O ETATS

GENERAL NOTES

1. THE CONTRACTOR SHALL PROJECT ALL ITEMS NOT SPECIFIED FOR DEMOLITION DURING CONSTRUCTION. DISTURBED AREAS SHALL BE RETURNED TO PRE-CONSTRUCTION CONDITIONS.

2. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONSULT WITH THE APPROPRIATE UTILITY ORGANIZATIONS TO VERIFY AND LOCATE UTILITIES PRIOR TO CONSTRUCTION SEE TABLE 3.1. BEFORE YOU GIVE CONTACT INFORMATION ON THIS SHEET.

3. THIS IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE APPROPRIATE TEMPORARY UTILITY LINES AND SHADING FOR EXISTING AND PLANNED FOR SITE UTILITIES, GROUNDWATER, AND SURROUNDING CONDITIONS AND TO CONTACT THE CORRECT ENTITY FOR PLANNING CONSTRUCTION TO ENSURE THAT EXISTING UTILITIES ARE NOT DAMAGED.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE EXISTING FACILITY OPERATORS, OTHER CONTRACTORS, SUBCONTRACTORS, THE CITY AND STATE DEPARTMENT OF ENGINEERING SERVICES.

5. THE DRAWINGS ARE DRAWN TO SCALE AND DO NOT NECESSARILY SHOW ALL FEATURES OF THE DRAWING. PROVIDE ALL HARDWARE, EQUIPMENT, AND MATERIALS AS SPECIFIED IN THE CONTRACT DOCUMENTS AND SPECIFICATION, IF APPLICABLE.

6. ALL FEATURES OF THE WORK ARE NEU AND TO BE COMPLETED AND INSTALLED UNDER THE CONTRACTOR'S SUPERVISION.

7. THE SPECIFICATIONS OR ANY NAME BRAND PRODUCT FOLLOWED BY THE "TOP Issue" MARKS IT IS NECESSARY TO ENSURE THAT THE MINIMUM LEVEL OF QUALITY, MATERIALS, AND EQUIPMENT USED IS NOT LESS THAN THE REQUIREMENTS SPECIFIED IN THE CONTRACT DOCUMENTS.


9. THE CONTRACTOR SHALL PROVIDE STORAGE SPACE ON THE SITE FOR STORAGE OF MATERIALS AND TOOLS.

10. THE CONTRACTOR SHALL PROVIDE STORAGE SPACE ON THE SITE FOR STORAGE OF MATERIALS AND TOOLS.

11. ALL OUTPUT SUPPORTS ARE SHOWN TO BE SHARED AS A MAXIMUM OF 10% OF THE CONTRACT AMOUNT.

12. DURABILITY AND STRENGTH ARE SPECIFIED TO BE MEETED AT THE DATE OF CONSTRUCTION.

13. THE CONTRACTOR SHALL MAINTAIN A "RECORD" SET OF DRAWINGS TO REFLECT FIELD CHANGES THROUGHOUT CONSTRUCTION. RECORD CONSTRUCTION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AT THE END OF THE PROJECT.

14. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ENGRAVING ENGINEER'S SPECIFICATIONS, AND STATE AND LOCAL OCCUPATIONAL AND SAFETY REGULATIONS.

15. IN CASE OF ANY ARBITRARY, UNFORESEEN, OR CIRCUMSTANCES THAT ARE EXCEEDING THE STANDARD OF GOOD WORKMANSHIP, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGES OR COSTS INCURRED DUE TO SUCH CIRCUMSTANCES.

ALL WORK ON THIS SHEET IS INCLUDED IN THE ON-SITE CONTRACT.
SEQUENCE OF CONSTRUCTION

1. CLEAR AND GRADE EXISTING GROUND IN ACCORDANCE WITH PROPOSED FOUNDATION PAD AND GRADING.

2. PROPERLY COMPACT EXISTING GROUND MINUS 5 IN. AT TIMES USING APPROVED VIBRATORY COMPACTORS.

3. EXCAVATE BELOW PROPOSED POWER PLANT FOUNDATION FOOTINGS AS SHOWN. PROPERLY COMPACT BOTTOM OF EXCAVATION. PLACE VENSON GEOTEXTILE AS SHOWN.

