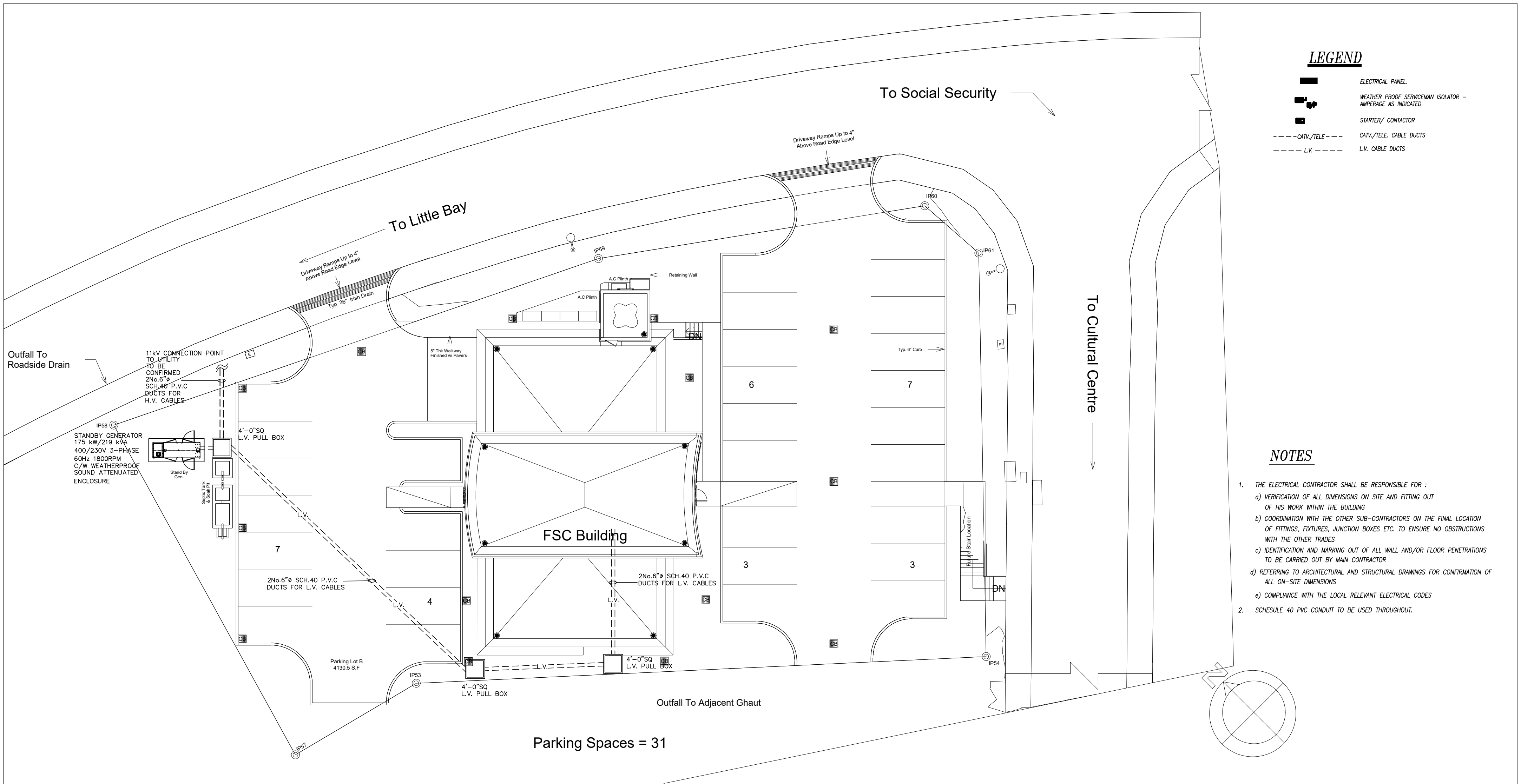


L.V. CABLE TRENCH DETAIL N.T.S.

REVISION	DATE	DESCRIPTION	BY	APP'D
1	03.03.2020	GENERAL REVISION	A.F.S.	

1	03.03.2020	GENERAL REVISION	A.F.S.
REVISION	DATE	DESCRIPTION	BY APP'D
		Financial Services Commission Building Little Bay, Montserrat	
		<b>K. J. CASSELL CONSULTANTS LTD</b> Architects Engineers Project Managers Box 313 Gerald's Montserrat 664-491-2819 Kencassell@gmail.com	
		<b>EDC CONSULTANTS LIMITED</b> MEP LIFE SAFETY & SECURITY CONSULTING ENGINEERS 42, Luis Street, Woodbrook P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax:(868)622-7775	
FILE NAME:	electrical.site.plan	TRADE:	ELECTRICAL
DWG. TITLE:			ELECTRICAL SITE PLAN
DESIGNED:	E.D.C	CHECKED:	
DRAWN:	D.PITILAL	SCALE:	3/32" = 1'-0"
DATE:	25.09.19	APP'D:	
PROJECT No.:	19-010	DWG. No.:	E-01
		REVISION:	1





LEGEND

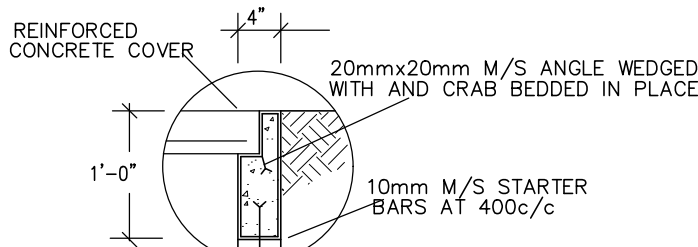
- ELECTRICAL PANEL.
- WEATHER PROOF SERVICEMAN ISOLATOR - AMPERAGE AS INDICATED
- STARTER/ CONTACTOR
- CATV/TELE. CABLE DUCTS
- L.V. CABLE DUCTS

NOTES

- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR :
  - VERIFICATION OF ALL DIMENSIONS ON SITE AND FITTING OUT OF HIS WORK WITHIN THE BUILDING
  - COORDINATION WITH THE OTHER SUB-CONTRACTORS ON THE FINAL LOCATION OF FITTINGS, FIXTURES, JUNCTION BOXES ETC. TO ENSURE NO OBSTRUCTIONS WITH THE OTHER TRADES
  - IDENTIFICATION AND MARKING OUT OF ALL WALL AND/OR FLOOR PENETRATIONS TO BE CARRIED OUT BY MAIN CONTRACTOR
  - REFERRING TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CONFIRMATION OF ALL ON-SITE DIMENSIONS
  - COMPLIANCE WITH THE LOCAL RELEVANT ELECTRICAL CODES
- SCHESULE 40 PVC CONDUIT TO BE USED THROUGHOUT.

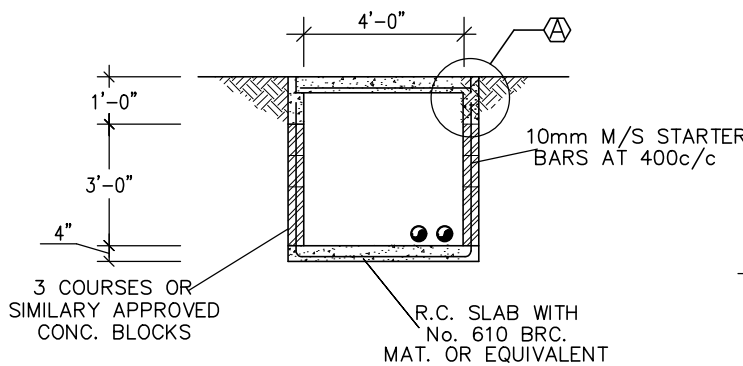
ELECTRICAL SITE PLAN

SCALE: 1/16"=1'-0"

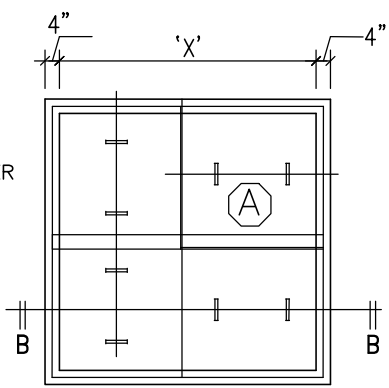


NOTES H.V. PULLBOX (A) X = 6'-0", Y = 3'-0" (H.V.)

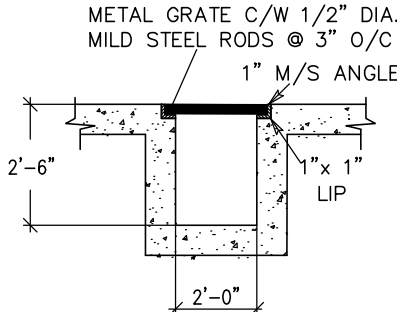
H.V. PULLBOX DETAILS SCALE: N.T.S.



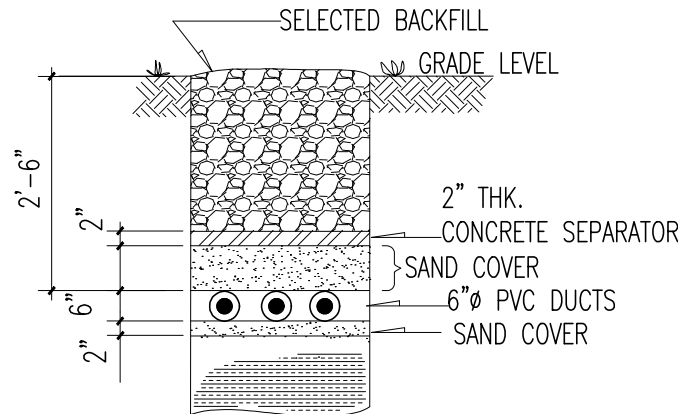
L.V. PULLBOX SECTION B-B SCALE: N.T.S.



PULLBOX - PLAN NOTES L.V. PULLBOX (A) X = 4'-0" Y = 4'-0" CATV/TELE. (B) X = 2'-0" Y = 2'-0"



CABLE TRENCH/ GRATING DETAIL SCALE: N.T.S.

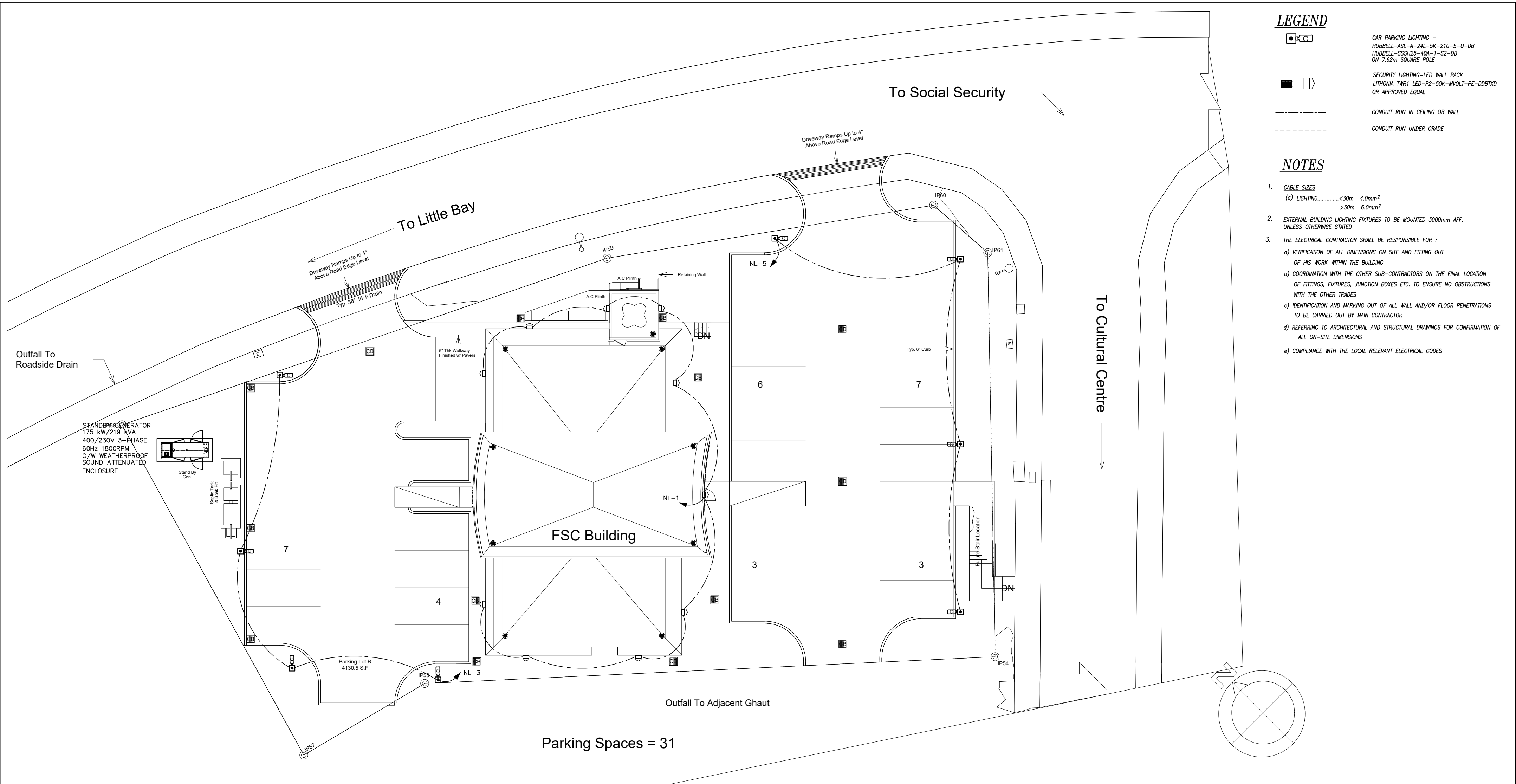


L.V. CABLE TRENCH DETAIL N.T.S.

REVISION	DATE	DESCRIPTION	BY	APP'D

1	03.03.2020	GENERAL REVISION	A.F.S.
REVISION	DATE	DESCRIPTION	BY
		Financial Services Commission Building Little Bay, Montserrat	
		K. J. CASSELL CONSULTANTS LTD Architects Engineers Project Managers Box 313 Gerald's Montserrat 664-491-2819 Kencassell@gmail.com	
		EDC CONSULTANTS LIMITED MEP LIFE SAFETY & SECURITY CONSULTING ENGINEERS 42, Luis Street, Woodbrook P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax:(868)622-7775	
FILE NAME:	electrical.site.plan	TRADE:	ELECTRICAL
		DWG. TITLE:	ELECTRICAL SITE PLAN
DESIGNED:	E.D.C	CHECKED:	
DRAWN:	D.PITILAL	SCALE:	3/32" = 1'-0"
DATE:	25.09.19	APP'D:	
		PROJECT No:	19-010
		DWG. No:	E-01
		REVISION:	1





LEGEND



CAR PARKING LIGHTING -  
HUBBELL-ASL-A-24L-5K-210-5-U-DB  
HUBBELL-SSSH25-40A-1-S2-DB  
ON 7.62m SQUARE POLE



SECURITY LIGHTING-LED WALL PACK  
LITHONIA TWR1 LED-P2-50K-MVOLT-PE-DBBTD  
OR APPROVED EQUAL



CONDUIT RUN IN CEILING OR WALL



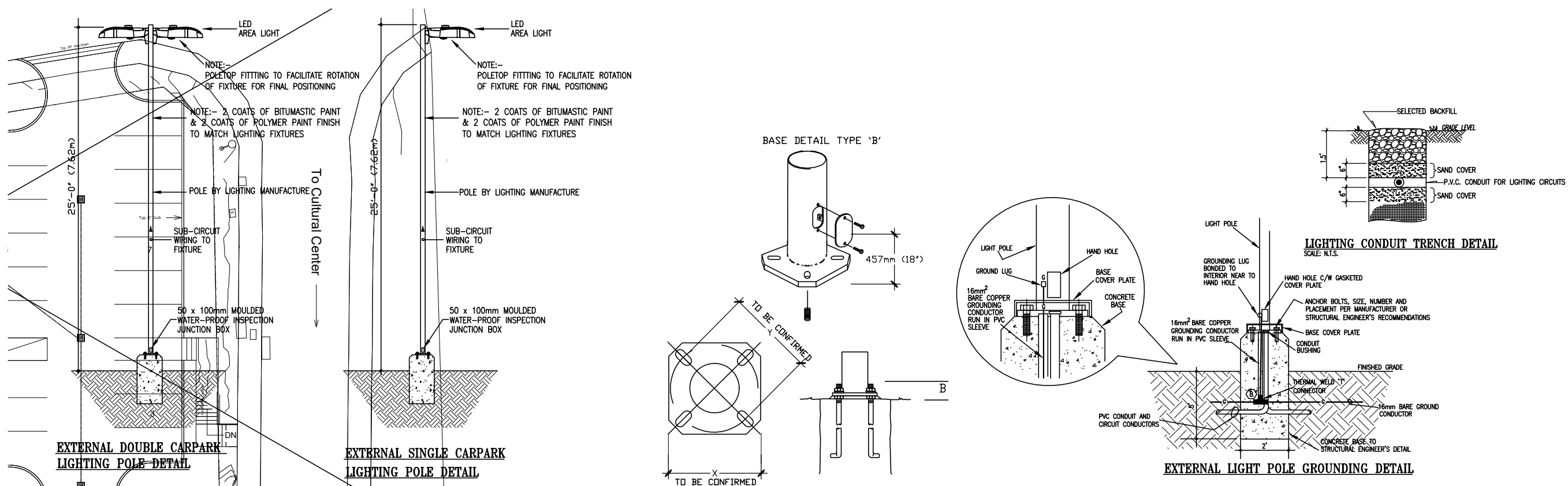
CONDUIT RUN UNDER GRADE

NOTES

- CABLE SIZES  
(a) LIGHTING.....<30m 4.0mm<sup>2</sup>  
>30m 6.0mm<sup>2</sup>
- EXTERNAL BUILDING LIGHTING FIXTURES TO BE MOUNTED 3000mm AFF. UNLESS OTHERWISE STATED
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR :
  - VERIFICATION OF ALL DIMENSIONS ON SITE AND FITTING OUT OF HIS WORK WITHIN THE BUILDING
  - COORDINATION WITH THE OTHER SUB-CONTRACTORS ON THE FINAL LOCATION OF FITTINGS, FIXTURES, JUNCTION BOXES ETC. TO ENSURE NO OBSTRUCTIONS WITH THE OTHER TRADES
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  - COMPLIANCE WITH THE LOCAL RELEVANT ELECTRICAL CODES

EXTERNAL LIGHTING LAYOUT

SCALE: 1/16"=1'-0"



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1	03.03.2020	GENERAL REVISION	A.F.S.
REVISION	DATE	DESCRIPTION	BY APP'D
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		<b>K. J. CASSELL CONSULTANTS LTD</b> Architects Engineers Project Managers Box 313 Gerald's Montserrat 664-491-2819 Kencassel@gmail.com	
		<b>EDC CONSULTANTS LIMITED</b> MEP LIFE SAFETY & SECURITY CONSULTING ENGINEERS 42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax:(868)622-7775	
FILE NAME:	external lighting	TRADE:	ELECTRICAL
DWG. TITLE:			EXTERNAL LIGHTING LAYOUT
DESIGNED:	E.D.C	CHECKED:	
DRAWN:	D.PITILAL	SCALE:	3/32" = 1'-0"
DATE:	25.09.19	APPROVED:	
PROJECT No:	19-010	DWG. No:	E-02
		REVISION:	1

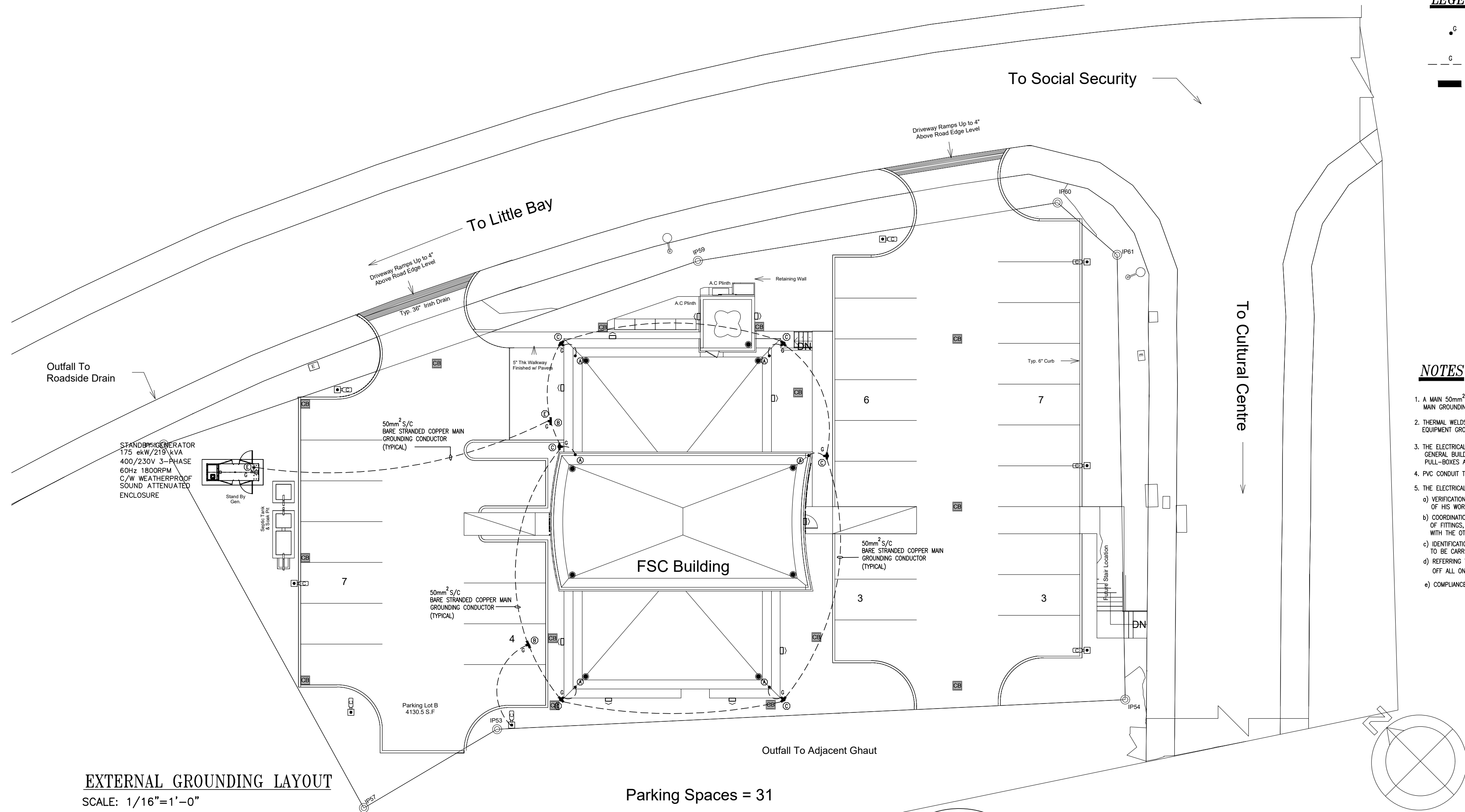


LEGEND

- GROUND ROD - 3.0m L. x 16mm DIA. WITH A MINIMUM OF 10 MIL THICKNESS COPPER - ERCO MODEL ERTECH COPPER BONDED STEEL GROUND ROD OR APPROVED EQUAL
- SINGLE CORE BARE COPPER GROUNDING CONDUCTOR - SIZE AS INDICATED
- ELECTRICAL PANEL

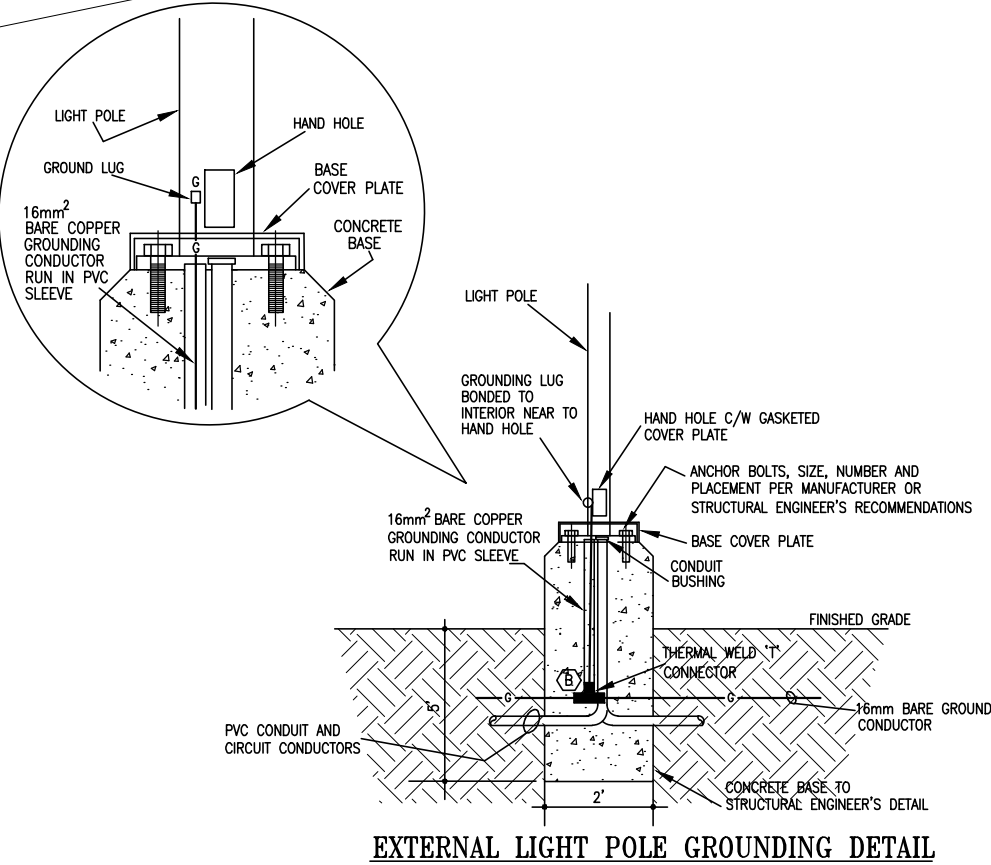
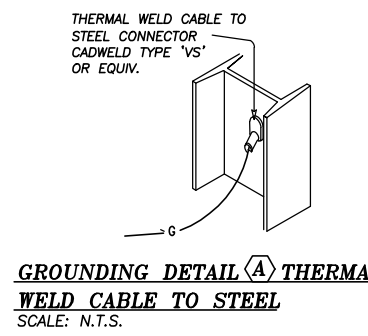
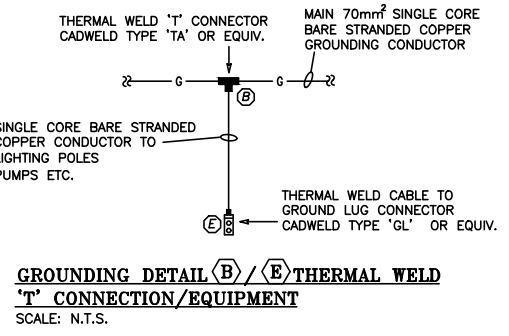
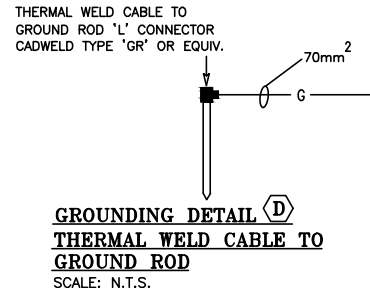
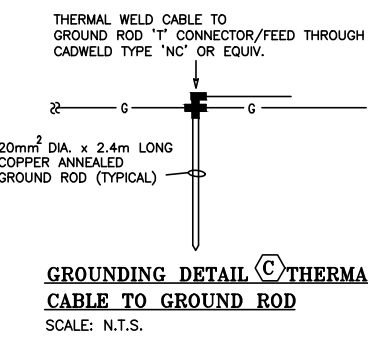
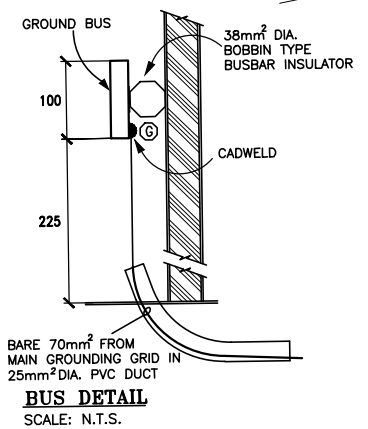
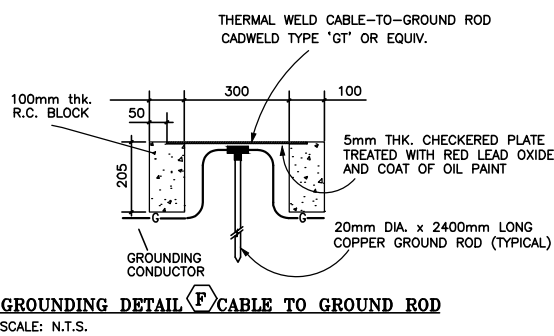
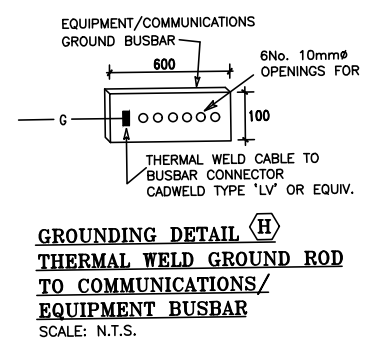
NOTES

1. A MAIN 50mm<sup>2</sup> SINGLE CORE BARE STRANDED COPPER MAIN GROUNDING GRID BE INSTALLED AS INDICATED
2. THERMAL WELDS TO BE USED THROUGHOUT EXCEPT TO EQUIPMENT GROUND LUG CONNECTIONS
3. THE ELECTRICAL CONTRACTOR IS TO CLOSELY COORDINATE WITH THE GENERAL BUILDING & PLUMBING CONTRACTORS ON THE EXACT LOCATIONS OF PULL-BOXES AND DUCT ROUTES.
4. PVC CONDUIT TO BE USED THROUGHOUT.
5. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR :
  - a) VERIFICATION OF ALL DIMENSIONS ON SITE AND FITTING OUT OF HIS WORK WITHIN THE BUILDING
  - b) COORDINATION WITH THE OTHER SUB-CONTRACTORS ON THE FINAL LOCATION OF FITTINGS, FIXTURES, JUNCTION BOXES ETC. TO ENSURE NO OBSTRUCTIONS WITH THE OTHER TRADES
  - c) IDENTIFICATION AND MARKING OUT OF ALL WALL AND/OR FLOOR PENETRATIONS TO BE CARRIED OUT BY MAIN CONTRACTOR
  - d) REFERRING TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CONFIRMATION OFF ALL ON-SITE DIMENSIONS
  - e) COMPLIANCE WITH THE LOCAL RELEVANT ELECTRICAL CODES





EXTERNAL GROUNDING LAYOUT

SCALE: 1/16"=1'-0"

