A. GENERAL NOTES:

1. CONSTRUCTION SHEETS MUST BE UP TO DATE AS PER CONTRACTOR’S REQUIREMENTS.
2. ALL CONSTRUCTION WORK MUST MEET THE REQUIREMENTS OF THIS SHEET.
3. ALL WORK PERMITS MUST BE UP TO DATE AND ACCORDINGLY, ALL WORK MUST BE SURVEYED AND APPROVED.
4. CONSTRUCTION SHEETS MUST BE UPDATED WITH ANY NEW INFORMATION OR CHANGES.
5. ALL WORK MUST BE COMPLETED IN ACCORDANCE WITH THE CONTRACT.
6. ALL WORK MUST BE UP TO DATE AS OF THE CONTRACT START DATE.

B. CONCRETE AND CONCRETE BLOCKS:

1. ALL CONCRETE AND CONCRETE BLOCKS MUST BE UP TO DATE AS PER CONTRACTOR’S REQUIREMENTS.
2. ALL CONCRETE AND CONCRETE BLOCKS MUST BE MEET THE REQUIREMENTS OF THIS SHEET.
3. ALL WORK MUST BE SURVEYED AND APPROVED.
4. ALL WORK MUST BE COMPLETED IN ACCORDANCE WITH THE CONTRACT.
5. ALL WORK MUST BE UP TO DATE AS OF THE CONTRACT START DATE.

C. LAYOUT:

1. ALL LAYOUTS MUST BE UP TO DATE AS PER CONTRACTOR’S REQUIREMENTS.
2. ALL LAYOUTS MUST MEET THE REQUIREMENTS OF THIS SHEET.
3. ALL LAYOUTS MUST BE SURVEYED AND APPROVED.
4. ALL LAYOUTS MUST BE COMPLETED IN ACCORDANCE WITH THE CONTRACT.
5. ALL LAYOUTS MUST BE UP TO DATE AS OF THE CONTRACT START DATE.

D. MASONRY AND CONCRETE BLOCKS:

1. ALL MASONRY AND CONCRETE BLOCKS MUST BE UP TO DATE AS PER CONTRACTOR’S REQUIREMENTS.
2. ALL MASONRY AND CONCRETE BLOCKS MUST MEET THE REQUIREMENTS OF THIS SHEET.
3. ALL WORK MUST BE SURVEYED AND APPROVED.
4. ALL WORK MUST BE COMPLETED IN ACCORDANCE WITH THE CONTRACT.
5. ALL WORK MUST BE UP TO DATE AS OF THE CONTRACT START DATE.

E. DESIGN CRITERIA:

1. ALL DESIGN CRITERIA MUST BE UP TO DATE AS PER CONTRACTOR’S REQUIREMENTS.
2. ALL DESIGN CRITERIA MUST MEET THE REQUIREMENTS OF THIS SHEET.
3. ALL WORK MUST BE SURVEYED AND APPROVED.
4. ALL WORK MUST BE COMPLETED IN ACCORDANCE WITH THE CONTRACT.
5. ALL WORK MUST BE UP TO DATE AS OF THE CONTRACT START DATE.

TABLE OF LAP SPACES AND ANCHORAGE LENGTH:

<table>
<thead>
<tr>
<th>Lap Space (in)</th>
<th>Minimum Lap Length (in)</th>
<th>Maximum Lap Length (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>18</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>24</td>
<td>24</td>
<td>24</td>
</tr>
</tbody>
</table>

F. HOOK DIMENSIONS:

<table>
<thead>
<tr>
<th>Hook Size</th>
<th>3/8&quot; Diameter</th>
<th>1/2&quot; Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>1-1/2&quot;</td>
<td>2-1/2&quot;</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>2-1/2&quot;</td>
<td>3-1/2&quot;</td>
</tr>
</tbody>
</table>

G. FOUNDATION:

1. FOUNDATION IS DESIGNED FOR AN ALLEVIATING DUAL BEARING CAPACITY OF 1000PSI.
2. FOUNDATION SHALL BE STRENGTHENED WITH STEEL CONCreTE CHAR AND GRANULAR.
3. THE FOUNDATION SHALL BE STRENGTHENED WITH STEEL CONCreTE CHAR AND GRANULAR.
4. THE FOUNDATION SHALL BE STRENGTHENED WITH STEEL CONCreTE CHAR AND GRANULAR.
5. THE FOUNDATION SHALL BE STRENGTHENED WITH STEEL CONCreTE CHAR AND GRANULAR.
## SCHEDULE OF SLABS