4. PLACE AND COMPACT CLASSIFIED FILL MATERIAL IN ACCORDANCE WITH THE SPECIFICATIONS. EXCULATED MATERIAL MAY NOT BE USED TO SATISFY CLASSIFIED FILL REQUIREMENTS.

5. CONSTRUCT PAD AND GRADING TO THE LINES AND GRADES SHOWN ON THE SITE/GRADING PLAN.
1. Tank shall be a new 3,142 gallons and labeled 80°F x 170°F (1-1/2 hours). Non-radiant, double wall, ASTME. See details.

2. Concrete tank footings shall be 2'-0" x 4'-0" larger than the tank. See sheet C2 for repair & tank anchorage details.

END ELEVATION - 6,000 GALLON DOUBLE WALL TANK

ELEVATION - 6,000 GALLON DOUBLE WALL TANK

ALL WORK ON THIS SHEET IS INCLUDED IN THE ON SITE CONTRACT.
1. **Ladder Fabrication**  
   Scale NTS

2. **Day Tank Supply Drop Tube & Actuator Valve Installation**  
   Scale NTS

3. **Typical Pipe Support Stand Off**  
   Scale NTS

4. **Clock Gauge and Stilling Well**  
   Scale NTS

5. **Water Draw**  
   Scale NTS

6. **Tank Foundation Detail**  
   Scale NTS

---

**NOTES:**

- **Ladder Fabrication**: Include the ladder dimensions and build instructions.
- **Typical Pipe Support Stand Off**: Specify the dimensions and materials for the stand-off system.
- **Clock Gauge and Stilling Well**: Include details on the installation and placement of the clock gauge.
- **Water Draw**: Specify the water draw system and pump details.
- **Tank Foundation Detail**: Include foundation requirements and specifications for the tank.

**DAY TANK SUPPLY DROP TUBE & ACTUATOR VALVE INSTALLATION**

- Install drop tube and actuator valve according to the manufacturer's instructions.
- Ensure proper alignment and connections.

---

**TYPICAL PIPE SUPPORT STAND OFF**

- Use reinforced plate or solid connection for stand-off support.
- Ensure proper stand-off height and stability.

---

**WATER DRAW**

- Designate water draw system and pump details.
- Include necessary piping and connections.

---

**TANK FOUNDATION DETAIL**

- Ensure proper foundation construction.
- Include drainage and reinforcement details.

---

**ALL WORK ON THIS SHEET IS INCLUDED IN THE ON SITE CONTRACT**
ALL WORK ON THIS SHEET WAS PERFORMED AS PART OF THE PRIOR MODULE ASSEMBLY CONTRACT AND IS SHOWN HERE FOR REFERENCE ONLY.
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MODULE FOUNDATION SYSTEM SHOWN THIS SHEET IS INCLUDED IN THE ON SITE CONTRACT.
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FIELD INSTALLED ROOF SYSTEM SHOWN THIS SHEET IS INCLUDED IN THE ON SITE CONTRACT.
ALL EQUIPMENT ON SCHEDULES THIS SHEET WERE FURNISHED AS PART OF THE PRIOR MODULE FABRICATION CONTRACT AND ARE SHOWN HERE FOR REFERENCE ONLY. FINAL TESTING AND COMMISSIONING OF THE MODULE IN ACCORDANCE WITH THE SEQUENCE OF OPERATIONS IS INCLUDED IN THE ON SITE CONTRACT.
ALL SIGNS AND TAGS ON SCHEDULES THIS SHEET WERE FURNISHED AS PART OF THE PRIOR MODULE FABRICATION CONTRACT AND ARE SHOWN HERE FOR REFERENCE ONLY EXCEPT AS NOTED. TAGS NOTED AS "O.S." ARE INCLUDED IN THE ON SITE CONTRACT.
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ALL FABRICATION WORK AND SOME INSTALLATION WORK ON THIS SHEET WAS PERFORMED AS PART OF THE PRIOR MODULE ASSEMBLY CONTRACT AND IS SHOWN HERE FOR REFERENCE ONLY. SEE SHOP/ON-SITE NOTES FOR DELINEATION OF WORK INCLUDED IN THE ON SITE CONTRACT.
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**ELECTRICAL EQUIPMENT SCHEDULE**

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<td>None (as per plan)</td>
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<tr>
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**ELECTRICAL CONDUCTOR SCHEDULE**