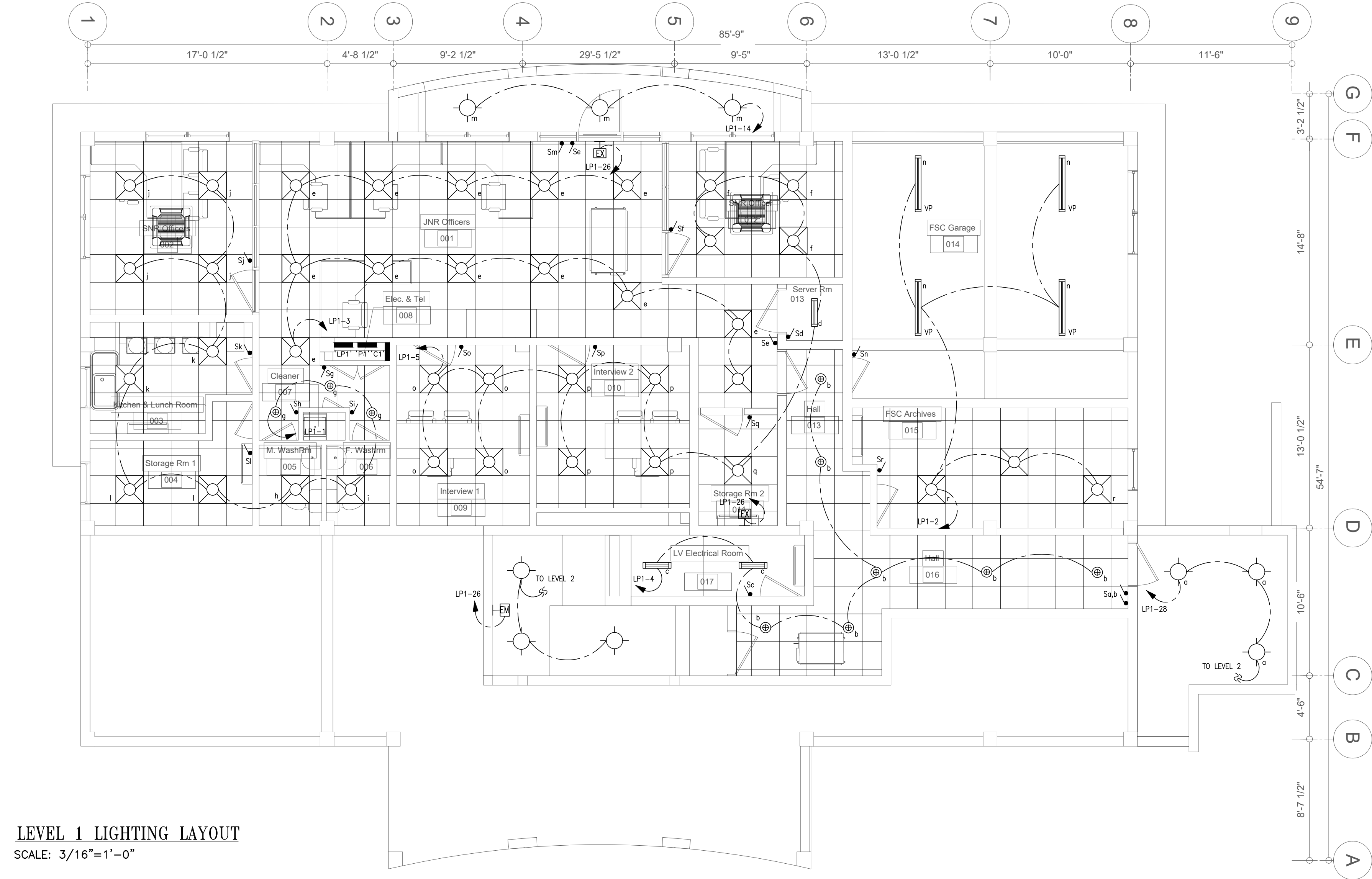


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REVISION	DATE	DESCRIPTION	BY	APP'D

1	04.03.2020	GENERAL REVISION		A.F.S.	
REVISION	DATE	DESCRIPTION		BY	APP'D
		Financial Services Commission Building Little Bay, Montserrat			
		 <b>K. J. CASSELL CONSULTANTS LTD</b> <ul style="list-style-type: none"><li>• Architects</li><li>• Engineers</li><li>• Project Managers</li></ul>		Box 313 Gerald's Montserrat 664-491-2819 Kencassell@gmail.com	
		<i><b>EDC CONSULTANTS LIMITED</b></i> MEP LIFE SAFETY & SECURITY CONSULTING ENGINEERS  42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax:(868)622-7775			
FILE NAME: external.grounding		TRADE:		<b>ELECTRICAL</b>	
		DWG. TITLE: <b>EXTERNAL GROUNDING LAYOUT</b>			
DESIGNED: E.D.C		CHECKED:		PROJECT No.: 19-010	
DRAWN: D.PITILAL		SCALE: 1/16" = 1'-0"		DWG. No.: E-03	
DATE: 25.09.19		APP'D:		REVISION: 1	





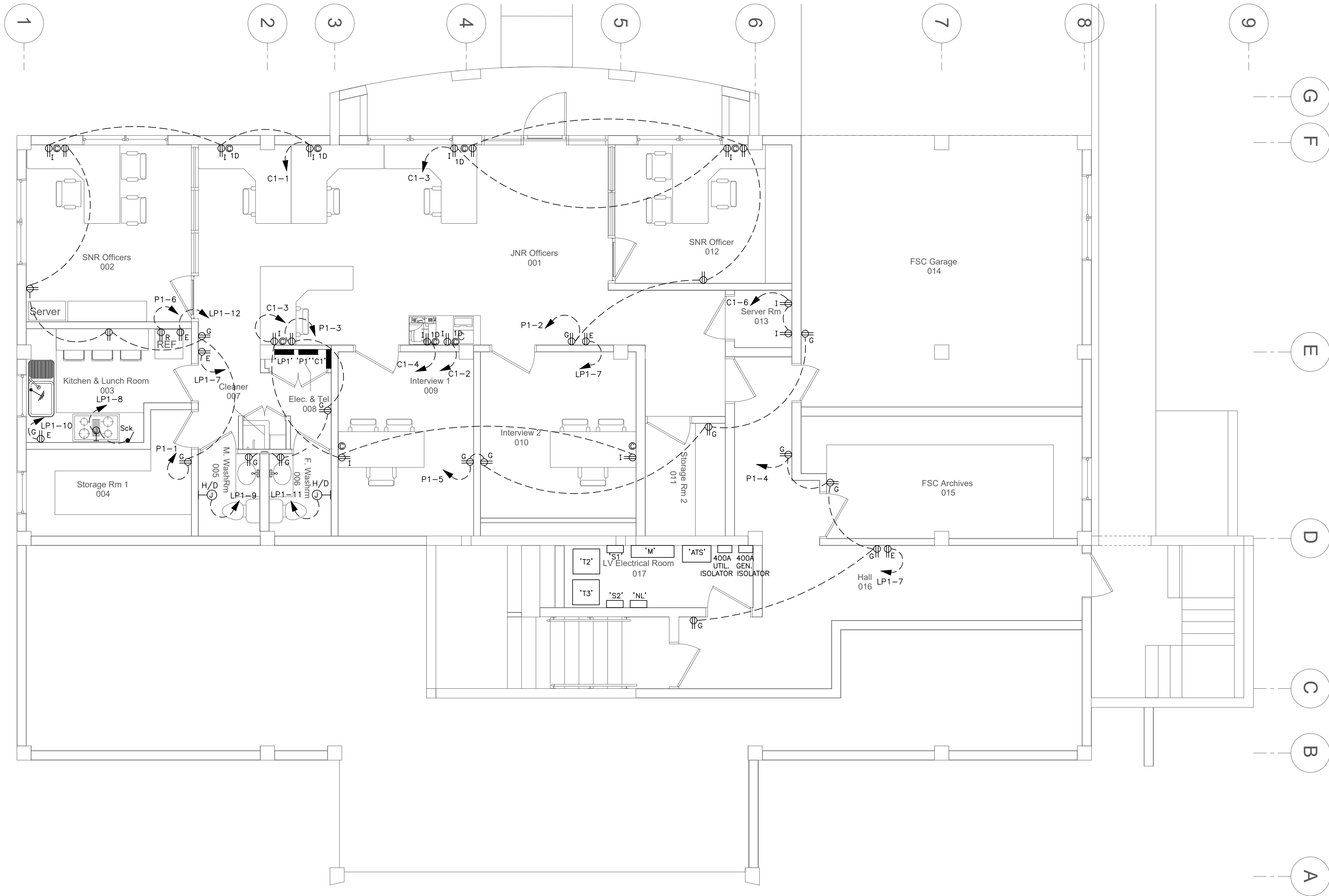
- LEGEND**
- CEILING MOUNTED LIGHT FIXTURE
  - 6" (150mm) Ø 13W LED DOWNLIGHTER – LITHONIA LIGHTING CAT. No. 500K/80CRI/14.4W/1210L MW (MATTE WHITE)
  - 2' x 2' 32W LED RECESSED FLUORESCENT – SYLVANIA LUMINAIRES EDGE-LIT PANEL CAT. No. F1A/032UNVD850/24EC/WH
  - 2'-0" 25W LED VAPOURPROOF FLUORESCENT – SYLVANIA LUMINAIRES VAPOR TIGHT PANEL CAT. No. 1A/025UNVD850/24EC/GR
  - 4'-0" 20W LED VAPOURPROOF FLUORESCENT – SYLVANIA LUMINAIRES VAPOR TIGHT PANEL CAT. No. 1B/020UNVD850/24EC/GR
  - EMERGENCY LIGHTING – LITHONIA LIGHTING CAT. No. ELM6L-LTP-HO 120/277V OR APPROVED EQUAL
  - EMERGENCY EXIT LIGHTING – LITHONIA LIGHTING LED EXIT/EMERGENCY COMBO CAT. No. ECRLED M6 120/277V OR APPROVED EQUAL
  - LIGHT SWITCH MK LOGIC PLUS – 230V 20A SINGLE POLE 1 GANG SP ONE-WAY CAT. No. K4870D2WH
  - ELECTRICAL PANEL
  - CONDUIT RUN IN FLOOR
  - CONDUIT RUN IN CEILING OR WALL

- NOTES**
- LIGHT SWITCHES TO BE MOUNTED AT 5'-0" (1500mm) A.F.F. UNLESS OTHERWISE STATED
  - CABLE SIZES**  
LIGHTING.....<30m 2.5mm<sup>2</sup>  
LIGHTING.....>30m 4.0mm<sup>2</sup>
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR :
- VERIFICATION OF ALL DIMENSIONS ON SITE AND FITTING OUT OF HIS WORK WITHIN THE BUILDING
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  - COMPLIANCE WITH THE LOCAL RELEVANT ELECTRICAL CODES

**LEVEL 1 LIGHTING LAYOUT**  
SCALE: 3/16"=1'-0"

REVISION	DATE	DESCRIPTION	BY	APP'D
		Financial Services Commission Building Little Bay, Montserrat		
		<b>K. J. CASSELL CONSULTANTS LTD</b> Architects Engineers Project Managers Box 313 Geraldine Montserrat 664-491-2819 Kencassell@gmail.com		
		<b>EDC CONSULTANTS LIMITED</b> MEP LIFE SAFETY & SECURITY CONSULTING ENGINEERS 42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax:(868)622-7775		
FILE NAME:	TRADE:	<b>ELECTRICAL</b>		
	DWG. TITLE:	<b>LEVEL 1 FLOOR PLAN LIGHTING LAYOUT</b>		
DESIGNED: E.D.C	CHECKED:	PROJECT No:	19-010	
DRAWN: D.PITILAL	SCALE: 3/16" = 1'-0"	DWG. No:	E-04	REVISION: 0
DATE: 23.09.2019	APP'D:			





LEGEND

- ⊕ DUPLEX, CONVENIENCE OUTLET – 15A 125V DUPLEX WITH 'U' GROUND LEVITON DECORA 16252-I, I,W,G,Y,E,A OR EQUAL APPROVED
- ⊕<sup>R</sup> AS ABOVE – REFRIGERATOR
- ⊕<sup>I</sup> ISOLATOR GROUND – LEVITON DECORA CAT. No. 8280-IGB
- ⊕<sup>G</sup> GROUND FAULT – LEVITON DECORA GFCI CAT. No. 8598-I
- ⊕<sup>F</sup> DUPLEX SWITCHED OUTLET – 230V 13A RCD MK K6231WHI
- ⊕<sup>#</sup> COOKTOP CONTROL SWITCHED OUTLET 230V 45A MK K5061WHI
- ⊕<sup>C</sup> COMMUNICATION (VOICE/DATA) OUTLET
- ⊕<sup>H</sup> HDMI OUTLET – WALL MOUNTED
- ⊕<sup>I</sup> POWERT & COMMUNICATIONS FLUSH FLOOR MOUNTED BOX HUBBELL
- SYSTEM ONE: –
- 1NO. 4-GANG FLOOR BOX – CAT. NO. CFB4G25
- 1NO. COVER PLATES (BRASS FINISH) – CAT. NO. 24GTCVRBRS
- 2NO. PLATES DUPLEX OPENING – CAT. NO. FBMPDUP
- 1NO. PLATE HUBBELL ISF6 FRAME FOR KEYSTONE JACKS – CAT. NO. FBMP6KS
- 1NO. DUPLEX OUTLET – 15A 125V – CAT. NO. BR151
- 1NO. DATA JACK – CATEGORY 6/ CAT. NO. HXJ6XX
- 1NO. DATA JACK – CATEGORY 3/ CAT. NO. HXJ6XX
- ⊕<sup>J</sup> CEILING MOUNTED J/BOX
- ⊕<sup>J</sup> WALL MOUNTED JUNCTION BOX.
- ⊕<sup>H/D</sup> HAND DRYER – SWITCHED.
- ISOLATOR SERVICEMAN – AMPERAGE RATING AS INDICATED.
- <sup>W/P</sup> AS ABOVE – C/W WEATHERPROOF ENCLOSURE.
- COMBINATION ISOLATOR/STARTER RATING AS INDICATED.
- ELECTRICAL PANEL.
- CONDUIT RUN IN CEILING OR WALL
- CONDUIT RUN IN FLOOR.

NOTES

- POWER AND DATA OUTLETS TO BE MOUNTED AT 1'-6"A.F.F. UNLESS OTHERWISE STATED.
- EPR CLASS 854 (B.S. 6195) CABLES ARE TO BE USED ON ALL COOKING LINE EQUIPMENT. 12'-0" CABLE LENGTHS ARE TO BE PROVIDED TO ALLOW FOR MAINTENANCE.
- A CONDUIT/TRUNKING SYSTEM IS TO BE INSTALLED FOR THE DATA CABLES – 2" DIA. CONDUIT RUN OVERHEAD & DOWN WALLS LINKING ALL DATA OUTLETS.
- A CONDUIT SYSTEM INSTALLATION IS TO BE PROVIDED FOR THE FIRE DETECTION AND SECURITY ALARM SYSTEMS.
- CABLE SIZES**  
(a) CONV. OUTLETS  
15A SINGLE CIRCUIT – 3x2.5mm<sup>2</sup>  
20A CIRCUITS – 3x2.5mm<sup>2</sup>  
30A CIRCUITS – 2x4.0mm<sup>2</sup>  
1x2.5mm<sup>2</sup>  
(b) 240V SINGLE PHASE CIRCUITS  
15A & 20A CIRCUITS – 4x2.5mm<sup>2</sup>  
30A CIRCUITS – 3x4.0mm<sup>2</sup>  
30A CIRCUITS – 2x2.5mm<sup>2</sup>  
(c) 240V THREE PHASE CIRCUITS  
15A & 20A CIRCUITS – 4x2.5mm<sup>2</sup>  
50A CIRCUITS – 3x10mm<sup>2</sup>  
1x6.0mm<sup>2</sup>  
70A CIRCUITS – 3x16mm<sup>2</sup>  
1x10mm<sup>2</sup>

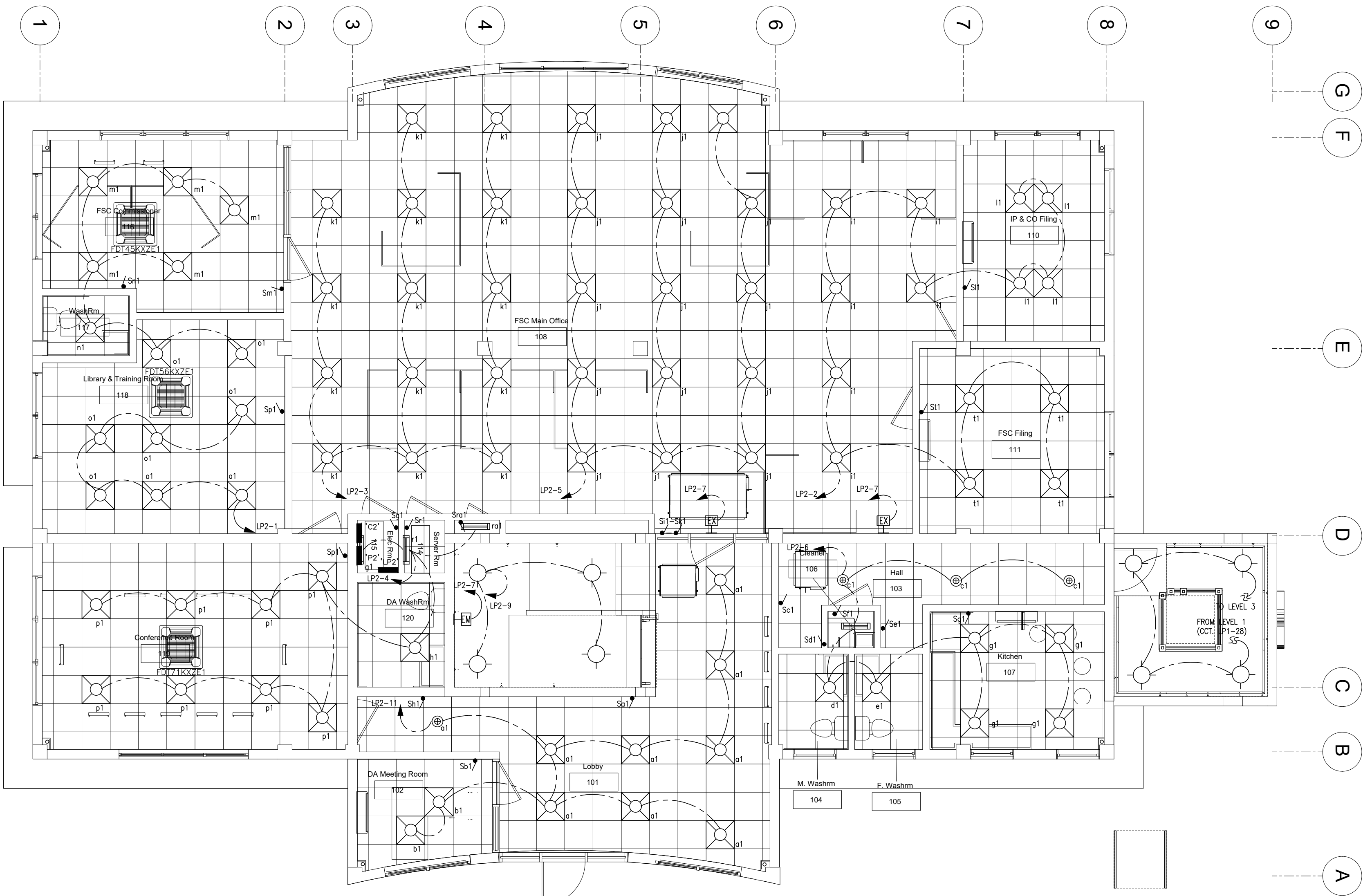
LEVEL 1 POWER LAYOUT

SCALE: 3/16"=1'

REVISION	DATE	DESCRIPTION	BY	APP'D

REVISION	DATE	DESCRIPTION	BY	APP'D
		Financial Services Commission Building Little Bay, Montserrat		
		<b>K. J. CASSELL CONSULTANTS LTD</b> Architects Engineers Project Managers Box 313 Gerald's Montserrat 664-491-2819 Kencassell@gmail.com		
		<b>EDC CONSULTANTS LIMITED</b> MEP LIFE SAFETY & SECURITY CONSULTING ENGINEERS 42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax:(868)622-7775		
FILE NAME: lv11.power.layout	TRADE: <b>ELECTRICAL</b>			
	DWG. TITLE: <b>LEVEL 1 FLOOR PLAN POWER LAYOUT</b>			
DESIGNED: E.D.C	CHECKED: 	PROJECT No.: <b>19-010</b>		
DRAWN: A. SHAH	SCALE: 3/16" = 1'-0"	DWG. No.: <b>E-05</b>	REVISION: <b>0</b>	
DATE: 25.09.19	APP'D: 			





LEGEND

- CEILING MOUNTED LIGHT FIXTURE
- 6" (150mm) 13W LED DOWNLIGHTER - LITHONIA LIGHTING CAT. No. 500K/80CRI/14.4W/1210L MW (MATTE WHITE)
- 2' x 2' 32W LED RECESSED FLUORESCENT - SYLVANIA LUMINAIRE EDGE-LIT PANEL CAT. No. F1A/032UNVD850/24EC/WH
- 2'-0" 25W LED VAPOURPROOF FLUORESCENT - SYLVANIA LUMINAIRE VAPOR TIGHT PANEL CAT. No. 1A/025UNVD850/24EC/GR
- 4'-0" 20W LED VAPOURPROOF FLUORESCENT - SYLVANIA LUMINAIRE VAPOR TIGHT PANEL CAT. No. 1B/020UNVD850/24EC/GR
- EMERGENCY LIGHTING - LITHONIA LIGHTING CAT. No. ELMEL-LTP-HO 120/277V OR APPROVED EQUAL
- EMERGENCY EXIT LIGHTING - LITHONIA LIGHTING LED EXIT/EMERGENCY COMBO CAT. No. EORLED M6 120/277V OR APPROVED EQUAL
- LIGHT SWITCH MK LOGIC PLUS - 230V 20A SINGLE POLE 1 GANG SP ONE-WAY CAT. No. K487002WH
- ELECTRICAL PANEL
- CONDUIT RUN IN FLOOR
- CONDUIT RUN IN CEILING OR WALL

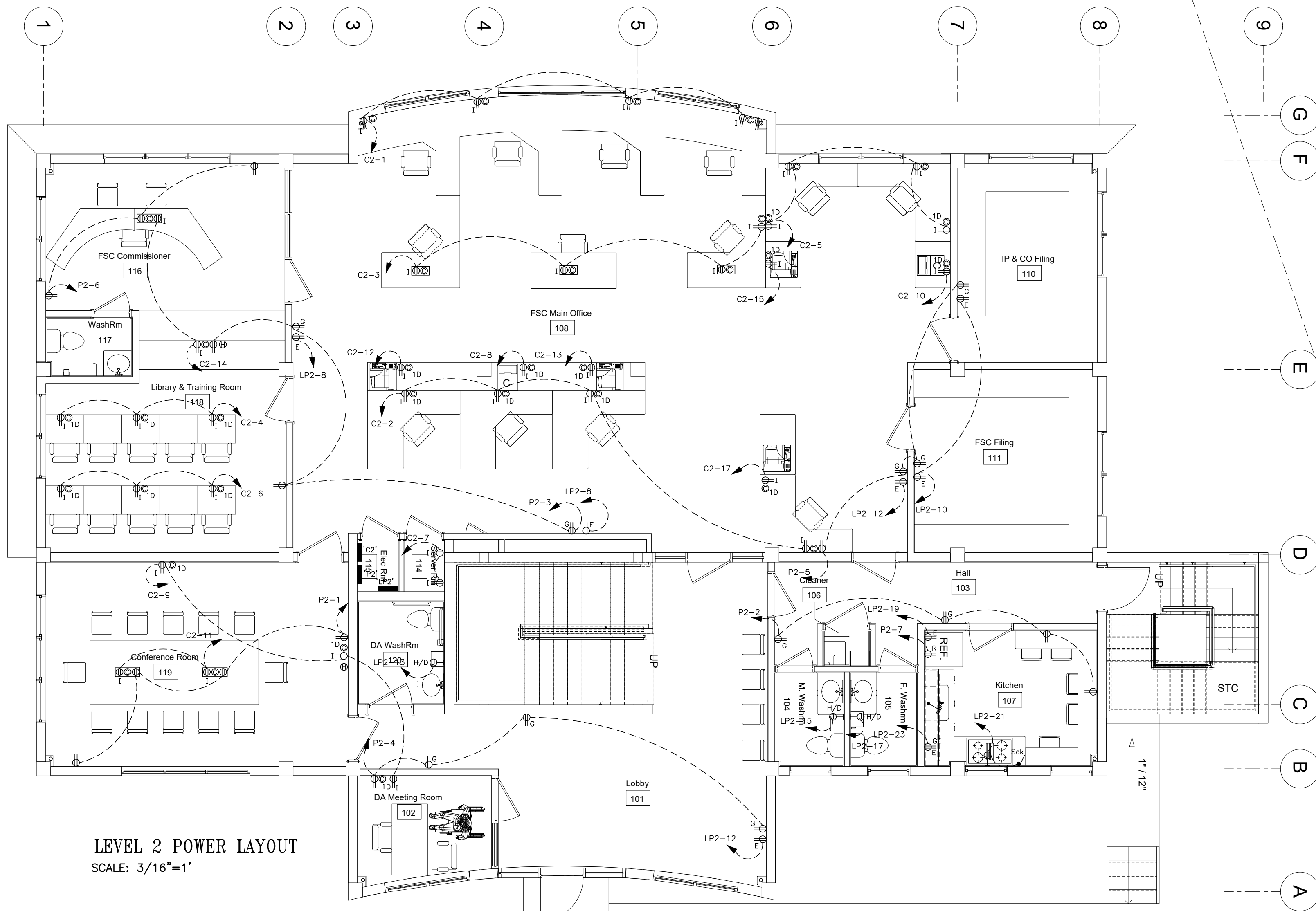
NOTES

- LIGHT SWITCHES TO BE MOUNTED AT 5'-0" (1500mm) A.F.F. UNLESS OTHERWISE STATED
  - CABLE SIZES
- |                   |                    |
|-------------------|--------------------|
| LIGHTING.....<30m | 2.5mm <sup>2</sup> |
| LIGHTING.....>30m | 4.0mm <sup>2</sup> |
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR :
- VERIFICATION OF ALL DIMENSIONS ON SITE AND FITTING OUT OF HIS WORK WITHIN THE BUILDING
  - COORDINATION WITH THE OTHER SUB-CONTRACTORS ON THE FINAL LOCATION OF FITTINGS, FIXTURES, JUNCTION BOXES ETC. TO ENSURE NO OBSTRUCTIONS WITH THE OTHER TRADES
  - IDENTIFICATION AND MARKING OUT OF ALL WALL AND/OR FLOOR PENETRATIONS TO BE CARRIED OUT BY MAIN CONTRACTOR
  - REFERRING TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CONFIRMATION OFF ALL ON-SITE DIMENSIONS
  - COMPLIANCE WITH THE LOCAL RELEVANT ELECTRICAL CODES

LEVEL 2 LIGHTING LAYOUT

SCALE: 3/16"=1'-0"





**LEVEL 2 POWER LAYOUT**  
SCALE: 3/16"=1'

## LEGEND

- DUPLEX CONVENIENCE OUTLET - 15A 125V DUPLEX WITH 'U' GROUND LEVITON DECORA 16252-I, I.W.GY.E.A. OR EQUAL APPROVED
- AS ABOVE - REFRIGERATOR
- ISOLATOR GROUND - LEVITON DECORA CAT. No. 8280-IGB
- GROUND FAULT - LEVITON DECORA GFCI CAT. No. 8598-I
- DUPLEX SWITCHED OUTLET - 230V 13A RCD MK K6231WHI
- COOKTOP CONTROL SWITCHED OUTLET 230V 45A MK K5061WHI
- COMMUNICATION (VOICE/DATA) OUTLET
- POWER & COMMUNICATIONS FLUSH FLOOR MOUNTED BOX HUBBELL SYSTEM ONE:-
  - 1NO. 4-GANG FLOOR BOX - CAT. NO. CFB4G25
  - 1NO. COVER PLATES (BRASS FINISH) - CAT. NO. 24GTCVRBRS
  - 2NO. PLATES DUPLEX OPENING - CAT. NO. FBMPDUP
  - 1NO. PLATE HUBBELL ISF6 FRAME FOR KEYSTONE JACKS - CAT. NO. FBMP6KS
  - 1NO. DUPLEX OUTLET - 15A 125V - CAT. NO. BR151
  - 1NO. DATA JACK - CATEGORY 6/ CAT. NO. HXJ6XX
  - 1NO. DATA JACK - CATEGORY 3/ CAT. NO. HXJ6XX
- CEILING MOUNTED J/BOX
- WALL MOUNTED JUNCTION BOX.
- HAND DRYER - SWITCHED.
- ISOLATOR SERVICEMAN - AMPERAGE RATING AS INDICATED.
- AS ABOVE - C/W WEATHERPROOF ENCLOSURE.
- COMBINATION ISOLATOR/STARTER RATING AS INDICATED.
- ELECTRICAL PANEL.
- CONDUIT RUN IN CEILING OR WALL
- CONDUIT RUN IN FLOOR.

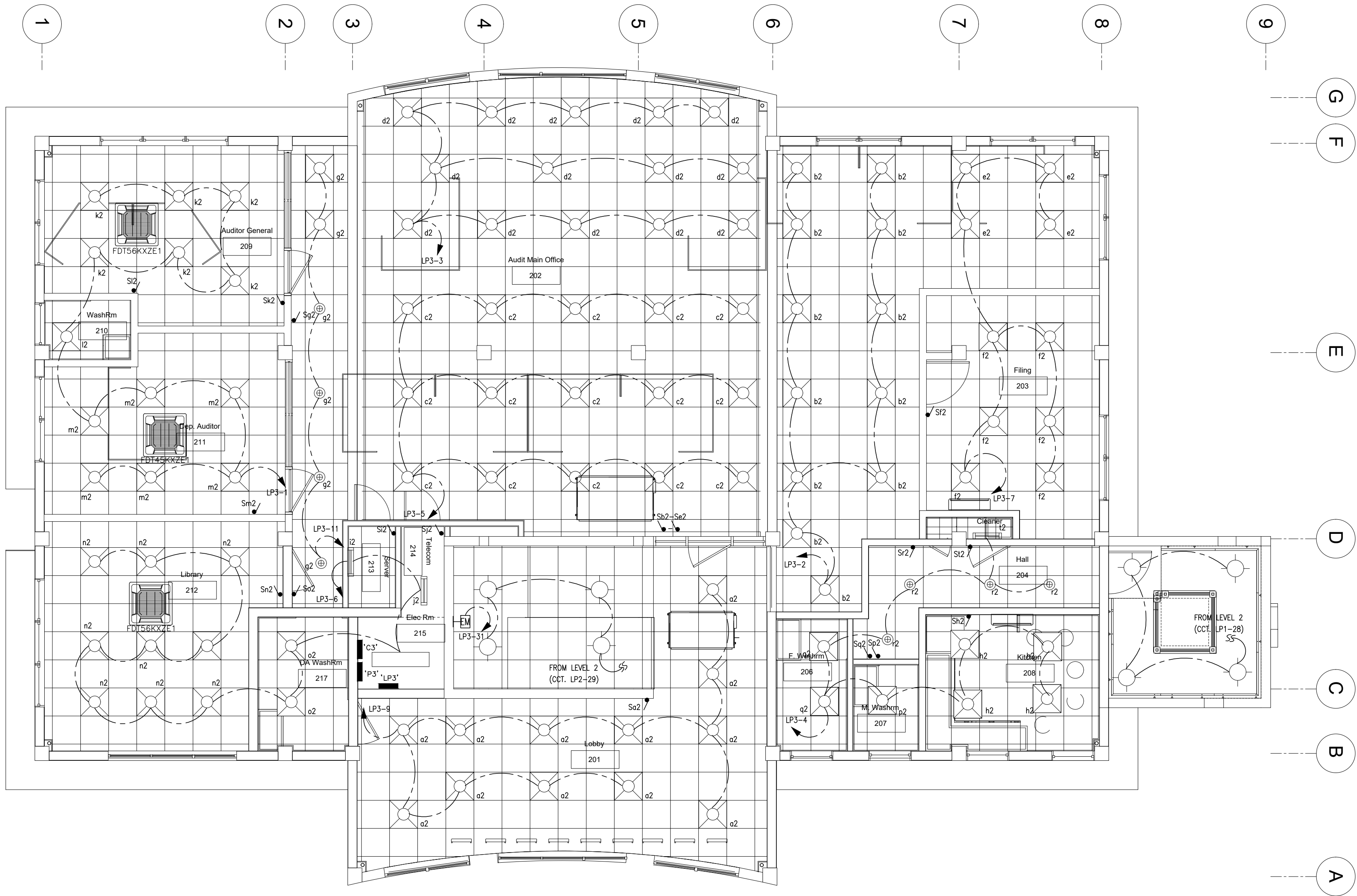
## NOTES

1. POWER AND DATA OUTLETS TO BE MOUNTED AT 1'-6"A.F.F. UNLESS OTHERWISE STATED.
2. EPR CLASS 854 (B.S. 6195) CABLES ARE TO BE USED ON ALL COOKING LINE EQUIPMENT. 12'-0" CABLE LENGTHS ARE TO BE PROVIDED TO ALLOW FOR MAINTENANCE.
3. A CONDUIT/TRUNKING SYSTEM IS TO BE INSTALLED FOR THE DATA CABLES - 2" DIA. CONDUIT RUN OVERHEAD & DOWN WALLS LINKING ALL DATA OUTLETS.
4. A CONDUIT SYSTEM INSTALLATION IS TO BE PROVIDED FOR THE FIRE DETECTION AND SECURITY ALARM SYSTEMS.
5. CABLE SIZES
 

(a) CONV. OUTLETS	
15A SINGLE CIRCUITS	3x2.5mm <sup>2</sup>
20A CIRCUITS	3x2.5mm <sup>2</sup>
30A CIRCUITS	2x4.0mm <sup>2</sup>
	1x2.5mm <sup>2</sup>
(b) 240V SINGLE PHASE CIRCUITS	
15A & 20A CIRCUITS	4x2.5mm <sup>2</sup>
30A CIRCUITS	3x4.0mm <sup>2</sup>
30A CIRCUITS	2x2.5mm <sup>2</sup>
(c) 240V THREE PHASE CIRCUITS	
15A & 20A CIRCUITS	4x2.5mm <sup>2</sup>
50A CIRCUITS	3x10mm <sup>2</sup>
	1x6.0mm <sup>2</sup>
70A CIRCUITS	3x16mm <sup>2</sup>
	1x10mm <sup>2</sup>

