SEE SHEET L180 FOR PLANTING SCHEDULES AND NOTES
CONSTRUCTION ENTRANCE

INLET SEDIMENT PROTECTION

BAG DETAIL

PLAN VIEW

STRAW WATTLE

TREE PROTECTION

CONCRETE WASHOUT

FLOW

FLOW

SIDE VIEW

FRONT VIEW

PLAN VIEW

DETAIL FABRIC

POST POCKET

TURNED ENDS

GEOTEXTILE END CONNECTIONS

SEDIMENT FENCE

CHECK DAM

TRENCH DRAIN SEDIMENT PROTECTION
## GENERAL STRUCTURAL NOTES

### DESIGN CRITERIA

**GRAVITY SYSTEM CRITERIA**

<table>
<thead>
<tr>
<th>Component</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical</td>
<td>4</td>
</tr>
<tr>
<td>Horizontal</td>
<td>4</td>
</tr>
</tbody>
</table>

**GEOTECHNICAL CRITERIA**

<table>
<thead>
<tr>
<th>Component</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>4</td>
</tr>
</tbody>
</table>

**WIND CRITERIA**

<table>
<thead>
<tr>
<th>Component</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Velocity</td>
<td>4</td>
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</tbody>
</table>

**SEISMIC CRITERIA**

<table>
<thead>
<tr>
<th>Component</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intensity</td>
<td>4</td>
</tr>
</tbody>
</table>

### CONCRETE STRENGTHS

<table>
<thead>
<tr>
<th>Type</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cylinder</td>
<td>4000 PSI</td>
</tr>
</tbody>
</table>

### CEMENT CONTENT

<table>
<thead>
<tr>
<th>Type</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>50%</td>
</tr>
</tbody>
</table>

### REINFORCING STEEL CONCRETE COVER

<table>
<thead>
<tr>
<th>Item</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slab</td>
<td>0.50&quot;</td>
</tr>
</tbody>
</table>

### APPROVED POST INSTALLED ANCHORS

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### STRUCTURAL STEEL

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strength</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### TYP. WALL AND SLAB LAP SPICE LENGTH SCHEDULE (IN.)

<table>
<thead>
<tr>
<th>Component</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall</td>
<td>12</td>
</tr>
<tr>
<td>Slab</td>
<td>24</td>
</tr>
</tbody>
</table>

### SUBMITTALS

<table>
<thead>
<tr>
<th>Item</th>
<th>Submission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shop Drawing</td>
<td>-</td>
</tr>
<tr>
<td>Calculations</td>
<td>-</td>
</tr>
<tr>
<td>Materials</td>
<td>-</td>
</tr>
</tbody>
</table>

### GENERAL ARCHITECTURAL OBSERVATIONS

- After repairs and rework, the architect or engineer shall inspect the work and certify the completion of the repairs.
- Architectural drawings and specifications shall be followed closely.
- The contractor shall not be liable for any deviation from the drawings or specifications.

### TABLES

#### Materials Strengths

<table>
<thead>
<tr>
<th>Type</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>-</td>
</tr>
<tr>
<td>Concrete</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Concrete Mixtures

<table>
<thead>
<tr>
<th>Type</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>50%</td>
</tr>
</tbody>
</table>

### GENERAL NOTES

- These general notes supplement the project specifications. Refer to the project specifications for complete details.
- Structural steel shall be fabricated in accordance with the latest edition of the AISC Standard.
- The architect or engineer shall review and approve all drawings and specifications before construction.
- Post-installed anchors shall be installed in accordance with the manufacturer's recommendations.

---

**ARCHITECTURE, STATE**

S002

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**RECORDS**

- Photographs, plans, and specifications shall be kept on file for a period of 5 years.
- All materials and workmanship shall be inspected and approved by the architect or engineer before acceptance.

---

**REINFORCING STEEL CONCRETE COVER**

- Concrete cover shall be as specified in the drawings and specifications.
- The architect or engineer shall review and approve all concrete cover details.

---

**NOT FOR CONSTRUCTION**

- This document is for reference only and shall not be used for construction.
- All dimensions and tolerances shall be as specified in the drawings and specifications.
CAST-IN-PLACE DEEP FOUNDATION ELEMENTS

- Inspect the quality and location of welds, and the size, length, and location of welds.
- Monitor the erection of precast concrete members.
- Ensure all anchors are installed correctly per manufacturer's instructions.
- Provide periodic inspections of each anchor type and size.
- Inspectors shall be on-site to continuously inspect a minimum of the first 10 anchors installed by each installer for periodic special inspection.
- Inspectors shall ensure that all anchors are installed correctly.
- Inspectors shall observe all welds and backings in concrete and confirm compliance with ICC evaluation reports.
- Provide periodic inspections of all anchors, prior to concealment.