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**ELECTRICAL INSTRUMENTATION SCHEDULE**

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The above information indicates a technical drawing related to electrical equipment and conductors, likely for a building or facility project. The schedules listed detail various electrical components and their specifications, as well as their manufacturer or model details. The text notes that all equipment on schedules is furnished as part of the prior module fabrication contract and is shown here for reference only.
ALL WORK ON THIS SHEET IS INCLUDED IN THE ON SITE CONTRACT.
ALL WORK ON THIS SHEET WAS PERFORMED AS PART OF THE PRIOR MODULE ASSEMBLY CONTRACT AND IS SHOWN HERE FOR REFERENCE ONLY.
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1. SWITCHGEAR ENCLOSURE LAYOUT

2. GENERATOR CONTROL (GC) INTERFACE CONTROLS

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AKHIOK, ALASKA

ELECTRICAL DISTRIBUTION SYSTEM UPGRADE PROJECT
ISSUED FOR CONSTRUCTION
MARCH 2020
HORIZONTAL & VERTICAL CONTROL

HIGHCON ENGINEERING GROUP LLC (HIGHCON) CUST twenty-five (25) feet west of HIGHCON's northwest corner property line and measured with respect to the U.S. National Transportation System's Airway Tract III.

1. ALL POINTS, DISTANCES, AND ALL DIMENSIONS SHOWN ARE IN U.S. SURVEY FEET.

2. THE FIELD SURVEY AND MONUMENT RECOVERY WAS CONDUCTED BY HIGHCON ENGINEERING GROUP LLC ON AUGUST 27TH THROUGH 29TH, 2014.

3. THE FIELD SURVEY WAS PERFORMED BY HIGHCON'S GEOPROCESSING DIVISION. THE MONUMENT RECOVERY WAS PERFORMED BY HIGHCON'S LAND SURVEY DIVISION, WHICH WILL ISSUE THE SURVEY REPORT OFFICE NO. 2. THE SURVEY REPORT WILL BE ISSUED IN 10 BUSINESS DAYS.

4. A TITLE SEARCH WAS NOT PERFORMED. THE BACKGROUND LAND INFORMATION IS FROM RECORDS ON FILE AND IS SHOWN FOR ORIENTATION PURPOSES AND DOES NOT NECESSARILY MEET THE REQUIREMENTS OF THE REAL PROPERTY TITLE SEARCH. SEE RECORDS AND LAND DEEDS FOR EXACT PROPERTY INFORMATION.


LEGEND

- Survey Point
- Survey Monument
- Survey Monument with Number
- Survey Monument with Number and Description

HORIZONTAL CONTROL

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<td>Found 5/8&quot; Teadum on 5/8&quot; Alum. Rod</td>
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</tbody>
</table>

Basis of Coordinates:

The basis of the coordinate system is the U.S. National Geodetic Survey (NGS) VGS-93 system. The horizontal projection is the Transverse Mercator projection, and the vertical datum is the North American Vertical Datum of 1988 (NAVD88).
CABLE INSTALLATION IN ROAD, NO BEDROCK

CABLE INSTALLATION IN ROAD WITH BEDROCK

CABLE INSTALLATION OFF ROAD

NOTES:
1. Maintain minimum of 12 inches of separation between NTS and Trench. Separation can be vertical or horizontal.
2. Trench shall have a minimum of 22 inches deep at all locations.
3. All trenching and other excavations shall be lined and spaced in accordance with NTS standards.

NOTES:
1. Maintain minimum of 12 inches of separation between NTS and Trench. Separation can be vertical or horizontal.
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2. Trench shall have a minimum of 22 inches deep at all locations.
3. All trenching and other excavations shall be lined and spaced in accordance with NTS standards.
SEE E11.3 FOR MATCH LINE

1. All existing above ground primary and secondary distribution equipment to be de-energized unless otherwise noted. Any existing buried primary and secondary conductors encountered during construction shall also be de-energized. See specifications and sheet E11.1 for general construction requirements.

2. Existing distribution equipment to be removed from service in this area shown bold, including:
   - [List of equipment to be removed]

3. Electrical distribution license shall be:
   - [List of requirements for electrical distribution license]

4. Existing service equipment to remain in this area include:
   - [List of service equipment to remain]

5. Existing power plant at conclusion of project remains all equipment within the existing power plant, secure building and abandon in place.
ALL WORK IN THIS AREA SHALL BE PART OF ELECTRICAL DISTRIBUTION UPGRADE ADDITIVE ALTERNATE A.