1	02.03.2020	GENERAL REVISION	A.F.S.
REVISION	DATE	DESCRIPTION	BY APP'D
Financial Services Commission Building Little Bay, Montserrat			
<div> <div> <b>K. J. CASSELL CONSULTANTS LTD</b>  Architects  Engineers  Project Managers </div> <div> Box 313  Geraldine  Montserrat  664-491-2819  Kencassell@gmail.com </div> </div>			
<div> <div> <b>EDC CONSULTANTS LIMITED</b>  MEP LIFE SAFETY &amp; SECURITY CONSULTING ENGINEERS  42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I.  Telephone: (868)628-8604 Fax: (868)622-7775 </div> </div>			
FILE NAME:	TRADE:	<b>ELECTRICAL</b>	
	DWG. TITLE:	<b>LEVEL 2 FLOOR PLAN POWER LAYOUT</b>	
DESIGNED: E.D.C	CHECKED:	PROJECT No.:	19-010
DRAWN: A. SHAH	SCALE: 3/16" = 1'-0"	DWG. No.:	E-07
DATE: 25.09.19	APP'D:	REVISION:	1







LEVEL 3 LIGHTING LAYOUT  
SCALE: 3/16"=1'-0"

LEGEND

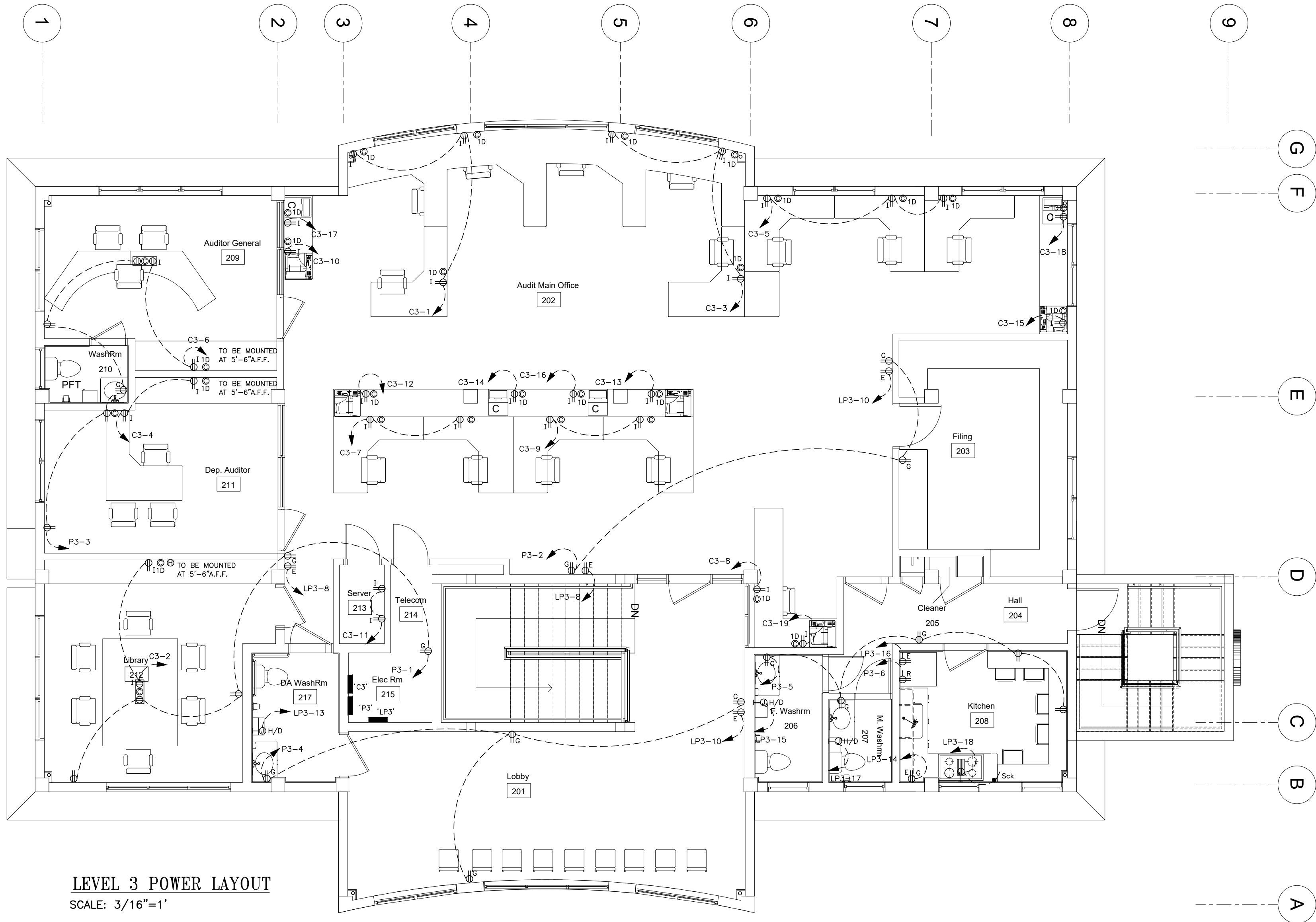
- CEILING MOUNTED LIGHT FIXTURE
- 6" (150mm) 13W LED DOWNLIGHTER - LITHONIA LIGHTING CAT. No. 500K/80CRI/14.4W/1210L MW (MATTE WHITE)
- 2' x 2' 32W LED RECESSED FLUORESCENT - SYLVANIA LUMINAIRE EDGE-LIT PANEL CAT. No. F1A/032UNV0850/22G/WH
- 2'-0" 25W LED VAPOURPROOF FLUORESCENT - SYLVANIA LUMINAIRE VAPOR TIGHT PANEL CAT. No. 1A/025UNV0850/24EC/GR
- 4'-0" 20W LED VAPOURPROOF FLUORESCENT - SYLVANIA LUMINAIRE VAPOR TIGHT PANEL CAT. No. 1B/020UNV0850/24EC/GR
- EMERGENCY LIGHTING - LITHONIA LIGHTING CAT. No. ELM6L-LTP-HD 120/277V OR APPROVED EQUAL
- EMERGENCY EXIT LIGHTING - LITHONIA LIGHTING LED EXIT/EMERGENCY COMBO CAT. No. ECRLED M6 120/277V OR APPROVED EQUAL
- LIGHT SWITCH MK LOGIC PLUS - 230V 20A SINGLE POLE 1 GANG SP ONE-WAY CAT. No. K487002WH
- ELECTRICAL PANEL
- CONDUIT RUN IN FLOOR
- CONDUIT RUN IN CEILING OR WALL

NOTES

- LIGHT SWITCHES TO BE MOUNTED AT 5'-0" (1500mm) A.F.F., UNLESS OTHERWISE STATED
- CABLE SIZES
  - LIGHTING.....<30m 2.5mm<sup>2</sup>
  - LIGHTING.....>30m 4.0mm<sup>2</sup>
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR :
  - VERIFICATION OF ALL DIMENSIONS ON SITE AND FITTING OUT OF HIS WORK WITHIN THE BUILDING
  - COORDINATION WITH THE OTHER SUB-CONTRACTORS ON THE FINAL LOCATION OF FITTINGS, FIXTURES, JUNCTION BOXES ETC. TO ENSURE NO OBSTRUCTIONS WITH THE OTHER TRADES
  - IDENTIFICATION AND MARKING OUT OF ALL WALL AND/OR FLOOR PENETRATIONS TO BE CARRIED OUT BY MAIN CONTRACTOR
  - REFERRING TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CONFIRMATION OFF ALL ON-SITE DIMENSIONS
  - COMPLIANCE WITH THE LOCAL RELEVANT ELECTRICAL CODES

1	03.03.2020	GENERAL REVISION		A.F.S.
REVISION	DATE	DESCRIPTION	BY	APP'D
		Financial Services Commission Building Little Bay, Montserrat		
		 K. J. CASSELL CONSULTANTS LTD <ul style="list-style-type: none"><li>Architects</li><li>Engineers</li><li>Project Managers</li></ul>		Box 313 Gerald's Montserrat 664-491-2819 Kencassell@gmail.com
		EDC CONSULTANTS LIMITED MEP LIFE SAFETY & SECURITY CONSULTING ENGINEERS <hr/> 42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax:(868)622-7775		
FILE NAME:		TRADE: ELECTRICAL		
		DWG. TITLE: LEVEL 3 FLOOR PLAN LIGHTING LAYOUT		
DESIGNED: E.D.C		CHECKED:	PROJECT No.: 19-010	
DRAWN: D.PITILAL		SCALE: 3/16" = 1'-0"	DWG. No.:	E-08
DATE: 23.09.2019		APP'D:	REVISION:	1







**LEVEL 3 POWER LAYOUT**  
SCALE: 3/16"=1'

### LEGEND

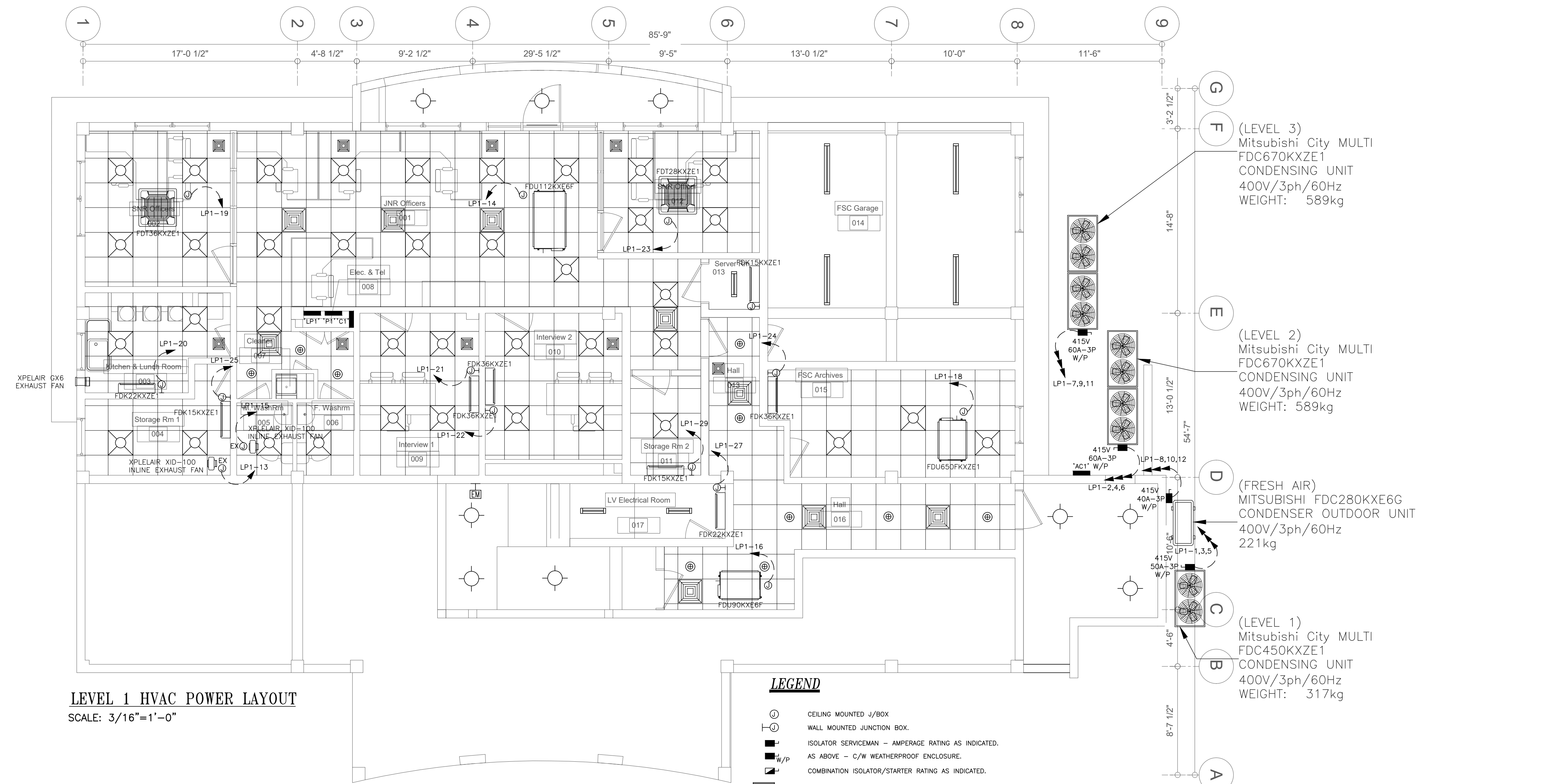
- DUPLEX CONVENIENCE OUTLET - 15A 125V DUPLEX WITH "U" GROUND LEVITON DECORA 16252-1, 1W,GY,EA OR EQUAL APPROVED
- ISOLATOR GROUND - LEVITON DECORA CAT. No. 8280-IGB
- GROUND FAULT - LEVITON DECORA GFCI CAT. No. 8598-1
- DUPLEX SWITCHED OUTLET - 230V 13A RCD MK K6231WHI
- COOKTOP CONTROL SWITCHED OUTLET 230V 45A MK K5061WHI
- COMMUNICATION (VOICE/DATA) OUTLET
- HDMI OUTLET - WALL MOUNTED
- POWER & COMMUNICATIONS FLUSH FLOOR MOUNTED BOX HUBBELL SYSTEM ONE:-
  - 1NO. 4-GANG FLOOR BOX - CAT. NO. CFB4G25
  - 1NO. COVER PLATES (BRASS FINISH) - CAT. NO. 24GTCVRBRS
  - 2NO. PLATES DUPLEX OPENING - CAT. NO. FBMPDUP
  - 1NO. PLATE HUBBELL ISF6 FRAME FOR KEYSTONE JACKS - CAT. NO. FBMP6KS
  - 1NO. DUPLEX OUTLET - 15A 125V - CAT. NO. BR151
  - 1NO. DATA JACK - CATEGORY 6/ CAT. NO. HXJ6XX
  - 1NO. DATA JACK - CATEGORY 3/ CAT. NO. HXJ6XX
- CEILING MOUNTED J/BOX
- WALL MOUNTED JUNCTION BOX.
- HAND DRYER - SWITCHED.
- ISOLATOR SERVICEMAN - AMPERAGE RATING AS INDICATED.
- AS ABOVE - C/W WEATHERPROOF ENCLOSURE.
- COMBINATION ISOLATOR/STARTER RATING AS INDICATED.
- ELECTRICAL PANEL.
- CONDUIT RUN IN CEILING OR WALL
- CONDUIT RUN IN FLOOR.

### NOTES

- POWER AND DATA OUTLETS TO BE MOUNTED AT 1'-6" A.F.F. UNLESS OTHERWISE STATED.
- EPR CLASS 854 (B.S. 6195) CABLES ARE TO BE USED ON ALL COOKING LINE EQUIPMENT. 12'-0" CABLE LENGTHS ARE TO BE PROVIDED TO ALLOW FOR MAINTENANCE.
- A CONDUIT/TRUNKING SYSTEM IS TO BE INSTALLED FOR THE DATA CABLES - 2" DIA. CONDUIT RUN OVERHEAD & DOWN WALLS LINKING ALL DATA OUTLETS.
- A CONDUIT SYSTEM INSTALLATION IS TO BE PROVIDED FOR THE FIRE DETECTION AND SECURITY ALARM SYSTEMS.
- CABLE SIZES
  - (a) CONV. OUTLETS
    - 15A SINGLE CIRCUITS - 3x2.5mm<sup>2</sup>
    - 20A CIRCUITS - 3x2.5mm<sup>2</sup>
    - 30A CIRCUITS - 2x4.0mm<sup>2</sup>
    - 1x2.5mm<sup>2</sup>
  - (b) 240V SINGLE PHASE CIRCUITS
    - 15A & 20A CIRCUITS - 4x2.5mm<sup>2</sup>
    - 30A CIRCUITS - 3x4.0mm<sup>2</sup>
    - 30A CIRCUITS - 2x2.5mm<sup>2</sup>
  - (c) 240V THREE PHASE CIRCUITS
    - 15A & 20A CIRCUITS - 4x2.5mm<sup>2</sup>
    - 50A CIRCUITS - 3x10mm<sup>2</sup>
    - 1x6.0mm<sup>2</sup>
    - 70A CIRCUITS - 3x16mm<sup>2</sup>
    - 1x10mm<sup>2</sup>

1	02.03.2020	GENERAL REVISION		A.F.S.	
REVISION	DATE	DESCRIPTION		BY	APP'D
		Financial Services Commission Building Little Bay, Montserrat			
		 <b>K. J. CASSELL CONSULTANTS LTD</b> • Architects • Engineers • Project Managers		Box 313 Gerald's Montserrat 664-491-2819 Kencassell@gmail.com	
		<b>EDC CONSULTANTS LIMITED</b> MEP LIFE SAFETY & SECURITY CONSULTING ENGINEERS  42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax: (868)622-7775			
FILE NAME:	TRADE:	<b>ELECTRICAL</b>			
	DWG. TITLE:	<b>LEVEL 3 FLOOR PLAN POWER LAYOUT</b>			
DESIGNED: E.D.C	CHECKED:	PROJECT No.:		19-010	
DRAWN: A. SHAH	SCALE: 3/16" = 1'-0"	DWG. No.:		E-09	REVISION: 1
DATE: 25.09.19	APP'D:				





LEVEL 1 HVAC POWER LAYOUT

SCALE: 3/16"=1'-0"

LEGEND

- CEILING MOUNTED J/BOX
- WALL MOUNTED JUNCTION BOX.
- ISOLATOR SERVICEMAN - AMPERAGE RATING AS INDICATED.
- AS ABOVE - C/W WEATHERPROOF ENCLOSURE.
- COMBINATION ISOLATOR/STARTER RATING AS INDICATED.
- ELECTRICAL PANEL.
- CONDUIT RUN IN CEILING OR WALL
- CONDUIT RUN IN FLOOR.

NOTES

- POWER AND DATA OUTLETS TO BE MOUNTED AT 1'-6"A.F.F. UNLESS OTHERWISE STATED.
- EPR CLASS 854 (B.S. 6195) CABLES ARE TO BE USED ON ALL COOKING LINE EQUIPMENT. 12'-0" CABLE LENGTHS ARE TO BE PROVIDED TO ALLOW FOR MAINTENANCE.
- A CONDUIT/TRUNKING SYSTEM IS TO BE INSTALLED FOR THE DATA CABLES - 2" DIA. CONDUIT RUN OVERHEAD & DOWN WALLS LINKING ALL DATA OUTLETS.
- A CONDUIT SYSTEM INSTALLATION IS TO BE PROVIDED FOR THE FIRE DETECTION AND SECURITY ALARM SYSTEMS.
- CABLE SIZES
  - CONV. OUTLETS
    - SINGLE CIRCUIT-----3x2.5mm<sup>2</sup>
    - 20A CIRCUITS-----3x2.5mm<sup>2</sup>
    - 30A CIRCUITS-----2x4.0mm<sup>2</sup>
    - 1x2.5mm<sup>2</sup>
  - 240V SINGLE PHASE CIRCUITS
    - 15A & 20A CIRCUITS-----4x2.5mm<sup>2</sup>
    - 30A CIRCUITS-----3x4.0mm<sup>2</sup>
    - 30A CIRCUITS-----2x2.5mm<sup>2</sup>
  - 240V THREE PHASE CIRCUITS
    - 15A & 20A CIRCUITS-----4x2.5mm<sup>2</sup>
    - 50A CIRCUITS-----3x10mm<sup>2</sup>
    - 1x6.0mm<sup>2</sup>
    - 70A CIRCUITS-----3x16mm<sup>2</sup>
    - 1x10mm<sup>2</sup>

(LEVEL 3)  
Mitsubishi City MULTI  
FDC670KXZE1  
CONDENSING UNIT  
400V/3ph/60Hz  
WEIGHT: 589kg

(LEVEL 2)  
Mitsubishi City MULTI  
FDC670KXZE1  
CONDENSING UNIT  
400V/3ph/60Hz  
WEIGHT: 589kg

(FRESH AIR)  
MITSUBISHI FDC280KXE6G  
CONDENSER OUTDOOR UNIT  
400V/3ph/60Hz  
221kg

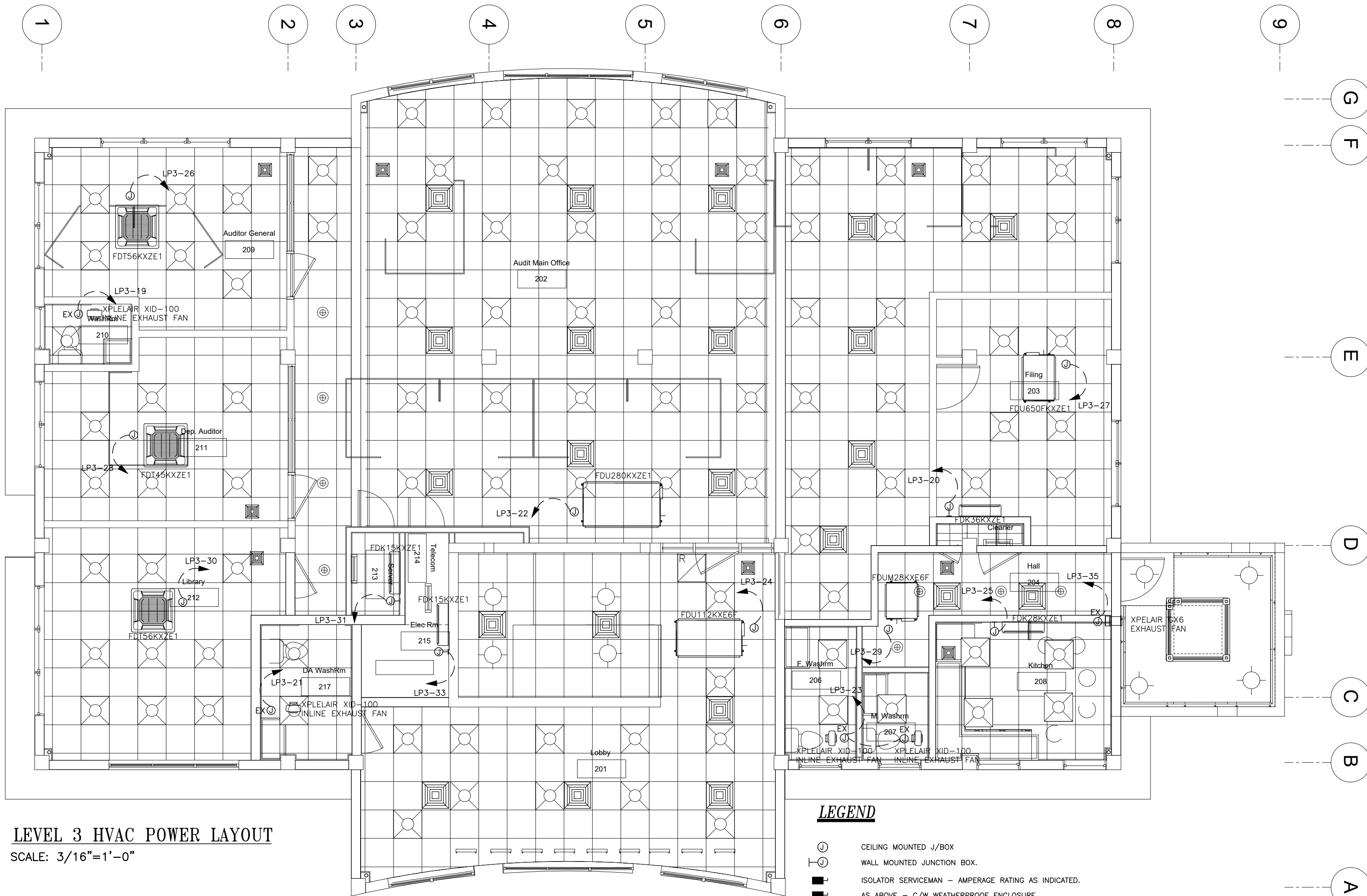
(LEVEL 1)  
Mitsubishi City MULTI  
FDC450KXZE1  
CONDENSING UNIT  
400V/3ph/60Hz  
WEIGHT: 317kg

REVISION	DATE	DESCRIPTION	BY	APP'D
Financial Services Commission Building Little Bay, Montserrat				
<div><div><div><div><div></div><div>K</div></div><div>K. J. CASSELL CONSULTANTS LTD</div><div>Architects Engineers Project Managers</div></div><div>Box 313 Gerald's Montserrat 664-491-2819 Kencassell@gmail.com</div></div></div>				
<div><div>edc</div><div>EDC CONSULTANTS LIMITED</div><div>MEP LIFE SAFETY &amp; SECURITY CONSULTING ENGINEERS</div><div>42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax:(868)622-7775</div></div>		ELECTRICAL		
FILE NAME:		DWG. TITLE: LEVEL 1 FLOOR PLAN HVAC POWER LAYOUT		
DESIGNED: E.D.C	CHECKED:	PROJECT No.: 19-010		
DRAWN: A. SHAH	SCALE: 1/4" = 1'-0"	DWG. No.: E-10	REVISION: 0	
DATE: 14.10.2019	APP'D:			









**LEVEL 3 HVAC POWER LAYOUT**  
SCALE: 3/16"=1'-0"

# **LEGEND**

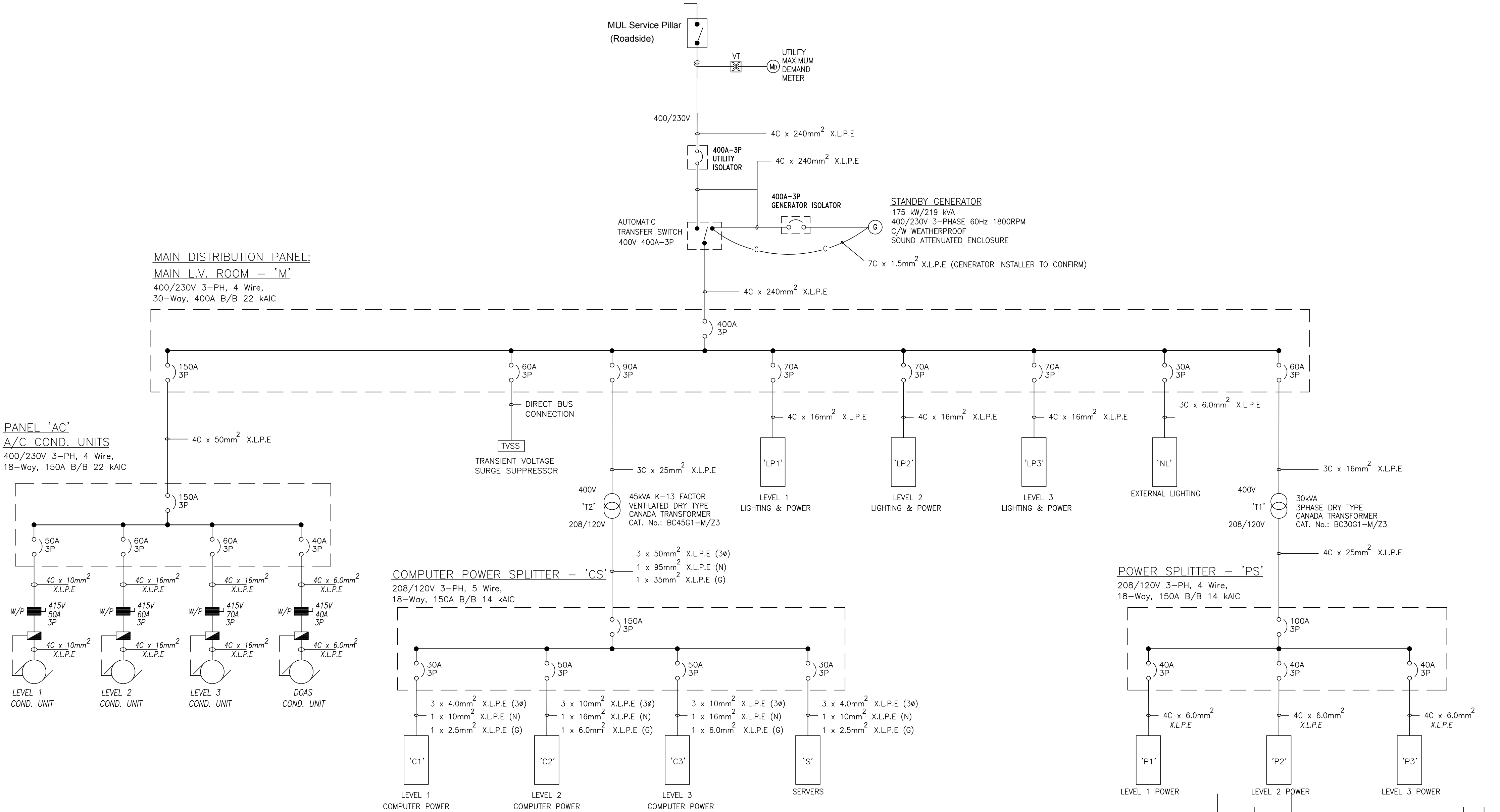
- ① CEILING MOUNTED J/BOX
- ② WALL MOUNTED JUNCTION BOX.
- ISOLATOR SERVICEMAN - AMPERAGE RATING AS INDICATED.
- AS ABOVE - C/W WEATHERPROOF ENCLOSURE.
- COMBINATION ISOLATOR/STARTER RATING AS INDICATED.
- ELECTRICAL PANEL.
- CONDUIT RUN IN CEILING OR WALL
- CONDUIT RUN IN FLOOR.

# **NOTES**

- POWER AND DATA OUTLETS TO BE MOUNTED AT 1'-6"A.F.F. UNLESS OTHERWISE STATED.
- EPR CLASS 854 (B.S. 6195) CABLES ARE TO BE USED ON ALL COOKING LINE EQUIPMENT. 12'-0" CABLE LENGTHS ARE TO BE PROVIDED TO ALLOW FOR MAINTENANCE.
- A CONDUIT/TRUNKING SYSTEM IS TO BE INSTALLED FOR THE DATA CABLES - 2" DIA. CONDUIT RUN OVERHEAD & DOWN WALLS LINKING ALL DATA OUTLETS.
- A CONDUIT SYSTEM INSTALLATION IS TO BE PROVIDED FOR THE FIRE DETECTION AND SECURITY ALARM SYSTEMS.
- CABLE SIZES
  - CONV. OUTLETS
    - 15A SINGLE CIRCUIT 3x2.5mm<sup>2</sup>
    - 20A CIRCUITS 3x2.5mm<sup>2</sup>
    - 30A CIRCUITS 2x4.0mm<sup>2</sup>
    - 1x2.5mm<sup>2</sup>
  - 240V SINGLE PHASE CIRCUITS
    - 15A & 20A CIRCUITS 4x2.5mm<sup>2</sup>
    - 30A CIRCUITS 3x4.0mm<sup>2</sup>
    - 30A CIRCUITS 2x2.5mm<sup>2</sup>
  - 240V THREE PHASE CIRCUITS
    - 15A & 20A CIRCUITS 4x2.5mm<sup>2</sup>
    - 50A CIRCUITS 3x10mm<sup>2</sup>
    - 1x6.0mm<sup>2</sup>
    - 70A CIRCUITS 3x16mm<sup>2</sup>
    - 1x10mm<sup>2</sup>



1	03.03.2020	GENERAL REVISION	A.F.S.
REVISION	DATE	DESCRIPTION	BY
		Financial Services Commission Building Little Bay, Montserrat	
		<b>K. J. CASSELL CONSULTANTS LTD</b> Architects Engineers Project Managers Box 313 Gerald's Montserrat 664-491-2819 Kencassell@gmail.com	
		<b>EDC CONSULTANTS LIMITED</b> MEP LIFE SAFETY & SECURITY CONSULTING ENGINEERS 42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax:(868)622-7775	
FILE NAME:	TRADE:	<b>ELECTRICAL</b>	
DWG. TITLE:	<b>LEVEL 3 FLOOR PLAN HVAC POWER LAYOUT</b>		
DESIGNED: E.D.C.	CHECKED:	PROJECT No.: <b>19-010</b>	
DRAWN: A. SHAH	SCALE: 3/16" = 1'-0"	DWG. No.: <b>E-12</b>	REVISION: <b>1</b>
DATE: 14.10.2019	APP'D:		





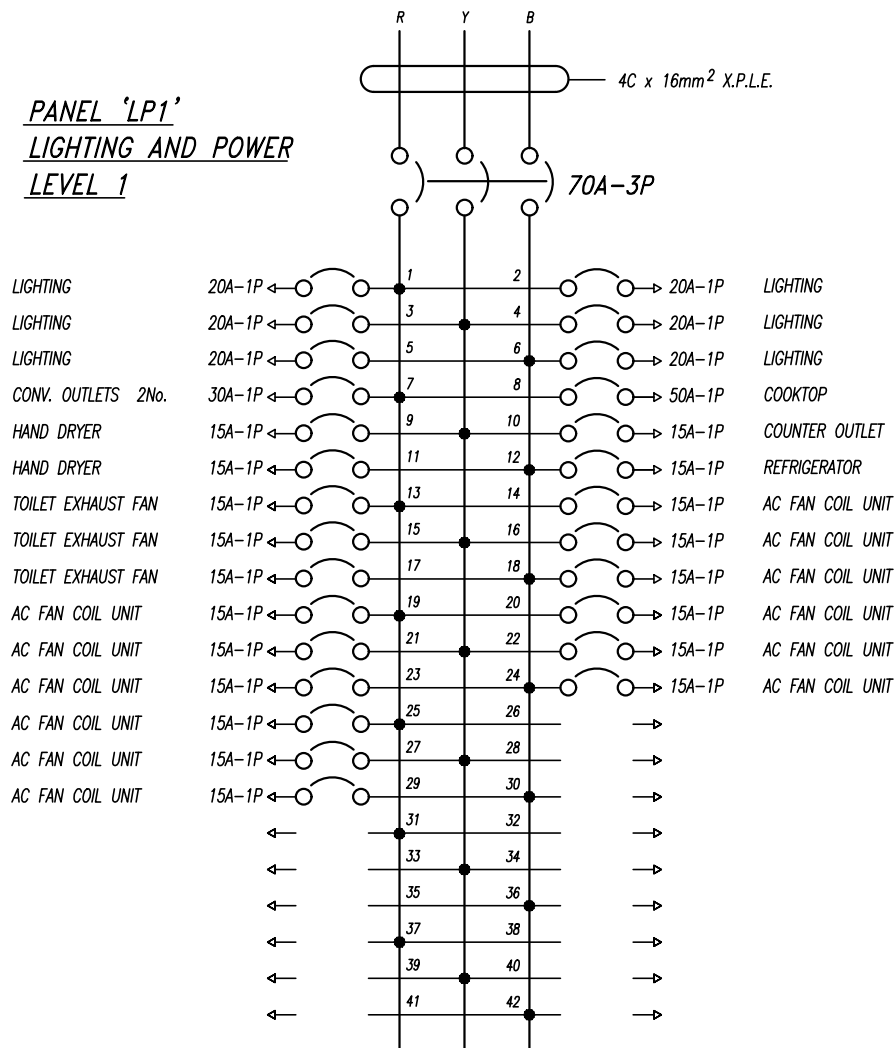
MAIN ELECTRICAL SINGLE LINE SCHEMATIC

SCALE: N.T.S.

