## INDEX OF SHEETS

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### GENERAL NOTES:

1. CAUTION: UNDERGROUND UTILITIES EXIST WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION. A VARIETY OF UTILITY SERVICES ARE LOCATED IN THE AREA. ALTHOUGH THE OWNER/CONTRACTOR MAY HAVE CONTACTED UTILITIES, THEY MAY HAVE NOT CONTACTED ALL UTILITIES. THE CONTRACTOR SHALL ADJUST THEIR OPERATIONS AS REQUIRED TO PROTECT UTILITIES. ALL UTILITY LOCATIONS MAY BE CHANGED AT ANY TIME BASED ON UTILITIES' RESPONSES.

2. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY EARMARKING DEVICES AT THE REQUEST OF THE OWNERS. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE INSTALLATION AND REMOVAL OF EARMARKING DEVICES.

3. THE CONTRACTOR SHALL INSTALL ALL PREPAREDNESS MEASURES FOR ANY EMERGENCY SITUATIONS.

4. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY EARMARKING DEVICES AT THE REQUEST OF THE OWNERS. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE INSTALLATION AND REMOVAL OF EARMARKING DEVICES.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL MARKINGS WITHIN THE PROJECT LIMITS IN SUCH A MANNER THAT THE PUBLIC MAY EASILY IDENTIFY THE PROJECT AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND REMOVAL OF EARMARKING DEVICES.

6. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY EARMARKING DEVICES AT THE REQUEST OF THE OWNERS. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE INSTALLATION AND REMOVAL OF EARMARKING DEVICES.

7. ALL BRIDGE DETAILS SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER. THE CONTRACTOR SHALL INSTALL ALL NECESSARY EARMARKING DEVICES AT THE REQUEST OF THE OWNERS. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE INSTALLATION AND REMOVAL OF EARMARKING DEVICES.

8. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY EARMARKING DEVICES AT THE REQUEST OF THE OWNERS. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE INSTALLATION AND REMOVAL OF EARMARKING DEVICES.

9. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY EARMARKING DEVICES AT THE REQUEST OF THE OWNERS. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE INSTALLATION AND REMOVAL OF EARMARKING DEVICES.

10. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY EARMARKING DEVICES AT THE REQUEST OF THE OWNERS. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE INSTALLATION AND REMOVAL OF EARMARKING DEVICES.

11. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY EARMARKING DEVICES AT THE REQUEST OF THE OWNERS. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE INSTALLATION AND REMOVAL OF EARMARKING DEVICES.

12. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY EARMARKING DEVICES AT THE REQUEST OF THE OWNERS. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE INSTALLATION AND REMOVAL OF EARMARKING DEVICES.

13. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY EARMARKING DEVICES AT THE REQUEST OF THE OWNERS. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE INSTALLATION AND REMOVAL OF EARMARKING DEVICES.

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16. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY EARMARKING DEVICES AT THE REQUEST OF THE OWNERS. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE INSTALLATION AND REMOVAL OF EARMARKING DEVICES.
TYPICAL SECTION GENERAL NOTES

1. REFER TO CROSS SECTIONS FOR DEVIATIONS FROM NORMAL SLOPES, NO CHANGES SHALL BE MADE WITHOUT THE APPROVAL OF THE ENGINEER.

2. THE THICKNESS OF AGGREGATE BASE COURSE SHALL BE WITHIN PLUS OR MINUS ONE INCH OF THE PLANNED THICKNESS SHOWN. THE CONTRACTOR MUST CORRECT ANY DEFICIENCY THAT DOES NOT EXCEED TOLERANCES PERMITTED, PAYMENT WILL NOT BE MADE FOR MATERIAL, PLACED IN EXCESS OF THE TOLERANCES INDICATED.

3. THE EXISTING ASPHALT PAVEMENT TO BE REMOVED SHALL BE SEPARATED FROM VXING ASH ALONG A NEAT LINE. AFTER REMOVING, THE PAINT TO BE REMOVED SHALL BE CAREFULLY REMOVED, IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT REMAINS. ANY DAMAGE TO THE ASPHALT PAVEMENT THAT REMAINS IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

4. THE TRAIL PAVEMENT SECTIONS SHALL CONSIST OF A MINIMUM 7.5" ASH-MIXED SURFACE COURSE (1:17.5) PLUS MINIMUM 3" OF CLASS F AGGREGATE BASE COURSE PER THE CITY OF CONWAY STANDARD DETAILS, SHEET T-9, ASPHALT TRAIL DETAIL.

