ARCHITECTURAL & ENGINEERING DESIGNS FOR THE RESTORATION OF THE BELIZE CITY HOUSE OF CULTURE (FORMALLY GOVERNMENT HOUSE) AND ITS GROUNDS.

BID SET - MAY 2017

VIVIDARCH CO. LTD.

5 A Street | King’s Park | Belize City | Belize | Tel.: +501 223-5526 | email: info@vividarch.com | www.vividarch.com

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1.) CODES AND REGULATIONS

The Contractor shall comply with all applicable Codes as well as the Laws of Belize. Wherever reference is made to the Contract, all Codes and Codes as set by the Government of Belize, in force on the date of execution of this contract, shall be taken into consideration in the performance of the Services.

No contract or agreement shall be made or entered into by the Contractor or the Architect in connection with the Works.

All works, herein referred to as “the Works”, are to be designed, engineered, and constructed subject to the limits, terms, and conditions of applicable Codes, Rules and Regulations, applicable to the jurisdiction of Belize.

1.1) Codes and Regulations

1.2) Standard Specifications

1.3) Legal Documents

1.4) Public Utilities

1.5) Additional Drawings

1.6) Relics and Antiquities

1.7) Agreements

1.8) Permits and Fees

2.) LEGAL AND PUBLIC RELATIONS

The Contractor shall be bound by all applicable laws, rules and regulations governing the performance of the Services. All work shall be performed in accordance with the laws and regulations applicable to the jurisdiction of Belize.


2.1) Delegations

2.2) Appointments

2.3) Rights and Responsibilities

2.4) Liabilities

3.) SAFETY AND ENVIRONMENTAL

3.1) Initial Information

3.2) Purchasers

3.3) Contractors

3.4) Owners

3.5) Site Safety

3.6) Site Security

3.7) Site Health

3.8) Site Environment

3.9) Site Management

4.) SETTING OUT

4.1) Setting Out

4.2) Setting Out by Others

4.3) Setting Out by the Contractor

4.4) Setting Out by the Architect

4.5) Setting Out by the Contractor’s Sub-Contractor

4.6) Setting Out by the Contractor’s Sub-Contractor’s Sub-Contractor

4.7) Setting Out by the Contractor’s Sub-Contractor’s Sub-Contractor’s Sub-Contractor

5.) ADDITIONAL DRAWINGS

5.1) Additional Drawings

5.2) Additional Drawings by Others

5.3) Additional Drawings by the Contractor

5.4) Additional Drawings by the Architect

5.5) Additional Drawings by the Contractor’s Sub-Contractor

5.6) Additional Drawings by the Contractor’s Sub-Contractor’s Sub-Contractor

5.7) Additional Drawings by the Contractor’s Sub-Contractor’s Sub-Contractor’s Sub-Contractor

6.) RELICS AND ANTIQUITIES

6.1) Relics and Antiquities

6.2) Relics and Antiquities by Others

6.3) Relics and Antiquities by the Contractor

6.4) Relics and Antiquities by the Architect

6.5) Relics and Antiquities by the Contractor’s Sub-Contractor

6.6) Relics and Antiquities by the Contractor’s Sub-Contractor’s Sub-Contractor

6.7) Relics and Antiquities by the Contractor’s Sub-Contractor’s Sub-Contractor’s Sub-Contractor

7.) AGREEMENTS

7.1) Agreements

7.2) Agreements by Others

7.3) Agreements by the Contractor

7.4) Agreements by the Architect

7.5) Agreements by the Contractor’s Sub-Contractor

7.6) Agreements by the Contractor’s Sub-Contractor’s Sub-Contractor

7.7) Agreements by the Contractor’s Sub-Contractor’s Sub-Contractor’s Sub-Contractor

8.) PERMITS AND FEES

8.1) Permits and Fees

8.2) Permits and Fees by Others

8.3) Permits and Fees by the Contractor

8.4) Permits and Fees by the Architect

8.5) Permits and Fees by the Contractor’s Sub-Contractor

8.6) Permits and Fees by the Contractor’s Sub-Contractor’s Sub-Contractor

8.7) Permits and Fees by the Contractor’s Sub-Contractor’s Sub-Contractor’s Sub-Contractor

9.) CONTRACT DOCUMENTS

9.1) Contract Documents

9.2) Contract Documents by Others

9.3) Contract Documents by the Contractor

9.4) Contract Documents by the Architect

9.5) Contract Documents by the Contractor’s Sub-Contractor

9.6) Contract Documents by the Contractor’s Sub-Contractor’s Sub-Contractor

9.7) Contract Documents by the Contractor’s Sub-Contractor’s Sub-Contractor’s Sub-Contractor

10.) DESIGN STANDARDS

10.1) Design Standards

10.2) Design Standards by Others

10.3) Design Standards by the Contractor

10.4) Design Standards by the Architect

10.5) Design Standards by the Contractor’s Sub-Contractor

10.6) Design Standards by the Contractor’s Sub-Contractor’s Sub-Contractor

10.7) Design Standards by the Contractor’s Sub-Contractor’s Sub-Contractor’s Sub-Contractor

11.) CODES AND REGULATIONS

11.1) Codes and Regulations

11.2) Standard Specifications

11.3) Legal Documents

11.4) Public Utilities

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11.12) Standard Specifications

11.13) Legal Documents

11.14) Public Utilities

11.15) Additional Drawings

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11.97) Agreements

11.98) Permits and Fees

11.99) Contract Documents

11.100) Design Standards
ENGINEERING SPECIFICATIONS

1.0 GENERAL

1.1. INTERIOR WALLS: ALL DESIGN MATERIALS, ITS ILLUMINATION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SECTIONS OF THIS SPECIFICATION.

2.0 REINFORCED CONCRETE

2.1. CONCRETE SHALL BE USED IN ALL BUILDING CONSTRUCTION. The specification involves the use of ready-mixed concrete on-site per ASTM C 90 (AASHTO M 157). The concrete used shall meet the requirements of this section and the mixing, placing, curing, and testing shall be done in accordance with ASTM C 90, except as modified by the engineer.

2.2. REINFORCEMENT: ALL REINFORCEMENTshall conform to the latest edition of the American Concrete Institute (ACI) 318-00, and any other applicable codes. All steel bars shall conform to the latest edition of AISI A36, and 500 ksi minimum for reinforcing bars.

3.0 STRUCTURAL STEEL

3.1. STRUCTURAL STEEL SHALL BE CORRECTLY FITTED, WELDED TOGETHER, AND JOINED TO THE REQUIRED STRENGTHS. ALL STEEL JOINERY, WASHERS, AND BOLTS SHALL BE SECURED TOGETHER IN AN APPROPRIATE MANNER.

4.0 INTERLOCKING CONCRETE PAVERS

4.1. ALL PAVERS SHALL BE DRAWN BY THE ARCHITECTS TO THE SPECIFICATION OF THE ENGINEER. ALL PAVERS SHALL BE INSTALLED BY A SUBCONTRACTOR HAVING АDEQUATE EXPERIENCE, APPROVED BY THE CLIENT, IN SIMILAR INSTALLATIONS.

5.0 TIMBER

5.1. TIMBER SHALL BE JOINED TOGETHER IN SUCH A MANNER THAT ALLOW THE MAXIMUM IN LAYERS TO ATTAIN THE STRENGTH REQUIRED. TIMBER SHOULD BE DESIGNED ACCORDING TO THE ENGINEER'S SECTIONS OF THESE SPECIFICATIONS.

6.0 HOUSE OF CULTURE

6.1. HOUSE OF CULTURE SHALL BE IN ACCORDANCE WITH THE ENGINEER'S SECTIONS OF THESE SPECIFICATIONS.

7.0 EARTHWORKS

7.1. EARTHWORKS ARE TO BE SPECIFIED ACCORDING TO THE ENGINEER'S SECTIONS OF THESE SPECIFICATIONS.

8.0 MASONRY CONCRETE

8.1. ALL MATERIALS USED IN THE MASONRY CONCRETE SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI).
BASEMENT DEMOLITION PLAN

DEMOLITION NOTES:

B002 REMOVE THE TIMBER-FRAMED PVC LATTICE PANELS SPANNING BETWEEN THE CONCRETE VERANDAH POSTS IN THE OUTER BASEMENT AREA AS INDICATED ON DRAWINGS

B003 DEMOLISH THE FOUNDATION AND BASEMENT WALLS AND FLOOR OF PUBLIC RESTROOM ANNEX AS INDICATED ON DRAWINGS

B004 DEMOLISH THE TIMBER-FRAMED PVC LATTICE PANELS SPANNING BETWEEN THE CONCRETE KITCHEN PORCH POSTS AS INDICATED ON DRAWINGS

B005 DEMOLISH THE TIMBER-FRAMED PVC LATTICE PANELS SPANNING BETWEEN THE OPENINGS IN THE KITCHEN BASEMENT AS INDICATED ON DRAWINGS

B006 DEMOLISH THE EXISTING KITCHEN STEPS AS INDICATED ON DRAWINGS*

*NOTE: CONTRACTOR IS RESPONSIBLE FOR ENSURING THE NECESSARY TEMPORARY BRACING, SHORING AND PROPPING UP OF STRUCTURAL/LOADBEARING COMPONENTS TO PRESERVE THE BUILDING'S STRUCTURAL INTEGRITY AND SAFETY OF WORKERS AND OTHER OCCUPANTS DURING THE DEMOLITION AND RECONSTRUCTION/REPLACEMENT STAGES OF CONSTRUCTION

EXISTING LATTICE PANELS & GATES

BASEMENT ROOM SCHEDULE

<table>
<thead>
<tr>
<th>ROOM NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>INNER BASEMENT</td>
</tr>
<tr>
<td>002</td>
<td>OUTER BASEMENT</td>
</tr>
<tr>
<td>003</td>
<td>RESTROOM ANNEX BASEMENT</td>
</tr>
<tr>
<td>004</td>
<td>KITCHEN PORCH BASEMENT</td>
</tr>
<tr>
<td>005</td>
<td>KITCHEN BASEMENT</td>
</tr>
<tr>
<td>006</td>
<td>KITCHEN STEPS</td>
</tr>
</tbody>
</table>

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Sue Courtenay
P. Arch, (APAB); LEED AP (GBCI)
Principal in Charge

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DRAWN BY:
CHECKED BY:
DATE:
DEMOLITION NOTES:

D61 UNINSTALL ALL EXISTING ELECTRICAL & LIGHTING FIXTURES AS INDICATED ON THE DRAWINGS. CATALOGUE AND STORE IN A SECURE LOCATION UNTIL FURTHER INSTRUCTIONS.

GROUNDFLOOR LIGHTING DEMOLITION PLAN

SCALE 1:8" : 1'-0"

GROUND FLOOR ROOM SCHEDULE

<table>
<thead>
<tr>
<th>ROOM NO.</th>
<th>DESCRIPTION</th>
</tr>
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<tbody>
<tr>
<td>100</td>
<td>SEA FRONT STAIR</td>
</tr>
<tr>
<td>101</td>
<td>WRAP-AROUND VERANDAH</td>
</tr>
<tr>
<td>102</td>
<td>STREET FRONT STAIR</td>
</tr>
<tr>
<td>103</td>
<td>KITCHEN ANNEX</td>
</tr>
<tr>
<td>104</td>
<td>ADMINISTRATION</td>
</tr>
<tr>
<td>105</td>
<td>GREAT ROOM</td>
</tr>
<tr>
<td>106</td>
<td>STORAGE</td>
</tr>
<tr>
<td>107</td>
<td>MAIN STAIRCASE</td>
</tr>
<tr>
<td>108</td>
<td>HALLWAY</td>
</tr>
<tr>
<td>109</td>
<td>DISPLAY ROOM</td>
</tr>
<tr>
<td>110</td>
<td>ELECTRICAL ROOM</td>
</tr>
<tr>
<td>111</td>
<td>KITCHEN PORCH</td>
</tr>
<tr>
<td>112</td>
<td>KITCHEN STEPS</td>
</tr>
<tr>
<td>113</td>
<td>PORTICO</td>
</tr>
<tr>
<td>114</td>
<td>LANDING</td>
</tr>
<tr>
<td>115</td>
<td>ENTRANCE FOYER</td>
</tr>
<tr>
<td>116</td>
<td>RESTROOM ANNEX</td>
</tr>
<tr>
<td>117</td>
<td>GALLERY</td>
</tr>
<tr>
<td>118</td>
<td>PRIVATE OFFICE</td>
</tr>
<tr>
<td>119</td>
<td>UTILITY ENTRANCE</td>
</tr>
</tbody>
</table>

D65 UNINSTALL ALL EXISTING CEILING FANS AS INDICATED ON THE DRAWINGS. CATALOGUE AND STORE IN A SECURE LOCATION UNTIL FURTHER INSTRUCTIONS.

DRAWN BY: CHECKED BY: DATE: JOB. NO.

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GOVERNMENT HOUSE
HOUSE OF CULTURE, REGENT STREET, BELIZE CITY
GROUND FLOOR LIGHTING DEMOLITION PLAN

Scale 1:8" : 1'-0"

PERMIT SET SC 04/04/2017
BID SET SC 05/05/2017

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Scale 1:8" : 1'-0"

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Principal in Charge
FIRST FLOOR LIGHTING DEMOLITION PLAN

DEMO NOTES:
UNINSTALL ALL EXISTING ELECTRICAL & LIGHTING FIXTURES AS INDICATED ON THE DRAWINGS. CATALOGUE AND STORE IN A SECURE LOCATION UNTIL FURTHER INSTRUCTIONS.