WELDER IDENTIFICATION SYSTEM

- Verify placement locations and plumbness, perform classification and testing of arc strikes.
- Ensure the welding equipment is in accordance with ACI 318 D.9.2.4.
- Inspect the welding equipment for conformance with ASTM E329.
- Monitor the cleanliness of steel surfaces and the condition of the welding process.
- Inspect the tack forming process.
- Perform periodic inspections of welding and welding related special inspections and associated testing.

TABLE 1 - REQUIRED GEOTECHNICAL SPECIAL INSPECTIONS

<table>
<thead>
<tr>
<th>INSPECTION</th>
<th>SYSTEM or MATERIAL</th>
<th>CODE or STANDARD REFERENCE</th>
<th>CODE or STANDARD REFERENCE</th>
<th>FREQUENCY</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TABLE 2 - REQUIRED STRUCTURAL SPECIAL INSPECTIONS

<table>
<thead>
<tr>
<th>INSPECTION</th>
<th>SYSTEM or MATERIAL</th>
<th>CODE or STANDARD REFERENCE</th>
<th>CODE or STANDARD REFERENCE</th>
<th>FREQUENCY</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TABLE 3 - REQUIRED STRUCTURAL TESTING

<table>
<thead>
<tr>
<th>SYSTEM or Material</th>
<th>FREQUENCY</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PEND OREILLE CROSSING FOUNDATION PLAN

PEND OREILLE CROSSING FRAMING PLAN
PROVIDE CROSS WIRE HOOK AT TOP 24" O.C. MAX.

5 GA. WIRE HOOKS @ 24" O.C. MAX. HORIZ. AND VERT. SPACING

W12 SOLDIER PILES REF. 4/S5.03

3 GA. WIRE MESH (Fy = 60 ksi, GALV.)

5 GA. WIRE HOOKS @ 24" O.C. MAX. HORIZ. AND VERT. SPACING

5/16" + 2/(

SITE PAVING, SEE CIVIL

3'-0" MAX.

6" CONC. BOARD FORMED FACING WALL

6x WOOD LAGGING

DF NO 1/NO 2 PRESSURE TREATED

SECTION AT SOLDIER PILE WALL WITH LAGGING AND ROCK FACING

SECTION AT SOLDIER PILE WALL WITH BOARD FORMED CONC. FACING

SITE PAVING, SEE CIVIL

#4 @ 12" O.C. EA. WAY

TEMP. VERTICAL CUT SURFACE REF.

GEO TECHNICAL REPORT FOR REQUIREMENTS

SOLDIER PILES

TOP OF FINISHED GRADE BETWEEN SOLDIER PILES

4" CLR.