REVISION	DATE	DESCRIPTION	BY	APP'D
		Financial Services Commission Building Little Bay, Montserrat		
		 <b>K. J. CASSELL CONSULTANTS LTD</b> • Architects • Engineers • Project Managers		Box 313 Gerald's Montserrat 664-491-2819 Kencassell@gmail.com
		 <b>EDC CONSULTANTS LIMITED</b> MEP LIFE SAFETY & SECURITY CONSULTING ENGINEERS 42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax:(868)622-7775		
FILE NAME:	TRADE:	<b>ELECTRICAL</b>		
	DWG. TITLE:	<b>MAIN ELECTRICAL SINGLE LINE SCHEMATIC</b>		
DESIGNED: <b>E.D.C</b>	CHECKED:	PROJECT No.:	<b>19-010</b>	
DRAWN: <b>D.PITILAL</b>	SCALE:	DWG. No.:	<b>E-13</b>	
DATE: <b>15.10.2019</b>	APP'D: <b>N.T.S.</b>	REVISION:	<b>0</b>	

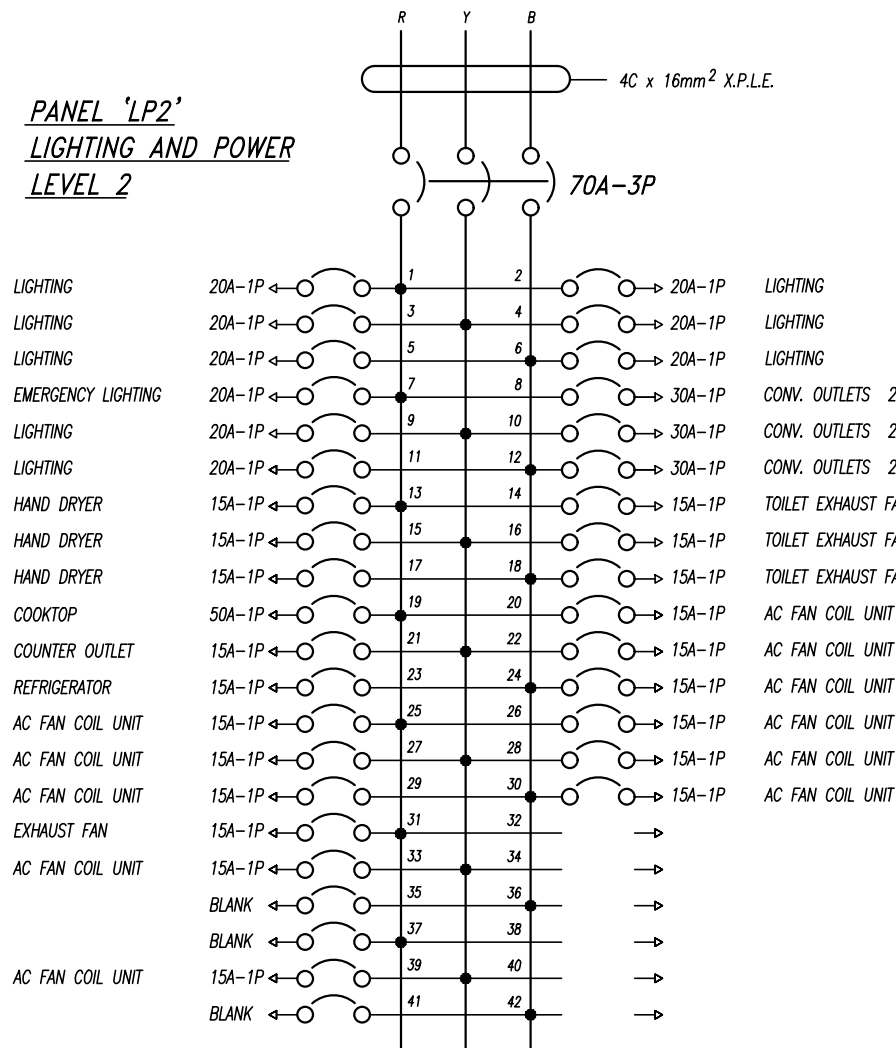


**PANEL 'LP1'**  
**LIGHTING AND POWER**  
**LEVEL 1**



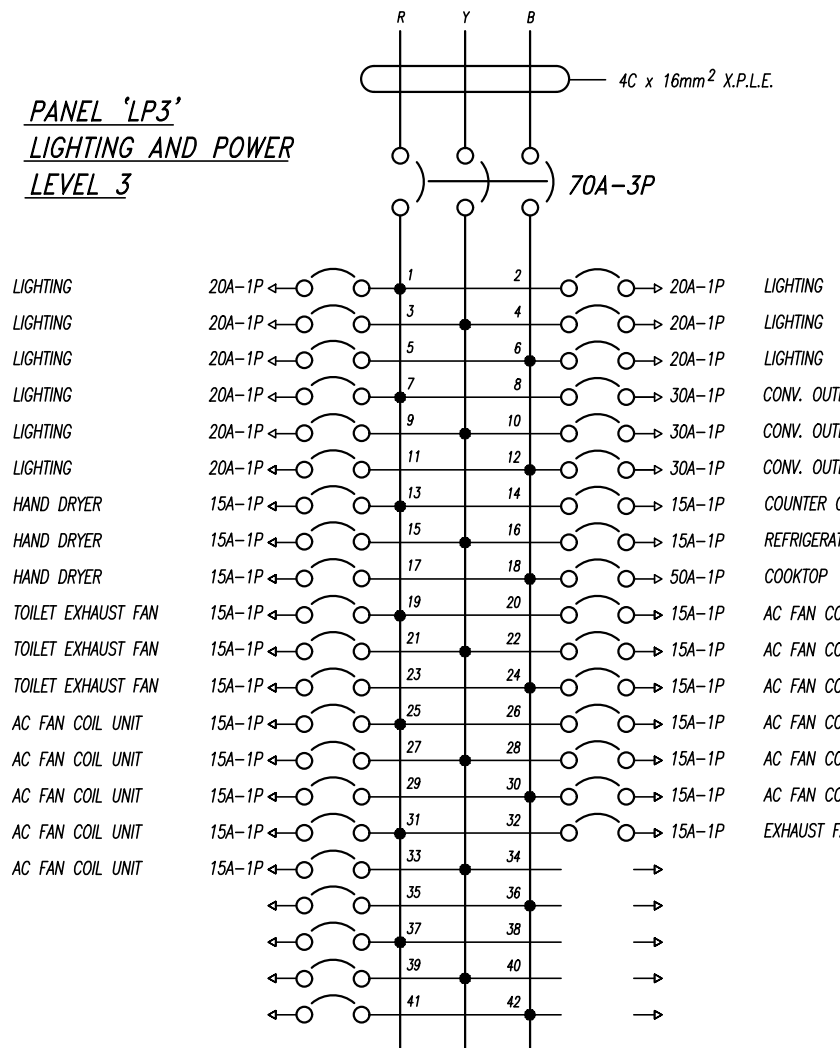
PHASE : 3	WIRES : 4	VOLTAGE : 400/230V
PANEL : 42 CIRCUIT	150A B/B MAIN C/B :	70A-3P

**PANEL 'LP2'**  
**LIGHTING AND POWER**  
**LEVEL 2**



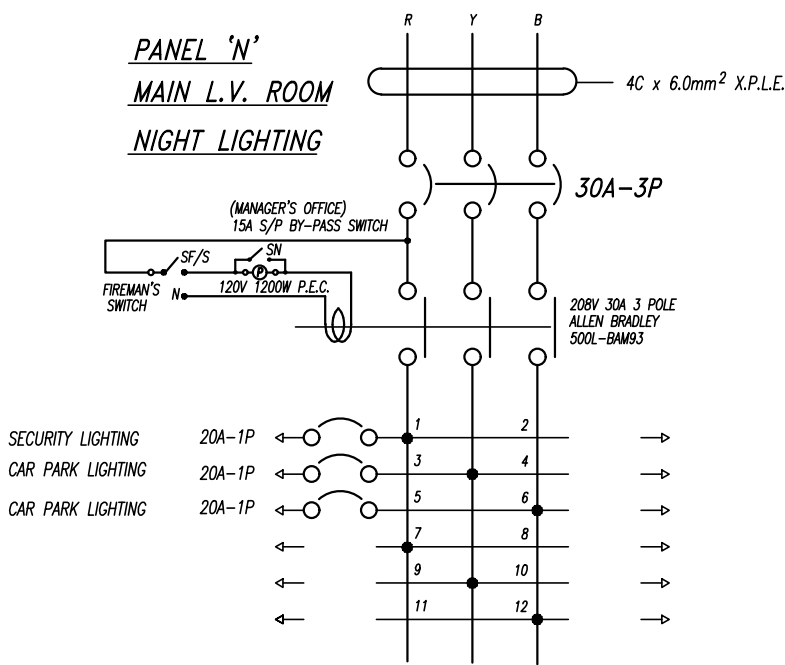
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PANEL : 42 CIRCUIT	150A B/B MAIN C/B :	70A-3P

**PANEL 'LP3'**  
**LIGHTING AND POWER**  
**LEVEL 3**



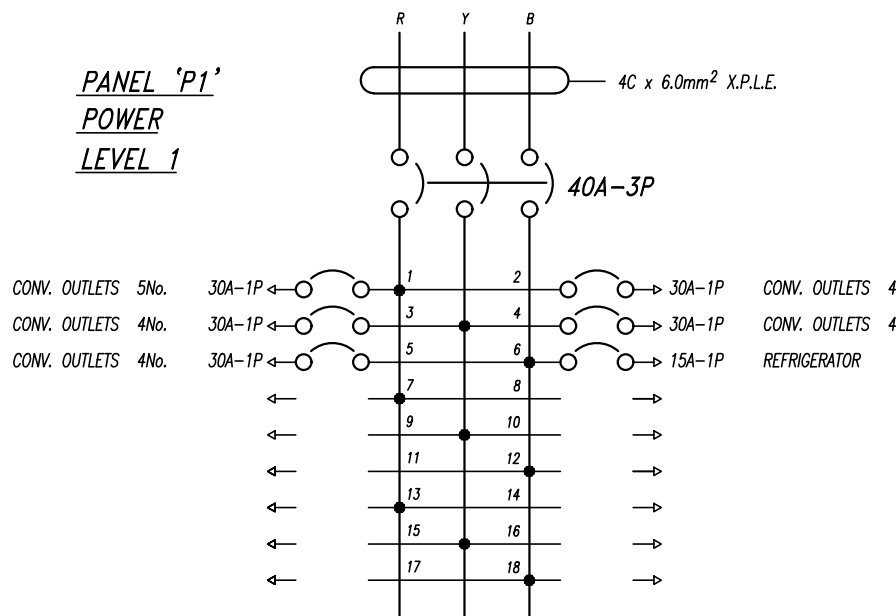
PHASE : 3	WIRES : 4	VOLTAGE : 400/230V
PANEL : 42 CIRCUIT	150A B/B MAIN C/B :	70A-3P

**PANEL 'N'**  
**MAIN L.V. ROOM**  
**NIGHT LIGHTING**



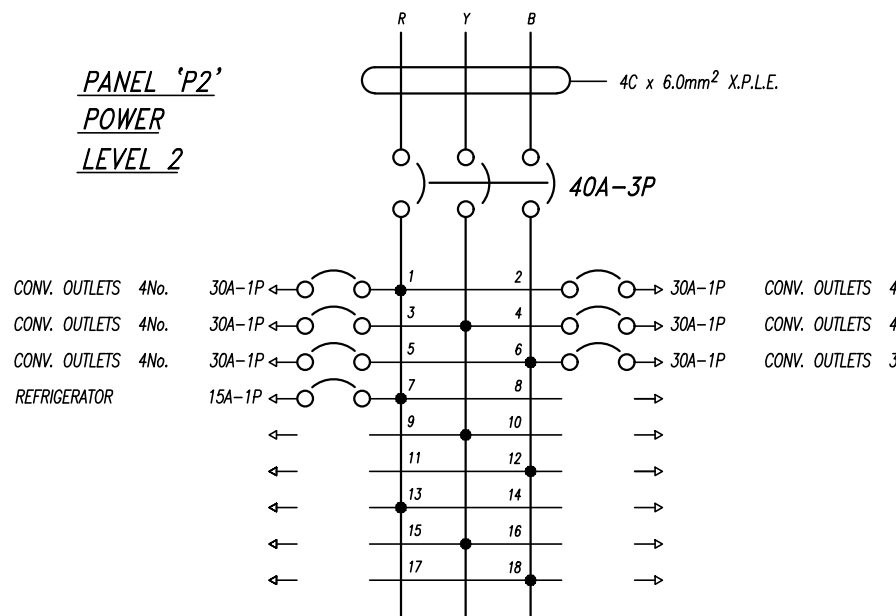
PHASE : 3	WIRES : 4	VOLTAGE : 400/230V
PANEL : 12 CIRCUIT	100A B/B MAIN C/B :	30A-3P

**PANEL 'P1'**  
**POWER**  
**LEVEL 1**



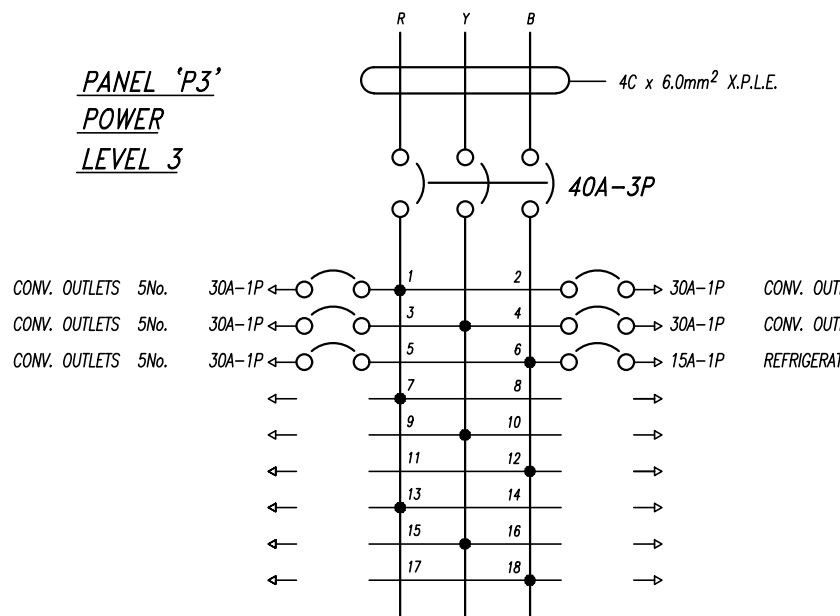
PHASE : 3	WIRES : 4	VOLTAGE : 208/120V
PANEL : 18 CIRCUIT	125A B/B MAIN C/B :	40A-3P

**PANEL 'P2'**  
**POWER**  
**LEVEL 2**



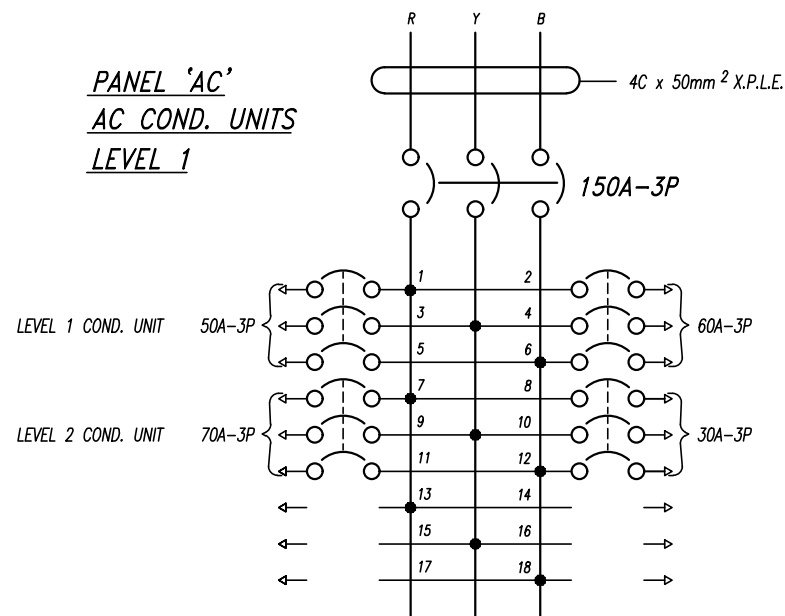
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PANEL : 18 CIRCUIT	125A B/B MAIN C/B :	40A-3P

**PANEL 'P3'**  
**POWER**  
**LEVEL 3**



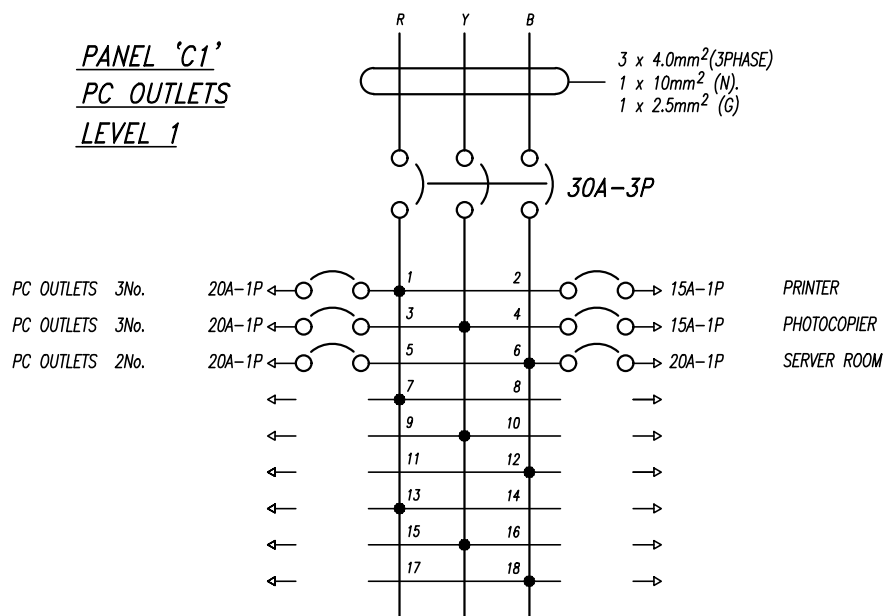
PHASE : 3	WIRES : 4	VOLTAGE : 208/120V
PANEL : 18 CIRCUIT	125A B/B MAIN C/B :	40A-3P

**PANEL 'AC'**  
**AC COND. UNITS**  
**LEVEL 1**



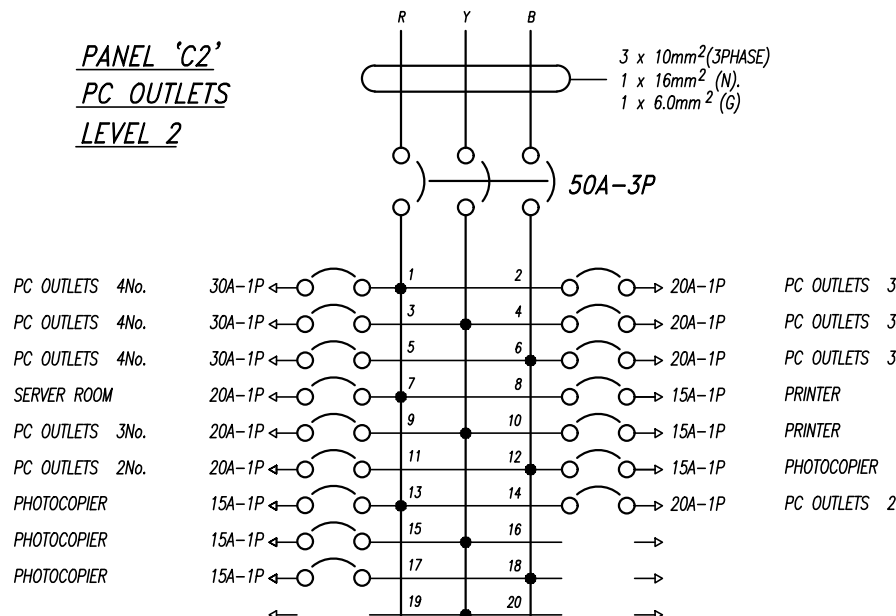
PHASE : 3	WIRES : 4	VOLTAGE : 208/120V
PANEL : 18 CIRCUIT	150A B/B MAIN C/B :	150A-3P

**PANEL 'C1'**  
**PC OUTLETS**  
**LEVEL 1**



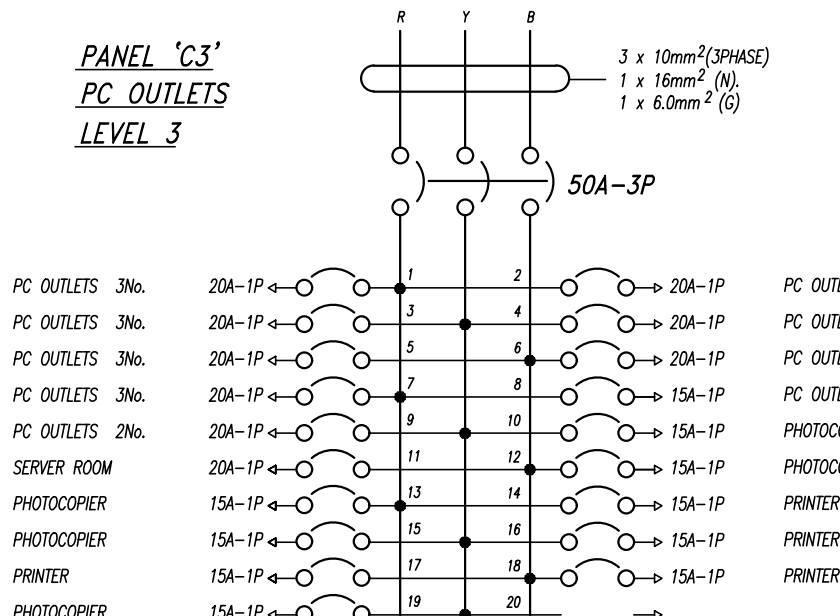
PHASE : 3	WIRES : 5	VOLTAGE : 208/120V
PANEL : 18 CIRCUIT	125A B/B MAIN C/B :	30A-3P

**PANEL 'C2'**  
**PC OUTLETS**  
**LEVEL 2**



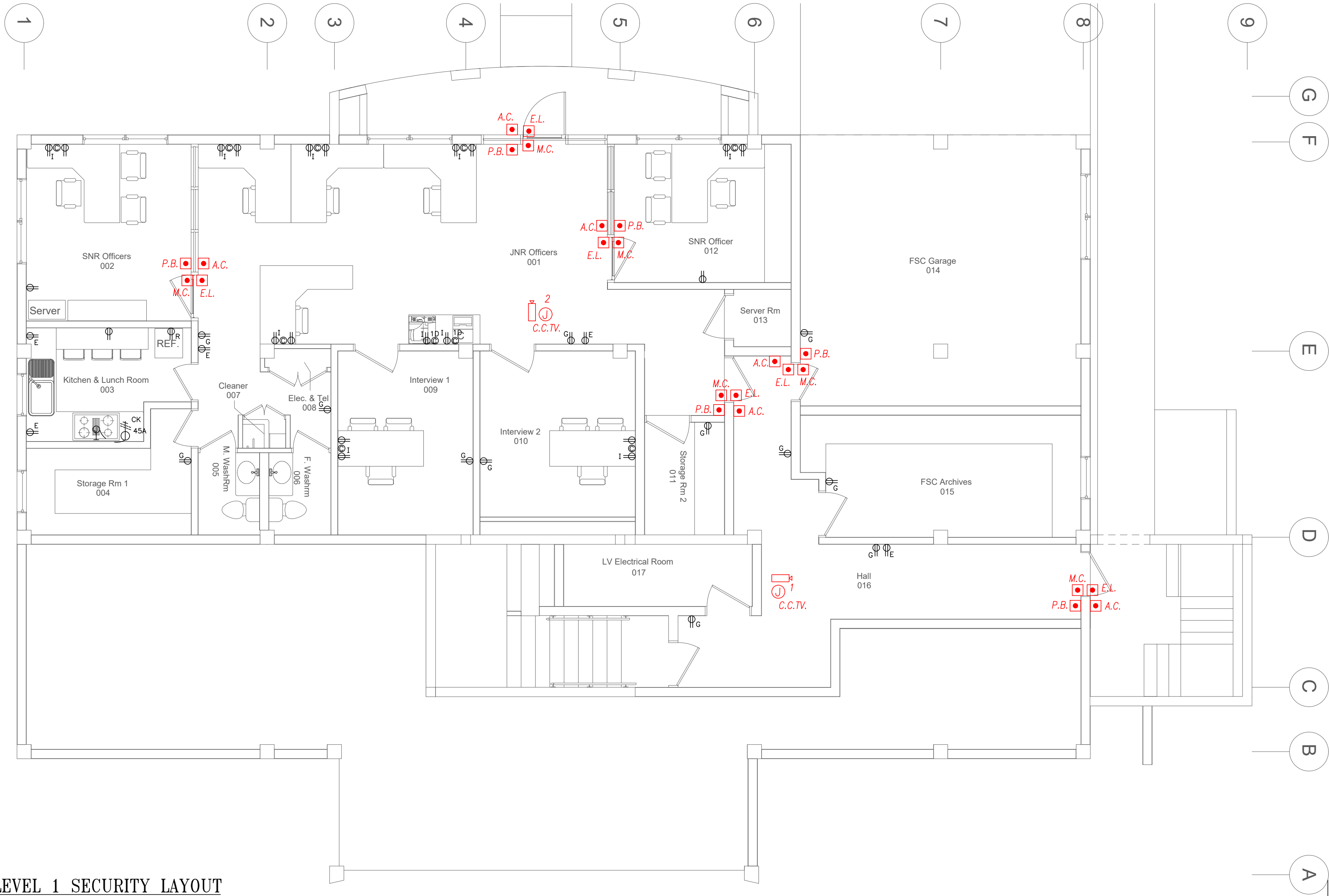
PHASE : 3	WIRES : 5	VOLTAGE : 208/120V
PANEL : 24 CIRCUIT	150A B/B MAIN C/B :	50A-3P

**PANEL 'C3'**  
**PC OUTLETS**  
**LEVEL 3**



PHASE : 3	WIRES : 5	VOLTAGE : 208/120V
PANEL : 24 CIRCUIT	150A B/B MAIN C/B :	50A-3P







LEVEL 1 SECURITY LAYOUT  
SCALE: 3/16"=1'

## LEGEND

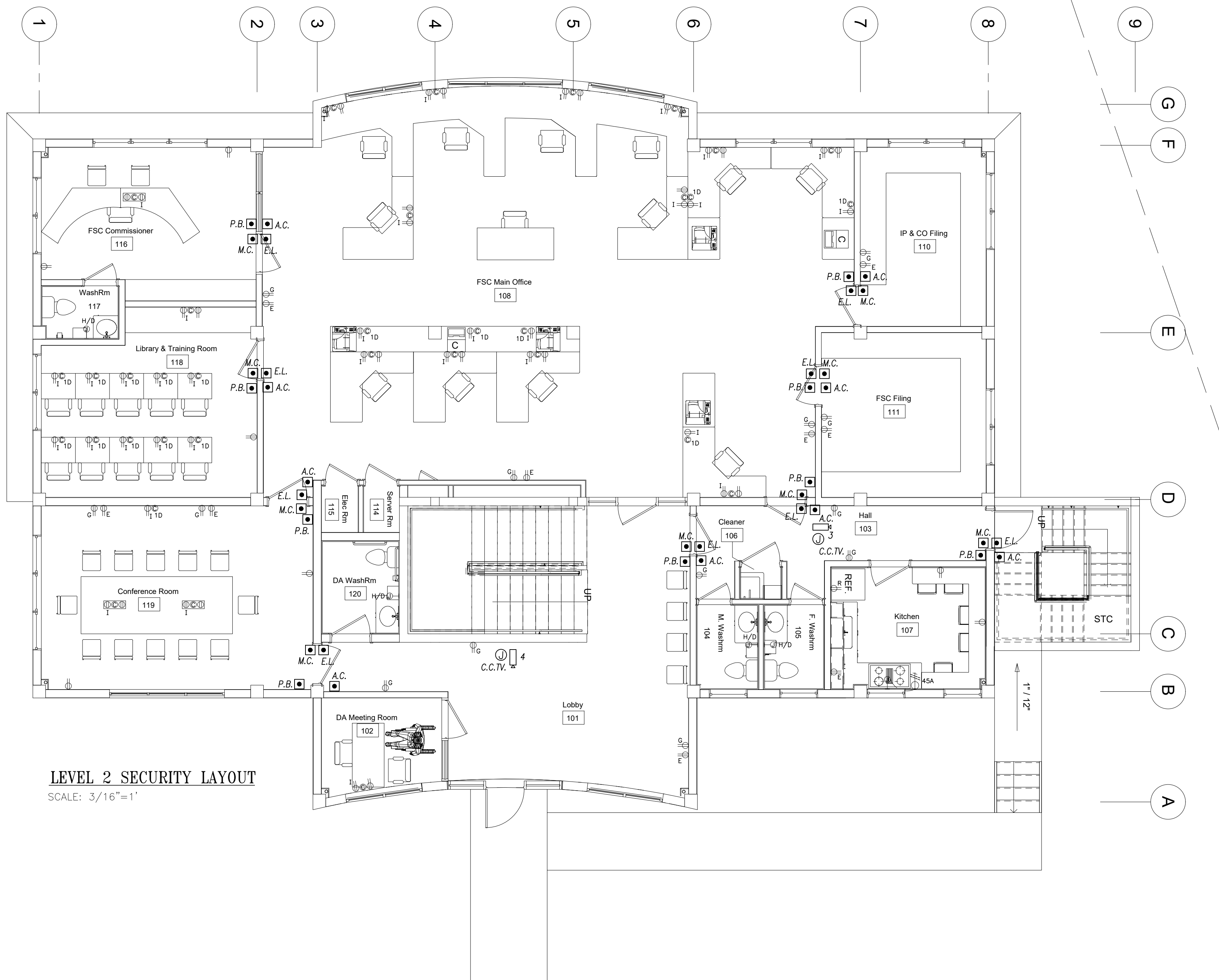
- M.C. MAGNETIC CONTACT
- E.L. ELECTRIC STRIKE LOCK
- K.P. KEY PAD
- A.C. ACCESS CARD
- P.B. PUSH BUTTON
- P.I.R. PASSIVE INFRARED
- SECURITY CAMERA VARY FOCAL 12mm
- 'S' SECURITY ALARM PANEL.
- ELECTRICAL PANEL.