FIRST FLOOR ROOM SCHEDULE

<table>
<thead>
<tr>
<th>ROOM NO.</th>
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</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>MAIN STAIRCASE</td>
</tr>
<tr>
<td>201</td>
<td>HALLWAY</td>
</tr>
<tr>
<td>202</td>
<td>WRAP-AROUND VERANDAH</td>
</tr>
<tr>
<td>203</td>
<td>MEETING ROOM 1</td>
</tr>
<tr>
<td>204</td>
<td>MEETING ROOM 3</td>
</tr>
<tr>
<td>205</td>
<td>KITCHENETTE</td>
</tr>
<tr>
<td>206</td>
<td>EXIST STAIR</td>
</tr>
<tr>
<td>207</td>
<td>VESTIBULE 2</td>
</tr>
<tr>
<td>208</td>
<td>RESTROOM</td>
</tr>
<tr>
<td>209</td>
<td>MEETING ROOM 2</td>
</tr>
<tr>
<td>210</td>
<td>KITCHEN PORCH ROOF</td>
</tr>
<tr>
<td>211</td>
<td>VESTIBULE 1</td>
</tr>
<tr>
<td>212</td>
<td>OFFICE</td>
</tr>
<tr>
<td>213</td>
<td>CONFERENCE ROOM</td>
</tr>
<tr>
<td>214</td>
<td>STORAGE</td>
</tr>
<tr>
<td>215</td>
<td>RESTROOM ANNEX ROOF</td>
</tr>
<tr>
<td>216</td>
<td>PORTICO ROOF</td>
</tr>
</tbody>
</table>

UNINSTALL ALL EXISTING CEILING FANS AS INDICATED ON THE DRAWINGS. CATALOGUE AND STORE IN A SECURE LOCATION UNTIL FURTHER INSTRUCTIONS.
FIRST FLOOR CEILING NOTATED PLAN

Scale 1" = 1'-0"

FINISH NOTES

GOVERNMENT HOUSE - GROUND FLOOR CEILING
200, 201, 203, 204 & 209

REFINISH EXISTING HARDBOARD CEILING WITH TIMBER MOLDING AT JOINTS. PRIME AND PAINT TO MATCH EXISTING.

202 & 206

REFINISH EXISTING 1"X4" PINE CEILING BOARDS AND CROWN MOLDING AND REPLACE ANY DAMAGED PANELS AND / OR CROWN MOLDING. PRIME AND PAINT TO MATCH EXISTING. PRIME AND PAINT AS PER TECHNICAL SPECIFICATIONS.

205, 207 & 208

REFINISH EXISTING 1"X4" PINE CEILING BOARDS AND EXISTING CROWN MOLDING. REPLACE DAMAGED PANELS AND CROWN MOLDING WITH 1"X4" T&G PRESSURE TREATED PINE BOARDS TO MATCH EXISTING. PRIME AND PAINT AS PER TECHNICAL SPECIFICATIONS.
GOVERNMENT HOUSE - ROOF

CONSTRUCT NEW VERANDAH WITH 1"X4" PRESSURE TREATED, TONGUE AND GROOVE PINE FLOOR BOARDS TO MATCH THE FLOORING THAT IS REMOVED. DESIGN YOUR FLOOR SURFACES TO DRAIN, DRAINAGE SHOULD BE ACCURATE AND FREE FROM DEFECTS. INTERNAL RECESS APPLICATION PLACING WOOD SLICES SLOPES AWAY FROM THE BUILDING AT A SLOPE OF 1/8" TO 1' - SEE TECHNICAL SPECIFICATIONS FOR YOUR CHOICE TYP FLOORBOARDS (T&G).

CONSTRUCT NEW PRESSURE TREATED, TONGUE AND GROOVE PINE RAILING COMPRISED OF 6"X6" TIMBER POSTS SPACED 9' O.C., WITH A TOP RAIL OF 2"X3", BOTTOM RAIL OF 2"X3", AND UPRIGHTS OF 2"X2" AT EVERY 6" O.C. PRIME WITH ONE COAT OF OIL PRIMER AND APPLY TWO COATS OF LATEX/ACRYLIC PAINT IN COLORS TO BE APPROVED BY ARCHITECT SEE TECHNICAL SPECIFICATIONS FOR COLORS.

REFINISH EXISTING PINE & GROOVE PINE FLOOR BOARDS, PAINT AS PER TECHNICAL SPECIFICATIONS.

CHECK ALL GUTTER TO ENSURE THAT THEY ARE SECURELY FASTENED AND FREE OF DIRT & DEBRIS, REPLACE ANY DAMAGED COMPONENTS.

S.C. L.R.

PERMIT SET SC --/04/2017

BID SET SC --/05/2017

MAY 2017

JOB NO. CHIN-2016

ROOF DIMENSION PLAN

DRAWN BY: CHECKED BY:

DATE:

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ELEVATION C
Scale 1" : 1'-0"

ELEVATION D
Scale 1" : 1'-0"

GRADE
±0'-0"

T.O.G.F. ±6'-4"

T.O.F.F. ±18'-11"

BOTTOM OF F. F. CEILING ±32'-6"

BOTTOM OF G. F. CEILING ±17'-8"

TOP OF ROOF RIDGE ±48'-1"

GRADE
±0'-0"

T.O.G.F. ±6'-4"

T.O.F.F. ±18'-11"

BOTTOM OF F. F. CEILING ±32'-6"

BOTTOM OF G. F. CEILING ±17'-8"

TOP OF ROOF RIDGE ±48'-1"

REVISION
DATE
DESCRIPTION

DRAWN BY:
CHECKED BY:
DATE:

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GOVERNMENT HOUSE
HOUSE OF CULTURE, REGENT STREET, BELIZE CITY
ELEVATION C
S.C.
L.R.
059-2016

ELEVATION D
PERMIT SET
SC --/04/2017

BID SET
BID SET --/05/2017

MAY
6"X6" STEEL COLUMN

FIRST FLOOR FRAMING PLAN

Scale: 1/8" = 1'-0"

9'-8"  
5'-7"  
5'-7"  
10'-2"  
1  

RC SLAB  
@ +ELEV. 0'-2"

A  
53'-7"  
19'-4"  
15'-0"  
19'-4"  
226"  
48'-1"  
13'-10"  
10'-2"  
8'-11"

B  
C  
D

SLAB SECTION

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

COMPACTED GRANULAR FILL

#3@8" EACH WAY MIN.

3" COVER FROM BOT. & SIDES

5'-7"  
8"  
1'-6"

MOISTURE BARRIER (TYP.)

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Tel: + 501 223-5526

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Sue Courtenay
P. Arch, (APAB); LEED AP (GBCI)
Principal in Charge

GOVERNMENT HOUSE
HOUSE OF CULTURE, REGENT STREET, BELIZE CITY, BELIZE

059-2016

PERMIT SET  
--/04/2017
BID SET  
--/05/2017

S1.2  
MAY
### AIR HANDLER SCHEDULE

<table>
<thead>
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<th>ITEM NO.</th>
<th>AHU-5</th>
<th>AHU-6</th>
<th>AHU-7</th>
<th>AHU-8</th>
<th>AHU-9</th>
<th>AHU-10</th>
<th>AHU-11</th>
<th>AHU-12</th>
<th>AHU-13</th>
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<td>57.8</td>
<td>28.6</td>
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<td>40.3</td>
<td>21</td>
<td>41.1</td>
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<td>SUPPLY AIR CFM</td>
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<td>900</td>
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### NOTES:
1. PROVIDE WITH FILTER RACK
2. PROVIDE WITH SEA COAT PROTECTION ON CONDENSER COILS.

### COOLING ONLY DX-SPLIT SYSTEM

<table>
<thead>
<tr>
<th>TAG</th>
<th>MANUFACTURE</th>
<th>MODEL</th>
<th>COOLING TC (BTU/h)</th>
<th>CFM</th>
<th>ESP V/PH/Hz</th>
<th>MCA (EVAP)</th>
<th>FLA (COND)</th>
<th>MCA (COND)</th>
<th>EVAP WEIGHT (LBS)</th>
<th>COND. WEIGHT (LBS)</th>
<th>REFRIGERANT</th>
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<tbody>
<tr>
<td>AHU-CU-10</td>
<td>MITSUBISHI</td>
<td>PUY-A302H46/PKA-A302G46</td>
<td>34</td>
<td>700</td>
<td>0</td>
<td>208/1/60</td>
<td>1/05A</td>
<td>0.75A</td>
<td>40</td>
<td>46</td>
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### NOTES:
1. PROVIDE WITH WIRED CONTROLLER (PAC-YT53CRAU) AND FILTER RACK

### FAN SCHEDULE

<table>
<thead>
<tr>
<th>EQUIPMENT TAG</th>
<th>EF-1</th>
<th>EF-2</th>
</tr>
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<tbody>
<tr>
<td>MANUFACTURE</td>
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<td>GREENHECK</td>
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<tr>
<td>MODEL</td>
<td>SP-B80</td>
<td>CSP-A390</td>
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<tr>
<td>DRIVE</td>
<td>DIRECT</td>
<td>DIRECT</td>
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<tr>
<td>CFM</td>
<td>50</td>
<td>275</td>
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<tr>
<td>EXTERNAL SP (IN. WG)</td>
<td>0.3</td>
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<td>TOTAL SP (IN. WG)</td>
<td>0.3</td>
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<tr>
<td>RPM</td>
<td>861</td>
<td>1164</td>
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<tr>
<td>OPERATING POWER (HP)</td>
<td>15.6 W</td>
<td>85.8 W</td>
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<tr>
<td>V/N/P</td>
<td>115/60/1</td>
<td>115/60/2</td>
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<tr>
<td>FLA (AMPS)</td>
<td>0.6</td>
<td>1.33</td>
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<tr>
<td>WEIGHT (LBS)</td>
<td>10</td>
<td>24</td>
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<tr>
<td>NOTES</td>
<td>1-2</td>
<td>2</td>
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### NOTES:
1. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.
2. PROVIDE WITH SOLID STATE SPEED CONTROL.
MOUNT CONDENSING UNIT ON 12" STEEL RACK AND ROUTE REFRAIGERANT LINE SETS ON FLOOR BELOW CONDENSING UNITS. SECURE UNITS TO RACK AND SECURE RACK TO FLOOR.

EXISTING RELOCATED UNIT. SERVICE UNIT BEFORE REINSTALLATION.

PROVIDE SECONDARY DRAIN PAN BELOW AIR HANDLER. DRAIN PAN SHALL EXTEND 3" AROUND UNIT. PROVIDE FLOAT SWITCH TO SHUT OFF AIR HANDLER WHEN WATER IS DETECTED IN DRAIN PAN.

ROUTE REF. LINE SETS UP WALL AND THROUGH ATTIC SPACE TO THEIR RESPECTIVE AIR HANDLERS. PROVIDE SHEET METAL COVER OVER LINE SETS AND PAINT TO MATCH EXTERIOR WALL COLOR.
EXISTING FIXTURE TO BE REUSED. REMOVE AND REINSTALL IN NEW LOCATION AS SHOWN ON ARCHITECTURAL FLOOR PLAN. PROVIDE AIR ADMITTANCE VALVE ON DRAIN LINE JUST BELOW COUNTER. LOCATED IN THE CRAWL SPACE UNDER BUILDING. ROUTE IN CEILING SPACE OF THE GROUND FLOOR. BELOW GRADE. CONNECT TO EXISTING LINE SERVING KITCHEN SINK. 2" CONDENSATE LINE FROM ATTIC SPACE DOWN TO CRAWL SPACE. 1-1/2" V, 1-1/2" W, 3" LAV, WC, KS, 1-1/2" VTR, 1-1/2" V, 1-1/2" DWN, 3" DWN, 7, 3, 2, 1, 2, 1, 8, 1-1/2" V, 3/4" W, 6, 1-1/2" FORCED MAIN, 1-1/2" DISCHARGE, CONT. ON SITE PLAN. DRIP TO GRADE. 1-HP, 120V/1PH/60HZ, 10.0 MCA.
This is a schematic plan for the basement lighting system. The exact locations of light fixtures are to be determined by the architect of record.

### BASEMENT LIGHTING SCHEMATIC

**Description**

**Symbol**

**QTY**

**Notes**

**Type**

II (K10.3): 5.5" Ø CEILING MOUNTED, RECESSED LED LIGHT FIXTURE, 503 LUMENS.