BOARD FORMED CONC. FACING WALL 1/4 x 1/4 ANGLE WELDED TO SOLDIER PILES

SECTION AT SOLDIER PILE WALL WITH BOARD FORMED CONC. FACING

CIVIL

111 SW 5th Avenue
Suite 2500
Portland, Oregon  97204
503-227-3251
Consulting Engineers
212168
<table>
<thead>
<tr>
<th>Tag</th>
<th>Image</th>
<th>Description</th>
<th>Size</th>
<th>Watts</th>
<th>Lumens</th>
<th>Ballast</th>
<th>Voltage</th>
<th>Product</th>
<th>Mounting</th>
<th>Finish</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1</td>
<td><img src="image1.png" alt="" /></td>
<td>Pole Mount Campus Standard for trail path lighting</td>
<td>64</td>
<td>4080</td>
<td>4000 K</td>
<td>integral</td>
<td>277</td>
<td>Kim Architectural LED-4000K-3487lm</td>
<td>pole</td>
<td>Black</td>
<td>Campus Standard</td>
</tr>
<tr>
<td>S2A</td>
<td><img src="image2.png" alt="" /></td>
<td>Mast Light w/Floor Wash for indication of approaching Mixing Zones</td>
<td>23+24 LED</td>
<td>4000</td>
<td>3487</td>
<td>integral</td>
<td>277</td>
<td>Hess City Elements 230 LED 4000K</td>
<td>ground</td>
<td>Black</td>
<td>Specialty Fixture</td>
</tr>
<tr>
<td>S2B</td>
<td><img src="image3.png" alt="" /></td>
<td>Mast Light for space making within Mixing Zones</td>
<td>26</td>
<td>4000</td>
<td>3487</td>
<td>integral</td>
<td>277</td>
<td>Hess City Elements 230 LED 4000K</td>
<td>ground</td>
<td>Black</td>
<td>Specialty Fixture</td>
</tr>
<tr>
<td>S3</td>
<td><img src="image4.png" alt="" /></td>
<td>Linear Downlight for wall grazing under bridge</td>
<td>1.43” w</td>
<td>214.2” L</td>
<td>4000</td>
<td>integral</td>
<td>24 DC</td>
<td>Winline WSL-211W and TM-300</td>
<td>surface</td>
<td>Gloss black</td>
<td>30 degree beam; ETL Wet listed; one TM-300 driver per run</td>
</tr>
<tr>
<td>S3A</td>
<td><img src="image5.png" alt="" /></td>
<td>Linear Downlight for direct illumination under bridge</td>
<td>1.43” w</td>
<td>214.2” L</td>
<td>4000</td>
<td>integral</td>
<td>24 DC</td>
<td>Winline WSL-211W and TM-300</td>
<td>surface</td>
<td>Gloss black</td>
<td>100 degree beam; ETL Wet listed; one TM-300 driver per run</td>
</tr>
</tbody>
</table>

NOTES FOR ESTIMATING:

- All fixtures are subject to change based on selected location and desired effect.
- Select fixtures to fit the installation requirements.
- All fixtures are subject to change based on selected location and desired effect.
- Select fixtures to fit the installation requirements.

BLUE EMERGENCY PHONE
FOREST REACH - NORTH TRANSITION - ELECTRICAL

NOTES:
A. ALL ELECTRICAL CONSTRUCTION TO BE PERFORMED BY PROPOSED CONTRACTOR.
B. ALL ELECTRICAL CONSTRUCTION TO BE PERFORMED TO COORDINATE WITH LANDSCAPE AND OTHER CONSTRUCTION CONTRACTORS.
C. ALL ELECTRICAL CONSTRUCTION TO BE PERFORMED TO COORDINATE WITH GRAPHIC, PAVING, AND OTHER URBAN FURNITURE INSTALLATIONS.
D. ALL ELECTRICAL CONSTRUCTION TO BE PERFORMED TO COORDINATE WITH CNT POLES.
E. ALL ELECTRICAL CONSTRUCTION TO BE PERFORMED TO COORDINATE WITH CNT CONSTRUCTION.
F. ALL ELECTRICAL CONSTRUCTION TO BE PERFORMED TO COORDINATE WITH CNT CONSTRUCTION.
G. ALL ELECTRICAL CONSTRUCTION TO BE PERFORMED TO COORDINATE WITH CNT CONSTRUCTION.
H. ALL ELECTRICAL CONSTRUCTION TO BE PERFORMED TO COORDINATE WITH CNT CONSTRUCTION.
I. ALL ELECTRICAL CONSTRUCTION TO BE PERFORMED TO COORDINATE WITH CNT CONSTRUCTION.
J. ALL ELECTRICAL CONSTRUCTION TO BE PERFORMED TO COORDINATE WITH CNT CONSTRUCTION.

SCHEDULE:
[Details not visible in the image]
LIGHTING POWER SUMMARY

<table>
<thead>
<tr>
<th>TYPE</th>
<th>INPUT POWER (W)</th>
<th>QUANTITY</th>
<th>POWER SUB-TOTAL (W)</th>
<th>BRANCH CIRCUIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S2A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S2B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P.O. TUNNEL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S3</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Total Power: X

LIGHTING POWER SUMMARY (TBD)

TYPICAL PARTIAL ONE-LINE DIAGRAM

ENERGY CODE COMPLIANCE FORMS (TBD)
### ALIGNMENT TABLE - STA 272+91 to 300+34

<table>
<thead>
<tr>
<th>STA</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>272+91</td>
<td>Start of alignment</td>
</tr>
<tr>
<td>300+34</td>
<td>End of alignment</td>
</tr>
</tbody>
</table>