5. FOUR INCHES OF TOPSOIL AND SOIL SEDIMENT SHALL BE PLACED ON FINISHED SLOPES FOR ALL DISTURBED AREAS WITHIN THE LIMITS OF THE EXISTING RIGHT OF WAY. EXISTING BASEMENT, PROPOSED BASEMENT, ALL TEMPORARY CONSTRUCTION EMBARASS AS DIRECTED BY THE ENGINEER.

6. TRAIL SECTIONS OUTSIDE THE LIMITS OF THE PROPOSED MECHANICALLY SLOPED EMBANKMENT WALLS AND EXISTING TRAIL SHALL BE UNEVEN M1.5 AS DIRECTED BY THE ENGINEER, TRAIL UNEVEN AND BACKFILL SHALL BE PAID FOR UNDER THE ITEM "UNDERCUT EXCAVATION AND BACKFILL", SEE TECHNICAL SPECIFICATION "SECTION C-12: EXCAVATION AND EMBANKMENT" FOR DETAILS.
EROSION CONTROL NOTES

1. THE SYMBOLS SHOWN IN THE SHEET REPRESENT EROSION CONTROL DEVICES AS DETAILED IN THE ARDOT STANDARD DRAWING DRAWING. THESE SYMBOLS ARE NOT TO SCALE AND REPRESENT THE GENERAL LOCATION TO WHICH THE DEVICES SHALL BE PLACED. NO WORK OR EROSION CONTROL DEVICES SHALL BE PLACED OUTSIDE THE PERMANENT OR TEMPORARY EROSION CONTROL BASEMENTS.

2. ALL DISTURBED AREAS CONTAINING EXPOSED SOIL SHALL RECEIVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES. CONTRACTOR MAY CHOOSE TO UTILIZE ALTERNATIVE EROSION CONTROL PRODUCTS SUCH AS WATTLES AS APPROVED BY THE ENGINEER.

3. BILT FENCE SHALL BE PLACED PRIOR TO THE CLEARING AND GRAVING OPERATIONS.

4. SITE ARDOT STANDARD DRAWING TD-5-1 AND TD-5-3 FOR TEMPORARY EROSION CONTROL DEVICES.

5. POST-GRADING BILT FENCE WILL NOT BE SIGNIFICANTLY STEEPER THAN EXISTING GRADES.

6. LOCATION OF DESIRED STORAGE OF MATERIALS IS TO BE DETERMINED BY THE CONTRACTOR, THE SHP WILL BE UPDATED ACCORDINGLY.

7. FIXED CONSTRUCTION ENTRANCE POINTS MAY MOVE ALONG THE PROPOSED ROUTE.

SEQUENCE OF CONSTRUCTION OF E & SC FEATURES

1. INSTALL BILT FENCE / WATTLE.
2. CLEAR / GRADE ACTIVITIES.
3. INSTALL DITCH CHECKS.

EROSION CONTROL MEASURES TO BE PLACED DURING APPROPRIATE STAGES. THESE DEVICES SHALL BE LEFT IN PLACE AS LONG AS REQUIRED TO CONTROL EROSION.
GENERAL NOTES:
1. THE MAINTENANCE OF TRAFFIC AS SHOWN ON THE PLAN IS PROVIDED TO THE CONTRACTOR AS MINIMUM CONTROLS AND AS GUIDANCE. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER AND CITY FOR APPROVAL A DETAIL MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO START OF CONSTRUCTION.
2. ALL EXISTING SIGNS NEEDED TO MAINTAIN TRAFFIC SHALL REMAIN IN PLACE AND IN CLEAR SIGHT UNLESS OTHERWISE NOTED.
3. TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.
4. CONTRACTOR SHALL MAINTAIN ALL ACCESS TO ALL LOCAL BUSINESSES AND RESIDENTS.
5. ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO AND BE PLACED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
6. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DRAINAGE AS REQUIRED.