### Electrical Schedule

<table>
<thead>
<tr>
<th>Panel</th>
<th>Description</th>
<th>Symbol</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNL 01</td>
<td>100A, 208V, 1ɸ FUSED DISCONNECT SAFETY SWITCH, NEMA 3R, TO PNL 03</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PNL 02</td>
<td>60A, 208V, 1ɸ FUSED DISCONNECT SAFETY SWITCH, NEMA 3R, TO PNL 02</td>
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<td></td>
</tr>
<tr>
<td>PNL 03</td>
<td>20A, 208V, 1ɸ FUSED DISCONNECT SAFETY SWITCH, NEMA 3R, TO</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Panel Details**

- **PNL 01**
  - 100A, 208V, 1ɸ FUSED DISCONNECT SAFETY SWITCH, NEMA 3R
  - TO PNL 03
- **PNL 02**
  - 60A, 208V, 1ɸ FUSED DISCONNECT SAFETY SWITCH, NEMA 3R
  - TO PNL 02
- **PNL 03**
  - 20A, 208V, 1ɸ FUSED DISCONNECT SAFETY SWITCH, NEMA 3R
  - TO

**Wiring**

- 18' electrical wiring

**REVISION**

- Date

**DRAWN BY:**

- Sue Courtenay
  - P. Arch, (APAB); LEED AP (GBCI)
  - Principal in Charge

**CHECKED BY:**

**DATE:**

**JOB NO.:**

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GROUND FLOOR LIGHTING SCHEMATIC

Scale 1/8" = 1'-0"

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>DN.</td>
<td>TO BASEMENT LIGHTS</td>
</tr>
<tr>
<td>UP</td>
<td>FROM BASEMENT LIGHTS</td>
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</tbody>
</table>

TYPE II (K10.3): 5.5" Ø CEILING MOUNTED, RECESSED LED LIGHT FIXTURE, 503 LUMENS. 6.7W

GROUND FLOOR LIGHTING SCHEDULE

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SYMBOL</th>
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<tbody>
<tr>
<td>3 x 40 SURFACE MOUNTED FLORESCENT LIGHT FIXTURE</td>
<td>4</td>
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<tr>
<td>1 x EXISTING 2 x 40 FLORESCENT SURFACE MOUNTED LIGHT FIXTURE</td>
<td>1</td>
</tr>
<tr>
<td>2 x EXISTING 4 x 40 FLORESCENT SURFACE MOUNTED LIGHT FIXTURES</td>
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</tr>
<tr>
<td>1 x SINGLE POLE WALL MOUNTED SWITCH</td>
<td>1</td>
</tr>
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<td>1 x EXISTING WALL MOUNTED SWITCH</td>
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<tr>
<td>1 x DOUBLE POLE WALL MOUNTED SWITCH</td>
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</tr>
</tbody>
</table>

NOTES

THIS IS A SCHEMATIC PLAN, EXACT LOCATIONS OF LIGHT FIXTURES ARE TO BE DETERMINED BY ARCHITECT OF RECORD.

REVISED DATE

DRAWN BY: [Signature]
CHECKED BY: [Signature]
DATE: [Date]
JOB. NO.: [Job Number]

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Tel: +501 223-5526

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FIRST FLOOR LIGHTING SCHEMATIC

Scale: 1" = 8'-0"

FIRST FLOOR LIGHTING SCHEDULE

<table>
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<tr>
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<td>TYPE I LED TRACK LIGHT (NON-DIMMABLE)</td>
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<td>TYPE II LED LIGHT FIXTURE, 503 LUMENS.</td>
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<td>EXISTING LIGHT</td>
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ROOM SCHEDULE

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<tr>
<td>200</td>
<td>MAIN STAIRCASE</td>
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<tr>
<td>201</td>
<td>HALLWAY</td>
</tr>
<tr>
<td>202</td>
<td>WRAP-AROUND VERANDAH</td>
</tr>
<tr>
<td>203</td>
<td>EXHIBITION SPACE</td>
</tr>
<tr>
<td>204</td>
<td>RESOURCE CENTER</td>
</tr>
<tr>
<td>205</td>
<td>KITCHENETTE</td>
</tr>
<tr>
<td>206</td>
<td>AUXILIARY STAIR</td>
</tr>
<tr>
<td>207</td>
<td>STAFF AREA</td>
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<tr>
<td>208</td>
<td>RESTROOM</td>
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<tr>
<td>209</td>
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<tr>
<td>210</td>
<td>UTILITY DECK</td>
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NOTES

This is a schematic plan, exact locations of light fixtures are to be determined by architect of record.
GROUND FLOOR OUTLET SCHEDULE

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>WP</td>
<td>120V DUAL OUTLET, WALL MOUNTED. UNIT MOUNTED 18&quot; ABOVE FINISH FLOOR LEVEL.</td>
</tr>
<tr>
<td>WP</td>
<td>120V DUAL OUTLET, WALL MOUNTED. UNIT MOUNTED 18&quot; ABOVE FINISH FLOOR LEVEL.</td>
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GROUND FLOOR ROOM SCHEDULE

<table>
<thead>
<tr>
<th>ROOM NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>100</td>
<td>SEA FRONT STAIR</td>
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<tr>
<td>101</td>
<td>WRAP-AROUND VERANDAH</td>
</tr>
<tr>
<td>102</td>
<td>STREET FRONT STAIR</td>
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<tr>
<td>103</td>
<td>KITCHEN ANNEX</td>
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<tr>
<td>104</td>
<td>HANDICAP LIFT</td>
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<td>105</td>
<td>MUSEUM GIFT SHOP</td>
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<tr>
<td>106</td>
<td>EXHIBITION/WORKSHOP SPACE</td>
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<tr>
<td>107</td>
<td>STORAGE</td>
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<td>108</td>
<td>MAIN STAIRCASE</td>
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<tr>
<td>109</td>
<td>HALLWAY</td>
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<tr>
<td>110</td>
<td>EXHIBITION/WORKSHOP SPACE</td>
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<td>111</td>
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<td>OFFICE PORCH</td>
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<tr>
<td>113</td>
<td>OFFICE STEPS</td>
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<td>114</td>
<td>PORTICO</td>
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<td>115</td>
<td>LANDING</td>
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<td>116</td>
<td>ENTRY VESTIBULE</td>
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<td>120</td>
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<tr>
<td>121</td>
<td>RAISED VERANDAH</td>
</tr>
</tbody>
</table>

NOTES

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Sue Courtenay
P. Arch, (APAB); LEED AP (GBCI)
Principal in Charge

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Corozal, Belize
Phone 501 624-8664; 668-2058
cpwaight23@gmail.com
Wireman License # Bz. 1000
Wireman category - Engineer
www.waightandassociates.com

Electrical, Safety, & Construction

GOVERNMENT HOUSE
HOUSE OF CULTURE, REGENT STREET, BELIZE CITY
GROUND FLOOR OUTLET SCHEDULE

DRAWN BY: CHECKED BY: DATE: JOB NO.

BID SET

PERMIT SET

E1.4

Scale: 1/" = 1'-0"
FIRST FLOOR RECEPTACLE SCHEMATIC

Scale 1" = 1'-0"

EXISTING WALL MOUNTED TELEPHONE JACK, MOUNTED 12 INCHES ABOVE FINISH FLOOR.

FIRST FLOOR OUTLET SCHEDULE

<table>
<thead>
<tr>
<th>ROOM NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>WP</td>
<td>120V DUPLEX FLUSH MOUNTED WALL OUTLET. UNIT MOUNTED 18&quot; ABOVE FINISH FLOOR LEVEL.</td>
</tr>
<tr>
<td>WP</td>
<td>EXISTING 120V DUPLEX FLUSH MOUNTED WEATHER PROOF WALL OUTLET. UNIT MOUNTED 18&quot; ABOVE FINISH FLOOR LEVEL.</td>
</tr>
<tr>
<td>WP</td>
<td>EXISTING WALL MOUNTED TELEPHONE JACK, MOUNTED 12 INCHES ABOVE FINISH FLOOR.</td>
</tr>
</tbody>
</table>

Carlon E9762BR Rectangular Floor Box Cover, 2-Gang, Type Universal, Flip-Lid, Brass. Includes: Carpet Flange.

Notes: This is a schematic plan, exact locations of light fixtures are to be determined by architect of record.

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### Distribution Panel - PNL 01 - GOVERNMENT HOUSE

<table>
<thead>
<tr>
<th>Circuit #</th>
<th>Item</th>
<th>Circuit Breaker Trip Amps</th>
<th>Watts</th>
<th>Amps</th>
<th>Cable Size</th>
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<tr>
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<td>R3</td>
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<td>R6</td>
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<td>10.76</td>
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</table>

#### NON-CONTINUOUS LOAD

- **Receptacles Loads:** @ 180 VA 10.44
- **Stove:** Sub-Total 10.44
- **Demand Factor for Receptacles:** 10.00
- **(Hire 10 kVA at 100%)**
- **Remainder @ 50%:** 0.22
- **Total Non-Continuous Load:** 10.22

#### CONTINUOUS LOAD

- **General Lighting:** @ 3 VA per sq ft. 4.82
- **Yard Night Lights:** 2.24
- **Elevator:**
- **Total Continuous Load:** 7.06
- **Total Non-Continuous Load:** 10.22
- **Total:** 17.28

**Phase Load**
- **Watts:**
  - A: 8364.10
  - B: 8297.60
- **Total Connected Load:** 16533.70
- **16.53 kVA:** 79.49 A
- **Total:** 17.28 kVA

**Unbalance:** 0.37% 61.50
Distribution Panel - PNL 02

Project: GOVERNMENT HOUSE

Mounting: FLUSH Mainbreaker: 60 A Bus Rating: 100 A

Panel Loc.: Electrical Room Phase: 6 AWG THHN Stranded Copper - 1 loop per phase

Floor Left: GROUND FLOOR Panel: 6 AWG THHN Stranded Copper - high per phase

Style/Type: Ground Wire: 6 AWG THHN Stranded Copper - 2 3/8" per phase

Model No.: Square-D

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Distribution Panel - PNL3

Project: GOVERNMENT HOUSE

Mounting: FLUSH Mainbreaker: 200 A Bus Rating: 250 A

Panel Loc.: Electrical Room Phase: 1/2 AWG THHN Stranded Copper - 1 loop per phase

Floor Left: GROUND FLOOR Neutral: 1/2 AWG THHN Stranded Copper - 1 loop per phase

Style/Type: Square-D Ground Wire: 2 AWG THHN Stranded Copper

Model No.: Style/Type

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<th>Amps</th>
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<th>N</th>
<th>G</th>
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</table>

Phase Load

A = 29545.00
B = 29545.00
Total = 59090.00

KVARA: 59.28
KVAR: 59.28
KVA: 59.28
KWH: 59.28
KWHR: 59.28

**Distribution System**

**Single Line GH Building**

**Panel 01**
- 100A Main Breaker, 120/208V, 1Φ, 36ct Sq. D, 10kAIC
- NEMA 3R, Distribution Panel

**Panel 02**
- 200A Main Breaker, 120/208V, 1Φ, 32ct Sq. D, 65kAIC
- NEMA 3R, Distribution Panel

**Panel 03**
- 60A Main Breaker, 120/208V, 1Φ, 24ct Sq. D, 10kAIC
- NEMA 3R, Distribution Panel

FROM MAIN TRANSFORMER, SS02
- 75kVA 3Φ, DRY TRANSFORMER
- 480V - 208/120V

4 LIGHTS OF 6 CONDUCTOR, (3 LIVE & 1 NEUTRAL) AND #8 GND

3 LIGHTS OF 1.0 CONDUCTOR, (2 LIVE & 1 NUETRAL) AND #4 GND

60A, 208V, 1Φ FUSED DISCONNECT SAFETY SWITCH, NEMA 3R, TO PNL 02

50A, 208V, 1Φ FUSED DISCONNECT SAFETY SWITCH, NEMA 3R, TO PNL 03

200A, 208V, 1Φ FUSED DISCONNECT SAFETY SWITCH, NEMA 3R, TO PNL 03

3 LIGHTS OF 2 AWG CONDUCTOR, (2 LIVE & 1 NEUTRAL) AND #8 GND

100A, 280V, 1Φ FUSED DISCONNECT SAFETY SWITCH, NEMA 3R, TO PNL 01

12" Cu Erico Grounding Bus Bar - all equipment panels and breaker shall be grounded to it

**Resistance should be a maximum of 5Ω. All ground must be tied into the one grid.**
GROUND FLOOR SECURITY SYSTEM

SECURITY + ROOM SCHEDULE

ROOM NO.  DESCRIPTION
010  SEA FRONT STAIR
011  WRAP-AROUND VERANDAH
012  STREET FRONT STAIR
013  KITCHEN ANNEX
014  HANDICAP LIFT
015  MUSEUM GIFT SHOP
016  EXHIBITION/WORKSHOP SPACE
017  STORAGE
018  MAIN STAIRCASE
019  HALLWAY
020  EXHIBITION/WORKSHOP SPACE
021  ELECTRICAL ROOM
022  OFFICE PORCH
023  OFFICE STEPS
024  PORTICO
025  LANDING
026  ENTRY VESTIBULE
027  RAISED VERANDAH

NOTES
THIS IS A SCHEMATIC PLAN, EXACT LOCATIONS OF MOTION LIGHTS
FIXTURES AND CAMERAS ARE TO BE DETERMINED BY ARCHITECT OF
RECORD. CONDUCTORS FOR THE SYSTEM ARE TO BE INSTALLED IN
CONDUITS AND CONCEALED.

DRAWN BY:  CHECKED BY:  DATE:

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Sue Courtenay  P. Arch, (APAB); LEED AP (GBCI)
Principal in Charge

GOVERNMENT HOUSE
HOUSE OF CULTURE, REGENT STREET, BELIZE CITY

DRAFTED BY:

Waight & Associates
Corozal, Belize
Phone 501 624-8664; 668-2058
cpwaight23@gmail.com
Wireman License # Bz. 1000
Wireman category - Engineer
www.waightandassociates.com

Electrical, Safety, & Construction

BID SET

BID SET

BID SET
FIRST FLOOR ROOM SCHEDULE

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MOTION DETECTOR FOR ALARM SYSTEM.
CLOSED CIRCUIT CAMERA

FIRST FLOOR SECURITY SCHEDULE

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THIS IS A SCHEMATIC PLAN, EXACT LOCATIONS OF MOTION LIGHT FIXTURES AND CAMERAS ARE TO BE DETERMINED BY ARCHITECT OF RECORD. CONDUCTORS FOR THE SYSTEM ARE TO BE INSTALLED IN CONDUITS AND CONCEALED.