EXISTING UTILITIES SHOWN IN THESE PLANS ARE BASED ON INFORMATION RECEIVED FROM LOCAL UTILITIES AND SHOULD BE CONFIRMED WITH LOCAL UTILITIES AND BE APPROVED BY OWNER PRIOR TO FINALIZING PLANS OR BEGINNING CONSTRUCTION. ELECTRICAL UTILITIES DAMAGE THAT MAY OCCUR AS A RESULT OF CONSTRUCTION ACTIVITIES MUST BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
AKHIOK DISTRIBUTION SYSTEM UPGRADE PROJECT

STAKING SHEETS

ISSUED FOR CONSTRUCTION
MARCH 2020

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD, STE. 300
ANCHORAGE, ALASKA 99503
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**AKHIOK DISTRIBUTION SYSTEM**

**UPGRADE PROJECT**

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**CRW ENGINEERING GROUP, LLC**

**ANCHORAGE, ALASKA**
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<th>LOCATION NUMBER</th>
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<th>SECONDARY SERVICE UNITS</th>
<th>SECONDARY BACKFEED UNITS</th>
<th>MISCELLANEOUS</th>
<th>REMARKS, COMMENTS, NOTES</th>
</tr>
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<tbody>
<tr>
<td>PED-68</td>
<td>3#10 JCN, CIC</td>
<td>420</td>
<td>UM33</td>
<td>2# TRIPLEX</td>
<td>100</td>
<td>1#40 TRIPLEX</td>
<td>2#JU-4</td>
<td>TWO SINGLE-PHASE SERVICES. SEE PLAN SHEET FOR SERVICE CONNECTION REQUIREMENTS.</td>
</tr>
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<td>420</td>
<td>UM33</td>
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<td>2#JU-4</td>
<td>SEE DETAIL ON PLAN SHEETS.</td>
</tr>
<tr>
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<td>350</td>
<td>UM1-7NC</td>
<td>2# TRIPLEX</td>
<td>410</td>
<td>1#40 TRIPLEX</td>
<td>2#JU-6</td>
<td>THREE SINGLE-PHASE SERVICES. SEE PLAN SHEET FOR SERVICE CONNECTION REQUIREMENTS.</td>
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<td>UM1-7NC</td>
<td>2# TRIPLEX</td>
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</tr>
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<td>2# DUELX</td>
<td>140</td>
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<td>2#JU-10</td>
<td>SEE DETAIL ON PLAN SHEETS. ONE SINGLE-PHASE SERVICE.</td>
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<td>2# DUELX</td>
<td>140</td>
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<td>2#JU-10</td>
<td>SEE DETAIL ON PLAN SHEETS. SINGLE PHASE SECTIOINAL CABINET.</td>
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<td>250</td>
<td>UM1-7NC</td>
<td>2# TRIPLEX</td>
<td>15</td>
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<td>1#JU-10</td>
<td>ONE SINGLE-PHASE SERVICE. SEE PLAN SHEET FOR SERVICE CONNECTION REQUIREMENTS.</td>
</tr>
</tbody>
</table>

**ADDITIVE ALTERNATE 3**

**STAKING SHEET NOTES:**
1. REFER TO THE DRAWINGS FOR PHYSICAL LAYOUT OF SYSTEM AND FOR ADDITIONAL NOTES OR ADDITIONAL INFORMATION. DETAILS OF DEMOLITION MAY NOT BE INCLUDED IN THE STAKING SHEETS. SEE PLAN DRAWINGS FOR ALL REQUIRED CONSTRUCTION ACTIVITIES AND COORDINATION.
2. RUS UNIT UKS SHALL BE A SINGLE-PHASE SECONDARY PEDESTAL WITHOUT A STAKE. SEE SPECIFICATIONS.
3. ALL TRANSFORMERS SHALL HAVE GROUND SLEEVES. SEE SPECIFICATIONS.
4. QUAD - QUADRUPLE UD CONDUCTOR. SEE SPECIFICATIONS.
   TRIPLEX - TRIPLEX UD CONDUCTOR. SEE SPECIFICATIONS.