ADVANCED WARNING SIGN NOTES:
ADVANCED WARNING SIGNS SHOWN ON THIS SHEET SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO THE START OF ANY CONSTRUCTION.
ADVANCED WARNING SIGNS SHALL NOT OBSTRUCT THE VIEW OF AN EXISTING SIGN, BUT SHALL BE LOCATED IN A POSITION TO MAINTAIN CLEAR VISIBILITY.
ADDITIONAL SIGNS AS NECESSARY INCLUDING BUT NOT LIMITED TO SPEED REDUCTION, LANE SHUTS, LANE CLOSURES, ETC., SHALL BE PROVIDED BY THE CONTRACTOR WITHIN THE CONTRACTOR'S SUBSTANTIAL COMPLETE OF ADVANCED WARNING SIGNS SHALL BE PLACED ALONG DAVE WARD DR., THE EAST AND WEST OF THE PROJECT SITE.
TYPICAL SKIP YELLOW STRIPING
NO SCALE
### SCHEDULE OF BRIDGE QUANTITIES

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**TOTALS FOR BRIDGE**

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1. PLACE SMALL CONCRETED TO PER FEDERAL STANDARD 5968, COLOR CEMENT NO. 37038, BLACK.
2. ACROSS DECK ARE REQUIRED TO BE HIGHLY CHINO AND HAVE SPECIAL TOPS WHICH WILL NOT BE PAINTED.
3. PROJECT TOTAL 1.9923.2 SQUARE YARD INCLUDES 63.85 SQUARE YARDS FOR CONCRETE BARRIER WALLE AND 1.444.77 SQUARE YARDS FOR RETAIN WALLS.
4. PROJECT TOTAL 1.9923.2 SQUARE YARD INCLUDES 63.85 SQUARE YARDS FOR CONCRETE BARRIER WALLE AND 1.444.77 SQUARE YARDS FOR RETAIN WALLS.
**LOG OF BORING NO. 1**

**LOG OF BORING NO. 2**

**LOG OF BORING NO. 3**

---

**Digitally Signed 11/22/2017**

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**Table Format:**

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<tr>
<th>Type</th>
<th>Aging</th>
<th>Location</th>
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**Diagram Description:**

- **Plate 1**
- **Plate 2**
- **Plate 3**

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**NOTE:** Water is at 7 ft after 24 hours.

---

**CITY OF CONWAY**

**BRIDGE DESIGN & CONSTRUCTION**

**DATE:** 11/22/2017

**S-103**
<table>
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<tr>
<th>BORING</th>
<th>TYPE</th>
<th>DESCRIPTION OF MATERIAL</th>
<th>LOCATION</th>
<th>CONDENSATION:</th>
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<td>7</td>
<td>Auger</td>
<td>Flax, black, and reddish brown, clay, sand, and gravel.</td>
<td>Site 1</td>
<td>Sample 10</td>
<td>Site 1</td>
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<td>8</td>
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<td>Flax, black, and reddish brown, clay, sand, and gravel.</td>
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<td>9</td>
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<td>Site 3</td>
<td>Sample 30</td>
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<td>Site 4</td>
<td>Sample 40</td>
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<td>11</td>
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<td>Flax, black, and reddish brown, clay, sand, and gravel.</td>
<td>Site 5</td>
<td>Sample 50</td>
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<tr>
<td>12</td>
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<td>Flax, black, and reddish brown, clay, sand, and gravel.</td>
<td>Site 6</td>
<td>Sample 60</td>
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<td>13</td>
<td>Auger</td>
<td>Flax, black, and reddish brown, clay, sand, and gravel.</td>
<td>Site 7</td>
<td>Sample 70</td>
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<td>14</td>
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<td>Site 8</td>
<td>Sample 80</td>
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<td>15</td>
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<td>Sample 90</td>
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<td>16</td>
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<td>Flax, black, and reddish brown, clay, sand, and gravel.</td>
<td>Site 10</td>
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NOTE: Water at 6 ft after 24 hours.
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<th>Depth (ft)</th>
<th>Description of Material</th>
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<td>0-10</td>
<td>Soft clay and brown clay with interstratified lenses of organic material and lenses of gritty brown clay.</td>
</tr>
<tr>
<td>11</td>
<td>10-20</td>
<td>Low plasticity silty clay with interstratified lenses of organic material and lenses of gritty brown clay.</td>
</tr>
<tr>
<td>12</td>
<td>20-30</td>
<td>Moderately hard to hard dense gray shale.</td>
</tr>
<tr>
<td>13</td>
<td>30-40</td>
<td>Moderately hard to hard dense gray shale.</td>
</tr>
<tr>
<td>14</td>
<td>40-50</td>
<td>Moderately hard to hard dense gray shale.</td>
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</tbody>
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**NOTE:** Water at 4.6 ft after 24 hours.
SLAB PLAN - UNIT 1