SCALE 1/8" : 1'-0"
AIR HANDLER SCHEDULE

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NOTES:
1. PROVIDE WITH SIMPLIFIED CONTROLLER (PAC-YTS3CRUA) AND FILTER RACK.
2. PROVIDE WITH SOLID STATE SPEED CONTROL.
3. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.
4. PROVIDE WITH FILTER RACK.
5. PROVIDE WITH SE A COAT PROTECTION ON CONDENSER COILS.

COOLING ONLY DX-SPLIT SYSTEM

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<th>TAG</th>
<th>MANUFACTURE</th>
<th>MODEL</th>
<th>COOLING TC (BTU/H)</th>
<th>CPM</th>
<th>ESP</th>
<th>V/P/H/Hz</th>
<th>MCA (EVAP)</th>
<th>FLA (COND)</th>
<th>MCA (COND)</th>
<th>EVAP WEIGHT (LBS)</th>
<th>COND. WEIGHT (LBS)</th>
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NOTES:
1. PROVIDE WITH WIRED CONTROLLER (PAC-YTS3CRUA) AND FILTER RACK.
2. PROVIDE WITH SOLID STATE SPEED CONTROL.

FAN SCHEDULE

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NOTES:
1. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.
2. PROVIDE WITH SOLID STATE SPEED CONTROL.
## Distribution Panel - PNL1 - CARRIAGE HOUSE

### Project
- **Carriage House**
- **Mounting:** FLUSH
- **Panel Loc.:** Electrical Room
- **Floor Lvl.:** Ground Floor
- **Style/Type:** Square-D
- **Model No.:**

### Main Breaker
- **200**
- **Bus Rating:** 300A

### Main Conductors
- **4X0 AWG (THHN - THWN) Stranded Copper**
- **N/0:** 4X0 AWG (THHN - THWN) Stranded Copper
- **Cond: 32**
- **Cord: 2" Sch 80**

### Circuit Breaker Trip Amps

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### NON-CONTINUOUS LOAD
- **Receptacles Loads @ 180 VA:** 8.64
- **Kitchen:** 9.0
- **Sub-Total:** 17.64
- **Demand Factor for Receptacles:** 10.00
- **First 10 kVA at 100%:**
- **Remainder @ 50%:** 3.82
- **Total Non-Continuous Load:** 13.82

### CONTINUOUS LOAD
- **General Lighting @ 3 VA per sq. ft.:** 1.84
- **AC:** 18.72
- **AC Units:** 3.5
- **Total Continuous Load:** 24.16
- **Total Non-Continuous Load:** 13.82
- **Total:** 37.98

### Phase Load
- **A:** 26700.00
- **B:** 26595.00

### Total Connected Load
- **41295.00 41.30 kVA 199 A**
- **Total:** 37.98 kVA 183 A

### Unbalance
- **-0.25% - 105.00**
GROUND FLOOR ROOM SCHEDULE

- ROOM NO.
  - 113.2
  - 113.3
  - 100
  - 105
  - 102
  - 104
  - 109
  - 103
  - 106
  - 107
  - 113.1
  - 110
  - 115
  - 112
  - 114
  - 113
  - 116

- DESCRIPTION
  - HANDICAP LIFT
  - TICKETING BOOTH
  - VERANDAH
  - WORKSHOP SPACE 1
  - CORRIDOR TO RESTROOMS
  - MULTI-PURPOSE ROOM
  - MALE STAFF RESTROOM
  - MALE STAFF RESTROOM
  - KITCHENETTE
  - OPEN OFFICE
  - STAGE SOUND & LIGHT CONTROL
  - ELECTRICAL ROOM
  - EXECUTIVE OFFICE 1
  - EXECUTIVE OFFICE 2
GROUND FLOOR BEAM DETAILS
1. PROVIDE WITH FILTER RACK.

NOTES:

1) PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.
2) PROVIDE WITH SOLID STATE SPEED CONTROL.

---

**AIR HANDLER SCHEDULE**

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**COOLING ONLY DX-SPLIT SYSTEM**

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<th>V/PH/Hz</th>
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<th>FLA (COND)</th>
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**FAN SCHEDULE**

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NOTES:

1) PROVIDE WITH WIRED CONTROLLER (PAC-YTS3CRAU) AND FILTER RACK.
The image contains a detailed architectural drawing, specifically a 'FIRST FLOOR DRAINAGE PLAN'. The drawing includes various annotations and symbols typical of such plans, such as 1-1/4"W and 1-1/4"V for ramps, and 2"W and 2"V for specific areas or features within the plan. The drawing is signed by Sue Courtenay, P. Arch, (APAB); LEED AP (GBCI), and appears to be part of a larger set of documents related to the House of Culture Project in Regent Street, Belize City, Belize, dated May 2016. The plan is drawn by DG Engineering Group and checked by DTG, with construction administration provided by VIVID Arch, Co. Ltd. The document is marked as 'BID SET' and 'P3.1'.
OPERABLE PARTITIONS

BP-1 5HP 208V/3PH/60HZ

FP-1 1/2HP 115V/1PH/60HZ

1,000 GAL ROTOPLAST TANK

3" DRAIN BELOW GRADE
DRAIN TO CAR PARK

1-1/2" WITH FLOAT VALVE

250 GAL ROTOPLAST TANK

3"V

ENGINEERING CONSULTING AND DESIGN
P.O.BOX 2464
BELIZE CITY, BELIZE
501-636-4130
DYLANG@DGENGINEERING.BZ
PROJ. NO. 2015020
DG ENGINEERING GROUP

DRAWN BY:
CHECKED BY:
DATE:
JOB. NO.

Sue Courtenay
P. Arch, (APAB); LEED AP (GBCI)
Principal in Charge

CONSTRUCTION ADMINISTRATION CO. LTD.

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Distribution Panel - PNL 01 - Multi-Purpose Conference Room

Distribution Panel - PNL 02 - Open Office

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### Distribution Panel - PNL3

**Project:** House of Culture  
**Mounting:** FLUSH  
**Panel Loc.:** Electrical Room (203)  
**Floor Lvl:** First Floor  
**Style/Type:** Square-D  
**Model No.:**  

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<th>Wats</th>
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<td>25 mm</td>
<td>1&quot;</td>
<td></td>
<td></td>
<td>2</td>
<td>2 x 40A</td>
</tr>
</tbody>
</table>

**Distribution Panel - Pump Panel**

**Project:** House of Culture  
**Mounting:** FLUSH  
**Panel Loc.:** Transformer Room Under Floor  
**Style/Type:** Square-D  
**Model No.:**  

<table>
<thead>
<tr>
<th>Circuit #</th>
<th>Items</th>
<th>Circuit Breaker</th>
<th>Wats</th>
<th>Armps</th>
<th>Cable</th>
<th>Cond Size</th>
<th>A</th>
<th>B</th>
<th>G</th>
<th>Phases</th>
<th>Circuit Breaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BP 1</td>
<td>3 x 15A</td>
<td>1243.33</td>
<td>10.35</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>25 mm</td>
<td>1&quot;</td>
<td>2400</td>
<td>2400</td>
</tr>
<tr>
<td>5</td>
<td>BP 2</td>
<td>3 x 15A</td>
<td>1243.33</td>
<td>10.35</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>25 mm</td>
<td>1&quot;</td>
<td>2400</td>
<td>2400</td>
</tr>
<tr>
<td>7</td>
<td>LI</td>
<td>20A</td>
<td>1243.33</td>
<td>10.35</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>25 mm</td>
<td>1&quot;</td>
<td>2400</td>
<td>2400</td>
</tr>
<tr>
<td>9</td>
<td>FP 1</td>
<td>15A</td>
<td>1243.33</td>
<td>10.35</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>25 mm</td>
<td>1&quot;</td>
<td>2400</td>
<td>2400</td>
</tr>
<tr>
<td>11</td>
<td>Elevator Supply</td>
<td>2 x 20A</td>
<td>1243.33</td>
<td>10.35</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>25 mm</td>
<td>1&quot;</td>
<td>2400</td>
<td>2400</td>
</tr>
</tbody>
</table>

**Non-Continuous Load**

- **Receivers Loads:** 180 VA  
- **Elevator**  
- **Stage Lights**  
- **Sub-Total**  
- **Demand Factor for Receivers:** 1.00  
- **Remainder @ 50%**  

**Continuous Load**

- **General Lighting @ 5 VA per sq ft.**  
- **Motors**  
- **Total Continuous Load**  
- **Total Non-Continuous Load**  

**Total Calculated Load:** 24.99 kVA  
**Total:** 69.17 A
Distribution System
Single Line HOC Building

FROM MAIN TRANSFORMER, SS01

150kVA 3Φ, DRY TRANSFORMER
480V - 208/120V

4 LIGHTS OF 3/0 CONDUCTOR,
(3 LIVE & 1 NEUTRAL) AND
6/0 GND

3 LIGHTS OF 1/0 CONDUCTOR,
(2 LIVE & 1 NEUTRAL) AND
6/0 GND

250A, 208V, 1Φ FUSED
DISCONNECT SAFETY
SWITCH, NEMA 3R, TO PNL 02

250A Main Breaker,
120/208V, 1Φ, 36ct Sq. D, 65kAIC
NEMA 3R, Distribution Panel

125A Main Breaker,
125A, 208V, 1Φ FUSED
DISCONNECT SAFETY
SWITCH, NEMA 3R, TO PNL 02

125A Main Breaker,
120/208V, 1Φ, 36ct Sq. D, 65kAIC
NEMA 3R, Distribution Panel

200A Main Breaker,
200A, 208V, 1Φ FUSED
DISCONNECT SAFETY
SWITCH, NEMA 3R, TO PNL 01

200A Main Breaker,
120/208V, 1Φ, 36ct Sq. D, 65kAIC
NEMA 3R, Distribution Panel

200A Main Breaker,
120/208V, 1Φ, 36ct Sq. D, 65kAIC
NEMA 3R, Distribution Panel

100A Main Breaker

To PUMP 1

To PUMP 2

Panel 01

Pump Panel

Panel 02

Panel 03

12" Cu Erica Grounding Bus Bar
- all equipment panels and
breaker shall be grounded to it

THIS IS THE SAME GROUNDING
SYSTEM AS THAT OF THE SITE
SINGLE LINE. ONLY ONE SYSTEM
SHALL BE INSTALLED.
RESISTANCE SHOULD BE A
MAXIMUM OF 5Ω. ALL GROUND
MUST BE TIED INTO THE ONE
GRID.
1. **Panelboard Schedule and Detail Notes:**

   1. Panelboards shall be UL listed and installed in accordance with this listing and fully supported by means designed for that listed installation. All clearances required by code shall be maintained as a minimum.
   2. Each panelboard shall be furnished complete with the properly sized can, internal hardware, devices, components, supporting structures, etc., for a complete installation to provide the designed performance under the ambient conditions encountered. All devices, components, fittings, supports, etc., shall be coordinated to provide a complete UL listed installation. All devices installed shall have an interrupting rating greater than or equal to the specified SCCR.
   3. Each panelboard shall be furnished with a ground bar bonded to the panel enclosure. This ground bus shall be utilized to bond all grounding provisions in order to establish equal potential to all grounded components of the power system network.
   4. Panelboard cans shall be rigid and contain knock-out provisions to facilitate the termination of the number and size of conduit systems required.
   5. The termination point of the feeder serving each assembly shall be at the nearest point of feeder entry to minimize conductor fill in the can. Coordinate top/bottom feed panelboard provisions with each feeder installation.
   6. Provide the properly sized conductor termination points or lugs (multiple lugs when parallel feeders are used) for the number and size circuits indicated.
   7. Conductors, splices and terminations shall be accessible. Only conductors rated and sized for the temperature of the termination shall be used.
   8. Panelboards shall not be installed in contact with combustible materials, in areas where water use is prominent. Adequate space for air circulation and code compliance shall be provided as a minimum. Furnish spacers, washers support devices, etc., as required to maintain proper clearances.
   9. All flush mounted panelboards shall be provided with four (4) 27mm (1") empty spare conduits to above the nearest accessible ceiling.