<table>
<thead>
<tr>
<th>SLAB MARK</th>
<th>Bars along Short Span (sq.in.)</th>
<th>Bars along Long Span (sq.in.)</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1</td>
<td>#3 @ 10&quot; MAIN BARS</td>
<td>#3 @ 12&quot; TEMP BARS</td>
<td>1-WAY</td>
</tr>
<tr>
<td>S2</td>
<td>#4 @ 8&quot; BENT UP 2 OF 3 W/#10&quot; EXTRA TOP BAR @ DISCONTINUOUS EDGE</td>
<td>#4 @ 10&quot; BENT UP 2 OF 3 W/#12&quot; EXTRA TOP BAR @ DISCONTINUOUS EDGE</td>
<td>2-WAY</td>
</tr>
</tbody>
</table>
### SCHEDULE OF COLUMNS

<table>
<thead>
<tr>
<th>COLUMN MARK</th>
<th>FOOTING TO ROOF</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td><img src="image1" alt="Diagram" /></td>
</tr>
<tr>
<td>C2</td>
<td><img src="image2" alt="Diagram" /></td>
</tr>
<tr>
<td>C3</td>
<td><img src="image3" alt="Diagram" /></td>
</tr>
<tr>
<td>C4</td>
<td><img src="image4" alt="Diagram" /></td>
</tr>
<tr>
<td>C5</td>
<td><img src="image5" alt="Diagram" /></td>
</tr>
</tbody>
</table>

**NOTE:** $f'_c = 4,000$ psi  
Compaction requirement © base/subbase course is 95% compaction density.

### SCHEDULE OF BEAMS

<table>
<thead>
<tr>
<th>BEAM MARK</th>
<th>B X H in x in.</th>
<th>Bars at Support</th>
<th>Bars at Midspan</th>
<th>#3 dia. Ties/Stirrups Spacing</th>
<th>BAR ARRANGEMENT SUPPORT</th>
<th>MIDSPAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-1</td>
<td>12&quot; X 12&quot;</td>
<td>3-#5 Top &amp; Bottom</td>
<td>3-#5 Top &amp; Bottom</td>
<td>1 @ 2&quot; 2 @ 4&quot; Rest @ 8&quot;</td>
<td><img src="image6" alt="Diagram" /></td>
<td><img src="image7" alt="Diagram" /></td>
</tr>
<tr>
<td>RB-1</td>
<td>12&quot; X 14&quot;</td>
<td>5-#5 Top &amp; Bottom</td>
<td>3-#5 Top</td>
<td>5-#5</td>
<td>1 @ 2&quot; 2 @ 4&quot; Rest @ 8&quot;</td>
<td><img src="image8" alt="Diagram" /></td>
</tr>
<tr>
<td>RB-2</td>
<td>12&quot; X 12&quot;</td>
<td>4-#5 Top &amp; Bottom</td>
<td>2-#5 Top &amp; Bottom</td>
<td>4-#5</td>
<td>1 @ 2&quot; 2 @ 4&quot; Rest @ 8&quot;</td>
<td><img src="image10" alt="Diagram" /></td>
</tr>
<tr>
<td>RB-3</td>
<td>12&quot; X 22&quot;</td>
<td>8-#5 Top &amp; Bottom</td>
<td>6-#5 Top &amp; Bottom</td>
<td>8-#5</td>
<td>1 @ 2&quot; 2 @ 4&quot; Rest @ 8&quot;</td>
<td><img src="image12" alt="Diagram" /></td>
</tr>
<tr>
<td>RB-4</td>
<td>10&quot; X 10&quot;</td>
<td>2-#5 Top &amp; Bottom</td>
<td>2-#5 Top</td>
<td>2-#5</td>
<td>1 @ 2&quot; 2 @ 4&quot; Rest @ 8&quot;</td>
<td><img src="image14" alt="Diagram" /></td>
</tr>
<tr>
<td>LB-1</td>
<td>8&quot; X 10&quot;</td>
<td>2-#4 Top &amp; Bottom</td>
<td>2-#4 Top</td>
<td>2-#4</td>
<td>1 @ 2&quot; 2 @ 4&quot; Rest @ 8&quot;</td>
<td><img src="image16" alt="Diagram" /></td>
</tr>
</tbody>
</table>

### SCHEDULE OF FOOTINGS

<table>
<thead>
<tr>
<th>FOOTING MARK</th>
<th>L</th>
<th>W</th>
<th>T</th>
<th>'S' BARS</th>
<th>'L' BARS</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1</td>
<td>3'0&quot;</td>
<td>3'0&quot;</td>
<td>12&quot;</td>
<td>6 - #5</td>
<td>6 - #5</td>
<td>SQUARE</td>
</tr>
<tr>
<td>F2</td>
<td>4'2&quot;</td>
<td>4'2&quot;</td>
<td>1'8&quot;</td>
<td>12 - #5</td>
<td>12 - #5</td>
<td>SQUARE</td>
</tr>
<tr>
<td>F3</td>
<td>2'6&quot;</td>
<td>2'6&quot;</td>
<td>12&quot;</td>
<td>5 - #5</td>
<td>5 - #5</td>
<td>SQUARE</td>
</tr>
</tbody>
</table>
GENERAL NOTES & SPECIFICATIONS


2. ALL EQUIPMENT & MATERIALS SHALL BE IN U.L. LISTED WHERE LISTING IS AVAILABLE FOR THAT TYPE OF EQUIPMENT OR CONFORMS TO ANSI OR REEKA STANDARDS.