SCALE 1/8" = 1'-0"

NOTES:
- Unless noted otherwise, spacing shown for all transverse reinforcement shall be placed on lines normal to CL construction.
- Blanks noted otherwise, all transverse reinforcement shown beyond the PC Contractor's zone are placed on lines normal to CL Construction.
- All reinforcement shown in the SPB shall be placed on lines normal to CL Construction.

CONCRETE PLACEMENT PROCEDURE

NO SCALE

NOTE:
- Placement of the same number may be placed simultaneously on separately all pours, if consistent with the Pour No. 1 start point:**
- Placement of the same number may be placed simultaneously on separately all pours, if consistent with the Pour No. 1 start point:**
- The start of the pour shall be made at the specified start point on the diagram.
- The pour shall be completed by the specified end point on the diagram.
- Reinforcement shown shall be placed on lines normal to CL Construction.
- This contractor must obtain approval from the designer for any deviations from the Pouring Sequence shown.
- Reinforcement shown shall be placed on lines normal to CL Construction.

CONCRETE PLACEMENT PROCEDURE

NO SCALE

NOTE:
- Placement of the same number may be placed simultaneously on separately all pours, if consistent with the Pour No. 1 start point:**
- Placement of the same number may be placed simultaneously on separately all pours, if consistent with the Pour No. 1 start point:**
- The start of the pour shall be made at the specified start point on the diagram.
- The pour shall be completed by the specified end point on the diagram.
- Reinforcement shown shall be placed on lines normal to CL Construction.
- This contractor must obtain approval from the designer for any deviations from the Pouring Sequence shown.
- Reinforcement shown shall be placed on lines normal to CL Construction.
**Slab Plan - Unit 2**

*Scale: 1/8", 1'-0"*

1. **Refer to Physical Section on OMD NO. 5-307 for Placement**
2. **Dead Joint & Pouring Sequence Construction Joint**
3. **Required Free Joint**
4. **Measured Along Left Edge of Bridge**
5. **Joint Spacing Measured Along Gutterline**
6. **Measured Along CL Bridge**

**Concrete Placement Procedure**

No Scale

- Place concrete to approximate slab thickness parallel to stream or gutter using transverse screed.
- Pouring sequence construction joint.

**Notes:**

- Unless noted otherwise, spacing shown for all transverse screed joints, all pipe mixes, and all concrete segments shall be placed on pour line to CL construction.
- Before the P.T. Station, all longitudinal lines and longitudinal pipe spacing shall be placed along curves consistent with CL Construction (50°-57° Curved)."
### Table of Dead Load Deflections (Inches) - Unit No. 2

<table>
<thead>
<tr>
<th>Part of Splice</th>
<th>Unit No. 1</th>
<th>Unit No. 2</th>
<th>Unit No. 3</th>
<th>Unit No. 4</th>
<th>Unit No. 5</th>
<th>Unit No. 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>1/2</td>
<td>0.065</td>
<td>0.065</td>
<td>0.065</td>
<td>0.065</td>
<td>0.065</td>
<td>0.065</td>
</tr>
<tr>
<td>3/4</td>
<td>0.130</td>
<td>0.130</td>
<td>0.130</td>
<td>0.130</td>
<td>0.130</td>
<td>0.130</td>
</tr>
<tr>
<td>1</td>
<td>0.194</td>
<td>0.194</td>
<td>0.194</td>
<td>0.194</td>
<td>0.194</td>
<td>0.194</td>
</tr>
<tr>
<td>1 1/2</td>
<td>0.258</td>
<td>0.258</td>
<td>0.258</td>
<td>0.258</td>
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<tr>
<td>2</td>
<td>0.322</td>
<td>0.322</td>
<td>0.322</td>
<td>0.322</td>
<td>0.322</td>
<td>0.322</td>
</tr>
</tbody>
</table>

#### Dead Load Deflection

No Scale

Note: Values for dead load deflection plus vertical curve.