   **Panelboard & Panelboard Installation to Be in Accordance with NFPA 70, CURRENT NEC. All panelboards shall be UL listed and installed in accordance with this listing and fully supported by means designed for that listed installation. All clearances required by code shall be maintained as a minimum.**

   **Working Clearances Are to Be Maintained from Floor to Structural Clg.**

   **Dimensions Shown Are Minimum.**

   **Notes:**

   1. Dimensions shown are minimum.
   2. Working clearances are to be maintained from floor to structural clg.
   3. See NFPA 70, CURRENT NEC.
Finished Ground Level

Selected, Approved, Granular Backfill

Bottom Of Trench To Be Levelled and Properly Compacted

2" Thick Reinforced Concrete Cover

Select Backfill, Placed And Compacted In Layers Not Exceeding 8" Thick

Flex Conduit should be used in back of receptacle pan, center knock out, to assist in ensuring pan is place square and level in wall

Select Backfill, Placed And Compacted In Layers Not Exceeding 8" Thick

Finished Ground Level

2" Thick Reinforced Concrete Cover

Select Backfill, Placed And Compacted In Layers Not Exceeding 8" Thick

Bottom Of Trench To Be Levelled and Properly Compacted

EARTH LINED SUPPLY TRENCH DETAIL

2" Ø PVC Conduit W/ 3 No.2 Conductors Each Conduit

Selected, Approved, Granular Backfill

2" Thick Reinforced Concrete Cover placed throughout the entire trench 6" apart

Maximum distance between receptacles shall not exceed 12'

RECEPTACLES

Floor Slab

Blending Screw

Neutral wires

Line wires

Bonding Screw

Ground wire bonded to pan

RECEPTACLES
Max Number of Conductors (THHN) per Conduit (PVC or IMC)

<table>
<thead>
<tr>
<th>Wire size</th>
<th>20 mm</th>
<th>25 mm</th>
<th>1 1/2 in</th>
<th>2 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>11</td>
<td>21</td>
<td>60</td>
<td>82</td>
</tr>
<tr>
<td>12</td>
<td>8</td>
<td>15</td>
<td>43</td>
<td>59</td>
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<tr>
<td>10</td>
<td>5</td>
<td>9</td>
<td>27</td>
<td>37</td>
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<tr>
<td>8</td>
<td>3</td>
<td>5</td>
<td>16</td>
<td>21</td>
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<tr>
<td>6</td>
<td>1</td>
<td>4</td>
<td>11</td>
<td>15</td>
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<tr>
<td>4</td>
<td>1</td>
<td>2</td>
<td>7</td>
<td>9</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>1</td>
<td>5</td>
<td>7</td>
</tr>
</tbody>
</table>

A Maximum of 10 current carrying conductors per conduit

25 mm conduit #12 cables = 15max
20 mm conduit #12 cables = 10max
25 mm conduit #10 cables = 8max

Conductor Schedule & Properties Designations

<table>
<thead>
<tr>
<th>SIZE AWG OR KCMIL</th>
<th>AREA cm²</th>
<th>CIRCULAR MILES</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>1.28</td>
<td>960</td>
</tr>
<tr>
<td>16</td>
<td>1.31</td>
<td>790</td>
</tr>
<tr>
<td>14</td>
<td>1.68</td>
<td>490</td>
</tr>
<tr>
<td>12</td>
<td>2.31</td>
<td>1650</td>
</tr>
<tr>
<td>10</td>
<td>2.61</td>
<td>10,300</td>
</tr>
<tr>
<td>8</td>
<td>3.36</td>
<td>25,800</td>
</tr>
<tr>
<td>6</td>
<td>4.71</td>
<td>49,300</td>
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<tr>
<td>4</td>
<td>6.81</td>
<td>67,400</td>
</tr>
<tr>
<td>2</td>
<td>10.15</td>
<td>107,000</td>
</tr>
</tbody>
</table>

NOTES:
- UNLESS NOTED OTHERWISE ALL LOW VOLTAGE CONDUCTORS SHALL BE RATED AT 600 VOLTS AND THE INSTALLATION BASED UPON AN AMBIENT TEMPERATURE OF 30°C
- * METAL - COPPER
- * INSULATION - TYPE 'THHN'
- * TEMPERATURE RATING - 75°C
- * LOCATION - WET OR DRY
- 2. CONDUCTORS SHALL BE IDENTIFIED BY SURFACE MARKINGS FROM THE MANUFACTURER:
  - * MANUFACTURER'S IDENTIFICATION
  - * CONDUCTOR SIZE AND METAL
  - * VOLTAGE RATING
  - * UL LISTING
- * TYPE DESIGNATION & OPTIONAL RATINGS

Mounting Height Schedule

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SI</th>
<th>ENG</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECEPTACLE-GENERAL</td>
<td>45.7cm</td>
<td>1'-6&quot;</td>
<td></td>
</tr>
<tr>
<td>RECEPTACLE-TOILET AREAS</td>
<td>122cm</td>
<td>4'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>RECEPTACLE-ABOVE COUNTERS</td>
<td>10.16cm</td>
<td>0'-4&quot;</td>
<td>ABOVE SPLASH BOARD OR AS DIRECTED</td>
</tr>
<tr>
<td>RECEPTACLE-EXTERIOR</td>
<td>45.7cm</td>
<td>1'-6&quot;</td>
<td>MINIMUM ABOVE FINISHED GRADE</td>
</tr>
<tr>
<td>RECEPTACLE-APPLIANCE OR EQUIP</td>
<td>45.7cm</td>
<td>1'-6&quot;</td>
<td>AS PER MANUFACTURER REQUIREMENTS</td>
</tr>
<tr>
<td>RECEPTACLE-SPECIAL PURPOSE</td>
<td></td>
<td></td>
<td>AS REQUIRED OR AS DIRECTED</td>
</tr>
<tr>
<td>WALL SWITCH-GENERAL</td>
<td>122cm</td>
<td>4'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>WALL SWITCH-MOTOR STARTER</td>
<td>122cm</td>
<td>4'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>WALL BRACKET-GENERAL</td>
<td>2.06m</td>
<td>6'-8&quot;</td>
<td>OR ABOVE MIRRORS</td>
</tr>
<tr>
<td>WALL BRACKET-STAIRWELLS</td>
<td>2.39m</td>
<td>7'-10&quot;</td>
<td>ABOVE FLOOR OR LANDINGS</td>
</tr>
<tr>
<td>WALL BRACKET-EXIT LIGHT</td>
<td>2.31m</td>
<td>7'-6&quot;</td>
<td>OR ABOVE DOOR</td>
</tr>
</tbody>
</table>

NOTE:
- ALL DIMENSIONS ARE FROM FLOOR TO CENTERLINE OF DEVICE.

Typical Detail of Outlets & Switches

Switch: E12 1/2/3/4
Outlet: E12 1/2/3/4
Desk: E12 1/2/3/4
Telephone: E12 1/2/3/4

- NOTE: ALL SWITCHES AND OUTLETS TO BE AT LEAST 4" AWAY FROM DOOR OR WINDOWS OPENING

Conduit Fill and Installation Heights

- 600,000
- 500,000
- 400,000
- 350,000
- 300,000
- 250,000
- 211,600
- 133,100
- 105,600
- 83,690
- 66,360
- 52,620
- 41,740
- 26,240
- 16,510
- 10,380
- 6,530
- 4,110
GROUNDING AND BONDING INSTALLATION NOTES

1. All grounding and bonding shall be in accordance with the NEC, NESC, IEEE, ANSI and UL standards.
2. All bonding conductors must have the same cross-sectional area, and the conductor shall be of the same material as the equipment being bonded. The conductor shall be sized for the ground fault current. This shall be accomplished in the following manner:
   a. Carry all metallic portions of the electrical distribution system, metal piping, metal building frame, etc., to a single point at the airfield counterpoise grounding system.
   b. Provide insulation at or near the point of attachment to prevent corrosion and/or damage to the conductor.
   c. Provide additional bonding wire where required to meet the NEC requirements.
   d. Provide a bonding connection to all grounded equipment.
3. Grounding connections shall be UL listed and as follows:
   a. All ground conductors shall be continuous and unbroken from each location above grade.
   b. The purpose of the grounding and bonding system is to establish all equipment enclosures, non-current carrying metallic portions of the electrical distribution system, metal piping, metal building frame, etc., at zero potential relative to the airfield counterpoise grounding system for a safe, continuous return path for ground fault current.
4. A single grounding system shall be installed in accordance with NEC Article 250.
5. Grounding electrode system shall be installed in accordance with NEC Article 250.
6. Grounding connections shall be made and other grounding systems shall be installed in accordance with NEC Article 250.

NOTES

1. All grid conductors shall be continuous and unbroken from each location above grade. If grid rods are used, the grid shall be installed in accordance with NEC Article 250.
2. Grid rods shall be installed in accordance with NEC Article 250.
3. All grid conductors shall be provided with a lug sized for the ground electrode conductor. TYP GRD CONNECTION FROM BELOW. TYP GRD CONNECTION FROM ABOVE.
4. All grid electrodes or bonding conductors installed within a raceway shall utilize GRC with ground fault current. This ground conductor shall loop through the bonding lug prior to termination.
5. Grid bus shall not be connected to the airfield counterpoise grounding system.

GROUND BUS NOTES

1. The purpose of the grounding and bonding system is to establish all equipment enclosures, non-current carrying metallic portions of the electrical distribution system, metal piping, metal building frame, etc., at zero potential relative to the airfield counterpoise grounding system for a safe, continuous return path for ground fault current.
2. Grounding connections shall be UL listed and as follows:
   a. All grid conductors shall be continuous and unbroken from each location above grade.
   b. The purpose of the grounding and bonding system is to establish all equipment enclosures, non-current carrying metallic portions of the electrical distribution system, metal piping, metal building frame, etc., at zero potential relative to the airfield counterpoise grounding system for a safe, continuous return path for ground fault current.
3. Grounding electrode system shall be installed in accordance with NEC Article 250.
4. Grounding connections shall be made and other grounding systems shall be installed in accordance with NEC Article 250.
5. A single grounding system shall be installed in accordance with NEC Article 250.
6. Grounding electrode system shall be installed in accordance with NEC Article 250.
7. Grounding connections shall be made and other grounding systems shall be installed in accordance with NEC Article 250.
NOTE: THIS PROJECT REQUIRES A 150 kVA DRY TRANSFORMER

PLAN FOR PLINTH TOP 225 & 500 KVA

PLINTH DIMENSIONS
APPROVED FOR CONSTRUCTION
(ALL DIMENSIONS ARE IN INCHES AND FEET)

<table>
<thead>
<tr>
<th>KVA</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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</thead>
<tbody>
<tr>
<td>125</td>
<td>90&quot;</td>
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<td>30&quot;</td>
<td>20&quot;</td>
<td>12&quot;</td>
<td>10&quot;</td>
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<tr>
<td>225</td>
<td>60&quot;</td>
<td>40&quot;</td>
<td>20&quot;</td>
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<td>8&quot;</td>
<td>6&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>500</td>
<td>60&quot;</td>
<td>40&quot;</td>
<td>20&quot;</td>
<td>15&quot;</td>
<td>10&quot;</td>
<td>8&quot;</td>
<td>6&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>600</td>
<td>72&quot;</td>
<td>48&quot;</td>
<td>24&quot;</td>
<td>18&quot;</td>
<td>12&quot;</td>
<td>10&quot;</td>
<td>8&quot;</td>
<td>6&quot;</td>
</tr>
</tbody>
</table>

6" TH. R.C. SLAB WITH 1/2" BARS BOTH WAYS 12" APART

6" dia PVC conduit (duct) for high Voltage Cables from pole to transformer; 1 - 6" dia duct installed as spare exit tx and cap

6" CONC. BLOCKS FILLED SOLID WITH CONC. AND REINFORCED WITH 1# 1/2" Ø BAR EVERY 12" O.C.

6" TH. R.C. SLAB WITH 1/2" BARS BOTH WAYS 12" APART

PLINTH FOUNDATION PLAN

VIEW FOR TX. SIZES 250 - 500 kVA

8' TH. R.C. SLAB WITH 5/8" BARS BOTH WAYS 9" APART

OPENING IN R.C. SLAB

225 KVA TX WITH TX.PAD

ACCESS DOORS TX.PAD

4" TH. SLAB WITH 1/2" Ø BARS AT 6" O.C. BOTH WAYS BOTTOM

PLAN FOR TX. SIZES 250 - 500 kVA

TX. DOORS

CABLE COMPARTMENT

PIPES IN BOTH COMPARTMENTS

6" BLOCK WALL

6" CONC. BLOCKS FILLED SOLID WITH CONC. AND REINFORCED WITH 1# 1/2" Ø BAR EVERY 12" O.C.

6" TH. R.C. SLAB WITH 1/2" BARS BOTH WAYS 12" APART

90° LONG SWEEP ELBOWS TO 3'-0"

8" TH. R.C. SLAB WITH 5/8" BARS BOTH WAYS 9" APART

CABLE TRENCH

NOTE:

THIS PROJECT REQUIRES A 150 kVA DRY TRANSFORMER

TRANSFORMER DETAILS

VIVIDARCH
ARCHITECTURE
www.vividarch.com
BELIZE CITY | BELIZE
5 A STREET | KING'S PARK
Tel : + 501 223-5526

CONSTRUCTION ADMINISTRATION CO. LTD.

