JUNEAU BRIDGE REPAIR & UPGRADE
TROUT STREET BRIDGE REPLACEMENT NO. 1786
PROJECT No. 69561/AC-BR-0003(151)

JUNEAU, ALASKA

PROJECT SUMMARY
NEW PILE-SUPPORTED BRIDGE SPAN = 50 FT
LENGTH OF BASE BID MAINLINE PAVING = 140 FT
WIDTH OF BASE BID MAINLINE PAVING = 24 FT
LENGTH OF PROJECT = 217 FT

DESIGN DESIGNATION
FUNCTIONAL CLASSIFICATION:
PROJECT TYPE:
PROJECT LIFE:

PROJECT LOCATION

LAST YEAR WITH
TRAFFIC DATA

2011

2013

2013

ADT****

4700

4440

5020

5690

CPS

550

550

600

600

PEAK HOUR FACTOR

0.9

0.8

0.8

0.8

DIRECTIONAL DISTRIBUTION

55/45

55/45

55/45

55/45

PERCENT COMMERCIAL TRUCKS

11.5%

11.5%

11.5%

11.5%

COMPRESSED GROWTH RATE

0.50%

0.50%

0.50%

0.50%

BICYCLES (NUMBER/DAY)

NOT AVAILABLE

NOT AVAILABLE

NOT AVAILABLE

NOT AVAILABLE

TOTAL DESIGN VEHICLE FOR TURNING:
WB-50
H320

3,150,000 LBS

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:
E-1300 SIGN CONTROL SYSTEM (SILT DANNER)
C-05.01 STANDARD GUARDRAIL HARDWARE (NUTS, BOLTS, WASHERS)
C-04.07 STEEL POST-NECK GUARDRAIL
L-21.01 PARAPET, CURB MEMP
L-23.01 ANCHOR BOX FOR ELECTRODE
T-21.02 PAINTING, MARKING APPLICATIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

APPROVED:
REGIONAL PRE-CONSTRUCTION ENGINEER
CHARLES R. CORRICA, P.E.

APPROVED:
DIRECTOR SOUTHEAST REGION
ALBERT H. CLOUGH, C.PS.

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD
CONDITION:

CONSTRUCTION PROJECT MANAGER

PLANS RECORDED BY
PRE-DRAWING, INC.

STATE
PROJECT ORGANIZATION
ALASKA
69561/AC-BR-0003(151)
2012
A1
20

PLOT: 15.18X10.72" (384X272MM)
SPACE: OR MAP: 11X15" (279X381MM)
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed. PE __________________________ Date __________________________

SURVEY NOTES:
1. PROPERTY LINE LOCATIONS ARE SHOWN APPROXIMATE AND ARE BASED ON RECORD PLAT. SEE CBP PLAT NO. 93-34 AND PLAT NO. 2007-43.
2. HORIZONTAL CONTROL ESTABLISHED ON LOCAL CORPORATION SYSTEM.
3. IN JANUARY 2009, THE VERTICAL DATUM WAS ADJUSTED TO MLLW BASED ON THE ALASKA DOT MONUMENT M-238 NEAR THE INTERSECTION OF EAGAN HIGHWAY AND GLACIER HIGHWAY.
4. BASE OF BEARINGS FROM RECORD Plat CBP PLAT NO. 93-34

SURVEY CONTROL

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<thead>
<tr>
<th>POINT</th>
<th>NORTHING</th>
<th>EASTING</th>
<th>ELEV.</th>
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<td>5207.85</td>
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<td>5377.32</td>
<td>5555.36</td>
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</tbody>
</table>

TROUT STREET

JORDAN AVENUE

CREEK BEND

SURVEY CONTROL

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PLAN LEGEND

PROJECT UNIVERSITY OF ALASKA ANCHORAGE

CONTRACTOR: CUMMINS INC.

ENGINEER: H.A. TICE

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

JUNEAU BRIDGE REPAIR & UPGRADE

TROUT STREET BRIDGE

NO. 176

SURVEY CONTROL

PROJECT NUMBER: 69561/AC-BR-0003(151)

STATE: ALASKA

YEAR: 2012

SHEET NUMBER: A2

TOTAL SHEETS: 29
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE: (Signature) Date: 6/1/11

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE IN FEET

0 10 20 30 FT

EXCAVATION DISTURBANCE LIMITS

PROPERTY CORNER (DO NOT DISTURB)

EXCAVATED AREA (DO NOT DISTURB)

CREEK BED (DO NOT DISTURB)

CONCRETE HEADWALL (DO NOT DISTURB)

CONCRETE CURB (DO NOT DISTURB)