---

### Elevation of Field Splice

Scale 1/4" = 1'

Note:

All field splice bolts shall be 3/4"-10, A325, HDG.

All field splice plates shall be 3/16" thick, 4" O.C., and A572 Gr. 50 steel.

All field splice plates shall be drawn as weldable, if required. The high tensile steel may be included at the discretion of the engineer. Payment will be made on the basis of the plan quantities.
TYPICAL SECTION - TRUSS SPAN

NOTE:
- The details and requirements of electrical wiring on spans see ELECTRICAL PLANS AND SPECIAL PROVIDER "PRE-FABRICATED STEEL TRUSS".
- The truss manufacturer shall design the plate and the safety railing planks on the same.
- The required joints in the trusses shall be made at a truss on the horizontal members shall be transverse to any truss. Verticals, and vertical members shall be transverse to any truss. Verticals, and vertical members shall be transverse to any truss. Verticals, and vertical members shall be transverse to any truss. Verticals, and vertical members shall be transverse to any truss.

FOR DECK LAG DETAILS SEE SKU NO S-500.

LOADING CRITERIA
ALL HORIZONTAL MEMBERS SHALL BE DESIGNED FOR A LAYOUT FABRICATION OF 30 MINS PER FOOT APPLIED.
VERTICALLY, THE VERTICAL AND HORIZONTAL LAMINATIONS SHALL BE APPLIED SIMULTANEOUSLY.
IN ADDITION, EACH LONGITUDINAL ELEMENT SHALL BE DESIGNED FOR A COMBINED LOAD OF 2000 LBS APPLIED AT ANY POINT ALONG THE TRUSS.

CONCRETE DECK TO BE DESIGNED BY TRUSS SUPPLIER.
- CONCRETE DECK TO BE DESIGNED BY TRUSS SUPPLIER.
- CONCRETE DECK TO BE DESIGNED BY TRUSS SUPPLIER.
- CONCRETE DECK TO BE DESIGNED BY TRUSS SUPPLIER.
- CONCRETE DECK TO BE DESIGNED BY TRUSS SUPPLIER.
**VOLTAGE DROP CALCULATIONS**

**LIGHT FIXTURE SCHEDULE**

<table>
<thead>
<tr>
<th>Location Description</th>
<th># of Sets</th>
<th>Wire Size</th>
<th>One-Way Length (ft)</th>
<th>Line Current (Amps)</th>
<th>Voltage (Line-to-Line)</th>
<th>Phase Power Factor</th>
<th>Wire Type</th>
<th>Conduit Type</th>
<th>Impedance (Ω/1000 ft)</th>
<th>Voltage Drop (Volts)</th>
<th>%VD</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Circuit Type &quot;A&quot; Lights &amp; Truss Lights</td>
<td>1</td>
<td>4</td>
<td>550</td>
<td>6.47</td>
<td>120</td>
<td>1</td>
<td>85%</td>
<td>Aluminum-PVC</td>
<td>0.46</td>
<td>3.72670</td>
<td>2.79%</td>
</tr>
<tr>
<td>North Circuit Type &quot;A&quot; Lights</td>
<td>1</td>
<td>4</td>
<td>550</td>
<td>6.47</td>
<td>120</td>
<td>3</td>
<td>85%</td>
<td>Aluminum-PVC</td>
<td>0.46</td>
<td>3.72670</td>
<td>2.79%</td>
</tr>
<tr>
<td>North Circuit Type &quot;A&quot; Lights</td>
<td>1</td>
<td>6</td>
<td>550</td>
<td>8.48</td>
<td>120</td>
<td>3</td>
<td>85%</td>
<td>Aluminum-PVC</td>
<td>0.46</td>
<td>3.72670</td>
<td>2.79%</td>
</tr>
<tr>
<td>North Circuit Type &quot;B&quot; Lights</td>
<td>1</td>
<td>6</td>
<td>550</td>
<td>8.48</td>
<td>120</td>
<td>3</td>
<td>85%</td>
<td>Aluminum-PVC</td>
<td>0.46</td>
<td>3.72670</td>
<td>2.79%</td>
</tr>
</tbody>
</table>

**STATISTICS (BASED ON 0.85 LLF)**

- Pedestrian Bridge Path: 2.2 ft, 2.4 ft, 2.3, 2.3 ft
- Pedestrian Ground Path: 2.4 ft, 2.6 ft, 2.6 ft, 2.6 ft