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Wireman category - Engineer
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Electrical, Safety, & Construction

PERMIT SET
SC --/04/2017

BID SET
SC --/05/2017
1. All design complies with NEC, PUC and BEL standards and requirements
2. All installations shall be carried out in strict accordance with the requirements of PUC, BEL and NEC
3. All outlets and switches shall be flush mounted
4. All cables are to be run in either PVC or EMT conduits, whichever is applicable, according to the current applicable code
5. All wire sizes and specifications shall be in strict accordance with these drawings
6. All metal parts shall be properly bonded and grounded in accordance with the relevant codes
7. All service panels shall be controlled by a double breaker as specified in these drawings
8. All service panels shall be sized as indicated in these drawings
9. All conduits required shall be properly secured in position before structural concrete is placed
10. All joints, junctions, and ends of conduits shall be properly secured to ensure that concrete does not gain entry during concreting operations
11. All circuits breakers shall be sized in strict accordance with these drawings
12. All cable runs are to be installed in one continuous length. Under NO CONDITIONS will any type of joints be allowed. All connections shall be made at switches, outlets, or lights.
13. All materials for the installation shall be new, UL listed, and from the same manufacturer
14. All installation shall be carried out by, or done under the supervision of trained, licensed personnel as required by the Public Utilities Commission
15. Any discrepancies found in these drawings shall be reported to the Engineer of record, whose determination as to the true intention of the drawings shall be final
16. These drawings shall not be scaled. Any additional information or clarification required shall be obtained from the Engineer of record
17. All trenching must be a minimum of 24" 
18. All outdoor, kitchen and bathroom receptacles shall be GFCI, 20 A
19. All outdoor receptacles and switches shall have weather proof covers
20. Conduits are to be sized as per NEC requirements
21. All underground conduits shall be Sch 40 or thicker
22. Couplings and fittings shall be Sch 40 or thicker
23. Conduit & Cables must meet NEC requirements
24. Plumbing elbows are not acceptable, all elbows must be long sweep
25. Underground conduits shall be buried to a depth of 18" minimum below grade
26. Underground conduits shall be laid on a 6" sand bed and covered by a 6" sand bed
27. Identification marking PVC special purpose tape shall be placed 12" below grade.
28. All metal equipment shall be equipotentially grounded with the earth system
29. Ground Rod shall be a minimum of 8’ 0” long and shall be completely buried
30. A ground resistance of approximately 10 ohms or less shall be achieved
31. As per NEC, the Neutral and the Ground shall only be bonded at the Panel
32. Cable colours shall conform to the requirements of the NEC, black - live, white - neutral , green - ground
33. Colour Tape identification shall only be allowed for conductors larger than #6 AWG in which case the cable colour shall be black, and identified with colour tapes
34. Distribution Breaker Panel shall be place in an unobstructed area at a maximum height of 6 feet 6 inches to the top of the Panel Board from floor level and shall not be placed in Bathrooms or Laundry rooms
35. The minimum space infront of a Breaker Distribution Panel shall not be less than 36 inches
36. The minimum horizontal space required for Breaker Distribution Panel shall not be less than 30 inches or the width of the Panel, if width is larger than 30 inches.
37. Switches shall be placed 48” above f.f.l. and receptacles shall be placed 18” above f.f.l. and 45” above f.f.l for counter top receptacles
38. All lighting branch circuit shall be #12 AWG type THWN or T HHW unless otherwise directed

SWITCHES & POWER SCHEDULE

<table>
<thead>
<tr>
<th>Telephone Point</th>
<th>Cable T.V. Outlet</th>
<th>Network Cable (Cat 6) Cable Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Transformer</td>
<td>22 kV - 120/208V</td>
<td>Dry Transformer 480V - 120/208V</td>
</tr>
</tbody>
</table>

SWITCHES & POWER SCHEDULE

<table>
<thead>
<tr>
<th>Automatic Transfer switch</th>
<th>Disconnect Switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaker</td>
<td>Timer Switch</td>
</tr>
<tr>
<td>Electrical Connection - Power source available</td>
<td>Diesel Generator</td>
</tr>
</tbody>
</table>

SWITCHES & POWER SCHEDULE

<table>
<thead>
<tr>
<th>Current Transformer</th>
<th>Watthour Meter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermostat</td>
<td>Ground</td>
</tr>
<tr>
<td>Explosion Proof Seal</td>
<td>Explosion Proof J Box</td>
</tr>
<tr>
<td>Pole</td>
<td></td>
</tr>
</tbody>
</table>
FINISH PLAN

Scale 3'-0"/1'-0"

FINISH SCHEDULE

FLOOR DESCRIPTION
H8 INSITU-TILE 100% EPOXY COATING (EP-5200 SERIES) OR APPROVED EQUIVALENT.

D1 AGGREGATE EXPOSURE CLASS D - LARGE AGGREGATE FINISH. FINISHED GLOSS LEVEL 1 - LOW GLOSS APPEARANCE. GRIT RANGE: 100-400 POLISHED CONCRETE AS PER TECHNICAL SPECIFICATIONS.

CEILING DESCRIPTION
C3 4'-0"X 8'-0"X 1-1/2" THICK GYPSUM BOARD. PRIME & PAINT AS PER TECHNICAL SPECIFICATIONS.

WALL DESCRIPTION
M1 6" C.M.U. WALL, PLASTERED, PRIMED & PAINTED AS PER TECHNICAL SPECIFICATIONS.
M2 4" C.M.U. WALL, PLASTERED, PRIMED & PAINTED AS PER TECHNICAL SPECIFICATIONS.
T2 6"X 8" CERAMIC TILES SHALL BE PROVIDED AND INSTALLED UP TO THE HEIGHT OF 5'-0". TOP EDGE TO BE FINISHED WITH DECORATIVE BULL NOSE EDGING TILE STRIP.

RAILING DESCRIPTION
R3 36" (H) STEEL RAILING COMPRISED OF 2" X 2" POSTS SPACED 4'-0" O.C. WITH A TOP RAIL OF 2" X 1" & INTERMEDIATE HORIZONTAL RAILS OF 1" X 1/4" SPACED 6" O.C. ASSEMBLY TO BE PRIMED & PAINTED WITH 2-COATS OF HIGH GLOSS AUTOMOTIVE PAINT. COLOR TO BE SELECTED BY ARCHITECT.

WINDOW SCHEDULE

<table>
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<th>QTY.</th>
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<td>W15</td>
<td>ALUMINUM LOUVERED WINDOW</td>
<td>3'-0&quot;</td>
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FINISH ROOM SCHEDULE

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<tr>
<td>100</td>
<td>STAGE</td>
<td>M1</td>
<td>M1</td>
<td>M1</td>
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<tr>
<td>101</td>
<td>CHANGING ROOM</td>
<td>M1</td>
<td>M1</td>
<td>M2</td>
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<tr>
<td>102</td>
<td>RESTROOM</td>
<td>M2/T2</td>
<td>M2/T2</td>
<td>M2/T2</td>
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<tr>
<td>103</td>
<td>EQUIPMENT STORAGE</td>
<td>M1</td>
<td>M2</td>
<td>M1</td>
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<tr>
<td>104</td>
<td>STAIR ACCESS</td>
<td>R3</td>
<td>R3</td>
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DOORS & WINDOW SCHEDULE

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<tr>
<td>ALUMINUM FLUSH DOOR</td>
<td>6'-10&quot;</td>
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<td>DOOR</td>
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</tr>
<tr>
<td>MORTISE LOCK</td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>TO BE INSTALLED IN ALUMINUM FRAME.</td>
<td></td>
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</tr>
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</table>
FLOOR SLAB DETAIL

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

#4@10" BOT.

#3@10" BOT.

4'-0" 4'-0"

#4@8" TOP

#4@10" BOT.

#3@10" BOT.

4'-8" 4'-8"

1. ALL COLUMNS TO BE ISOLATED FROM SLAB PER DETAIL.

NOTES:

1. FILLED WITH TOP SOIL

2. EACH WAY

REVISION

DATE

DESCRIPTION

BY

DRAWN BY:

CHECKED BY:

DATE:

JOB. NO.

SUE COUTENAY

P. Arch, (APAB); LEED AP (GBCI)

Principal in Charge

YOUNG'S ENGINEERING CONSULTANCY LTD.

P.O. Box 2665 á 828 Coney Drive á Belize City á Tel: 223-2072

Fax: 223-2147 á Email: INFO@yecbelize.com á Web: www.yecbelize.com

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**ROOM SCHEDULE**

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<thead>
<tr>
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<tbody>
<tr>
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<td>102</td>
<td>RESTROOM</td>
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<td>103</td>
<td>EQUIPMENT STORAGE</td>
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**ELECTRICAL SCHEDULE**

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<tr>
<td></td>
<td>2 x 20 FLORESCENT SURFACE MOUNTED LIGHT FIXTURE WITH WRAP AROUND DIFFUSER</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>2 x 40 FLORESCENT SURFACE MOUNTED LIGHT FIXTURE WITH WRAP AROUND DIFFUSER</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>VANITY LIGHTS</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>RECESSED, OUTDOOR STEP LIGHT WITH LED BULB MOUNTED ON STAIR RISERS</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>110V DUPLEX FLUSH MOUNTED COUNTERTOP OUTLET</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>110V DUPLEX FLUSH MOUNTED WEATHER PROOF WALL OUTLET, UNIT MOUNTED UP 1' ABV FF</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>SINGLE POLE WALL MOUNTED SWITCH</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>FLOOD LIGHT</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ELECTRICAL WIRING</td>
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</table>

**ELECTRICAL PLAN**

- 2 x 20 FLORESCENT SURFACE MOUNTED LIGHT FIXTURE WITH WRAP AROUND DIFFUSER
- 2 x 40 FLORESCENT SURFACE MOUNTED LIGHT FIXTURE WITH WRAP AROUND DIFFUSER
- VANITY LIGHTS
- RECESSED, OUTDOOR STEP LIGHT WITH LED BULB MOUNTED ON STAIR RISERS
- 110V DUPLEX FLUSH MOUNTED COUNTERTOP OUTLET
- 110V DUPLEX FLUSH MOUNTED WEATHER PROOF WALL OUTLET, UNIT MOUNTED UP 1' ABV FF
- SINGLE POLE WALL MOUNTED SWITCH
- FLOOD LIGHT
- ELECTRICAL WIRING

**NOTE:**
1. Panel S01, 100A, 1Ø, 120/208 V, 10 kAIC, NEMA 5R, 22 CRT, 4 WIRE ELECTRICAL PANELBOARD
2. Panel S01, 100A, 1Ø, 120/208 V, 10 kAIC, NEMA 5R, 22 CRT, 4 WIRE ELECTRICAL PANELBOARD

**ELECTRICAL SCHEDULE**

<table>
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### Distribution Panel - PNL S01 - Stage

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<th>Circuit #</th>
<th>Items</th>
<th>Circuit Breaker Trip Amps</th>
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<th>Amps</th>
<th>Cable</th>
<th>Cond</th>
<th>Phase</th>
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<td>SPARE</td>
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</tbody>
</table>

**Calculated Load**

**NON-CONTINUOUS LOAD**

- **Receptacles Loads @ 180 VA**
- **Kitchen**
- **Sub-Total**: 1.98

**Demand Factor for Receptacles**

**Total Non-Continuous Load**: 1.98

**CONTINUOUS LOAD**

- **General Lighting @ 3 VA per sq ft.**
- **AC Units**
- **Total Continuous Load**: 1.12
- **Total Non-Continuous Load**: 1.98
- **Total**: 3.10

**Phase Load**

- A: 1598.00
- B: 1280.00
- **Total Connected Load**: 2878.00
- **Unbalance**: -11.05% -318.00

**Unbalance**: 14.92 A

---

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**Sue Courtenay**

P. Arch, (APAB); LEED AP (GBCI)

Principal in Charge

---

**Wireman License # Bz. 1000**

**Electrical, Safety, & Construction**

---

**Waight & Associates**

Engineering

P.O. Box 375

18 - 6 Street North

Corozal, Belize

Phone 501 624-8664; 668-2058

cpwaight23@gmail.com

www.waightandassociates.com
AIR HANDLER SCHEDULE

<table>
<thead>
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<th>ITEM NO.</th>
<th>AHU-5</th>
<th>AHU-6</th>
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<th>AHU-8</th>
<th>AHU-9</th>
<th>AHU-10</th>
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<td>CFM</td>
<td>34</td>
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<td>1/05A</td>
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**COOLING ONLY DX-SPLIT SYSTEM**

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<tr>
<th>TAG</th>
<th>MANUFACTURE</th>
<th>COOLING TC (BTU/h)</th>
<th>CFM</th>
<th>ESP</th>
<th>V/P/Hz</th>
<th>MCA (EVAP)</th>
<th>FLA (COND)</th>
<th>MCA (COND)</th>
<th>EVAP WEIGHT (LBS)</th>
<th>COND. WEIGHT (LBS)</th>
<th>REFRIGERANT</th>
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<tr>
<td>AHU-10</td>
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<td>700</td>
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<td>0.75A</td>
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**NOTES:****
1. PROVIDE WITH FILTER RACK.
2. PROVIDE WITH SEA COAT PROTECTION ON CONDENSER COILS.

**COOLING ENGINEERING**

<table>
<thead>
<tr>
<th>EQUIPMENT TAG</th>
<th>EF-1</th>
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<tbody>
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<td>MANUFACTURE</td>
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<tr>
<td>MODEL</td>
<td>SP-BBD</td>
<td>CSP-A390</td>
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<tr>
<td>DRIVE</td>
<td>DIRECT</td>
<td>DIRECT</td>
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<tr>
<td>CFM</td>
<td>50</td>
<td>275</td>
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</tr>
<tr>
<td>TOTAL SP (IN. WG)</td>
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<tr>
<td>PAN RPM</td>
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<td>OPERATING POWER (HP)</td>
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<td>FLA (AMPS)</td>
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<tr>
<td>WEIGHT (LBS)</td>
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<tr>
<td>NOTES</td>
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</table>

**NOTES:**
1. PROVIDE WITH WIRE CONTROL (PAC-YTS3CRCRAU) AND FILTER RACK.
2. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.
3. PROVIDE WITH SOLID STATE SPEED CONTROL.
STAIR 14: 1'-8" ABOVE GRADE

STAIR 15: 1'-8" ABOVE GRADE

STAIR 16: 1'-8" ABOVE GRADE

STAIR 17: 1'-8" ABOVE GRADE

STAIR 18: 1'-8" ABOVE GRADE

STAIR 19: 1'-8" ABOVE GRADE

TERRACED SEATING

PRELIMINARY

DRAWN BY: CHECKED BY: DATE: JOB. NO.

