

GC = GENERAL CONTRACTOR  
SCM = SONNNYS (CARWASH INSTALLER)

11.16.05

## ELECTRICAL SPECIFICATIONS GENERAL CONTRACTOR

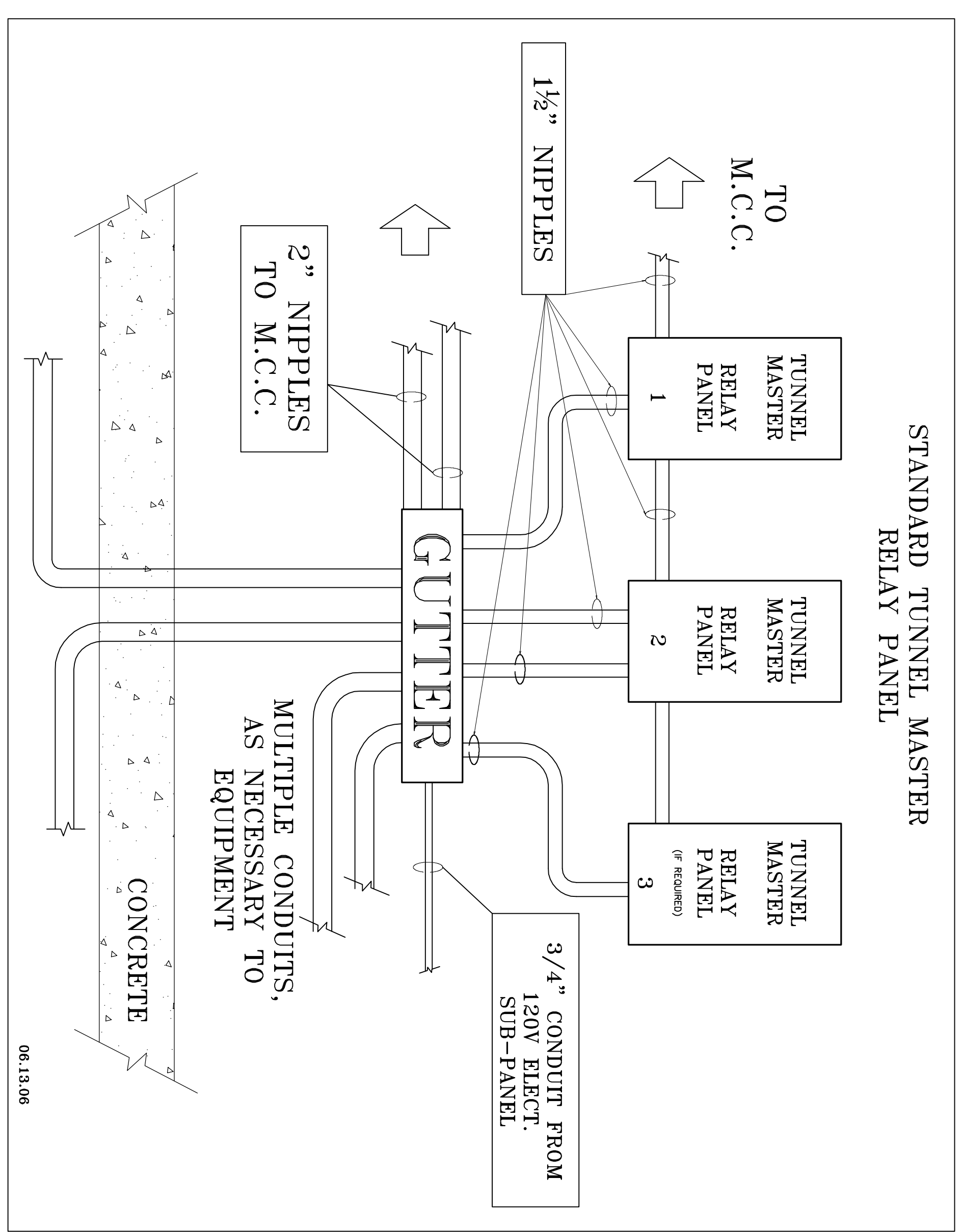
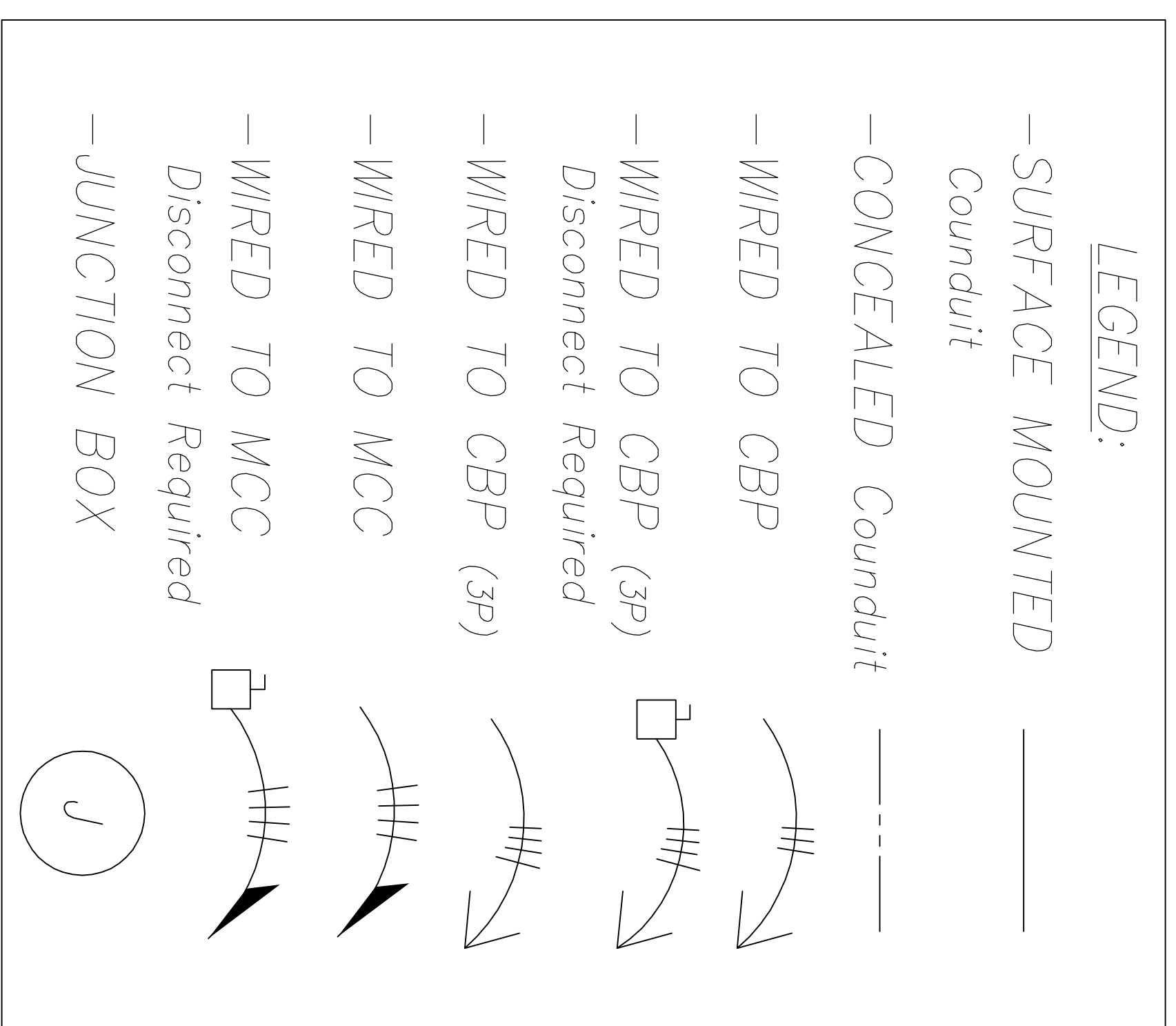
- A. GENERAL PROVISIONS**
- THE WORK SHALL CONSIST OF FURNISHING LABOR, EQUIPMENT, AND MATERIALS TO PROVIDE THE COMPLETE INTEGRATED AND PROPER FUNCTIONING SYSTEMS AS SHOWN ON THE DRAWINGS.
  - SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO, FURNISHING, INSTALLING AND TERMINATING ALL 3 PHASE, 1 PHASE, COMPUTER/CONTROL POWER PER THESE DRAWINGS, AND SONNNY'S INSTALLATION MANUALS.
  - ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AND ORDINANCES.
  - ALL EQUIPMENT AND MATERIALS PROVIDED SHALL BE NEW AND IN CONFORMANCE WITH APPLICABLE PROVISIONS OF N.E.M.A., A.N.S.I., U.L., ETC.
  - THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES SO AS TO AVOID INTERFERENCE.
  - THE DRAWINGS ARE DIAGRAMATIC AND INDICATE GENERAL LAYOUT OF ELECTRICAL SYSTEMS. FIELD VERIFICATIONS OF DIMENSIONS IS DIRECTED.
  - SECURE PERMITS AND INSPECTIONS REQUIRED BY STATE AND LOCAL LAWS AND ORDINANCES.
  - UPON COMPLETION OF THE WORK, FURNISH TO THE OWNER CERTIFICATES OF FINAL INSPECTIONS AND APPROVALS FROM AUTHORITIES HAVING JURISDICTION.
  - ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
- B. RACEWAYS**
- ALL WIRING SHALL BE INSTALLED IN APPROVED RACEWAYS UNLESS OTHERWISE INDICATED.
  - MINIMUM CONDUIT SIZE SHALL BE 1/2" TRADE SIZE.
  - USE FLEXIBLE CONDUIT FOR SHORT FINAL CONNECTIONS TO VIBRATING EQUIPMENT SUCH AS MOTORS AND TRANSFORMERS. LIQUID-TIGHT FLEXIBLE CONDUIT SHALL BE USED IN DAMP AND WET LOCATIONS. ALL BLOWERS CONNECTION MUST HAVE 2" SERVICE DRIP LOOP TO ALLOW MOVEMENT OR MAINTENANCE. FLEXIBLE CORDS SHALL BE USED WHERE CALLED FOR ON THE PLANS.