**ILLUMINATION DESIGN CRITERIA TABLE**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>AVG</th>
<th>MIN</th>
<th>MAX</th>
<th>AVG/MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEDESTRIAN BRIDGE PATH</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>PEDESTRIAN GROUND PATH</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**GENERAL NOTES**

1. **ELECTRICAL WORK** shall be performed in accordance with the current editions of the NFPA 70 (2016) NATIONAL ELECTRICAL CODE, NFPA 1 (2016) LIFE SAFETY CODE, NFPA 70E (2016) ELECTRICAL SAFETY CODE, and local electrical codes.
2. Coordinate all electrical work with utility companies and equipment suppliers.
3. Coordinate all electrical work and power outages with city and power utility.
5. Connect all electrical equipment to the power supply without exception.
6. Coordinate all electrical work and power outages with utility companies and equipment suppliers.
7. Coordinate all electrical work and power outages with city and power utility.
9. Connect all electrical equipment to the power supply without exception.
10. Coordinate all electrical work and power outages with utility companies and equipment suppliers.

**VOLTAGE DROP FORMULA**

\[ V = IR + ZI^2 \]

Where:
- \( V \) is the voltage drop (Volts)
- \( I \) is the current (Amps)
- \( R \) is the resistance (Ω)
- \( Z \) is the impedance (Ω/1000 ft)

**INSTALLATION INSTRUCTIONS**

1. Install new ground rods using N-20 copper clad ground rods and electrical conduit. Space rods minimum of 15 ft apart.
2. Provide new ground rods to be connected at the transformer.
3. Use new ground rods for all new electrical installations.
4. Use new ground rods for all new electrical installations.
5. Use new ground rods for all new electrical installations.
6. Use new ground rods for all new electrical installations.

**ONE LINE DIAGRAM**

- **PEDESTRIAN BRIDGE PATH**
- **PEDESTRIAN GROUND PATH**

**DIGITAL SIGNATURE**

Digitally Signed 02/09/2018
SOONER NOTES


None plates shall be cast bronze and shall meet the material requirements as specified in Section 60.

Body of plate shall be 1/8" thick and shall include two tapering cone lugs 1/8" to ½" x 2" long. The border and all lettering shall be raised 1/16" above the face of plate and shall be polished.

All lettering shall be plain gothic, square cut and not tapered.

The number of places required and the location and name on the plate for each bridge shall be as designated on the plans.
### Minimum Height of Fill "H" Over Circular R.C. Pipe Culverts

<table>
<thead>
<tr>
<th>CLASS OF PIPE</th>
<th>INSTALLATION TYPE</th>
<th>CLASS I</th>
<th>CLASS II</th>
<th>CLASS III</th>
<th>CLASS IV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TYPE 1 OR TYPE 2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>TYPE 3</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

**Note:** For minimum cover values, "W" shall include a minimum of 1/2" of pavement and/or base.

### Minimum Height of Fill "H" Over Arch & Horizontal Elliptical Pipe Culverts

<table>
<thead>
<tr>
<th>CLASS OF PIPE</th>
<th>INSTALLATION TYPE</th>
<th>CLASS I</th>
<th>CLASS II</th>
<th>CLASS III</th>
<th>CLASS IV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TYPE 2 OR TYPE 3</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>5</td>
</tr>
</tbody>
</table>

**Note:** For minimum cover values, "W" shall include a minimum of 1/2" of pavement and/or base.

### Construction Sequence
1. Place structural bedding material to grade, do not compact.
2. Compact structural bedding outside the middle third of the pipe.
3. Place and compact the backfill material up to the middle of the pipe.
4. Complete backfill according to subsection 606.07 (c).1.

**Note:** All backfill material shall be compacted to the maximum density according to the type or class of material used.

### Legend
- **D** = Normal inside diameter of pipe
- **Dmin** = Minimum inside diameter of pipe
- **Dtop** = Top height over pipe (feet)
- **M** = Moisture
- **S** = Structural bedding material

### Embankment and Trench Installations
1. **Materials in the embankment and structural bedding shall be compacted to 90% of the maximum density according to the type or class of material used.**

### General Notes
1. Concrete pipe culvert construction shall conform to Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction. Current edition with applicable supplements and addenda shall be used where applicable.