3. WORKMENSHIPS SHALL CONFORM TO CONSTRUCTION PRACTICES RECOMMENDED BY THE AMERICAN ELECTRICIANS HANDBOOK BY CROFT (LATEST EDITION) & SHALL BE SUBJECT TO THE APPROVAL OF THE AGENCY WHO HAS THE JURISDICTION & THE ENGINEER.

4. ANY DEVICE MAY BE LOCATED WITHIN TEN FEET OF THE LOCATION SHOWN ON THE DRAWING PRIOR TO INSTALLATION AT THE DIRECTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

5. METALLIC EXCLUDERS, RACEWAYS & ELECTRICAL EQUIPMENT SHALL BE GROUNDED ACCORDING TO THE REQUIREMENTS OF NEC ARTICLE 250. PROVIDE GROUND WIRE IN EVERY RUN OF WIRE. REFER TO NEC TABLE 250-95. OBTAIN & PAY FOR PERMITS & ARRANGE & PAY FOR CONSTRUCTION UTILITIES.

6. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EQUIPMENT REQUIREMENTS & PROVIDE ALL VENTING & PROTECTION REQUIRED.

7. CONDUIT SHALL BE EMT (DRIY LOCATIONS CONCEALED ABOVE GRATE, PVC EMAS IN CONCRETE & BELOW GRATE). ALUMINUM EXPOSED INSTALLATION FLEXIBLE CONDUIT SHALL BE JACKETED TYPE & ACCORDING TO NEC ARTICLE 350.

8. WIRING SHALL BE IN ALUM CORRUGATED, THHN, THWN, OR THW, 600 V. CONDUCTORS SHALL BE COPPER.

9. PANEL BOARD SHALL BE COMPLETE WITH BUS, ENCLOSURE & TRIM, COMPLETE OF MOLDED PLASTIC CASE CIRCUIT BREAKERS (BOLT ON TYPE), WITH RATINGS AS INDICATED & COMPLETE TYPE CIRCUIT DISTRIBUTION.

10. TEST & TEST IN THE PRESENCE OF ENGINEER RESULTS SUBMITTED FOR APPROVAL BY THE ENGINEER.

a. OPERATION TEST
b. INSULATION RESISTANCE TEST
c. GROUND RESISTANCE TEST

11. ANY UNGROUNDING IN LOCATIONS & RATINGS OF EQUIPMENT & APPARATUS SHALL BE VERIFIED WITH THE OWNER OR ANY OF HIS REPRESENTATIVES & CHANGES SHALL BE MADE ACCORDINGLY.

12. FOR EACH PERIPHERAL CIRCUIT IN PANEL BOARD PROVIDE 3000 VOLTAGE CONDUIT TERMINATED TO 4" OCTAGONAL BOX ABOVE CEILING.

13. PROVIDE GA. 16-G.L. PULL WIRES IN ALL SPARE DUCT & EMPTY CONDUITS.

CONDUIT ON BOX INSTALLATION DETAIL

BOX CONNECTION DETAIL

LEGEND & SYMBOLS

WIRE NUT (TYPICAL)

METALLIC FLEXIBLE CONDUIT

COLOR CODED WIRES AND CABLES

JUNCTION, UTILITIES, SQUARE OR PULLBOXES GA. 16

VICTORY MAP

BOX CONNECTION DETAIL
LIGHTING LAYOUT
CONDUIT RUN FOR LIGHTING DISTRIBUTION IN ONE CIRCUIT
(FOR EXPOSED OR INSIDE DROP-CEILING INSTALLATION)

NOTE:
PROVIDE BLANK COVER ON ALL JUNCTION BOXES
WATER METE DETAIL

Provide 4" thk. bedding material all around pipe.

WATER MAIN

FLARED COPPER COUPLING COPPER TO WALL IRON PIPE THREAD

BRASS UNION

CORPORATION STOP W/ "AWWA" TAPER THREAD INLET IRON PIPE THREAD OUTLET

DOUBLE STRAP SERVICE CLAMP

WATER LINE DETAIL

WATERLINE TAPPING CONNECTION

EXISTING WATER LINE, ASSUMED

NEW UNION

NEW 1-1/2" WATER LINE

NEW 1-1/2" ELBOW

NEW 1-1/2" GATE VALVE

LENGTH OF PIPE

GROUND CLEANOUT DETAIL

PIPE LENGTH AS REQUIRED

1/8" BEND OR WYE (WHERE REQUIRED)

CONCRETE COLLAR

COUNTER SUNK PLUG (BRASS)

IRON BUSHING (SHRUNK)

1/8" BLIND

LEAD & CORKUM CALKING

FIN. GRADE

WATER SERVICE LATERAL

SLOPE