### ALIGNMENT TABLE - STA 321+08 to 368+26

<table>
<thead>
<tr>
<th>STA</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>321+08</td>
<td>Start of alignment</td>
</tr>
<tr>
<td>368+26</td>
<td>End of alignment</td>
</tr>
</tbody>
</table>
TYPICAL TRAIL SECTION - STA 354+67 to 355+05 and STA 356+22 to 358+88

PLACEHOLDER FOR TUNNEL TYPICAL SECTION

TYPICAL TRAIL SECTION - STA 355+05 to 356+22

TYPICAL TRAIL SECTION - STA 380+39 to 380+89

TYPICAL TRAIL SECTION - STA 380+89 to END

GENERAL NOTES:
1. THE MINIMUM SOCKET DEPTH SHALL BE 24" UNTIL DETERMINED PER PERMIT. PROVIDE A PERMIT TO DETERMINE THE DEPTH OF THE SOCKET. PROVIDE PERMIT TO DETERMINE THE DEPTH OF THE SOCKET.
2. THE MINIMUM SOCKET DEPTH SHALL BE 24" UNTIL DETERMINE PER PERMIT. PROVIDE A PERMIT TO DETERMINE THE DEPTH OF THE SOCKET. PROVIDE PERMIT TO DETERMINE THE DEPTH OF THE SOCKET.
PLAN - STA 272+87 to STA 278+97

PROFILE - STA 272+87 to STA 278+97

LEGEND

- Limit of Clearing
- Limit of Work
- ROW Work by Others
- ROW Work
- Existing Major Contour
- Existing Minor Contour
- Proposed Major Contour
- Proposed Minor Contour
- Proposed Spot Elevation

GRADING NOTES:
1. GRADE AND DRAINAGE: All proposed paving, curbs, walls, and planting areas shall smoothly transition to existing adjacent features to remain. Provide positive drainage on all paved and throughout all planting areas to provide adequate drainage.
2. BACKFILL: Exposed material not suitable for backfilling shall be removed and legally disposed of off-site.
3. GRADE: Perform all backfilling and grading per G-42. Docuforms: Proposed alignment details.

SHEET NOTES:
1. See Sheet L131 for Typical Sections

SCALE: 1" = 20'-0"
PLAN - STA 290+27 to STA 295+52

PROFILE - STA 290+27 to STA 295+52

LEGEND

- LIMIT OF CLEARING
- LIMIT OF WORK
- WORK BY OTHERS
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED SPOT ELEVATION

GRADED NOTES:

1. GRADING AND DRAINAGE: ALL PROPOSED PAVING, CURB, WALL, AND PLANTING AREAS SHALL SMOOTHLY TRANSITION TO EXISTING ADJACENT FEATURES TO MAINTAIN POSITIVE DRAINAGE ON ALL PAVING AND THROUGHOUT ALL PLANTING AREAS. FLOOD PAVED AREAS UPON COMPLETION AND RECONSTRUCT ANY LOW SPOTS AS DIRECTED.

2. BACKFILL: EXCAVATED MATERIAL NOT SUITABLE FOR BACKFILLING SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE.

3. GRADING: PERFORM ALL EARTHWORK AND GRADING PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

GENERAL NOTES:

1. SEE SHEETS L131 AND L132 FOR TYPICAL SECTIONS

VERTICAL EXAGGERATION = 5X
PLAN - STA 295+52 to STA 300+34

PROFILE - STA 295+52 to STA 300+34

LEGEND

- LIMIT OF CLEARING
- LIMIT OF WORK
- ROW WORK BY OTHERS
- ROW WORK
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED SPOT ELEVATION

DRAWING NOTES:
1. GRADING AND DRAINAGE:
   ALL PROPOSED PAVING, CURBS, WALLS, AND PLANTING AREAS SHALL SMOOTHLY TRANSITION TO EXISTING ADJACENT FEATURES TO REMAIN. PROVIDE POSITIVE DRAINAGE ON ALL PAVING AND THROUGHOUT ALL PLANTING AREAS TO AVOID FLOODING.
2. BACKFILL:
   EXCAVATED MATERIAL NOT SUITABLE FOR BACKFILLING SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE.
3. GRADING:
   PERFORM ALL EARTHWORK AND GRADING PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

GENERAL NOTES:
1. SEE SHEET L132 FOR TYPICAL SECTIONS

ELEVATION

SCALE: 1" = 20'-0"