  - EXPOSED CONDUITS SHALL BE RUN PARALLEL TO BUILDING LINES.
  - DO NOT INSTALL CONDUITS LARGER THAN 1/3 THE SLAB THICKNESS IN CONCRETE SLABS.
  - PROVIDE APPROVED FIRE STOPPING MATERIALS AT ALL PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS TO PREVENT THE PASSAGE OF SMOKE, FIRE, TOXIC GAS OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING, OR AFTER A FIRE, AS REQUIRED BY ARTICLE 300-21 OF THE N.E.C.
  - PROVIDE CABLE SUPPORTS IN ACCORDANCE WITH ARTICLE 300 OF THE N.E.C.
  - PROVIDE EXPANSION FITTINGS IN CONDUIT RUNS CROSSING STRUCTURAL EXPANSION JOINTS.
- C. CONDUCTORS**
- ALL WIRING SHALL BE COPPER.
  - CONDUCTORS SHALL BE RATED 600V WITH TYPE THWN/THHN INSULATION.
  - WIRES SHALL BE STRANDED CONDUCTOR
- D. CONNECTORS**
- ALL WIRE CONNECTIONS FOR 10HP MOTORS OR LARGER MUST BE SPLIT BOLT CONNECTORS OR EQUIVALENT APPROVED BY N.E.C AND/OR MANUFACTURER.
- E. LIGHTING PANELS**
- PROVIDE LIGHTING PANELS AS INDICATED ON THE PLANS AND AS SPECIFIED HEREIN. ALL PANELS SHALL BE DEAD FRONT, CIRCUIT BREAKER TYPE, AND SHALL BEAR THE U.L. LABEL AS WELL AS MEET ALL APPLICABLE NEMA REQUIREMENTS.
  - UNLESS OTHERWISE NOTED, TOP OF PANELS SHALL BE MOUNTED 6'-0" A.F.F.
  - ALL PANELS SHALL HAVE TYPEWRITTEN CIRCUIT DIRECTORIES MOUNTED INSIDE OF DOOR.
  - PANELS SHALL BE SUITABLE FOR THE SERVICE RATING AND THE A.I.C. RATING INDICATED ON THE PANEL SCHEDULES.
  - ALL BREAKERS SHALL BE FULL SPACE, INDIVIDUAL FRAME TYPE, NO "PIGGYBACK" OR TANDEM BREAKERS WILL BE PERMITTED.
- F. SAFETY SWITCHES**
- SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE NON-FUSIBLE WITH POLES, AMPERE AND SERVICE RATINGS AS INDICATED ON THE PLANS. LUGS SHALL BE U.L. LISTED FOR CU-AL.
  - ENCLOSURES FOR SAFETY SWITCHES SHALL BE NEMA 1, EXCEPT FOR SWITCHES MARKED "WP" (WEATHERPROOF) SHALL BE NEMA 4X.
- 2.A ( ) - DISCONNECTS TO BE MOUNTED IN TUNNEL OR OTHER AREAS NOT WITHIN 50 LF. OR L.O.S. OF MCC IN CONFORMANCE WITH N.E.C. AND/OR LOCAL CODES. ALSO TO BE TYPE 4X NON-METALLIC ENCLOSURES, NON-FUSED SIZED FOR LOAD. DISCONNECTING MEANS SHALL NOT BE REQUIRED WHERE SUCH A LOCATION OF THE DISCONNECTING MEANS IS IMPRACTICABLE OR INTRODUCES ADDITIONAL OR INCREASED HAZARDS TO PERSON OR PROPERTY. N.E.C. (ARTICLE 430.102-B-o)

**NOT FOR CONSTRUCTION UNTIL APPROVED BELOW.**

APPROVED BY: \_\_\_\_\_ DATE \_\_\_\_\_

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**CWP-06370-B11-RAINFOREST-HATT.**

SCALE: N.T.S. LOCATION: LA

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| <p><b>DIVISION OF WORK/LEGEND</b></p> <p><b>ELECTRICAL</b></p>                                      |  | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DATE:</td> <td>11.06.06</td> </tr> <tr> <td>REVISION DATE:</td> <td>06.18.13</td> </tr> <tr> <td>CREATED BY:</td> <td>LV</td> </tr> <tr> <td>REVISED BY:</td> <td>JCH</td> </tr> <tr> <td>CHECKED BY:</td> <td>Luis V.</td> </tr> </table> | DATE: | 11.06.06 | REVISION DATE: | 06.18.13 | CREATED BY: | LV | REVISED BY: | JCH | CHECKED BY: | Luis V. |
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| CHECKED BY:   | Luis V.   |  |       |          |                |          |             |    |             |     |             |         |
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