VIVIDARCH
ARCHITECTURE
www.vividarch.com
BELIZE CITY | BELIZE
5 A STREET | KING'S PARK
Tel: +501 223-5526

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Sue Courtenay
P. Arch, (APAB); LEED AP (GBCI)
Principal in Charge
REVISION
DATE
DESCRIPTION
BY
1
2
3
4
5
-/-/-
-/-/-
-/-/-
X X
X X
X X
DRAWN BY:
CHECKED BY:
DATE:
JOB. NO.
ELEVATION C
ELEVATION D
±2'-9"
±1'-9"
±2'-9"
±0'-0"
±0'-0"
DECKING PLAN

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

DECKING PLAN

GAZEBO DECK
HOUSE OF CULTURE, REGENT STREET, BELIZE CITY, BELIZE

PERMIT SET
SC --/04/2017

BID SET
--/05/2017

REVISION
DATE
DESCRIPTION
BY

DRAWN BY:
CHECKED BY:
DATE:
JOB. NO.

VIVIDARCH
ARCHITECTURE
www. vividarch.com
BELIZE CITY | BELIZE
5 A STREET | KING'S PARK
Tel : + 501 223-5526
CONSTRUCTION ADMINISTRATION
CO. LTD.

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Sue Courtenay
P. Arch, (APAB); LEED AP (GBCI)
Principal in Charge

059-2016

MAY 2017

43'-0"
7'-0"
9'-0"
10'-0"

3'-0"
4'-0"
5'-0"
6'-0"

1'-6"
1'-0"
1'-0"
1'-0"

8'-0"
9'-0"
10'-0"

18'-0"
27'-0"
45'-0"
63'-0"

1" X 8" FASCIA BOARD
(TYP. ALL EDGES)

1" X 4" DECKING LAID FLAT
" SPACING (TYP.)

SEE STAIR DETAIL 1
SEE STAIR DETAIL 2

1'-0"
ELECTRICAL PLAN
Scale 1" : 8' - 0"

**ELECTRICAL SCHEDULE**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SYMBOL</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXTERIOR GRADE, VANDAL RESISTANT, WALL MOUNTED LIGHT WITH LED BULB MOUNTED 6'-0&quot; ABOVE F.F.</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>SINGLE POLE WALL MOUNTED SWITCH</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>120V DUPLEX FLUSH MOUNTED WEATHER PROOF WALL OUTLET. UNIT MOUNTED 18&quot; ABOVE F.F.</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>LED OUTDOOR PUCK LIGHT MOUNTED FLUSH WITH F.F. OF TIMBER DECK.</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**REVISION**

<table>
<thead>
<tr>
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FINISH PLAN

**Scale**: 1" : 1'-0"

**FLOOR DESCRIPTION**

**INSI-TILE 100% EPOXY COATING (EP-5200 SERIES) OR APPROVED EQUIVALENT.**

**CEILING DESCRIPTION**

**4'-0" X 8'-0" X 1 1/2" THICK GYPSUM BOARD. PRIME & PAINT AS PER TECHNICAL SPECIFICATIONS.**

**WALL DESCRIPTION**

**1" X 4" PRESSURE-TREATED PINE SIDING. PRIME & PAINT AS PER TECHNICAL SPECIFICATIONS.**

**WINDOW SCHEDULE**

<table>
<thead>
<tr>
<th>NO.</th>
<th>DESCRIPTION</th>
<th>WIDTH</th>
<th>HEIGHT</th>
<th>QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>W15</td>
<td>ALUMINUM LOUVERED WINDOW</td>
<td>3'-0&quot;</td>
<td>2'-0&quot;</td>
<td>1</td>
</tr>
<tr>
<td>W16</td>
<td>DOUBLE ALUMINUM LOUVERED WINDOW</td>
<td>6'-0&quot;</td>
<td>4'-0&quot;</td>
<td>3</td>
</tr>
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</table>

**FINISH ROOM SCHEDULE**

<table>
<thead>
<tr>
<th>ROOM NO.</th>
<th>DESCRIPTION</th>
<th>WALLS</th>
<th>FLOOR</th>
<th>CEILING</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>RESTROOM</td>
<td>A95</td>
<td>B95</td>
<td>C95</td>
</tr>
<tr>
<td>101</td>
<td>SECURITY BOOTH</td>
<td>A95</td>
<td>B95</td>
<td>C95</td>
</tr>
</tbody>
</table>

**DOOR & WINDOWS SCHEDULE**

<table>
<thead>
<tr>
<th>NO.</th>
<th>DESCRIPTION</th>
<th>WIDTH</th>
<th>HEIGHT</th>
<th>QTY.</th>
<th>D25</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SOLID WOODEN 2 PANEL DOOR WITH MORTISE LOCK &amp; DOOR STOP TO BE INSTALLED IN A 2&quot; WOODEN FRAME</td>
<td>3'-0&quot;</td>
<td>6'-10&quot;</td>
<td>2</td>
<td></td>
</tr>
</tbody>
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**FINISH ROOM SCHEDULE**

<table>
<thead>
<tr>
<th>ROOM NO.</th>
<th>DESCRIPTION</th>
<th>WALLS</th>
<th>FLOOR</th>
<th>CEILING</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td></td>
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</tr>
</tbody>
</table>

**NOTES:**

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**Contact:**

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Tel: +501 223-5526

**CONSTRUCTION ADMINISTRATION CO. LTD.**

**REVISIONS:**

<table>
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<th>DATE</th>
<th>JOB. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PERMIT SET**: SC 11/03/2017

**BID SET**: SC 05/05/2017

**FINISH PLAN**

5'-0" X 11'-0"

**DRAWN BY**: Sue Courtenay
P. Arch, (APAB); LEED AP (GBCI)
Principal in Charge

**CHECKED BY**: Sue Courtenay

**DATE**: 06/06/2017

**JOB. NO.**: CM-2016
### AIR HANDLER SCHEDULE

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>AHU-5</th>
<th>AHU-6</th>
<th>AHU-7</th>
<th>AHU-8</th>
<th>AHU-9</th>
<th>AHU-10</th>
<th>AHU-11</th>
<th>AHU-12</th>
<th>AHU-13</th>
<th>AHU-14</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOCATION</td>
<td>HOC</td>
<td>HOC</td>
<td>HOC</td>
<td>HOC</td>
<td>HOC</td>
<td>HOC</td>
<td>HOC</td>
<td>HOC</td>
<td>HOC</td>
<td>HOC</td>
</tr>
<tr>
<td>COOLING NET CAPACITY</td>
<td>MBH</td>
<td>MBH</td>
<td>MBH</td>
<td>MBH</td>
<td>MBH</td>
<td>MBH</td>
<td>MBH</td>
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<tr>
<td>28.5</td>
<td>57.8</td>
<td>28.6</td>
<td>57</td>
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<td>35.3</td>
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<tr>
<td>SUPPLY AIR</td>
<td>CFM</td>
<td>915</td>
<td>1800</td>
<td>900</td>
<td>1800</td>
<td>1800</td>
<td>1200</td>
<td>1200</td>
<td>1200</td>
<td>1600</td>
</tr>
<tr>
<td>OUTSIDE AIR</td>
<td>CFM</td>
<td>100</td>
<td>160</td>
<td>50</td>
<td>100</td>
<td>100</td>
<td>170</td>
<td>170</td>
<td>170</td>
<td>170</td>
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### COOLING ONLY DX-SPLIT SYSTEM

<table>
<thead>
<tr>
<th>TAG</th>
<th>MANUFACTURE</th>
<th>MODEL</th>
<th>COOLING TC (BTU/h)</th>
<th>CPM</th>
<th>ESP/PH/Hz</th>
<th>MCA (EVAP)</th>
<th>FLA (COND)</th>
<th>MCA (COND)</th>
<th>EVAP WEIGHT (LBS)</th>
<th>COND. WEIGHT (LBS)</th>
<th>REFRIGERANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHU-14</td>
<td>MITSUBISHI</td>
<td>PUY-A30HHA6A/PKA-A30XAS</td>
<td>34</td>
<td>700</td>
<td>0</td>
<td>208/1/60</td>
<td>1/05A</td>
<td>0.75A</td>
<td>40</td>
<td>46</td>
<td>163</td>
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### FAN SCHEDULE

<table>
<thead>
<tr>
<th>EQUIPMENT TAG</th>
<th>EF-1</th>
<th>EF-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>MANUFACTURE</td>
<td>GREENHECK</td>
<td>GREENHECK</td>
</tr>
<tr>
<td>MODEL</td>
<td>SP-880</td>
<td>CSP-4390</td>
</tr>
<tr>
<td>DRIVE</td>
<td>DIRECT</td>
<td>DIRECT</td>
</tr>
<tr>
<td>RPM</td>
<td>861</td>
<td>1164</td>
</tr>
</tbody>
</table>

### NOTES

1. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.
2. PROVIDE WITH SOLID STATE SPEED CONTROL.

---

**NOTES:**

1) PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.

---

**NOTES:**

1) PROVIDE WITH FILTER RACK.

---

**NOTES:**

1) PROVIDE WITH WIRED CONTROLLER (PAC-YT53CRUA) AND FILTER RACK.
ISOMETRIC

MECHANICAL PLAN

Scale 3"=1'-0"

1-1/2" VTR

2" W

3"

1"

3/4"

3/4"

VTR

1/2"

LAV-1

WC

3 "TO SITE

ISOMETRIC

DRAINAGE PLAN

Scale 3"=1'-0"

MECHANICAL PLAN

Scale 3"=1'-0"

POTABLE WATER PLAN

Scale 3"=1'-0"

CON. ON SITE PLAN

1. SANITARY PIPING 3" AND LESS SHALL BE SLOPED 1/4" PER FT. SANITARY PIPING 4" AND LARGER SHALL BE SLOPED 1/8" PER FT.

2. CONTRACTOR SHALL FIELD VERIFY INVERT OF SANITARY PIPING BEFORE INSTALLATION AND REPORT ANY DISCREPANCIES TO ARCHITECT AND ENGINEER.

3. CONTRACTOR SHALL ENSURE THAT THE SANITARY PIPING DOES NOT DISSIPATE ANY STRUCTURAL LOADS FROM THE BUILDING BEAMS, COLUMNS OR WALLS.

4. PROVIDE TRAP PRIMERS TO ALL FLOOR DRAINS.

5. PROVIDE THREE EYES CLEANOUTS WHERE AT THE BASE OF EACH SANITARY STACK, ETC.

BELOW GRADE.

ISOLATION VALVE - PROVIDE 12"X12" ACCESS DOOR IN CEILING.
EXISTING FLAGPOLE TO REMAIN
PROVIDE VALVE BOX WITH ISOLATION VALVE. VALVE BOX SHALL CLEARLY BE MARKED "WATER" ON LID.

TIE INTO EXISTING METER.

EXISTING ANTIQUE YARD HYDRANT TO REMAIN. REMOVE, REPAIR, PAINT AND REPLACE.

PROVIDE VALVE BOX FOR SANITARY LINE CLEAN-OUT. BOX LID SHALL BE CLEARLY MARKED "SANITARY".

FORCE MAIN.
CONTINUES TO BWS SEWER MAIN.
CONTINUES TO WATER CISTERN IN CRAWL SPACE.
CONTINUES TO BOOSTER PUMPS.
WATER SUPPLY TO BUILDING.
START OF GRAVITY DRAIN SEWER LINE - PROVIDE 1% SLOPE OUT TO BWS CONNECTION.
22 kV

300kVA 3Φ
22kV - 480/277V

Distribution System
Single Line

Fused Disconnect Switch 600A
rated panel, 360A fuses 480/277V,
3Φ 65kAIC, NEMA 3R

2 Lghts of 4/O per phase and neutral
copper conductor and 1 lgth of 1/O
copper conductor for grounding

600A rated electrical
trough @ 480V, 3Φ
65kAIC, NEMA 3R

1 Lghts of #6 per
phase and neutral
copper conductor

50kVA 3Φ
480V - 120/208V

TO PANELS

1 Lghts of # 3 per
phase and neutral
copper conductor

75kVA 3Φ
480V - 120/208V

TO PANELS

1 Lghts of 3/O per
phase and neutral
copper conductor

150kVA 3Φ
480V - 120/208V

TO PANELS

2 awg 1 lgth,
bare cu THHN

2 awg 1 lgth,
bare cu THHN

2 awg 1 lgth,
bare cu THHN

2 awg 1 lgth,
bare cu THHN

2 awg 1 lgth,
bare cu THHN

3/8” x 10’ cu
ground rod

5” apart

15’ apart

12” Cu Erico Grounding Bus Bar
- all equipment panels and
breaker shall be grounded to it

8 awg, cu THHN

THIS IS THE SAME GROUNDING
SYSTEM AS THAT OF THE HOC.
ONLY ONE SYSTEM SHALL BE
INSTALLED. RESISTANCE
SHOULD BE A MAXIMUM OF 5Ω.
ALL GROUND MUST BE TIED
INTO THE ONE GRID.
PHONE DATA & VOICE LINE

DRAWN BY:
CHECKED BY:
DATE:
JOB. NO.

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Sue Courtenay
P. Arch, (APAB); LEED AP (GBCI)
Principal in Charge

C. PHILLIP WAIGHT, P.Eng. - 052-2001
ENGINEER

Waight & Associates
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Phone 501 624-8664; 668-2058
cpwaight23@gmail.com
Wireman License # Bz. 1000
Wireman category - Engineer
www.waightandassociates.com

E9.3
GROUNDING AND BONDING INSTALLATION NOTES

1. Grounding and bonding shall be in accordance with the NEC, NAE, CEC, and national standards.
2. All dimensions indicated in this document are for reference and coordination purposes only. The contractor is responsible for verifying all dimensions in the field.
3. The purpose of the grounding and bonding system is to establish all equipment enclosures, non-current carrying metallic portions of the electrical distribution system, metal piping, metal building frame, etc., at a zero potential relative to the earth ground and provide for a safe, low impedance return path for ground fault current. This shall be accomplished in the following manner:

   a. Interconnect all ground buses and position the system with a copper ground conductor (bus) system.
   b. Interconnect all ground buses and points in the system with a copper ground conductor (bus) system.
   c. Install ground bushings. Ground conductors shall loop through the bushing lug prior to termination.
   d. All ground conductors shall be continuous and unbroken from each location to the building ground bus.
   e. All ground electrodes or bonding conductors installed alone within a raceway shall utilize GRC with grounding bushings at each end. This ground conductor shall loop through the bushing lug prior to termination.
   f. Ground conductors shall loop through the bushing lug prior to termination.