## NOTES

- 1" (25mmØ) CONDUIT TO BE USED UNLESS OTHERWISE NOTED.
- AN EMPTY CONDUIT SYSTEM IS TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR FOR ENTRANCE DOOR KEYPADS, PUSH BUTTON, CAMERAS, ELECTRIC DOOR LOCKS, MAGNETIC CONTACTS, PUSHBUTTONS ETC.

REVISION		DATE		DESCRIPTION	
				BY	
				APP'D	
				Financial Services Commission Building Little Bay, Montserrat	
				Box 313 Gerald's Montserrat 664-491-2819 Kencassell@gmail.com	
				<b>K. J. CASSELL CONSULTANTS LTD</b> • Architects • Engineers • Project Managers	
				<b>EDC CONSULTANTS LIMITED</b> MEP LIFE SAFETY & SECURITY CONSULTING ENGINEERS 42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax:(868)622-7775	
FILE NAME:		TRADE:		<b>ELECTRICAL</b> <b>LEVEL 1 FLOOR PLAN</b> <b>SECURITY LAYOUT</b>	
lv1.security.layout		DWG. TITLE:			
DESIGNED:		CHECKED:		PROJECT No.:	
E.D.C				19-010	
DRAWN:		SCALE:		DWG. No.:	
A. SHAH		3/16" = 1'-0"		E-15	
DATE:		APP'D:		REVISION:	
25.09.19				0	







LEVEL 2 SECURITY LAYOUT  
SCALE: 3/16"=1'

## LEGEND

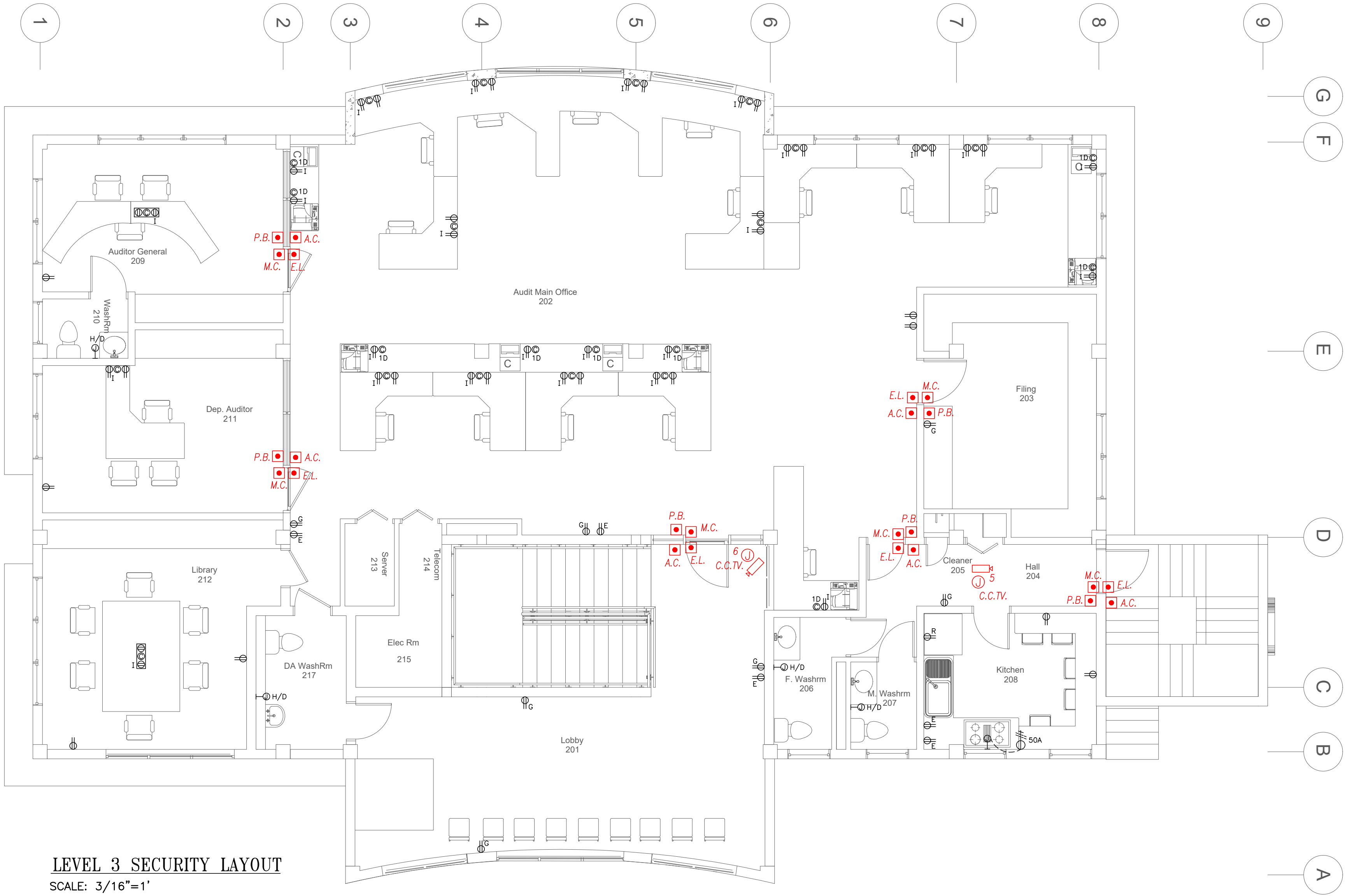
- M.C. MAGNETIC CONTACT
- E.L. ELECTRIC STRIKE LOCK
- K.P. KEY PAD
- A.C. ACCESS CARD
- P.B. PUSH BUTTON
- P.I.R. PASSIVE INFRARED
- SECURITY CAMERA VARY FOCAL 12mm
- 'S' SECURITY ALARM PANEL.
- ELECTRICAL PANEL.

## NOTES

- 1" (25mm) CONDUIT TO BE USED UNLESS OTHERWISE NOTED.
- AN EMPTY CONDUIT SYSTEM IS TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR FOR ENTRANCE DOOR KEYPADS, PUSH BUTTON, CAMERAS, ELECTRIC DOOR LOCKS, MAGNETIC CONTACTS, PUSHBUTTONS ETC.

1	03.03.2020	GENERAL REVISION		A.F.S.
REVISION	DATE	DESCRIPTION	BY	APP'D
		Financial Services Commission Building Little Bay, Montserrat		
		 <b>K. J. CASSELL CONSULTANTS LTD</b> • Architects • Engineers • Project Managers  Box 313 Gerald's Montserrat 664-491-2819 Kencassel@gmail.com		
		<b>EDC CONSULTANTS LIMITED</b> MEP LIFE SAFETY & SECURITY CONSULTING ENGINEERS  42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax:(868)622-7775		
FILE NAME: lvl2.security.layout	TRADE:	<b>ELECTRICAL</b>		
	DWG. TITLE:	<b>LEVEL 2 FLOOR PLAN SECURITY LAYOUT</b>		
DESIGNED: E.D.C	CHECKED:	PROJECT No:		<b>19-010</b>
DRAWN: A. SHAH	SCALE: 3/16" = 1'-0"	DWG. No.:		
DATE: 25.09.19	APP'D:	<b>E-16</b>	REVISION:	<b>1</b>







LEVEL 3 SECURITY LAYOUT  
SCALE: 3/16"=1'

## LEGEND

- M.C. MAGNETIC CONTACT
- E.L. ELECTRIC STRIKE LOCK
- K.P. KEY PAD
- A.C. ACCESS CARD
- P.B. PUSH BUTTON
- P.I.R. PASSIVE INFRARED
- SECURITY CAMERA VARY FOCAL 12mm
- 'S' SECURITY ALARM PANEL.
- ELECTRICAL PANEL.

## NOTES

- 1" (25mmØ) CONDUIT TO BE USED UNLESS OTHERWISE NOTED.
- AN EMPTY CONDUIT SYSTEM IS TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR FOR ENTRANCE DOOR KEYPADS, PUSH BUTTON, CAMERAS, ELECTRIC DOOR LOCKS, MAGNETIC CONTACTS, PUSHBUTTONS ETC.

REVISION	DATE	DESCRIPTION		BY	APP'D
		Financial Services Commission Building Little Bay, Montserrat			
		 <b>K. J. CASSELL CONSULTANTS LTD</b> <ul style="list-style-type: none"><li>• Architects</li><li>• Engineers</li><li>• Project Managers</li></ul>		Box 313 Gerald's Montserrat 664-491-2819 Kencassell@gmail.com	
		<b>EDC CONSULTANTS LIMITED</b> MEP LIFE SAFETY & SECURITY CONSULTING ENGINEERS <hr/> 42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax:(868)622-7775			
FILE NAME: lv3.security.layout		TRADE:		<b>ELECTRICAL</b>	
		DWG. TITLE:		<b>LEVEL 3 FLOOR PLAN SECURITY LAYOUT</b>	
DESIGNED:	E.D.C	CHECKED:	PROJECT No.: <b>19-010</b>		
DRAWN:	A. SHAH	SCALE:	DWG. No.: <b>E-17</b>		
DATE:	25.09.19	APP'D:	REVISION: <b>0</b>		



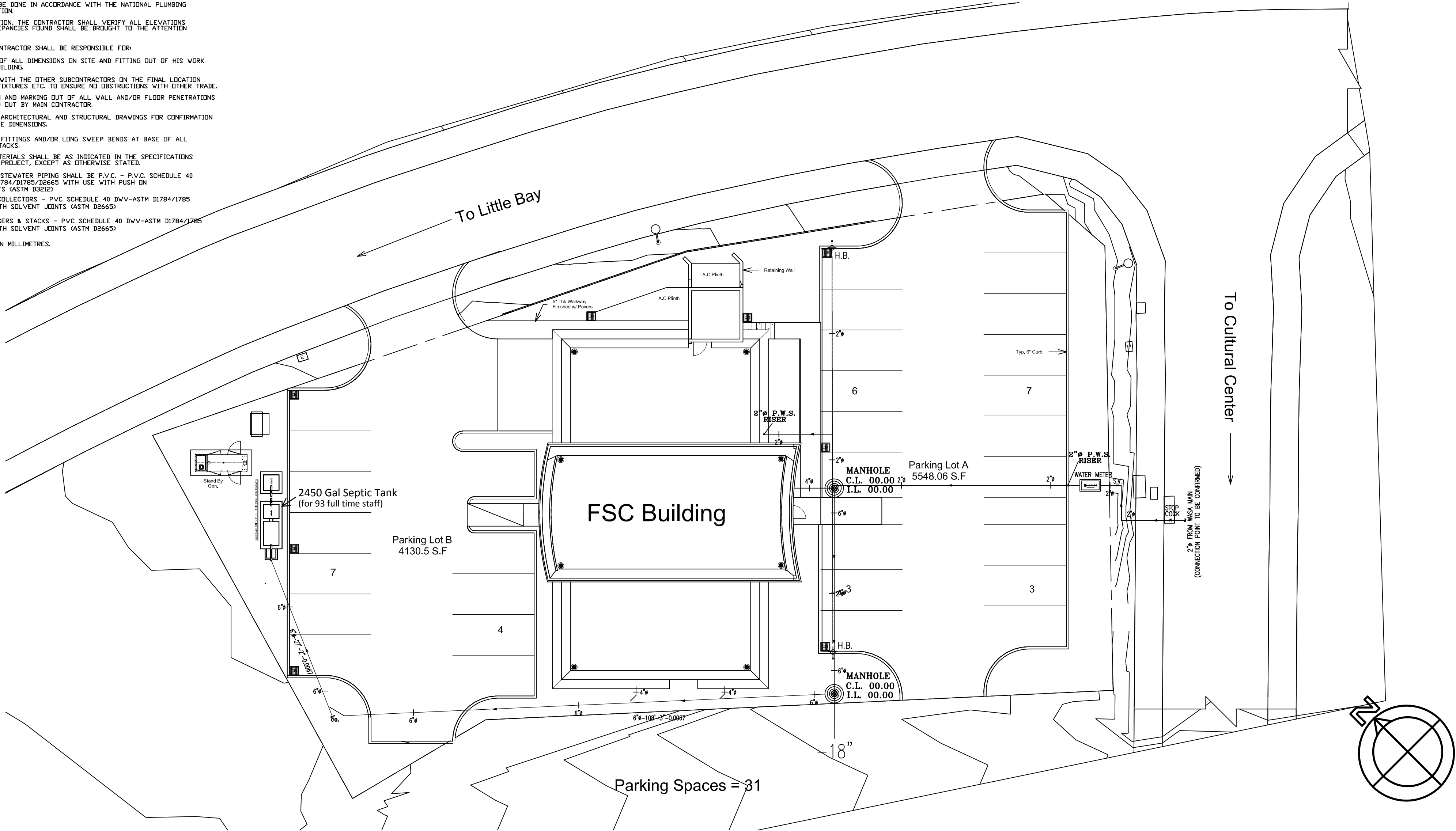
LEGEND:-

— VENT LINE  
— SOIL WASTE

L.B. LAVATORY BASIN  
C.O. CLEAN OUT  
C.S. CLEANERS SINK  
F.D. FLOOR DRAIN  
V.T.R VENT THRU ROOF  
W.C. WATER CLOSET <'S' TRAP>  
V.P. VENT PIPE

NOTES:-

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL PLUMBING CODE, LATEST EDITION.
2. BEFORE CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS GIVEN. ANY DISCREPANCIES FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR:
- a.) VERIFICATION OF ALL DIMENSIONS ON SITE AND FITTING OUT OF HIS WORK WITHIN THE BUILDING.
  - b.) COORDINATION WITH THE OTHER SUBCONTRACTORS ON THE FINAL LOCATION OF FITTINGS, FIXTURES ETC. TO ENSURE NO OBSTRUCTIONS WITH OTHER TRADE.
  - c.) IDENTIFICATION AND MARKING OUT OF ALL WALL AND/OR FLOOR PENETRATIONS TO BE CARRIED OUT BY MAIN CONTRACTOR.
  - d.) REFERRING TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CONFIRMATION OF ALL ON-SITE DIMENSIONS.
4. USE LONG SWEEP FITTINGS AND/OR LONG SWEEP BENDS AT BASE OF ALL VENT & WASTE STACKS.
5. ALL PLUMBING MATERIALS SHALL BE AS INDICATED IN THE SPECIFICATIONS ISSUED FOR THIS PROJECT, EXCEPT AS OTHERWISE STATED.
6. (A) EXTERNAL WASTEWATER PIPING SHALL BE P.V.C. - P.V.C. SCHEDULE 40 DWV ASTM D1784/D1785/D2665 WITH USE WITH PUSH ON GASKET JOINTS (ASTM D3212)
- (B) HORIZONTAL COLLECTORS - PVC SCHEDULE 40 DWV-ASTM D1784/1785 WITH USE WITH SOLVENT JOINTS (ASTM D2665)
- (C) VERTICAL RISERS & STACKS - PVC SCHEDULE 40 DWV-ASTM D1784/1785 WITH USE WITH SOLVENT JOINTS (ASTM D2665)
7. ALL DIMENSIONS IN MILLIMETRES.

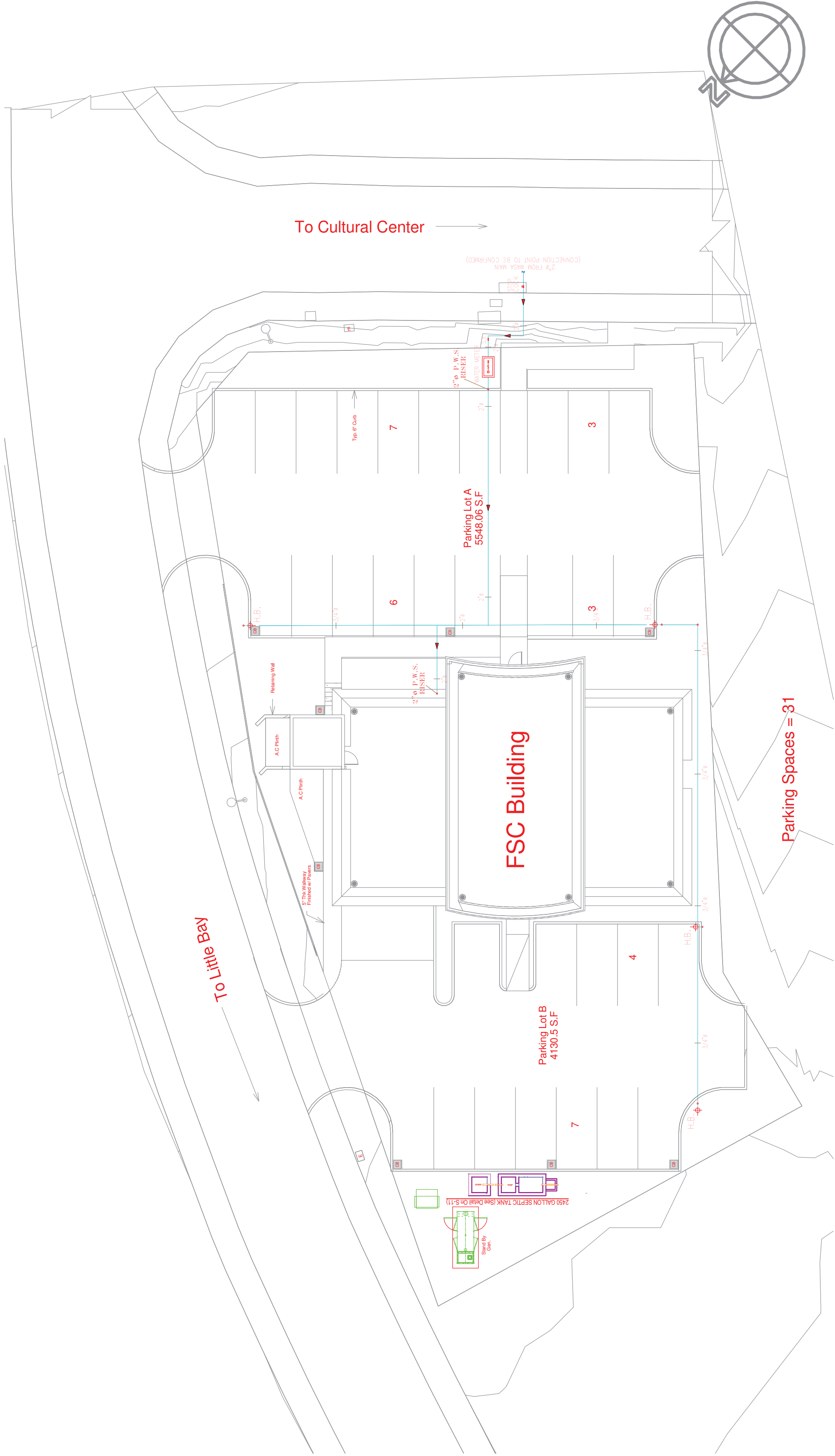


WASTEWATER SITE PLAN

SCALE: 1/16"=1'

1	23.01.2020	SEPTIC TANK ADDED			
REVISION	DATE	DESCRIPTION		BY	APP'D
		Financial Services Commission Building Little Bay, Montserrat			
		 <b>K. J. CASSELL CONSULTANTS LTD</b> ♦ Architects ♦ Engineers ♦ Project Managers		Box 313 Gerald's Montserrat 664-491-2819 Kencassell@gmail.com	
		<i>EDC CONSULTANTS LIMITED</i> MEP LIFE SAFETY & SECURITY CONSULTING ENGINEERS <hr/> 42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax:(868)622-7775			
FILE NAME:		TRADE:		PLUMBING	
		DWG. TITLE:		WASTEWATER SITE PLAN	
DESIGNED: E.D.C		CHECKED:		PROJECT NO.: 19-010	
DRAWN:		SCALE: 1/16" = 1'-0"		DWG. NO.: P-01	
DATE: 27.01.2020		APP'D:		REVISION: 1	





**K. J. CASSELL CONSULTANTS LTD**  
• Architects  
• Engineers  
• Project Managers

**Box 313**  
**Geralds**  
**Montserrat**  
**664-491-2819**  
**kencassell@gmail.com**

**CLIENT:** Financial Services Commission

**PROJECT:** Financial Services Commission Building

**LOCATION** Blk & Parcel #:14/2/39 Little Bay, Montserrat

REVISIONS:

1.		DATE:	SIGNED:
2.			
3.			
4.			
5.			
6.			

SCALE:  
1 1/2" = 1'-0"

DATE:

22/01/2020

DESIGNED BY:

K.J. Cassell

DRAWING:

Unnamed

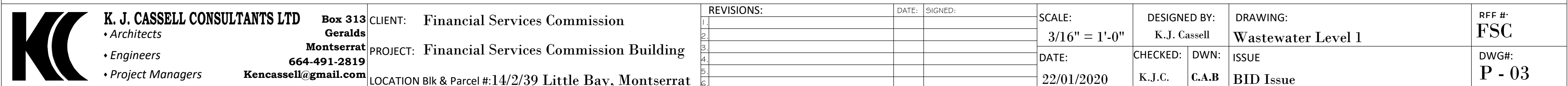
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FSC

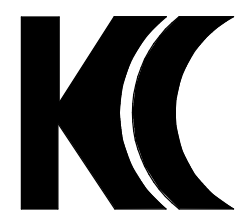
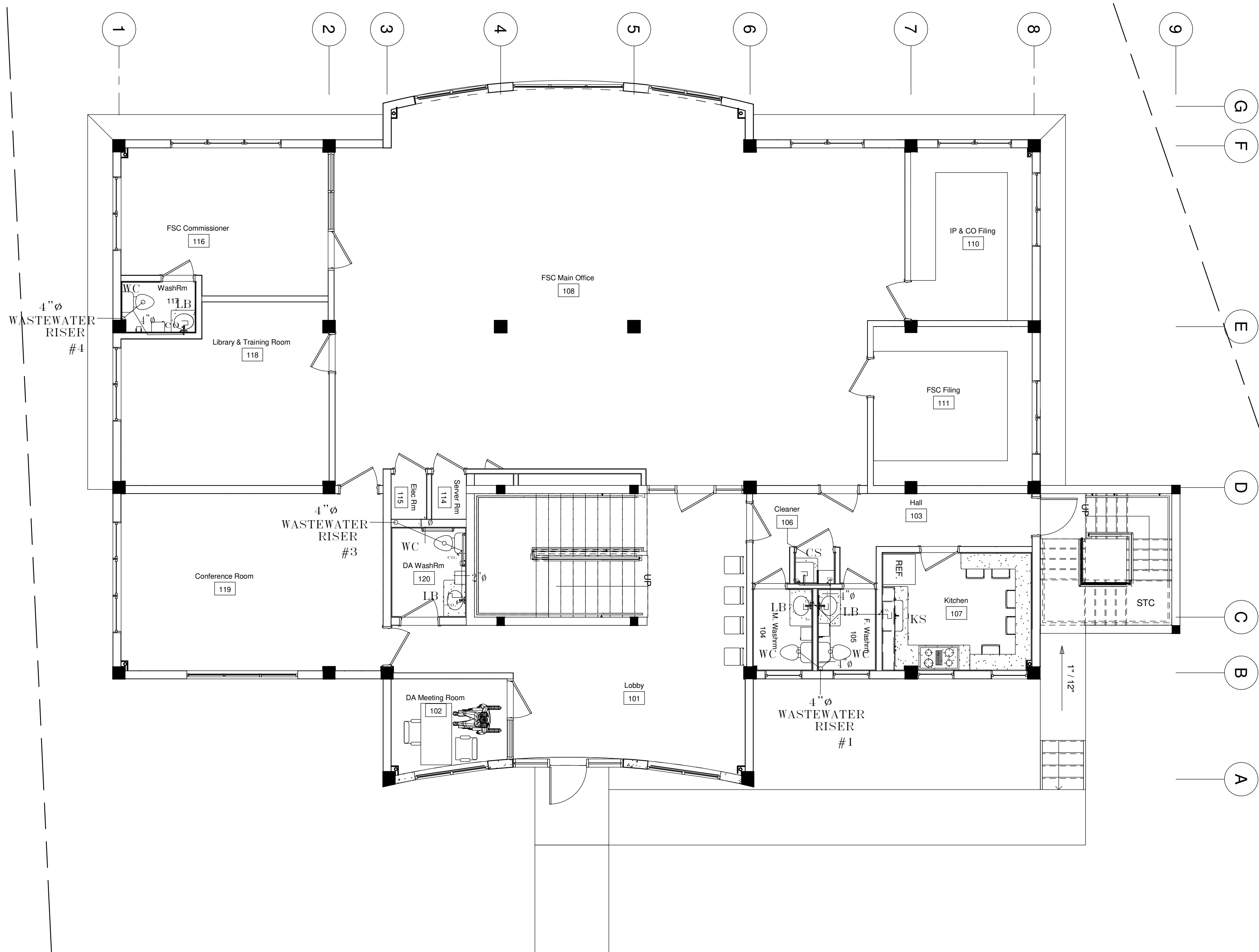
DWG#:

P - 02









**K. J. CASSELL CONSULTANTS LTD** Box 313  
• Architects **Geralds**  
• Engineers **Montserrat**  
• Project Managers **664-491-2819**  
**Kencassell@gmail.com**

CLIENT: Financial Services Commission  
PROJECT: Financial Services Commission Building  
LOCATION Blk & Parcel #:14/2/39 Little Bay, Montserrat

REVISIONS:		DATE:	SIGNED:
1.			
2.			
3.			
4.			
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SCALE:  
3/16" = 1'-0"  
DATE:  
22/01/2020

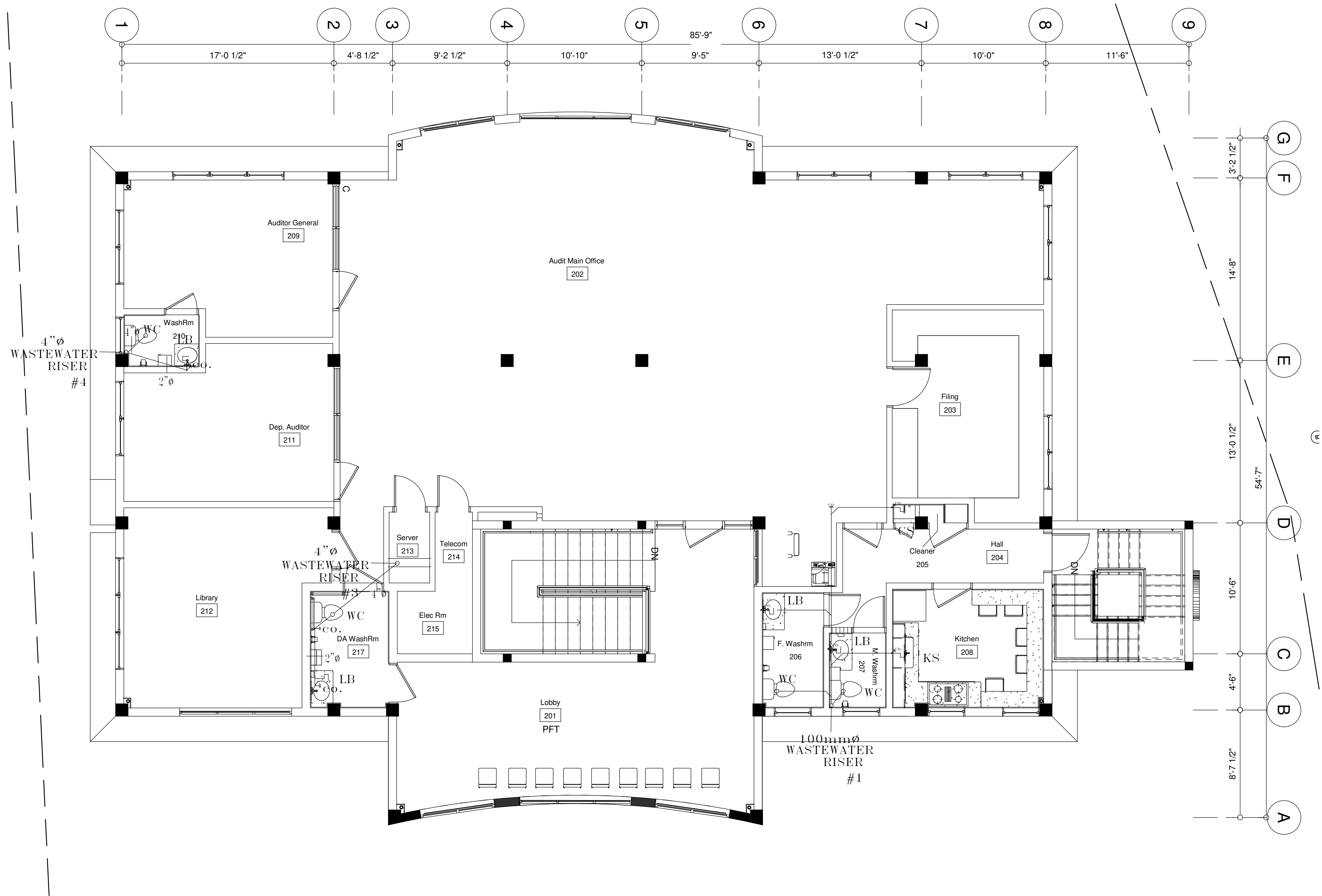
DESIGNED BY:  
K.J. Cassell  
CHECKED:  
K.J.C.

DRAWING:  
Wastewater Level 2  
DWN:  
C.A.B

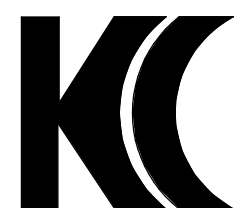
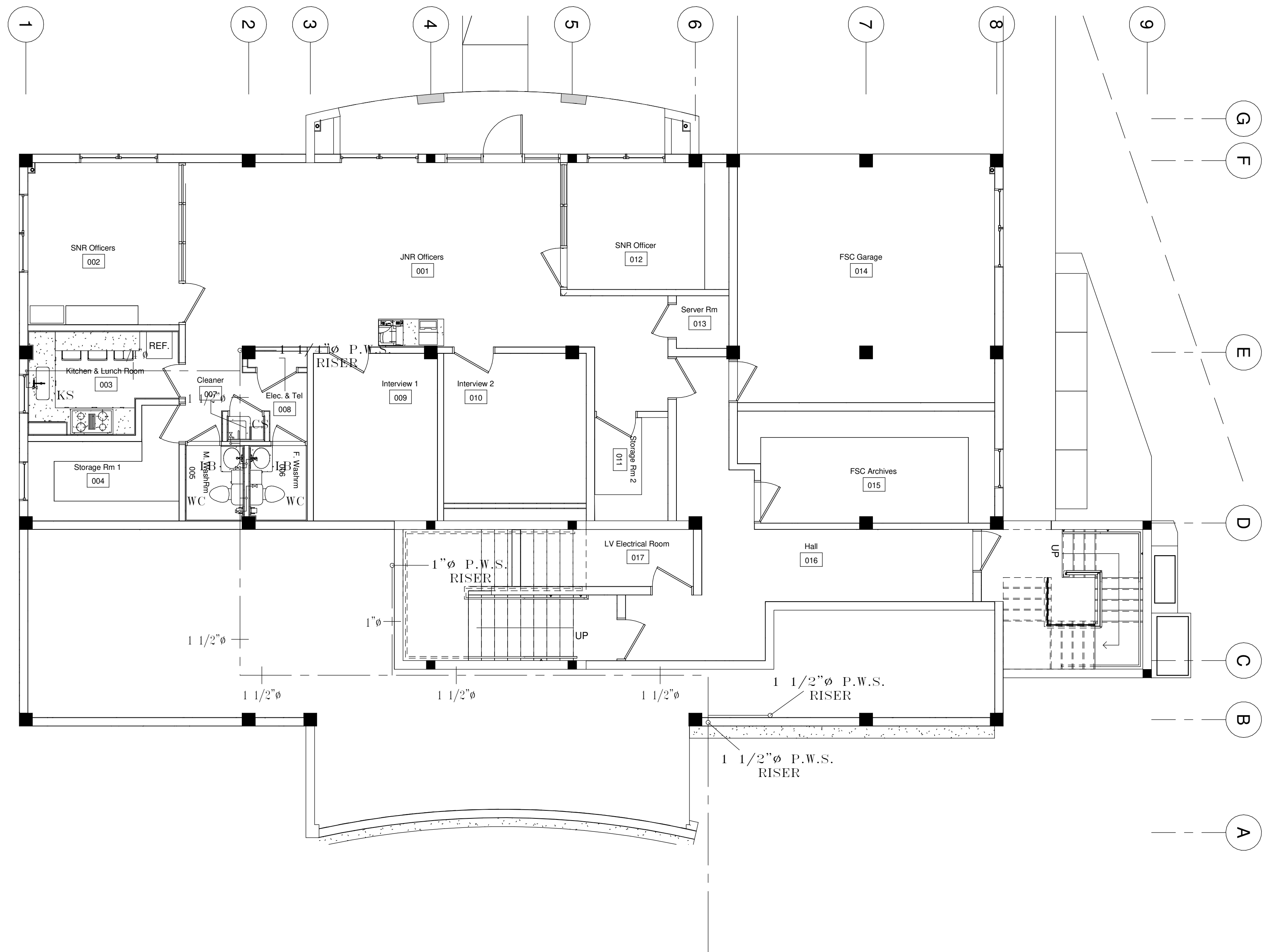
ISSUE  
BID Issue

RFF #:  
**FSC**  
DWG#:  
**P - 04**









**K. J. CASSELL CONSULTANTS LTD** Box 313  
• Architects **Geralds**  
• Engineers **Montserrat**  
• Project Managers **664-491-2819**  
**Kencassell@gmail.com**

CLIENT: Financial Services Commission  
PROJECT: Financial Services Commission Building  
LOCATION Blk & Parcel #:14/2/39 Little Bay, Montserrat

REVISIONS:		DATE:	SIGNED:
1.			
2.			
3.			
4.			
5.			
6.			