2. Concrete pipe culvert design shall conform to AASHTO LRFD Bridge Design Specifications, Fifth Edition 2009 with 2012 amendments.

3. All pipe shall conform to Section 803.0 Circular R.C. Pipe Culvert. All pipe and fittings shall be manufactured by a pipe manufacturer approved by the Engineer.

4. All pipe shall be protected during construction by a cover sufficient to prevent damage from passage of equipment.

5. The minimum trench width shall be the outside diameter of the pipe plus 24 inches.

6. The maximum allowable trench width shall be the maximum trench width for the prevailing conditions.

7. All pipe shall be installed in a manner consistent with the applicable Specifications between strands of pipe. Refer to Section 3.0.2.0 on underground facilities.

8. All water shall be placed as required by the Engineer. The end of the culvert to prevent loss of structural bedding when pervious material is used for structural bedding and/or backfill.

9. More than one lifting hole may be provided in concrete pipe to facilitate handling. A lifting hole shall be cast in place but not to be used after placement. The hole shall not be more than two inches in diameter or two inches in depth when filled with pervious materials. The holes shall be sealed with mortar or other method approved by the Engineer.

10. If the new material placed in the construction trench is determined whether the pipe is excavated and replaced with selected pipe bedding, the quantity of material required to the pipe bedding must be indicated on the area specified by the Engineer.

11. If excavating with a backhoe, the pipe must be replaced with selected pipe bedding.

12. If using a backhoe, the pipe must be replaced with selected pipe bedding.

### Standard Drawings
- **PCC-1**

**Date:**
- Revision Date: [date]
- Date Filed: [date]
GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND THE STANDARD DRAWING TC-1, AS APPLIABLE.

2. TRAFFIC CONTROL DEVICES SHALL BE SET UP JUST BEFORE THE START OF CONSTRUCTION, AND SHALL BE PROPERLY MOUNTED AND CLEAR OF TRAFFIC STREAMS. WHEN ROAD WORK IS COMPLETED, THEY SHALL BE REMOVED AT ONCE AND STORED IN A SAFE AREA.

3. OTHER SIGNS OR CONSTRUCTION SIGNS SHALL BE MOUNTED IN A POSITION TO BE SEEN FROM A DISTANCE transcripts are not provided due to the nature of the text.
CLEARING AND GRUBBING

CONSTRUCTION SEQUENCE
1. PLACE PERIMETER CONTROLS (I.E. SILT FENCES, DIVERSION DITCHES, SEDIMENT BASINS, ETC.)
2. PERFORM CLEARING AND GRUBBING OPERATION.

EXCAVATION

EXISTING GROUND
INTERCEPTOR OR DIVERSION DITCH
EXISTING GROUND

EXISTING GROUND
INTERCEPTOR OR DIVERSION DITCH
EXISTING GROUND

NOTE: NUMBER OF PHASES WILL VARY, THREE PHASES SHOWN FOR ILLUSTRATION.

GENERAL NOTE
ALL CUT SLOPES SHALL BE DRESSED, PREPARED, SEENED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE EXCAVATED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE
1. PERFORM PHASE 1 EXCAVATION, PLACE PERMANENT OR TEMPORARY SEEDING.
2. PERFORM PHASE 2 EXCAVATION, PLACE PERMANENT OR TEMPORARY SEEDING.
3. PERFORM FINAL PHASE EXCAVATION, PLACE PERMANENT OR TEMPORARY SEEDING.

EMBANKMENT

EXISTING GROUND
VARIOUS EROSION CONTROL DEVICES

NOTE:
NOTE:
NUMBER OF PHASES WILL VARY, THREE PHASES SHOWN FOR ILLUSTRATION.

GENERAL NOTE
ALL EMBANKMENT SLOPES SHALL BE DRESSED, PREPARED, SEENED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE CONSTRUCTED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE
1. CONSTRUCT DIVERSION DITCHES, SEDIMENT BASINS, SILT FENCES, OR OTHER EROSION CONTROL DEVICES AS SPECIFIED.
2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING.
3. PLACE PHASE 2 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING.
4. PLACE FINAL PHASE EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING.

NOTE:
NUMBER OF PHASES WILL VARY, THREE PHASES SHOWN FOR ILLUSTRATION.
STA, 24+85 TO STA, 25+14