   NOTES
   a. All ground conductors shall be continuous and unbroken from each location to the building ground bus.
   b. All ground conductors shall be continuous and unbroken from each location to the building ground bus.
   c. Grounding connections shall be made at service entries, connection points, and terminations.
   d. Grounding connections shall be made at service entries, connection points, and terminations.
   e. All ground electrodes or bonding conductors installed alone within a raceway shall utilize GRC with grounding bushings at each end. This ground conductor shall loop through the bushing lug prior to termination.
   f. All ground electrodes or bonding conductors installed alone within a raceway shall utilize GRC with grounding bushings at each end. This ground conductor shall loop through the bushing lug prior to termination.

   KEY NOTES
   a. For bonding, jumpers around insulating devices, equif, etc. associated with the ground electrode. The following applies:
   b. For bonding, jumpers around insulating devices, equif, etc. associated with the ground electrode. The following applies:
   c. For bonding, jumpers around insulating devices, equif, etc. associated with the ground electrode. The following applies:
   d. For bonding, jumpers around insulating devices, equif, etc. associated with the ground electrode. The following applies:
   e. For bonding, jumpers around insulating devices, equif, etc. associated with the ground electrode. The following applies:
   f. For bonding, jumpers around insulating devices, equif, etc. associated with the ground electrode. The following applies:

   GROUNDING BUS NOTES

   1. Ground bus installation shall be in accordance with this detail and as indicated on the drawings.
   2. Ground bus installation shall be in accordance with this detail and as indicated on the drawings.
   3. Ground bus installation shall be in accordance with this detail and as indicated on the drawings.
   4. Ground bus installation shall be in accordance with this detail and as indicated on the drawings.
   5. Ground bus installation shall be in accordance with this detail and as indicated on the drawings.

   NOTE: INTEGRITY. SEE NEC ART 250

   INSTALL GROUND BUSHING. GROUND CONDUCTOR SHALL ADJUST FOR BONDING JUMPERS AROUND BUSHING AS IT EXITS CONDUIT SYSTEMS.

   INSTALL GROUND BUS NOTES

   1. Ground bus installation shall be in accordance with this detail and as indicated on the drawings.
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   GROUNDING ELECTRODE CONTACT RESISTANCE BETWEEN 2 OHMS AND 5 OHMS

   TABLE - GROUND BUS PROVISIONS

<table>
<thead>
<tr>
<th>PROVISION</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground bus installation</td>
<td>As indicated on drawings.</td>
</tr>
<tr>
<td>Ground bus installation</td>
<td>As indicated on drawings.</td>
</tr>
<tr>
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   GROUNDING SYSTEM

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   INSTALL GROUND BUSHING. GROUND CONDUCTOR SHALL ADJUST FOR BONDING JUMPERS AROUND BUSHING AS IT EXITS CONDUIT SYSTEMS.
**Transformer Details**

- **225 kVA TX with Access Doors TX.PAD**
- **8" TH. R.C. Slab with 5/8" Bars Both Ways 9" Apart**
- **4" TH. Slab with 1/2" Ø Bars at 6" O.C. Both Ways Bottom**
- **OPENING IN R.C. Slab**
- **PLAN FOR PLINTH TOP 225 & 500 kVA**
- **6" Block Wall**
- **Pipes in Both Compartments**
- **Cable Compartment**
- **Cable Trench**
- **90° Long Sweep Elbows to Facilitate Cable Stringing Section A-A 500kVA**
- **6" Conc. Blocks Filled Solid with Conc. and Reinforced with 1# 1/2" Ø Bar Every 12" O.C.**

**Transformer Details**

- **6" Dia PVC conduit (duct) for high Voltage Cables from pole to transformer; 1 - 6" dia duct installed as spare exit tx and cap**

**Note:**

- This project requires a 500 kVA transformer

**Dimensions:**

<table>
<thead>
<tr>
<th>KVA</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
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</thead>
<tbody>
<tr>
<td>225</td>
<td>6' 4&quot;</td>
<td>5' 4&quot;</td>
<td>5' 4&quot;</td>
<td>4' 4&quot;</td>
<td>1' 9&quot;</td>
<td>1' 9&quot;</td>
<td>4' 4&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>225</td>
<td>6' 10&quot;</td>
<td>5' 10&quot;</td>
<td>5' 2&quot;</td>
<td>1' 9&quot;</td>
<td>1' 9&quot;</td>
<td>4' 4&quot;</td>
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<tr>
<td>500</td>
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<tr>
<td>750</td>
<td>7' 6&quot;</td>
<td>6' 1&quot;</td>
<td>6' 1&quot;</td>
<td>5' 10&quot;</td>
<td>2&quot; 2&quot;</td>
<td>1' 9&quot;</td>
<td>4' 4&quot;</td>
<td>10&quot;</td>
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</tbody>
</table>

**Plinth Dimensions:**

All dimensions are in inches and feet. 

<table>
<thead>
<tr>
<th>KVA</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
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</thead>
<tbody>
<tr>
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<td>1' 9&quot;</td>
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<td>4' 4&quot;</td>
<td>6&quot;</td>
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<tr>
<td>225</td>
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<td>5' 10&quot;</td>
<td>5' 2&quot;</td>
<td>1' 9&quot;</td>
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<td>1' 9&quot;</td>
<td>4' 4&quot;</td>
<td>10&quot;</td>
</tr>
</tbody>
</table>

**Rev. 2 - 05/2017**

**Engineer:**

C. Phillip Waight, P.Eng. - 052-2001

**Plinth Foundation**

**Plan**

- View for TX. Sizes 250 - 500 kVA

**Electrical, Safety, & Construction**

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Corozal, Belize
Phone 501 624-8664; 668-2058
cpwaight23@gmail.com
Wireman License # Bz. 1000
Wireman category - Engineer
www.waightandassociates.com

**WFA4**

**E9.5**

**Sue Courtenay**

P. Arch, (APAB); LEED AP (GBCI)
Principal in Charge

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**Vividarch**

Architecture
www.vividarch.com

Belize City, Belize
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Tel: +501 223-5526

**Construction Administration Co. Ltd.**

All rights reserved.
1. All design complies with NEC, PUC and BEL standards and requirements
2. All installations shall be carried out in strict accordance with the requirements of PUC, BEL and NEC
3. All outlets and switches shall be flush mounted
4. All cables are to be run in either PVC or EMT conduits, whichever is applicable, according to the current applicable code
5. All wire sizes and specifications shall be in strict accordance with these drawings
6. All metal parts shall be properly bonded and grounded in accordance with the relevant codes
7. All service panels shall be controlled by a double breaker as specified in these drawings
8. All service panels shall be sized as indicated in these drawings
9. All conduits required shall be properly secured in position before structural concrete is placed to ensure that concrete does not gain entry during concreting operations
10. All circuits breakers shall be sized in strict accordance with these drawings
11. All installation shall be carried out by, or done under the supervision of trained, licensed personnel as required by the Public Utilities Commission
12. All cable runs are to be installed in one continuous length. Under NO CONDITIONS will any type of joints be allowed. All connections shall be made at switches, outlets, or lights.
13. All materials for the installation shall be new, UL listed, and from the same manufacturer
14. All installation shall be carried out by, or done under the supervision of trained, licensed personnel as required by the Public Utilities Commission
15. Any discrepancies found in these drawings shall be reported to the Engineer of record, whose determination as to the true intention of the drawings shall be final
16. These drawings shall not be scaled. Any additional information or clarification required shall be obtained from the Engineer of record
17. All trenching must be a minimum of 24”
18. All outdoor, kitchen and bathroom receptacles shall be GFCI, 20 A
19. All outdoor receptacles and switches shall have weather proof covers
20. Conduits are to be sized as per NEC requirements
21. All underground conduits shall be Sch 40 or thicker
22. Couplings and fittings shall be Sch 40 or thicker
23. Conduit & Cables must meet NEC requirements
24. Plumbing elbows are not acceptable, all elbows must be long sweep
25. Underground conduits shall be buried to a depth of 18” minimum below grade
26. Underground conduits shall be laid on a 6” sand bed and covered by a 6” sand bed
27. Identification marking PVC special purpose tape shall be placed 12” below grade.
28. All metal equipment shall be equipotentially grounded with the earth system
29. Ground Rod shall be a minimum of 8’ 0” long and shall be completely buried
30. A ground resistance of approximately 10 ohms or less shall be achieved
31. As per NEC, the Neutral and the Ground shall only be bonded at the Panel
32. All circuits breakers shall be sized in strict accordance with the requirements of the NEC, black - live, white - neutral , green - ground
33. Colour Tape identification shall only be allowed for conductors larger than #6 AWG in which case the cable colour shall be black, and identified with colour tapes
34. Distribution Breaker Panel shall be placed in an unobstructed area at a maximum height of 6 feet 6 inches to the top of the Panel Board from floor level and shall not be placed in Bathrooms or Laundry rooms
35. The minimum space in front of a Breaker Distribution Panel shall not be less than 36 inches and shall be such as to allow the Panel door to be open at 90 degrees
36. The minimum horizontal space required for Breaker Distribution Panel shall not be less than 30 inches or the width of the Panel, if width is larger than 30 inches.
37. Switches shall be placed 48” above f.f.l. and receptacles shall be placed 18” above f.f.l. and 45” above f.f.l for counter top receptacles
38. All lighting branch circuit shall be #12 AWG type THHN or T HHW unless otherwise directed

SWITCHES & POWER SCHEDULE

<table>
<thead>
<tr>
<th>Description</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telephone Point</td>
<td></td>
</tr>
<tr>
<td>Cable T.V. Outlet</td>
<td></td>
</tr>
<tr>
<td>Network Cable (Cat 6) Cable Point</td>
<td></td>
</tr>
<tr>
<td>Distribution Panel, 200 A or 100 A - 1ph 120/240 V, 24/32/40 circuit, mounted 5’6” above FFL</td>
<td></td>
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<tr>
<td>Power Transformer</td>
<td></td>
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<tr>
<td>22 kV - 480V</td>
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<tr>
<td>Dry Transformer</td>
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<tr>
<td>480V - 120/208V</td>
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<tr>
<td>Automatic Transfer switch</td>
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<tr>
<td>Disconnect Switch</td>
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<tr>
<td>Breaker</td>
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<tr>
<td>Timer Switch</td>
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<tr>
<td>Electrical Connection - Power source available</td>
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<tr>
<td>Diesel Generator</td>
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<tr>
<td>Current Transformer</td>
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<tr>
<td>Watthour Meter</td>
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<tr>
<td>Thermostat</td>
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<tr>
<td>Ground</td>
<td></td>
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<tr>
<td>Explosion Proof Seal</td>
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<tr>
<td>Explosion Proof J Box</td>
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<tr>
<td>SAFETY SWITCH (DISCONNECT WITH FUSE) 480V</td>
<td></td>
</tr>
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</table>
GROUNDING BUS BAR SYSTEM

24" Cu Erico Grounding Bus Bar
- all equipment panels and breaker shall be grounded to it

THIS IS THE SAME GROUNDING SYSTEM AS THAT OF THE HOC.
ONLY ONE SYSTEM SHALL BE INSTALLED. RESISTANCE SHOULD BE A MAXIMUM OF 5Ω.
ALL GROUND MUST BE TIED INTO THE ONE GRID.
SERVICE ENTRANCE DETAILS

DRY TRANSFORMER PLINTH DETAILS

CAT 6 - COMMUNICATION CABLE

2" WEATHER HEAD

2" GALVANIZED 2" PIPE

3' 8" 0"

18' 0"

15' 0"

5' - 5"

3' - 6" Sq

Junction Box for cable connection

3' - 6" Sq

2" Galvanized Pipe

PLAN FOR PLINTH

PLAN FOR PLINTH

COLUMNS SECTION

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

6#4 Bars w/ #3 @ 8" c/c

R.C. COLUMN 12"X12"

#3 Stirrups 8" c/c

#3 Stirrups 8" c/c

3'-0"

GRADE

GRADE

2" Galvanized Pipe

5' - 5"

18' 0"

8' 0"

8' GALVANIZED 2" PIPE

2" WEATHER HEAD

CAT 6 - COMMUNICATION CABLE

PIVES IN BOTH COMPARTMENTS

CABLE COMPARTMENTS

TX. DOORS

5'-10"

90° LONG SWEEP ELBOWS TO

3'-0"

8"

6"

6"

CABLE TRENCH

OPENING IN R.C. SLAB

PLAN FOR PLINTH

PLINTH FOUNDATION PLAN

6" CONC. BLOCKS FILLED SOLID WITH CONC. AND REINFORCED WITH 18 1/2" Ø BAR EVERY 12" O.C.

PLINTH DIMENSIONS

APPROVED FOR CONSTRUCTION

(ALL DIMENSIONS ARE IN INCHES AND FEET)

<table>
<thead>
<tr>
<th>Item</th>
<th>Width</th>
<th>Length</th>
<th>Height</th>
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E9.8