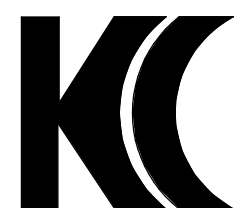
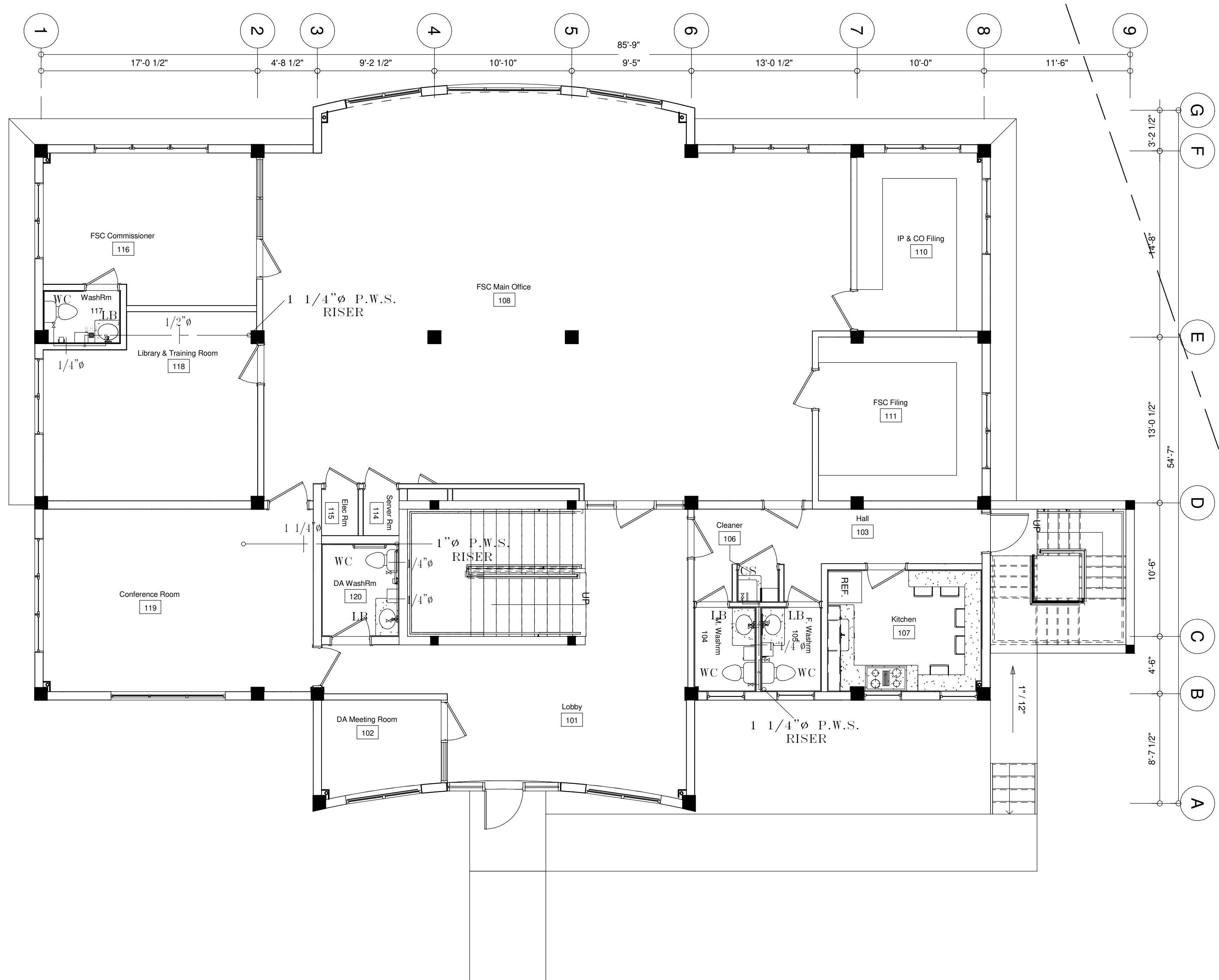
SCALE:  
3/16" = 1'-0"  
DATE:  
22/01/2020

DESIGNED BY:  
K.J. Cassell  
CHECKED:  
K.J.C.

DRAWING:  
Water Reticulation Level 1  
DWN:  
C.A.B  
ISSUE  
BID Issue

RFF #:  
**FSC**  
DWG#:  
**P - 06**





**K. J. CASSELL CONSULTANTS LTD** Box 313  
• Architects **Geralds**  
• Engineers **Montserrat**  
• Project Managers **664-491-2819**  
**Kencassell@gmail.com**

CLIENT: Financial Services Commission  
PROJECT: Financial Services Commission Building  
LOCATION Blk & Parcel #:14/2/39 Little Bay, Montserrat

REVISIONS:		DATE:	SIGNED:
1.			
2.			
3.			
4.			
5.			
6.			

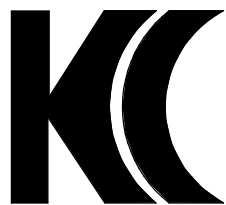
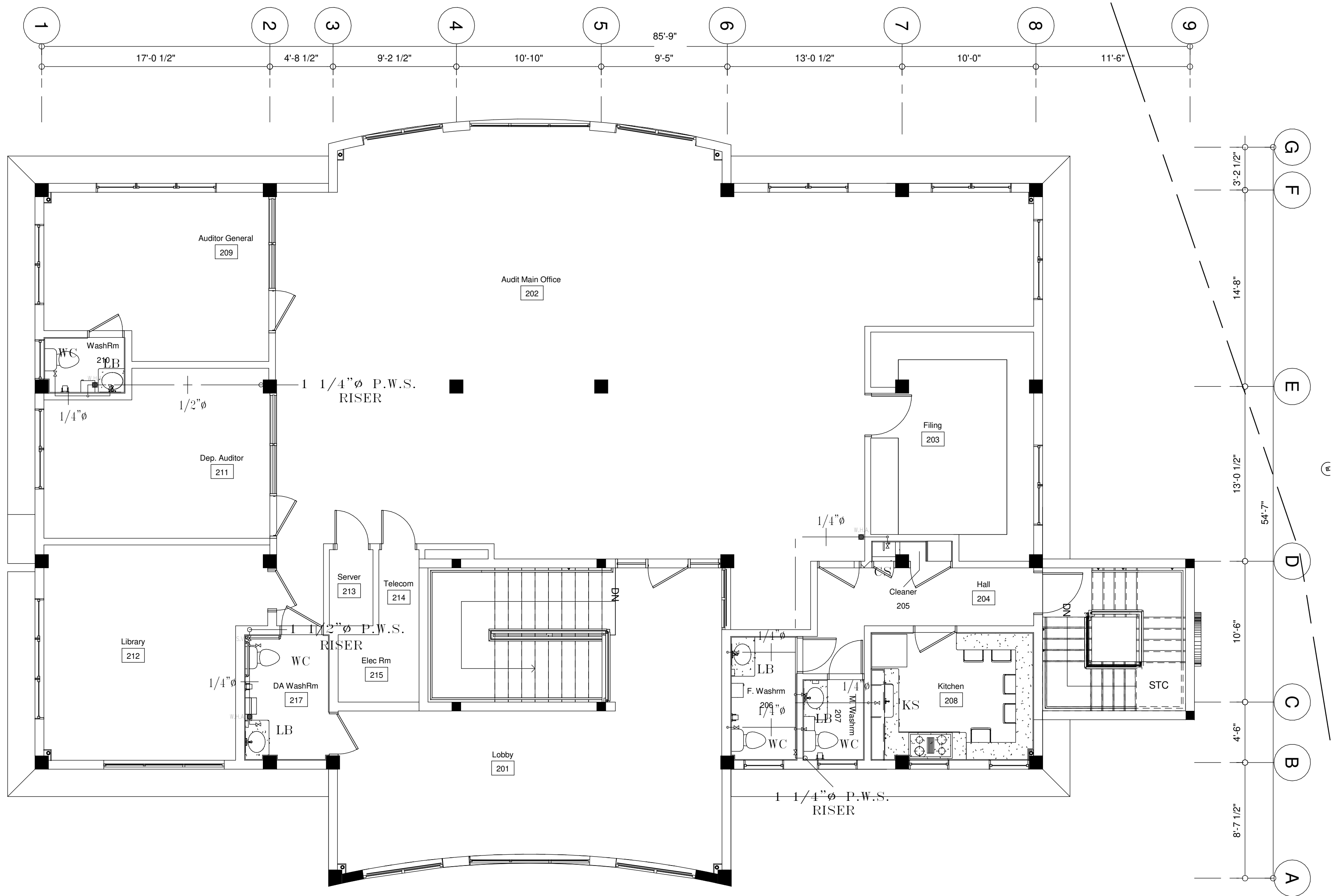
SCALE:
3/16" = 1'-0"
DATE:
22/01/2020

DESIGNED BY:
K.J. Cassell
CHECKED:
K.J.C.

DRAWING:
Water Reticulation Level 2
ISSUE
BID Issue

RFF #:  
**FSC**  
DWG#:  
**P - 07**





**K. J. CASSELL CONSULTANTS LTD** Box 313  
• Architects **Geralds**  
• Engineers **Montserrat**  
• Project Managers **664-491-2819**  
**Kencassell@gmail.com**

CLIENT: Financial Services Commission  
PROJECT: Financial Services Commission Building  
LOCATION Blk & Parcel #:14/2/39 Little Bay, Montserrat

REVISIONS:		DATE:	SIGNED:
1.			
2.			
3.			
4.			
5.			
6.			

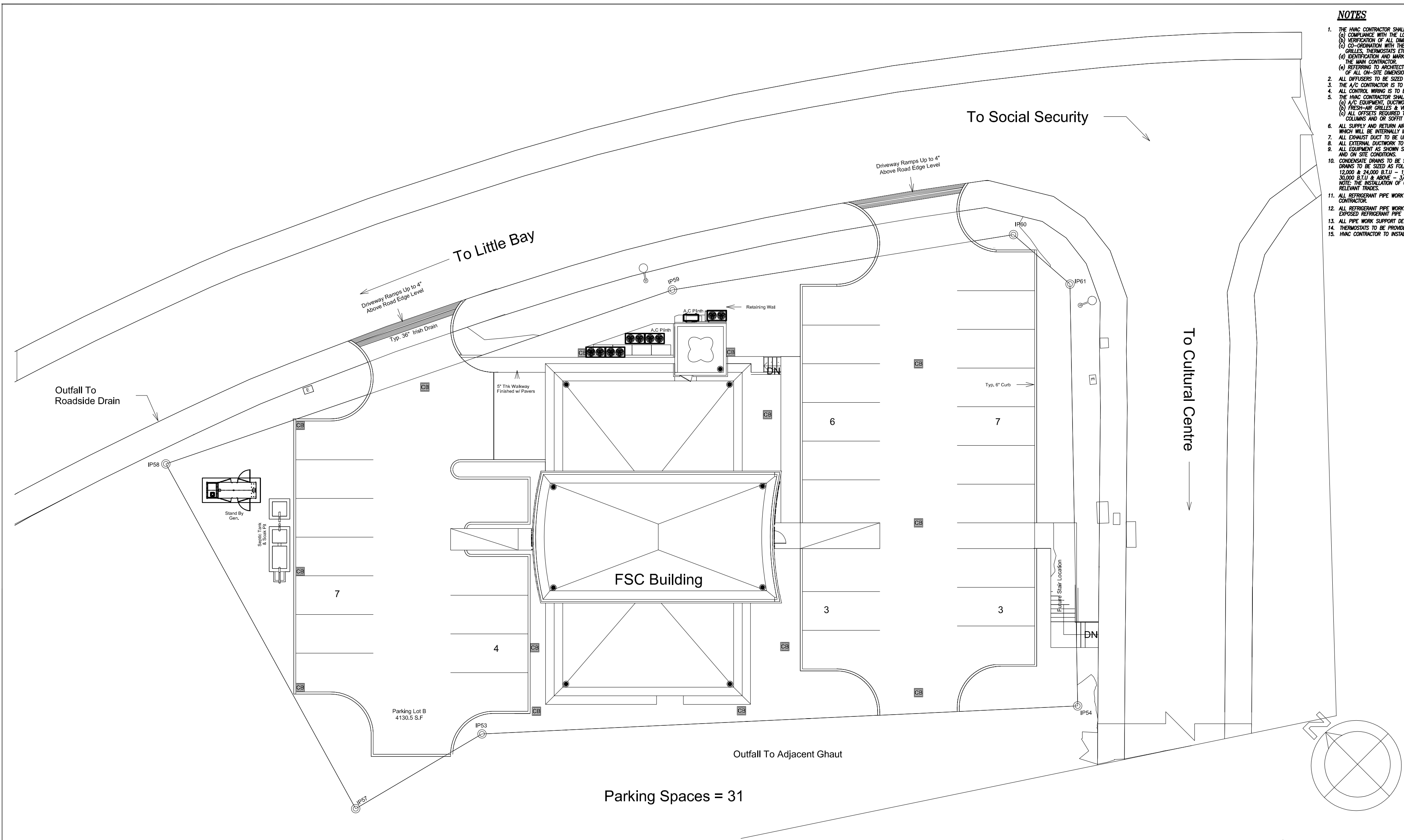
SCALE:
3/16" = 1'-0"
DATE:
22/01/2020

DESIGNED BY:
K.J. Cassell
CHECKED:
K.J.C.

DRAWING:
Water Reticulation Level 3
ISSUE
BID Issue

RFF #:
FSC
DWG#:
P - 08





NOTES

1. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR :
  - (a) COMPLIANCE WITH THE LOCAL RELEVANT HVAC CODES.
  - (b) VERIFICATION OF ALL DIMENSIONS ON SITE AND FITTING OUT OF HIS WORK WITHIN THE BUILDING.
  - (c) CO-ORDINATION WITH THE OTHER SUBCONTRACTORS ON THE FINAL LOCATION OF DUCTWORK, GRILLES, THERMOSTATS ETC. TO ENSURE NO OBSTRUCTIONS WITH THE OTHER TRADES.
  - (d) IDENTIFICATION AND MARKING OUT OF ALL AND/OR FLOOR PENETRATIONS TO BE CARRIED OUT BY THE MAIN CONTRACTOR.
  - (e) REFERRING TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CONFIRMATION OF ALL ON-SITE DIMENSIONS.
2. ALL DIFFUSERS TO BE SIZED AS INDICATED - CFM RATING SHOWN.
3. THE A/C CONTRACTOR IS TO INDEPENDENTLY SUPPORT FLEXIBLE DUCTWORK AROUND TRUSSES & JOISTS.
4. ALL CONTROL WIRING IS TO BE ROUTED CLEAR OF FLUORESCENT FIXTURES & POWER CABLES.
5. THE HVAC CONTRACTOR SHALL SUPPLY AND INSTALL THE FOLLOWING:-
  - (a) A/C EQUIPMENT, DUCTWORK & THERMOSTATS.
  - (b) FRESH-AIR GRILLES & VOLUME CHAMBERS.
  - (c) ALL OFFSETS REQUIRED TO KEEP DUCTS CLOSE TO WALLS, BEAMS, COLUMNS AND OR SOFFIT OF SLAB AS MAY BE REQUIRED TO AVOID ANY OBSTRUCTIONS.
6. ALL SUPPLY AND RETURN AIR DUCTWORK TO BE EXTERNALLY INSULATED EXCEPT EXTERNAL DUCTWORK WHICH WILL BE INTERNALLY INSULATED. MAKE-UP AIR DUCT TO BE INSULATED.
7. ALL EXHAUST DUCT TO BE UNINSULATED.
8. ALL EXTERNAL DUCTWORK TO BE SEALED AT ALL JOINTS WITH NON HARDENING COMPOUND.
9. ALL EQUIPMENT AS SHOWN SHOULD BE INSTALLED WITH FULL CONSIDERATION FOR ALL OTHER TRADES, AND ON SITE CONDITIONS.
10. CONDENSATE DRAINS TO BE SUPPLIED BY A/C CONTRACTOR. DRAINS TO BE SIZED AS FOLLOWS:-  
12,000 & 24,000 B.T.U - 1/2" PVC w/ 1/2" THK. INSULATION  
30,000 B.T.U & ABOVE - 3/4" PVC w/ 1/2" THK. INSULATION  
NOTE: THE INSTALLATION OF CONDENSATE DRAINS TO BE CAREFULLY CO-ORDINATED BETWEEN ALL RELEVANT TRADES.
11. ALL REFRIGERANT PIPE WORK & CONDENSATE LINES TO BE CO-ORDINATED w/ THE ELECTRICAL CONTRACTOR.
12. ALL REFRIGERANT PIPE WORK TO BE RUN WITHIN WALLS AND THE CEILING VOID ONLY. EXPOSED REFRIGERANT PIPE WORK WILL NOT BE ACCEPTED.
13. ALL PIPE WORK SUPPORT DETAILS TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
14. THERMOSTATS TO BE PROVIDED BY A/C EQUIPMENT INSTALLATION CONTRACTOR.
15. HVAC CONTRACTOR TO INSTALL THERMOSTATS AND TAMPER PROOF ENCLOSURES IN THE LOCATIONS SHOWN.

HVAC SITE PLAN

SCALE: 1/16"=1'-0"



**NOTES**

- THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR:
  - COMPLIANCE WITH THE LOCAL RELEVANT HVAC CODES.
  - VERIFICATION OF ALL DIMENSIONS ON SITE AND FITTING OUT OF HIS WORK WITHIN THE BUILDING.
  - COORDINATION WITH THE OTHER SUBCONTRACTORS ON THE FINAL LOCATION OF DUCTWORK, GRILLES, THERMOSTATS ETC. TO ENSURE NO OBSTRUCTIONS WITH THE OTHER TRADES.
  - IDENTIFICATION AND MARKING OUT OF ALL AND/OR FLOOR PENETRATIONS TO BE CARRIED OUT BY THE MAIN CONTRACTOR.
  - REFERRING TO ARCHITECTURAL AND STRUCTURAL AND STRUCTURAL DRAWINGS FOR CONFIRMATION OF ALL ON-SITE DIMENSIONS.
- ALL DIFFUSERS TO BE SIZED AS INDICATED - CFM RATING SHOWN.
- THE A/C CONTRACTOR IS TO INDEPENDENTLY SUPPORT FLEXIBLE DUCTWORK AROUND TRUSSES & JOISTS.
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- ALL EXHAUST DUCT TO BE UNINSULATED.
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- ALL EQUIPMENT AS SHOWN SHOULD BE INSTALLED WITH FULL CONSIDERATION FOR ALL OTHER TRADES, AND ON SITE CONDITIONS.
- CONDENSATE DRAINS TO BE SUPPLIED BY A/C CONTRACTOR.
 

DRAINS TO BE SIZED AS FOLLOWS:-

12,000 & 24,000 B.T.U. - 1/2" P.V.C. w/ 1/2" THK. INSULATION

30,000 B.T.U. & ABOVE - 3/4" P.V.C. w/ 1/2" THK. INSULATION

NOTE: THE INSTALLATION OF CONDENSATE DRAINS TO BE CAREFULLY CO-ORDINATED BETWEEN ALL RELEVANT TRADES.
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- THERMOSTATS TO BE PROVIDED BY A/C EQUIPMENT INSTALLATION CONTRACTOR.
- HVAC CONTRACTOR TO INSTALL THERMOSTATS AND TAMPER PROOF ENCLOSURES IN THE LOCATIONS SHOWN.

(LEVEL 3)  
Mitsubishi City MULTI  
FDC670KXZE1  
CONDENSING UNIT  
400V/3ph/60Hz  
WEIGHT: 544kg

(LEVEL 2)  
Mitsubishi City MULTI  
FDC670KXZE1  
CONDENSING UNIT  
400V/3ph/60Hz  
WEIGHT: 544kg

(FRESH AIR)  
MITSUBISHI FDC280KXE6G  
CONDENSER OUTDOOR UNIT  
400V/3ph/60Hz  
215kg

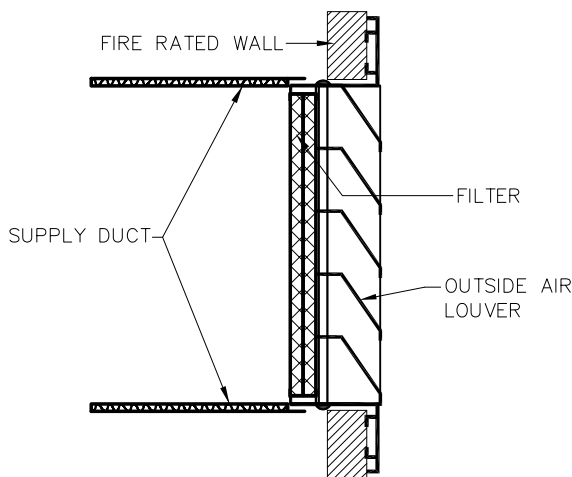
(LEVEL 1)  
Mitsubishi City MULTI  
FDC450KXZE1  
CONDENSING UNIT  
400V/3ph/60Hz  
WEIGHT: 317kg

**LEVEL 1 HVAC LAYOUT**

SCALE: 3/16"=1'-0"

**LEGEND**

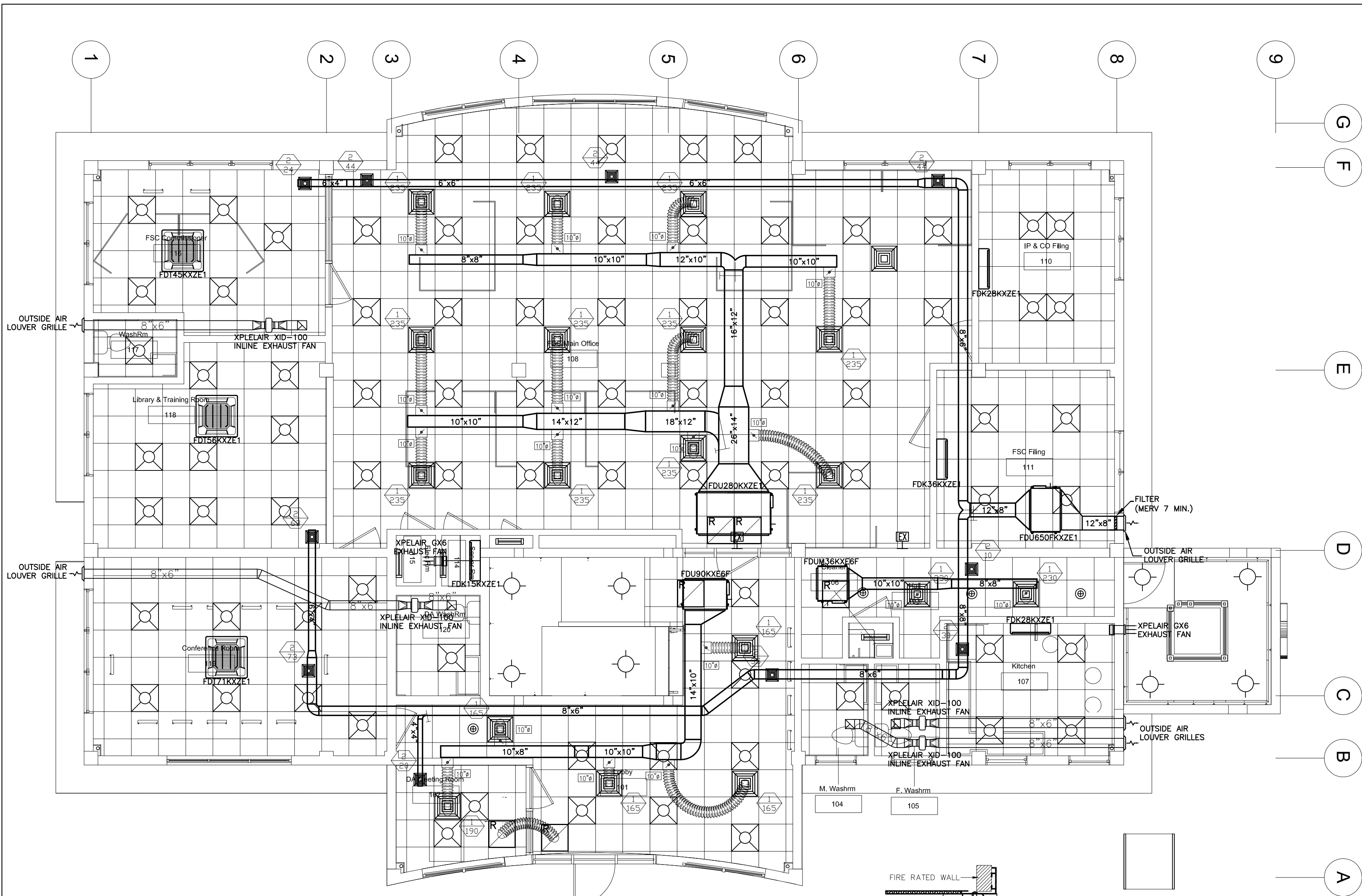
- A/C SUPPLY-AIR DIFFUSER -  
TYPE 1 - AIRGUIDE JS-PLT-4-300x300/600x600(12"x12"/24"x24") COLOUR 'WHITE'  
TYPE 1 - AIRGUIDE JS-PLT-4-200x200/600x600(8"x8"/24"x24") COLOUR 'WHITE'
- RETURN-AIR GRILLE -  
TYPE 1 - AIRGUIDE RA-T-600x600(24"x24") - COLOUR 'WHITE'  
WITH BOX INSULATION
- AIRGUIDE RA-200x200(8"x8") COLOUR 'WHITE'
- OPPOSED BLADE DAMPER
- FIRE DAMPER -  
TYPE 1 - GREENHECK MODEL DFD-150 X 20 TYPE B  
COMPLETE WITH 500mm(20") LONG GALV. STEEL SLEEVE SIZED TO FIT DUCT
- FLEX DUCT - No. DENOTES SIZE IN mm THERMAFLEX, FLEX-AIRE or EQUIVALENT.
- THERMOSTAT - VAV BOX CONTROL T/STAT, PROPORTION TEMP CONTROL  
INTERLOCKED TO VAV BOX CONTROLLER - CONTRACTOR TO CATER FOR 15m(min) EXTENSION. FINAL LOCATION TO BE CONFIRMED PRIOR TO INSTALLATION.
- VOLUME DAMPER
- VOLUME DAMPER



FRESH AIR LOUVER & FILTER DETAIL  
N.T.S.

REVISION	DATE	DESCRIPTION	BY	APP'D
Financial Services Commission Building Little Bay, Montserrat				
<div> <div> <b>K. J. CASSELL CONSULTANTS LTD</b>            Architects            Engineers            Project Managers         </div> <div>           Box 313            Gerald's            Montserrat            664-491-2819            Kencassell@gmail.com         </div> </div>				
<div> <div> <b>EDC CONSULTANTS LIMITED</b>            MEP LIFE SAFETY &amp; SECURITY CONSULTING ENGINEERS            42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I.            Telephone: (868)628-8604 Fax: (868)622-7775         </div> </div>				
FILE NAME:	HVAC			
DWG. TITLE:	LEVEL 1 FLOOR PLAN HVAC LAYOUT			
DESIGNED: E.D.C.	CHECKED: L.D.L.	PROJECT No. 19-010	DWG. No. AC-02	
DATE: 23.09.2019	SCALE: 3/16" = 1'-0"	REVISION: 0		

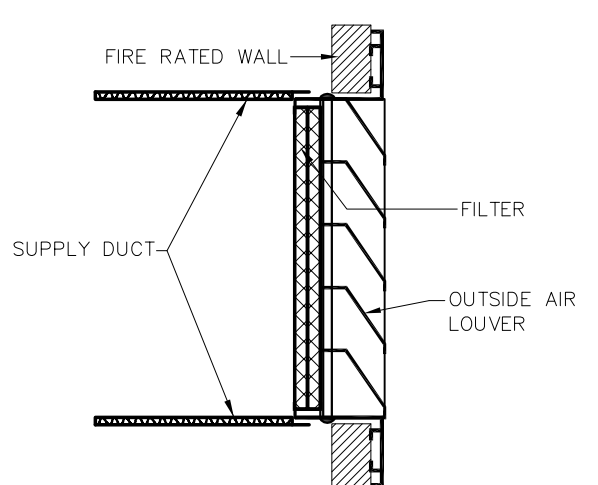




- NOTES**
- THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR:
    - COMPLIANCE WITH THE LOCAL RELEVANT HVAC CODES.
    - VERIFICATION OF ALL DIMENSIONS ON SITE AND FITTING OUT OF HIS WORK WITHIN THE BUILDING.
    - CO-ORDINATION WITH THE OTHER SUBCONTRACTORS ON THE FINAL LOCATION OF DUCTWORK, GRILLES, THERMOSTATS ETC. TO ENSURE NO OBSTRUCTIONS WITH THE OTHER TRADES.
    - IDENTIFICATION AND MARKING OUT OF ALL AND/OR FLOOR PENETRATIONS TO BE CARRIED OUT BY THE MAIN CONTRACTOR.
    - REFERRING TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CONFIRMATION OF ALL ON-SITE DIMENSIONS.
  - ALL DIFFUSERS TO BE SIZED AS INDICATED - CFM RATING SHOWN.
  - THE A/C CONTRACTOR IS TO INDEPENDENTLY SUPPORT FLEXIBLE DUCTWORK AROUND TRUSSES & JOISTS.
  - ALL CONTROL WIRING IS TO BE ROUTED CLEAR OF FLUORESCENT FIXTURES & POWER CABLES.
  - THE HVAC CONTRACTOR SHALL SUPPLY AND INSTALL THE FOLLOWING:-
    - A/C EQUIPMENT, DUCTWORK & THERMOSTATS.
    - FRESH-AIR GRILLES & VOLUME DAMPERS.
    - ALL OFFSETS REQUIRED TO KEEP DUCTS CLOSE TO WALLS, BEAMS, COLUMNS AND OR SOFTY OF SLAB AS MAY BE REQUIRED TO AVOID ANY OBSTRUCTIONS.
  - ALL SUPPLY AND RETURN AIR DUCTWORK TO BE EXTERNALLY INSULATED EXCEPT EXTERNAL DUCTWORK WHICH WILL BE INTERNALLY INSULATED. MAKE-UP AIR DUCT TO BE INSULATED.
  - ALL EXHAUST DUCT TO BE UNINSULATED.
  - ALL EXTERNAL DUCTWORK TO BE SEALED AT ALL JOINTS WITH NON HARDENING COMPOUND.
  - ALL EQUIPMENT AS SHOWN SHOULD BE INSTALLED WITH FULL CONSIDERATION FOR ALL OTHER TRADES, AND ON SITE CONDITIONS.
  - CONDENSATE DRAINS TO BE SUPPLIED BY A/C CONTRACTOR. DRAINS TO BE SIZED AS FOLLOWS:  
12,000 & 24,000 B.T.U. - 1/2" PVC w/ 1/2" THK. INSULATION  
30,000 B.T.U. & ABOVE - 3/4" PVC w/ 1/2" THK. INSULATION  
NOTE: THE INSTALLATION OF CONDENSATE DRAINS TO BE CAREFULLY CO-ORDINATED BETWEEN ALL RELEVANT TRADES.
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  - ALL PIPE WORK SUPPORT DETAILS TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
  - THERMOSTATS TO BE PROVIDED BY A/C EQUIPMENT INSTALLATION CONTRACTOR.
  - HVAC CONTRACTOR TO INSTALL THERMOSTATS AND TAMPER PROOF ENCLOSURES IN THE LOCATIONS SHOWN.



- LEGEND**
- A/C SUPPLY-AIR DIFFUSER -  
TYPE 1 - AIRGUIDE JS-PLT-4-300x300/600x600(12"x12"/24"x24") COLOUR "WHITE"  
TYPE 1 - AIRGUIDE JS-PLT-4-200x200/600x600(8"x8"/24"x24") COLOUR "WHITE"
  - RETURN-AIR GRILLE -  
TYPE 1 - AIRGUIDE RA-T-600x600(24"x24") - COLOUR "WHITE"  
WITH BOX INSULATION
  - AIRGUIDE RA-200x200(8"x8") COLOUR "WHITE"
  - OPPOSED BLADE DAMPER
  - FIRE DAMPER -  
TYPE 1 - GREENHECK MODEL DFD-150 X 20 TYPE B  
COMPLETE WITH 500mm(20") LONG GALV. STEEL SLEEVE SIZED TO FIT DUCT
  - FLEX DUCT - No. DENOTES SIZE IN mm THERMAFLEX, FLEX-AIRE or EQUIVALENT.
  - THERMOSTAT - VAN BOX CONTROL T/STAT, PROPORTION TEMP CONTROL INTERLOCKED TO VAN BOX CONTROLLER - CONTRACTOR TO CATER FOR 15m(min) EXTENSION. FINAL LOCATION TO BE CONFIRMED PRIOR TO INSTALLATION.
  - VOLUME DAMPER
  - VOLUME DAMPER

**LEVEL 2 HVAC LAYOUT**  
SCALE: 1/4" = 1'-0"

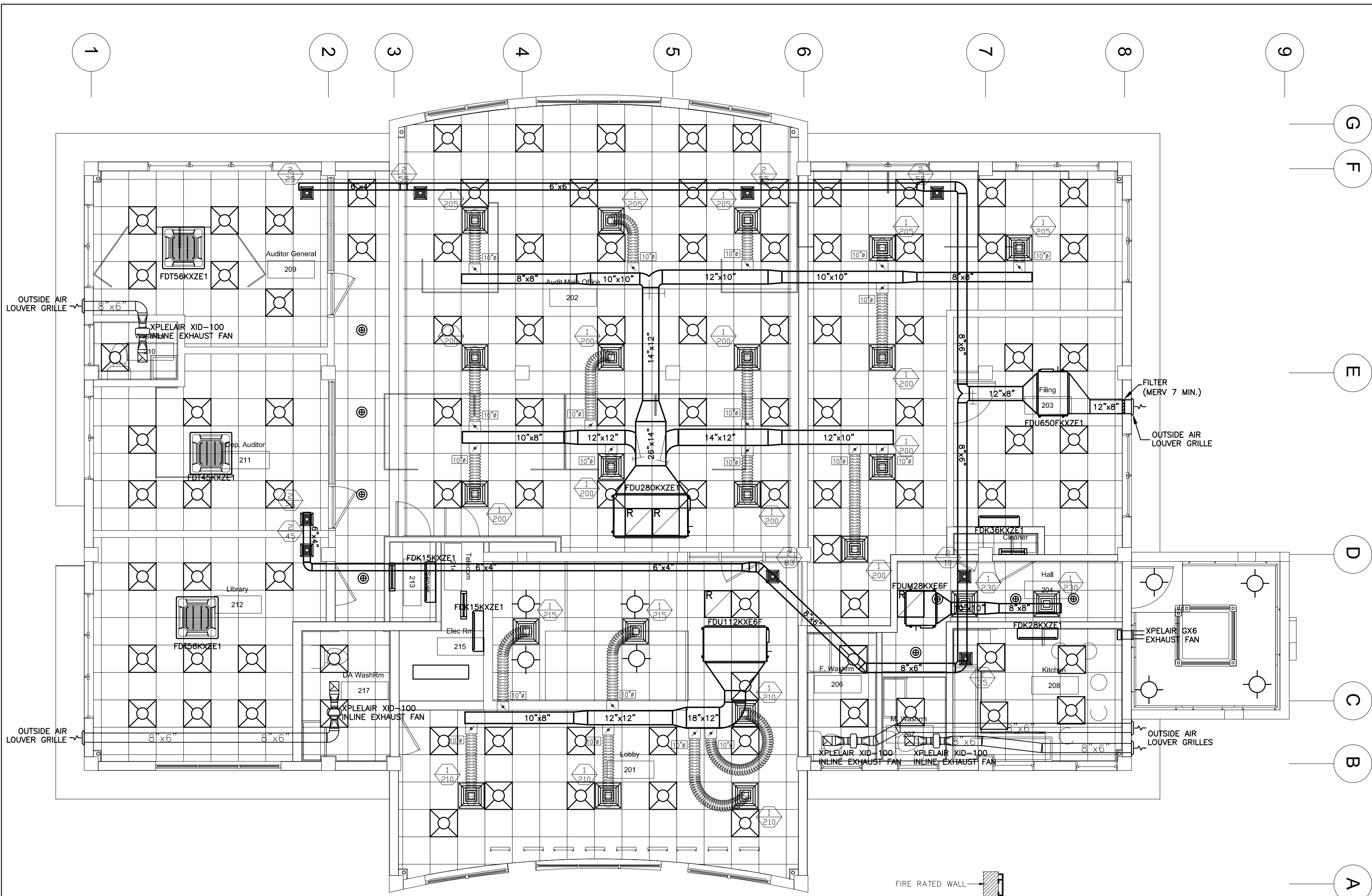


FRESH AIR LOUVER & FILTER DETAIL  
N.T.S.

REVISION	DATE	DESCRIPTION	BY	APP'D

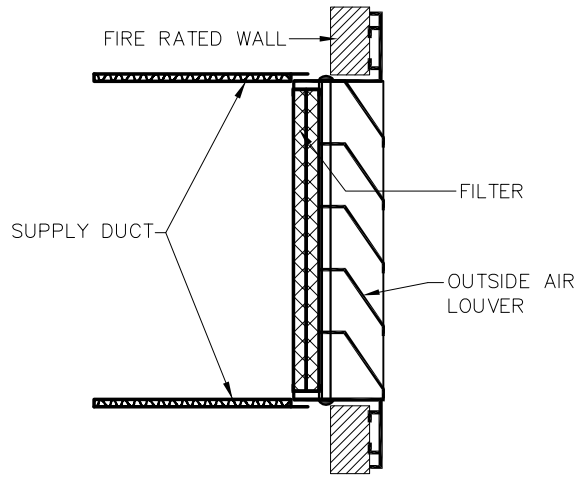
1	03/03/2020	GENERAL REVISION		L.D.L.	APP'D
REVISION	DATE	DESCRIPTION		BY	APP'D
		Financial Services Commission Building Little Bay, Montserrat			
		<div><div><b>K. J. CASSELL CONSULTANTS LTD</b><ul style="list-style-type: none"><li>Architects</li><li>Engineers</li><li>Project Managers</li></ul></div><div>Box 313 Gerald's Montserrat 664-491-2819 Kencassell@gmail.com</div></div>			
<div></div>		<div><b>EDC CONSULTANTS LIMITED</b> MEP LIFE SAFETY &amp; SECURITY CONSULTING ENGINEERS <hr/>42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax:(868)622-7775</div>			
FILE NAME:		THRU: <b>HVAC</b>			
		DWG. TITLE: <b>LEVEL 2 FLOOR PLAN HVAC LAYOUT</b>			
DESIGNED: E.D.C		CHECKED:		PROJECT No.: <b>19-010</b>	
DRAWN: L.D.L.		SCALE: 3/16" = 1'-0"		DWG. No.: <b>AC-03</b>	
DATE: 23.09.2019		APP'D:		REVISION: <b>1</b>	





**LEVEL 3 HVAC LAYOUT**

SCALE: 3/16"=1'-0"



FRESH AIR LOUVER & FILTER DETAIL  
N.T.S.



**NOTES**

1. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR:  
(a) COMPLIANCE WITH THE LOCAL RELEVANT HVAC CODES.  
(b) VERIFICATION OF ALL DIMENSIONS ON SITE AND FITTING OUT OF HIS WORK WITHIN THE BUILDING.  
(c) CO-ORDINATION WITH THE OTHER SUBCONTRACTORS ON THE FINAL LOCATION OF DUCTWORK, GRILLES, THERMOSTATS ETC. TO ENSURE NO OBSTRUCTIONS WITH THE OTHER TRADES.  
(d) IDENTIFICATION AND MARKING OUT OF ALL AND/OR FLOOR PENETRATIONS TO BE CARRIED OUT BY THE MAIN CONTRACTOR.  
(e) REFERRING TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CONFIRMATION OF ALL ON-SITE DIMENSIONS.  
(f) ALL DIFFUSERS TO BE SIZED AS INDICATED - CFM RATING SHOWN.  
(g) THE A/C CONTRACTOR IS TO INDEPENDENTLY SUPPORT FLEXIBLE DUCTWORK AROUND TRUSSES & JOISTS.  
(h) ALL CONTROL WIRING IS TO BE ROUTED CLEAR OF FLUORESCENT FIXTURES & POWER CABLES.  
(i) THE HVAC CONTRACTOR SHALL SUPPLY AND INSTALL THE FOLLOWING:-  
(1) A/C EQUIPMENT, DUCTWORK & THERMOSTATS.  
(2) FRESH-AIR GRILLES & VOLUME DAMPERS.  
(3) ALL OFFSETS REQUIRED TO KEEP DUCTS CLOSE TO WALLS, BEAMS, COLUMNS AND OR SOFFIT OF SLAB AS MAY BE REQUIRED TO AVOID ANY OBSTRUCTIONS.  
(4) ALL SUPPLY AND RETURN AIR DUCTWORK TO BE EXTERNALLY INSULATED EXCEPT EXTERNAL DUCTWORK WHICH WILL BE INTERNALLY INSULATED. MAKE-UP AIR DUCT TO BE INSULATED.  
(5) ALL EXHAUST DUCT TO BE UNINSULATED.  
(6) ALL EXTERNAL DUCTWORK TO BE SEALED AT ALL JOINTS WITH NON HARDENING COMPOUND.  
(7) ALL EQUIPMENT AS SHOWN SHOULD BE INSTALLED WITH FULL CONSIDERATION FOR ALL OTHER TRADES, AND ON SITE CONDITIONS.  
(8) CONDENSATE DRAINS TO BE SUPPLIED BY A/C CONTRACTOR.  
(9) CONDENSATE DRAINS TO BE SIZED AS FOLLOWS:-  
12,000 & 24,000 BTU - 1/2" PVC w/ 1/2" THK. INSULATION  
30,000 BTU & ABOVE - 3/4" PVC w/ 1/2" THK. INSULATION  
NOTE: THE INSTALLATION OF CONDENSATE DRAINS TO BE CAREFULLY CO-ORDINATED BETWEEN ALL RELEVANT TRADES.  
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(15) HVAC CONTRACTOR TO INSTALL THERMOSTATS AND TAMPER PROOF ENCLOSURES IN THE LOCATIONS SHOWN.

**LEGEND**

- A/C SUPPLY-AIR DIFFUSER -  
TYPE 1 - AIRGUIDE JS-PLT-4-300x300/600x600(12"x12"/24"x24") COLOUR 'WHITE'  
TYPE 1 - AIRGUIDE JS-PLT-4-200x200/600x600(8"x8"/24"x24") COLOUR 'WHITE'
- RETURN-AIR GRILLE -  
TYPE 1 - AIRGUIDE RA-T-600x600(24"x24") - COLOUR 'WHITE'  
WITH BOX INSULATION
- AIRGUIDE RA-200x200(8"x8") COLOUR 'WHITE'
- OPPOSED BLADE DAMPER
- FIRE DAMPER -  
TYPE 1 - GREENHECK MODEL OFD-150 X 20 TYPE B  
COMPLETE WITH 500mm(20") LONG GALV. STEEL SLEEVE SIZED TO FIT DUCT
- FLEX DUCT - No. DENOTES SIZE IN mm THERMAFLEX, FLEX-AIRE or EQUIVALENT.
- THERMOSTAT - VAV BOX CONTROL T/STAT, PROPORTION TEMP CONTROL INTERLOCKED TO VAV BOX CONTROLLER - CONTRACTOR TO CATER FOR 15m(min) EXTENSION. FINAL LOCATION TO BE CONFIRMED PRIOR TO INSTALLATION.
- VOLUME DAMPER
- VOLUME DAMPER

REVISION	DATE	DESCRIPTION	BY	APP'D
1	03/03/2020	GENERAL REVISION	L.D.L.	APP'D
2		DESCRIPTION	BY	APP'D

1	03/03/2020	GENERAL REVISION		L.D.L.	APP'D
REVISION	DATE	DESCRIPTION		BY	APP'D
		Financial Services Commission Building Little Bay, Montserrat			
		<div><div></div><div><div>K. J. CASSELL CONSULTANTS LTD</div><div><div>• Architects</div><div>• Engineers</div><div>• Project Managers</div></div></div></div> <div><div>Box 313</div><div>Gerald's</div><div>Montserrat</div><div>664-491-2819</div><div>Kencassell@gmail.com</div></div>			
<div></div>		<div><div>EDC CONSULTANTS LIMITED</div><div>MEP LIFE SAFETY &amp; SECURITY CONSULTING ENGINEERS</div><div>42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I.</div><div>Telephone: (868)628-8604 Fax:(868)622-7775</div></div>			
FILE NAME:		TRADE:		HVAC	
		DWG. TITLE:		LEVEL 3 FLOOR PLAN HVAC LAYOUT	
DESIGNER: E.D.C		CHECKED:		PROJECT No.: 19-010	
DRAWING: L.D.L.		SCALE: 3/16" = 1'-0"		DWG. No.: AC-04	
DATE: 23.09.2019		APP'D:		REVISION: 1	



NOTES

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- HVAC CONTRACTOR TO INSTALL THERMOSTATS AND TAMPER PROOF ENCLOSURES IN THE LOCATIONS SHOWN.

(LEVEL 3)  
Mitsubishi City MULTI  
FDC670KXZE1  
CONDENSING UNIT  
400V/3ph/60Hz  
WEIGHT: 544kg

(LEVEL 2)  
Mitsubishi City MULTI  
FDC670KXZE1  
CONDENSING UNIT  
400V/3ph/60Hz  
WEIGHT: 544kg

(FRESH AIR)  
MITSUBISHI FDC280KXE6G  
CONDENSER OUTDOOR UNIT  
400V/3ph/60Hz  
215kg

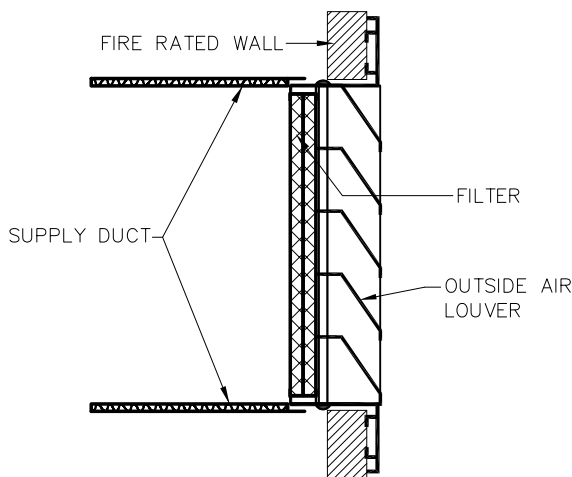
(LEVEL 1)  
Mitsubishi City MULTI  
FDC450KXZE1  
CONDENSING UNIT  
400V/3ph/60Hz  
WEIGHT: 317kg

LEGEND



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TYPE 1 - AIRGUIDE JS-PLT-4-200x200/600x600(8"x8"/24"x24") COLOUR 'WHITE'
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TYPE 1 - AIRGUIDE RA-T-600x600(24"x24") - COLOUR 'WHITE'  
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- VOLUME DAMPER

LEVEL 1 VRF PIPING LAYOUT

SCALE: 3/16"=1'-0"



FRESH AIR LOUVER & FILTER DETAIL  
N.T.S.

REVISION	DATE	DESCRIPTION	BY	APP'D
		Financial Services Commission Building Little Bay, Montserrat		
		 <b>K. J. CASSELL CONSULTANTS LTD</b> • Architects • Engineers • Project Managers		Box 313 Gerald's Montserrat 664-491-2819 Kencassell@gmail.com
		<b>EDC CONSULTANTS LIMITED</b> MEP LIFE SAFETY & SECURITY CONSULTING ENGINEERS  42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax:(868)622-7775		
FILE NAME:	TRADE: <b>HVAC</b>			
	DWG. TITLE: <b>LEVEL 1 FLOOR PLAN VRV PIPING LAYOUT</b>			
DESIGNED: <b>E.D.C</b>	CHECKED:	PROJECT No.: <b>19-010</b>		
DRAWN: <b>L.D.L.</b>	SCALE: <b>3/16" = 1'-0"</b>	DWG. No.: <b>AC-05</b>	REVISION: <b>0</b>	
DATE: <b>23.09.2019</b>	APP'D:			



NOTES

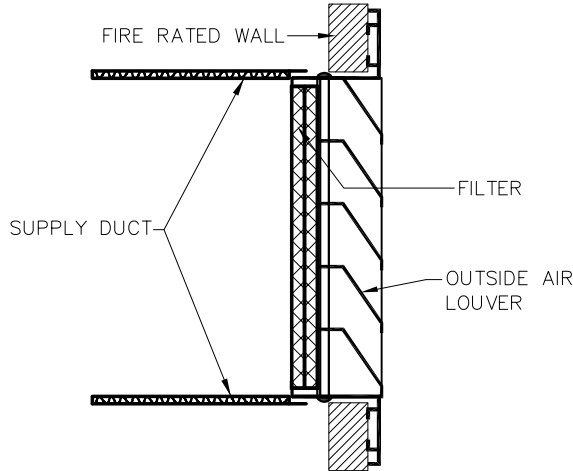
- THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR:
  - COMPLIANCE WITH THE LOCAL RELEVANT HVAC CODES.
  - VERIFICATION OF ALL DIMENSIONS ON SITE AND FITTING OUT OF HIS WORK WITHIN THE BUILDING.
  - CO-ORDINATION WITH THE OTHER SUBCONTRACTORS ON THE FINAL LOCATION OF DUCTWORK, GRILLES, THERMOSTATS ETC. TO ENSURE NO OBSTRUCTIONS WITH THE OTHER TRADES.
  - IDENTIFICATION AND MARKING OUT OF ALL AND/OR FLOOR PENETRATIONS TO BE CARRIED OUT BY THE MAIN CONTRACTOR.
  - REFERRING TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CONFIRMATION OF ALL ON-SITE DIMENSIONS.
- ALL DIFFUSERS TO BE SIZED AS INDICATED - CFM RATING SHOWN.
- THE A/C CONTRACTOR IS TO INDEPENDENTLY SUPPORT FLEXIBLE DUCTWORK AROUND TRUSSES & JOISTS.
- ALL CONTROL WIRING IS TO BE ROUTED CLEAR OF FLUORESCENT FIXTURES & POWER CABLES.
- THE HVAC CONTRACTOR SHALL SUPPLY AND INSTALL THE FOLLOWING:-
  - A/C EQUIPMENT, DUCTWORK & THERMOSTATS.
  - FRESH-AIR GRILLES & VOLUME DAMPERS.
  - ALL OFFSETS REQUIRED TO KEEP DUCTS CLOSE TO WALLS, BEAMS, COLUMNS AND OR SOFFIT OF SLAB AS MAY BE REQUIRED TO AVOID ANY OBSTRUCTIONS.
- ALL SUPPLY AND RETURN AIR DUCTWORK TO BE EXTERNALLY INSULATED EXCEPT EXTERNAL DUCTWORK WHICH WILL BE INTERNALLY INSULATED. MAKE-UP AIR DUCT TO BE INSULATED.
- ALL EXHAUST DUCT TO BE UNINSULATED.
- ALL EXTERNAL DUCTWORK TO BE SEALED AT ALL JOINTS WITH NON HARDENING COMPOUND.
- ALL EQUIPMENT AS SHOWN SHOULD BE INSTALLED WITH FULL CONSIDERATION FOR ALL OTHER TRADES, AND ON SITE CONDITIONS.
- CONDENSATE DRAINS TO BE SUPPLIED BY A/C CONTRACTOR. DRAINS TO BE SIZED AS FOLLOWS:-  
12,000 & 24,000 B.T.U. - 1/2" P.V.C. w/ 1/2" THK. INSULATION  
30,000 B.T.U. & ABOVE - 3/4" P.V.C. w/ 1/2" THK. INSULATION  
NOTE: THE INSTALLATION OF CONDENSATE DRAINS TO BE CAREFULLY CO-ORDINATED BETWEEN ALL RELEVANT TRADES.
- ALL REFRIGERANT PIPE WORK & CONDENSATE LINES TO BE CO-ORDINATED w/ THE ELECTRICAL CONTRACTOR.
- ALL REFRIGERANT PIPE WORK TO BE RUN WITHIN WALLS AND THE CEILING VOID ONLY. EXPOSED REFRIGERANT PIPE WORK WILL NOT BE ACCEPTED.
- ALL PIPE WORK SUPPORT DETAILS TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- THERMOSTATS TO BE PROVIDED BY A/C EQUIPMENT INSTALLATION CONTRACTOR.
- HVAC CONTRACTOR TO INSTALL THERMOSTATS AND TAMPER PROOF ENCLOSURES IN THE LOCATIONS SHOWN.

LEGEND



- A/C SUPPLY-AIR DIFFUSER -  
TYPE 1 - AIRGUIDE JS-PLT-4-300x300/600x600(12"x12"/24"x24") COLOUR 'WHITE'  
TYPE 1 - AIRGUIDE JS-PLT-4-200x200/600x600(8"x8"/24"x24") COLOUR 'WHITE'
- RETURN-AIR GRILLE -  
TYPE 1 - AIRGUIDE RA-T-600x600(24"x24") - COLOUR 'WHITE'  
WITH BOX INSULATION
- AIRGUIDE RA-200x200(8"x8") COLOUR 'WHITE'
- OPPOSED BLADE DAMPER
- FIRE DAMPER -  
TYPE 1 - GREENHECK MODEL DFD-150 X 20 TYPE B  
COMPLETE WITH 500mm(20") LONG GALV. STEEL SLEEVE SIZED TO FIT DUCT
- FLEX DUCT - No. DENOTES SIZE IN mm THERMAFLEX, FLEX-AIRE or EQUIVALENT.
- THERMOSTAT - VAN BOX CONTROL T/STAT, PROPORTION TEMP CONTROL  
INTERLOCKED TO VAN BOX CONTROLLER - CONTRACTOR TO CATER FOR 15m(min) EXTENSION. FINAL LOCATION TO BE CONFIRMED PRIOR TO INSTALLATION.
- VOLUME DAMPER
- VOLUME DAMPER

LEVEL 2 VRF PIPING LAYOUT

SCALE: 3/16"=1'-0"



FRESH AIR LOUVER & FILTER DETAIL  
N.T.S.

1	03/03/2020	GENERAL REVISION	L.D.L.	APP'D
REVISION	DATE	DESCRIPTION	BY	APP'D
		Financial Services Commission Building Little Bay, Montserrat		
		<div><div></div><div><div>K. J. CASSELL CONSULTANTS LTD</div><div>• Architects • Engineers • Project Managers</div></div></div> <div><div>Box 313 Gerald's Montserrat 664-491-2819 Kencassell@gmail.com</div></div>		
<div></div>		<div><div>EDC CONSULTANTS LIMITED</div><div>MEP LIFE SAFETY &amp; SECURITY CONSULTING ENGINEERS</div><div>42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax:(868)622-7775</div></div>		
FILE NAME:		THINC: HVAC		
DWG. TITLE:		LEVEL 2 FLOOR PLAN VRV PIPING LAYOUT		
DESIGNED: E.D.C		CHECKED:	PROJECT No.: 19-010	
DRAWN: L.D.L.		SCALE: 3/16" = 1'-0"	DWG. No.: AC-06	REVISION: 1
DATE: 23.09.2019		APP'D:		



NOTES

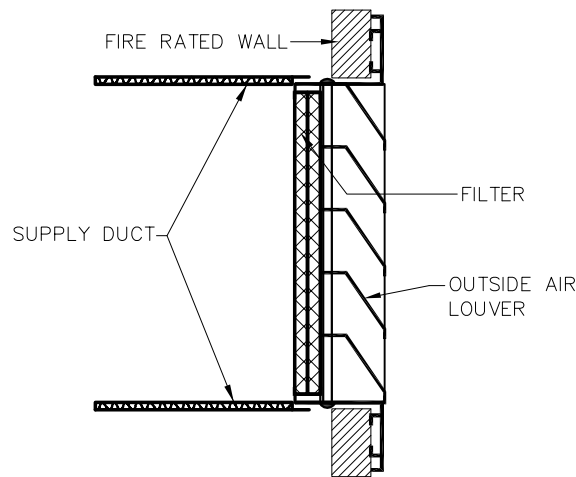
- THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR:
  - COMPLIANCE WITH THE LOCAL RELEVANT HVAC CODES.
  - VERIFICATION OF ALL DIMENSIONS ON SITE AND FITTING OUT OF HIS WORK WITHIN THE BUILDING.
  - CO-ORDINATION WITH THE OTHER SUBCONTRACTORS ON THE FINAL LOCATION OF DUCTWORK, GRILLES, THERMOSTATS ETC. TO ENSURE NO OBSTRUCTIONS WITH THE OTHER TRADES.
  - IDENTIFICATION AND MARKING OUT OF ALL AND/OR FLOOR PENETRATIONS TO BE CARRIED OUT BY THE HVAC CONTRACTOR.
  - REFERRING TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CONFIRMATION OF ALL ON-SITE DIMENSIONS.
- ALL DIFFUSERS TO BE SIZED AS INDICATED - CFM RATING SHOWN.
- THE A/C CONTRACTOR IS TO INDEPENDENTLY SUPPORT FLEXIBLE DUCTWORK AROUND TRUSSES & JOISTS.
- ALL CONTROL WIRING IS TO BE ROUTED CLEAR OF FLUORESCENT FIXTURES & POWER CABLES.
- THE HVAC CONTRACTOR SHALL SUPPLY AND INSTALL THE FOLLOWING:-
  - A/C EQUIPMENT, DUCTWORK & THERMOSTATS.
  - FRESH-AIR GRILLES & VOLUME DAMPERS.
  - ALL OFFSETS REQUIRED TO KEEP DUCTS CLOSE TO WALLS, BEAMS, COLUMNS AND OR SOFFIT OF SLAB AS MAY BE REQUIRED TO AVOID ANY OBSTRUCTIONS.
- ALL SUPPLY AND RETURN AIR DUCTWORK TO BE EXTERNALLY INSULATED EXCEPT EXTERNAL DUCTWORK WHICH WILL BE INTERNALLY INSULATED. MAKE-UP AIR DUCT TO BE INSULATED.
- ALL EXHAUST DUCT TO BE UNINSULATED.
- ALL EXTERNAL DUCTWORK TO BE SEALED AT ALL JOINTS WITH NON HARDENING COMPOUND.
- ALL EQUIPMENT AS SHOWN SHOULD BE INSTALLED WITH FULL CONSIDERATION FOR ALL OTHER TRADES, AND ON SITE CONDITIONS.
- CONDENSATE DRAINS TO BE SUPPLIED BY A/C CONTRACTOR.
- DRAINS TO BE SIZED AS FOLLOWS:  
12,000 & 24,000 B.T.U. - 1/2" P.V.C w/ 1/2" THK. INSULATION  
30,000 B.T.U. & ABOVE - 3/4" P.V.C w/ 1/2" THK. INSULATION  
NOTE: THE INSTALLATION OF CONDENSATE DRAINS TO BE CAREFULLY CO-ORDINATED BETWEEN ALL RELEVANT TRADES.
- ALL REFRIGERANT PIPE WORK & CONDENSATE LINES TO BE CO-ORDINATED w/ THE ELECTRICAL CONTRACTOR.
- ALL REFRIGERANT PIPE WORK TO BE RUN WITHIN WALLS AND THE CEILING VOID ONLY.  
EXPOSED REFRIGERANT PIPE WORK WILL NOT BE ACCEPTED.
- ALL PIPE WORK SUPPORT DETAILS TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- THERMOSTATS TO BE PROVIDED BY A/C EQUIPMENT INSTALLATION CONTRACTOR.
- HVAC CONTRACTOR TO INSTALL THERMOSTATS AND TAMPER PROOF ENCLOSURES IN THE LOCATIONS SHOWN.

LEGEND



- A/C SUPPLY-AIR DIFFUSER -  
TYPE 1 - AIRGUIDE JS-PLT-4-300x300/600x600(12"x12"/24"x24") COLOUR 'WHITE'  
TYPE 2 - AIRGUIDE JS-PLT-4-200x200/600x600(8"x8"/24"x24") COLOUR 'WHITE'
- RETURN-AIR GRILLE -  
TYPE 1 - AIRGUIDE RA-T-600x600(24"x24") - COLOUR 'WHITE'  
WITH BOX INSULATION
- AIRGUIDE RA-200x200(8"x8") COLOUR 'WHITE'
- OPPOSED BLADE DAMPER
- FIRE DAMPER -  
TYPE 1 - GREENHECK MODEL DFD-150 X 20 TYPE B  
COMPLETE WITH 500mm(20") LONG GALV. STEEL SLEEVE SIZED TO FIT DUCT
- FLEX DUCT - No. DENOTES SIZE IN  
mm THERMAFLEX, FLEX-ARE or  
EQUVALENT.
- THERMOSTAT - VAV BOX CONTROL T/STAT, PROPORTION TEMP CONTROL  
INTERLOCKED TO VAV BOX CONTROLLER - CONTRACTOR TO CATER FOR  
15m(min) EXTENSION. FINAL LOCATION TO BE CONFIRMED PRIOR TO INSTALLATION.
- VOLUME DAMPER
- VOLUME DAMPER

LEVEL 3 VRF PIPING LAYOUT

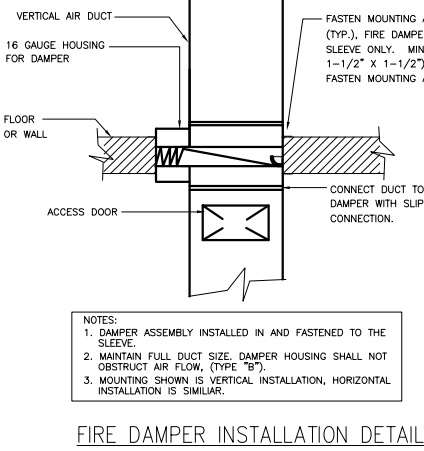
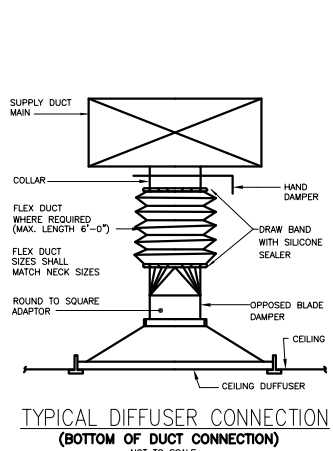
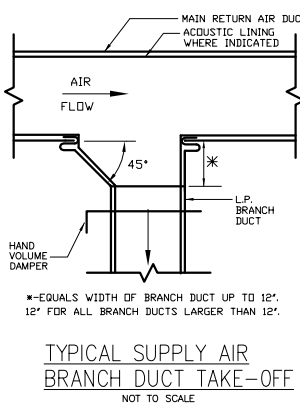
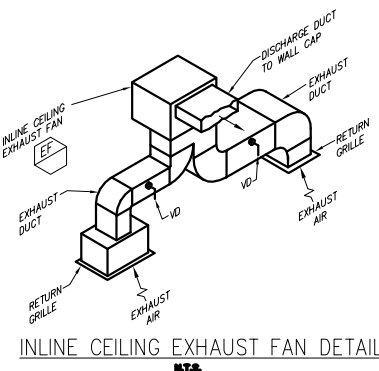
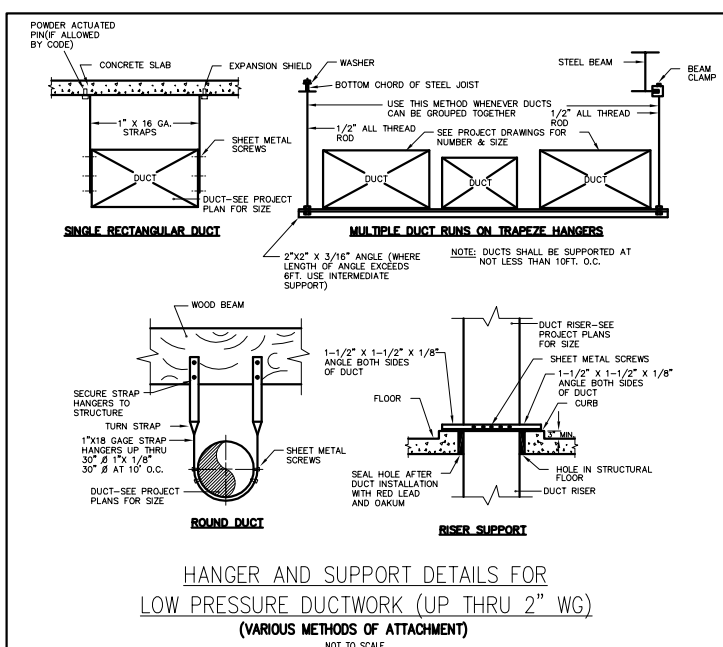
SCALE: 3/16"=1'-0"



FRESH AIR LOUVER & FILTER DETAIL  
N.T.S.

1	03/03/2020	GENERAL REVISION	L.D.L.	APP'D
REVISION	DATE	DESCRIPTION	BY	APP'D
		Financial Services Commission Building Little Bay, Montserrat		
		<div><div></div><div><b>K. J. CASSELL CONSULTANTS LTD</b> • Architects • Engineers • Project Managers</div></div> <div>Box 313 Gerald's Montserrat 664-491-2819 Kencassell@gmail.com</div>		
		<div><b>EDC CONSULTANTS LIMITED</b> MEP LIFE SAFETY &amp; SECURITY CONSULTING ENGINEERS</div> <div>42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax:(868)622-7775</div>		
FILE NAME:		THINC: HVAC		
		DWG. TITLE: LEVEL 3 FLOOR PLAN VRV PIPING LAYOUT		
DESIGNED: E.D.C		CHECKED:	PROJECT No.: 19-010	
DRAWN: L.D.L.		SCALE: 3/16" = 1'-0"	DWG. No.: AC-07	REVISION: 1
DATE: 23.09.2019		APP'D:		

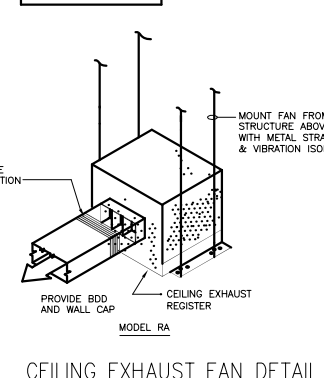
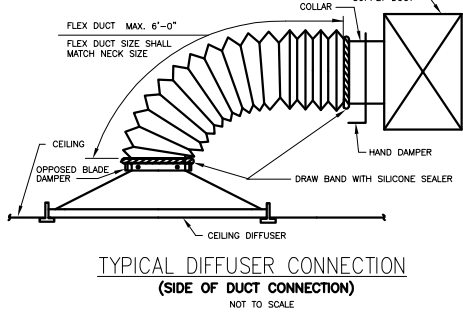
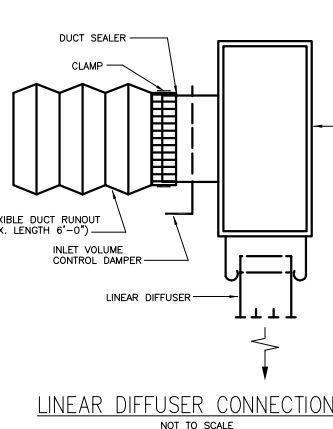
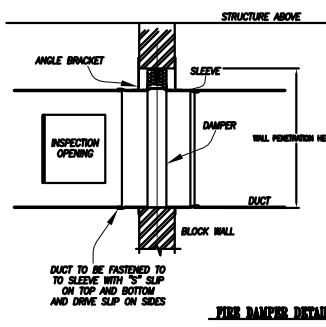
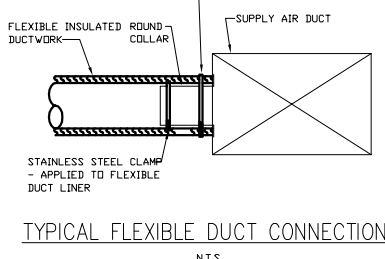
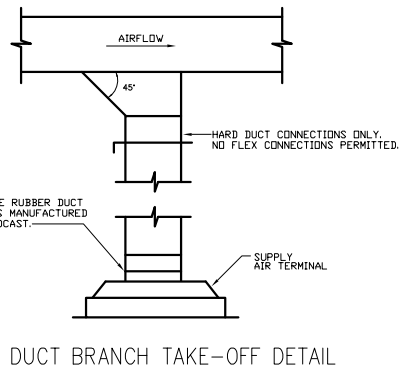
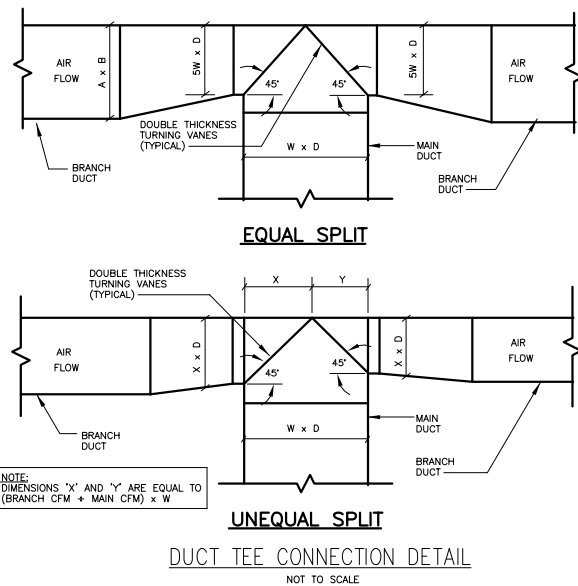
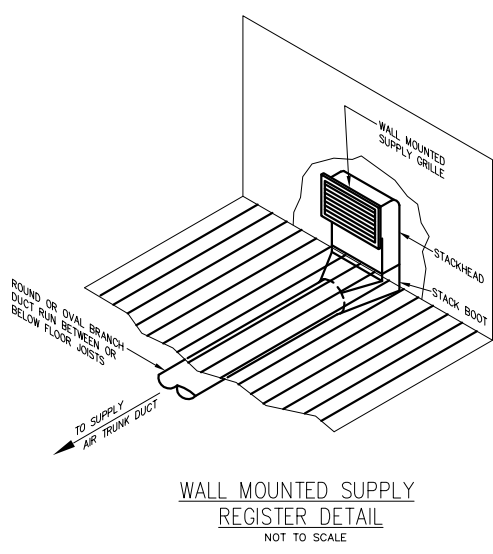
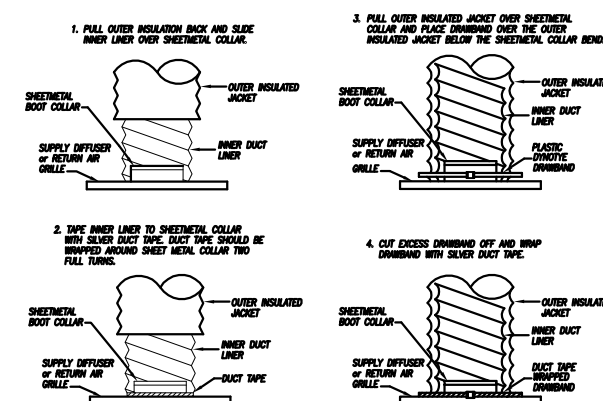
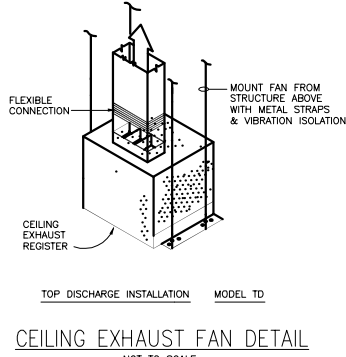
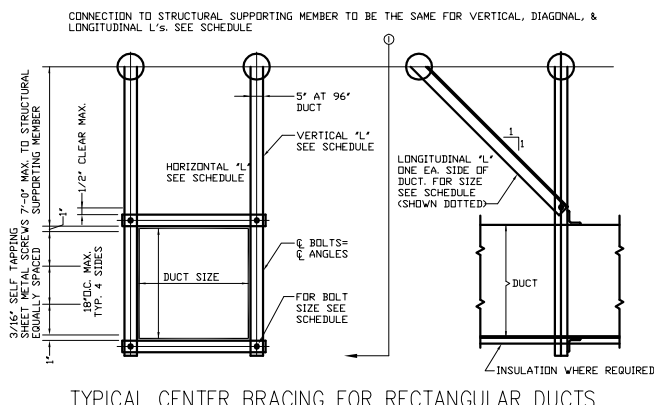
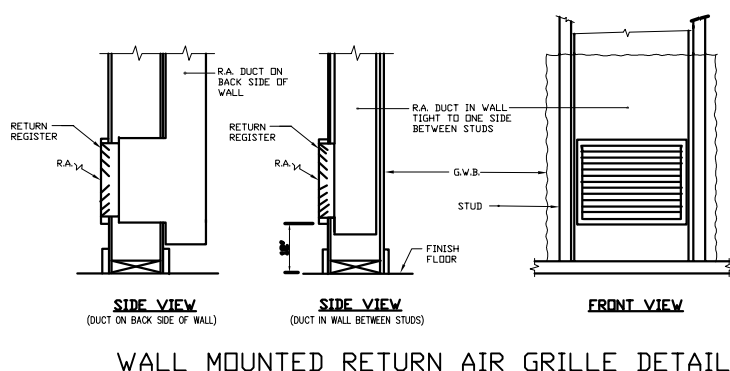
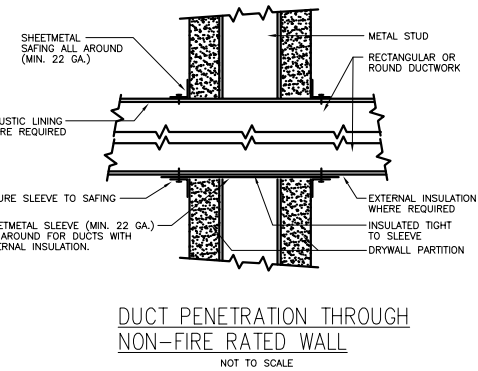






DUCT CONSTRUCTION MINIMUM SHEET METAL THICKNESSES				
RECTANGULAR DUCTS				
MAXIMUM SIZE (INCHES)	STEEL		ALUMINUM	
	(MINIMUM THICKNESS, NOMINAL)		(MINIMUM THICKNESS, NOMINAL)	
THROUGH 12	0.022 (NO. 26 GAGE, GALV.)		0.020 (NO. 24 BBS GAGE)	
13 THROUGH 30	0.028 (NO. 24 GAGE, GALV.)		0.025 (NO. 22 BBS GAGE)	
31 THROUGH 36	0.035 (NO. 22 GAGE, GALV.)		0.030 (NO. 20 BBS GAGE)	
37 THROUGH 84	0.040 (NO. 20 GAGE, GALV.)		0.040 (NO. 18 BBS GAGE)	
OVER 84	0.052 (NO. 18 GAGE, GALV.)		0.051 (NO. 16 BBS GAGE)	

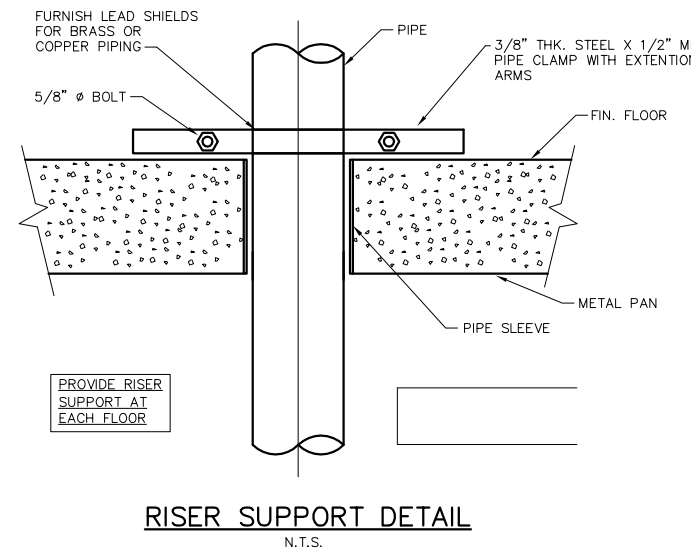
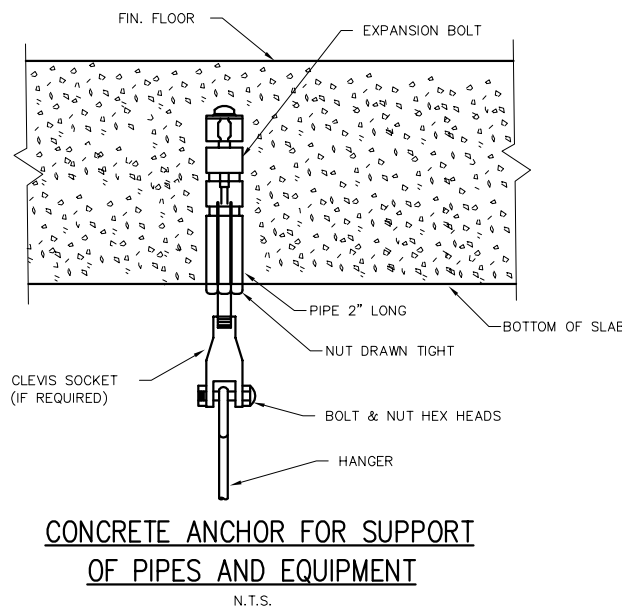
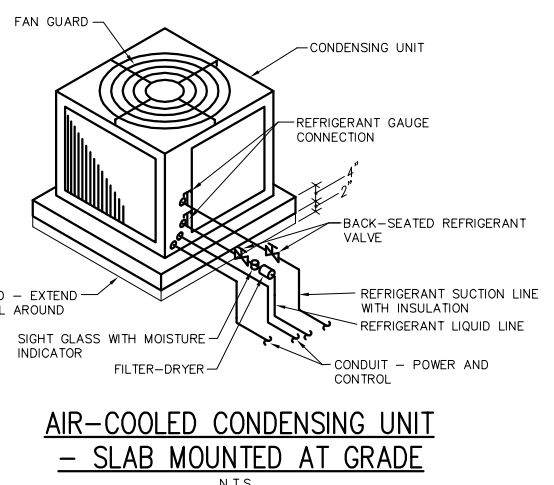
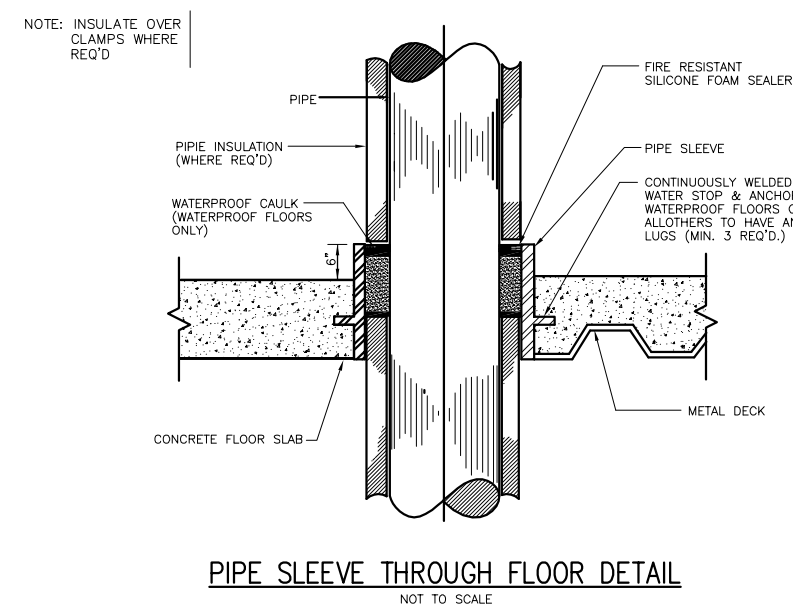
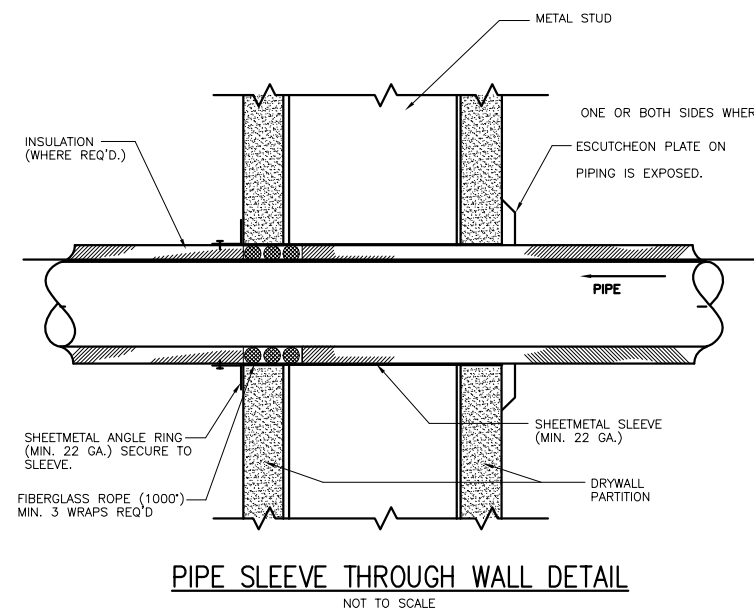
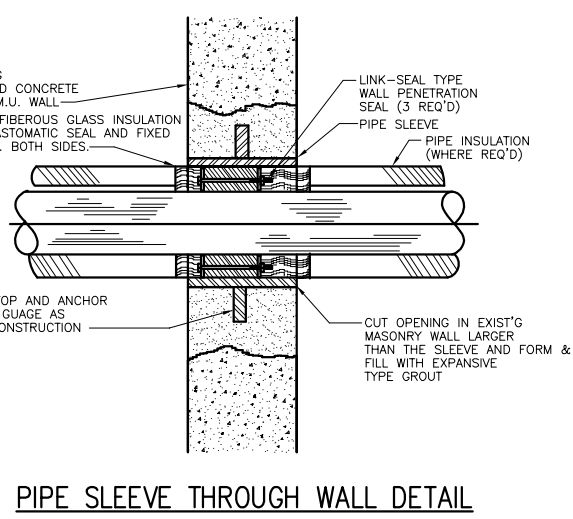
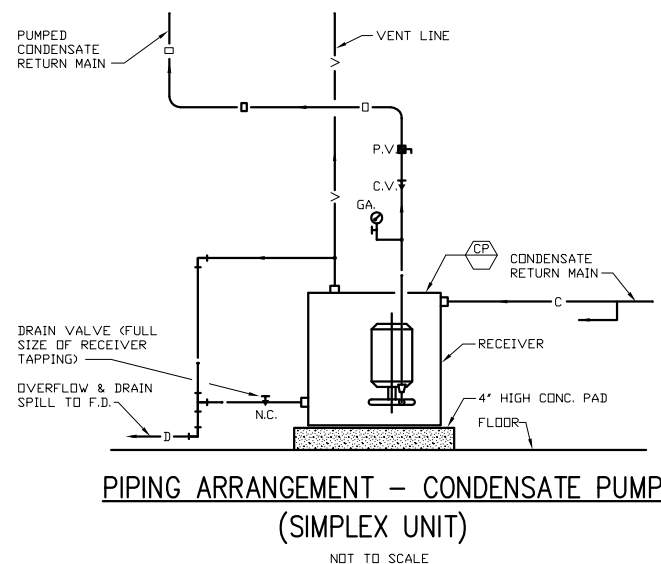
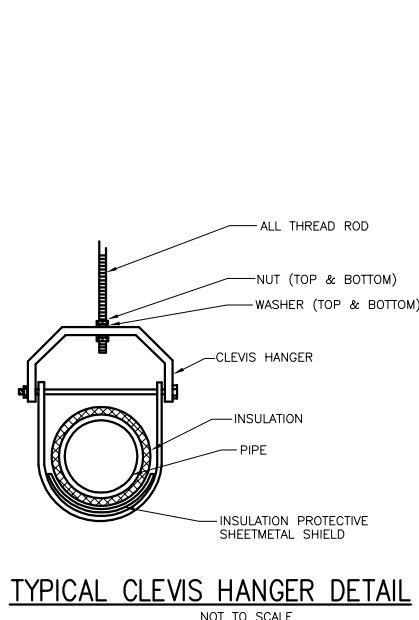
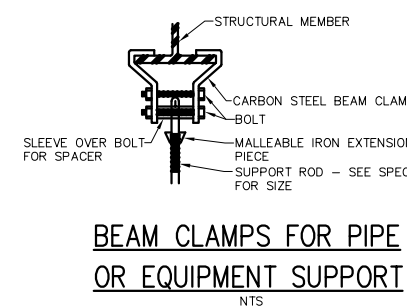
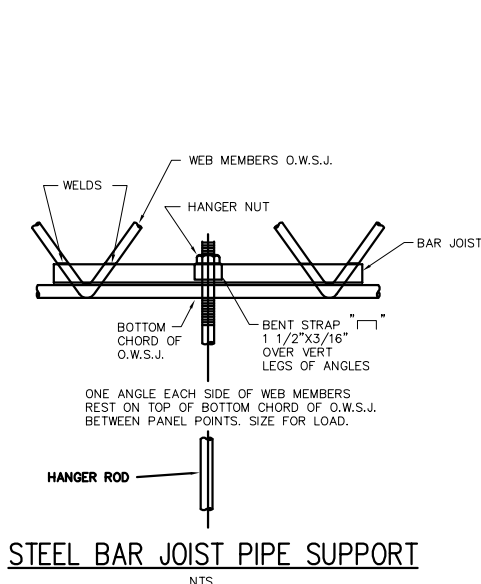
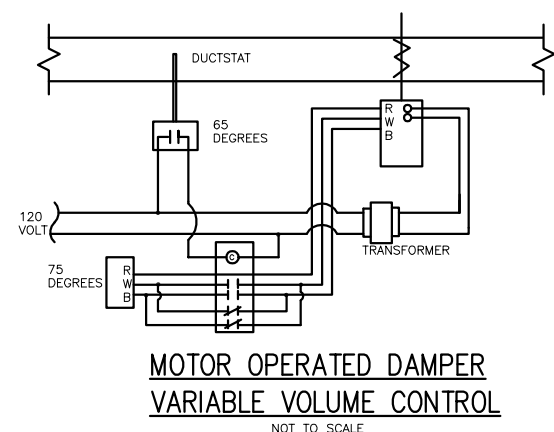
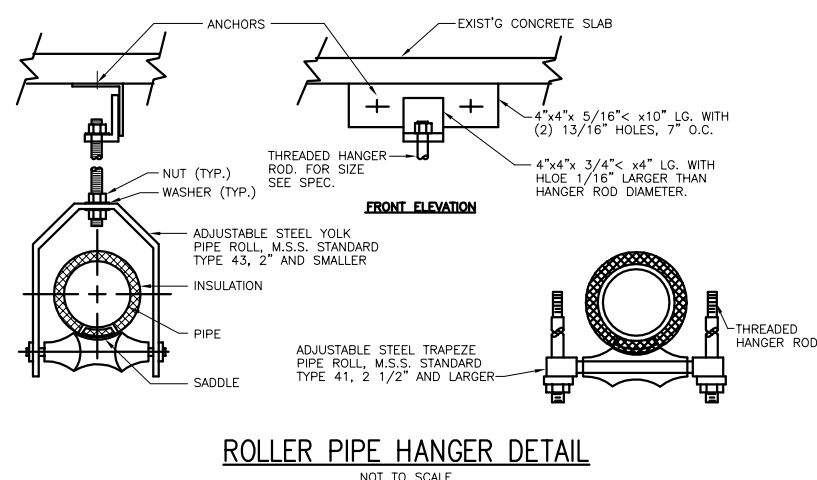
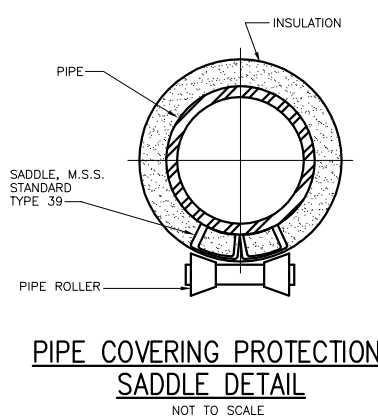
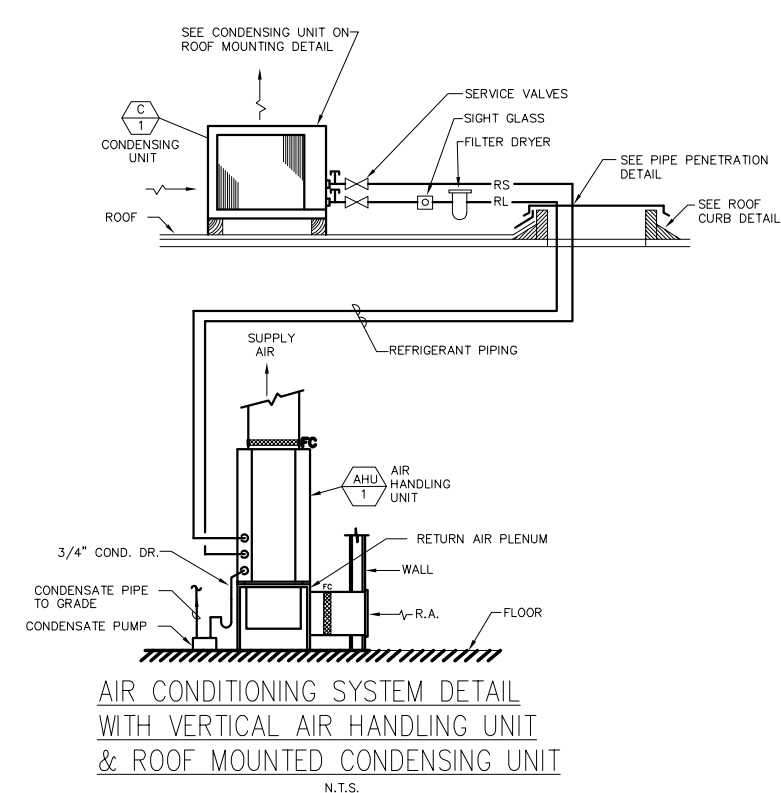
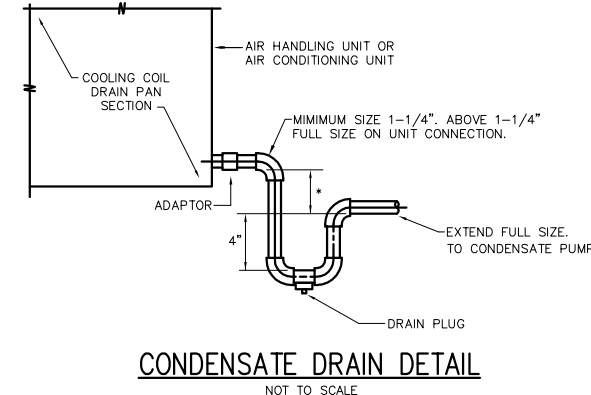
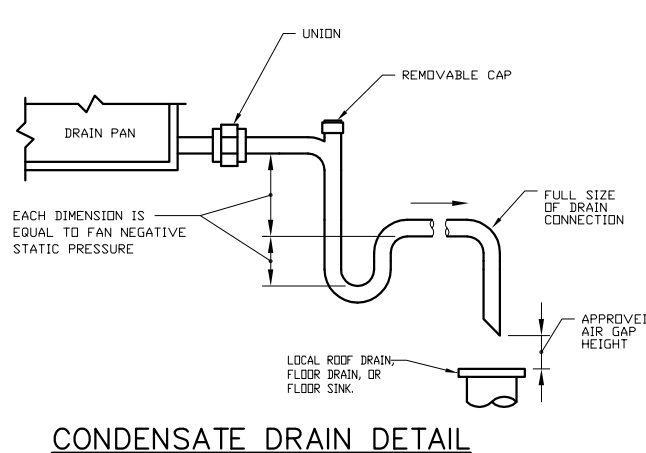
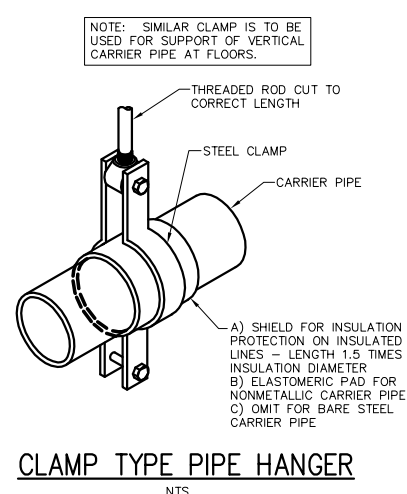
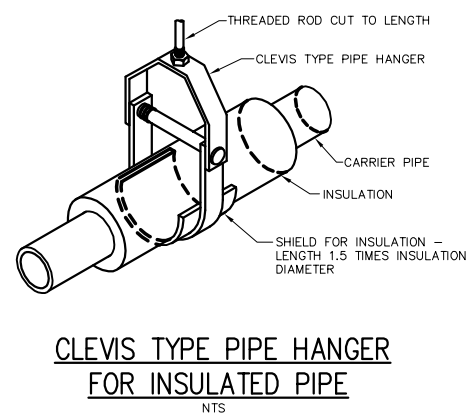
  

ROUND DUCTS				
MAXIMUM SIZE (INCHES)	SPIRAL SEAM DUCT		LONGITUDINAL SEAM DUCT	
	STEEL (MINIMUM THICKNESS, NOMINAL)		STEEL (MINIMUM THICKNESS, NOMINAL)	FITTINGS (MINIMUM THICKNESS, NOMINAL)
THROUGH 12	0.019 (NO. 28 GAGE, GALV.)		0.022 (NO. 28 GAGE, GALV.)	0.022 (NO. 28 GAGE, GALV.)
13 THROUGH 18	0.022 (NO. 26 GAGE, GALV.)		0.025 (NO. 26 GAGE, GALV.)	0.025 (NO. 26 GAGE, GALV.)
19 THROUGH 28	0.028 (NO. 24 GAGE, GALV.)		0.034 (NO. 22 GAGE, GALV.)	0.034 (NO. 22 GAGE, GALV.)
29 THROUGH 36	0.034 (NO. 22 GAGE, GALV.)		0.040 (NO. 20 GAGE, GALV.)	0.040 (NO. 20 GAGE, GALV.)
37 THROUGH 52	0.040 (NO. 20 GAGE, GALV.)		0.052 (NO. 18 GAGE, GALV.)	0.052 (NO. 18 GAGE, GALV.)



REVISION	DATE	DESCRIPTION	BY	APP'D	
		Financial Services Commission Building Little Bay, Montserrat			
		 <b>K. J. CASSELL CONSULTANTS LTD</b> • Architects • Engineers • Project Managers		Box 313 Gerald's Montserrat 664-491-2819 <a href="mailto:Kencassell@gmail.com">Kencassell@gmail.com</a>	
		<b>EDC CONSULTANTS LIMITED</b> MEP LIFE SAFETY & SECURITY CONSULTING ENGINEERS <hr/> 42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I. Telephone: (868)628-8604 Fax: (868)622-7775			
FILE NAME:		TRADE:	HVAC		
		DWG. TITLE:	HVAC DUCTWORK DETAILS		
DESIGNED:	E.D.C	CHECKED:	PROJECT No.: 19-010		
DRAWN:	L.D.L.	SCALE:	DWG. No.: AC-08		REVISION: 0
DATE:	23.09.2019	APP'D:			





Financial Services Commission Building Little Bay, Montserrat				
<div> <div> <div>K</div> <div> <b>K. J. CASSELL CONSULTANTS LTD</b>  Architects  Engineers  Project Managers </div> </div> <div> <div>Box 313 Gerald's Montserrat 664-491-2819 Kencassell@gmail.com</div> </div> </div>				
<div> <div> <div>edc</div> <div>EDC CONSULTANTS LIMITED</div> </div> <div> <div>MEP LIFE SAFETY &amp; SECURITY CONSULTING ENGINEERS</div> <div>42, Luis Street, Woodbrook, P.O.S., Trinidad, W.I.</div> <div>Telephone: (868)628-8604 Fax:(868)622-7775</div> </div> </div>				
FILE NAME:	THW: HVAC			
DWG. TITLE:	HVAC PIPING DETAILS			
DESIGNED: E.D.C.	CHECKED:	PROJECT No:	19-010	
DRAWN: L.D.L.	SCALE: N.T.S.	DWG. No:	AC-09	
DATE: 23.09.2019	APP'D:	REVISION:	0	