SHEET 1 OF 3

DEMOLITION NOTES:
1. EXCAVATION DISTURBANCE LIMITS SHOWN ARE APPROXIMATE. FIELD VERIFY BASED ON DESIGN GRADATIONS. TYPICAL SECTIONS AND EXISTING CONDITIONS. FIELD VERIFY EXISTING VEGETATION FOR CLEARING AND GRADING. SEE SITE PLAN AND LAYOUT TABLES FOR EXACT DISTURBANCE LIMITS.
2. ASPHALT DEMOLITION LIMITS SHOWN ARE APPROXIMATE. SEE SITE PLAN AND LAYOUT TABLES FOR PROJECT LIMITS.
3. REMOVE, SALVAGE AND SORT EXISTING SUBSURFACE MATERIAL FROM EXISTING BRIDGE APPROACH RAMPS. ALL MATERIAL THAT IS DETERMINED TO BE REUSABLE SHALL BE STOCKPILED FOR USE DURING CONSTRUCTION. ALL OTHER MATERIAL SHALL BE CONSIDERED WASTE AND DISPOSED OF AT AN APPROVED SITE.
4. SEE A.4.0 FOR EXISTING BRIDGE AND BRIDGE STRUCTURE DEMOLITION PLAN.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

EXPLODED VIEW OF MIGHT

IMPORTANCE LEVEL:

- PROPERTY LINES
- STORM DRAIN
- SANITARY SEWER
- WATER
- ELECTRIC (UNDERGROUND)
- TELEPHONE (UNDERGROUND)
- LIGHT POLE
- SURVEY CONTROL
- SANITARY SEWER MAINLINE
- FIRE HYDRANT
- TREE (VARIOUS SIZES)

PLAN LEGEND

SURVEY NOTES:
1. TOPOGRAPHY BASED UPON FIELD SURVEY BY PHO CONDUCTED OCTOBER 2008 AND JULY 2011
2. EXISTING UTILITIES ARE BASED UPON AS-BUILT RECORDS AND SURVEYED INFORMATION. FIELD VERIFY ALL EXISTING UTILITIES.
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE: K.T. Date: 1/1/13
### ESTIMATE OF QUANTITIES

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<td>BORING, SELECTED MATERIAL, TYPE A</td>
<td>CUBIC YARD</td>
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<td>203 (19)</td>
<td>UNCLASSIFIED EXCAVATION</td>
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<td>205 (3)</td>
<td>STREAM DIVERSION AND DEWATERING</td>
<td>LUMP SUM</td>
<td>ALL RD/2</td>
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<tr>
<td>201 (3)</td>
<td>AGGREGATE BASE COURSE, GRADE D-1</td>
<td>TON</td>
<td>1,200,380</td>
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<tr>
<td>401 (7)</td>
<td>ASPHALT CONCRETE, TYPE A, CLASS B</td>
<td>TON</td>
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<tr>
<td>401 (2)</td>
<td>ASPHALT CONCRETE, GRADE PS 56-28</td>
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<td>2,600</td>
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<td>501 (7)</td>
<td>CLASS A CONCRETE</td>
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<td>505 (3)</td>
<td>FILLMEN STRUCUTURAL, STEEL PILES</td>
<td>LINEAR FOOT</td>
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<td>506 (4)</td>
<td>DRIVE STRUCTURAL STEEL PILES</td>
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<td>307 (3)</td>
<td>STEEL BRIDGE RAILINGS</td>
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<td>308 (3)</td>
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<td>608 (7)</td>
<td>W-BEAM GUARDRAIL</td>
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<td>608 (14)</td>
<td>SIDEWALK, 6 INCHES THICK</td>
<td>SQUARE YARD</td>
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<td>608 (16)</td>
<td>CURB RAMP</td>
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<td>CURB AND GUTTER, TYPE STANDARD</td>
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<td>SOIL</td>
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<td>621 (2)</td>
<td>GRAVEL (MILLION)</td>
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<td>633 (3)</td>
<td>I-BOAT BARRIERS</td>
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<td>BARRIERS</td>
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<td>PUBLIC INFORMATION PROGRAM</td>
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<td>670 (7)</td>
<td>PAINTED TRAFFIC MARKINGS</td>
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### BASIS OF ESTIMATE

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<tr>
<th>PAY ITEM</th>
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<tr>
<td>REMOVAL OF PAVEMENT</td>
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<td>REMOVAL OF SIDEWALK</td>
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<td>ASPHALT CONCRETE, TYPE A, CLASS B</td>
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<td>UNCLASSIFIED EXCAVATION</td>
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<td>CLASS A CONCRETE</td>
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<td>CONCRETE RENOVATION @ ABUTMENT, WING WALLS,</td>
<td>10.7 TONS (APPROX)</td>
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<td>SIDEWALK AND PILES</td>
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<td>CONCRETE TYPICAL WORK</td>
<td>1000 SF (APPROX)</td>
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<td>WATERPROOF MEMBRANE</td>
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<td>4&quot; #12 PVC PVC ELECTRICAL &amp; COMMUNICATIONS CONDUIT</td>
<td>246 LF (APPROX)</td>
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<tr>
<td>TYPE 3 JUNCTION BOX</td>
<td>1 EACH</td>
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Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE (J.L.) Date 9/4/19

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The COGAR drawing sheet was prepared and drawn by PHX ENGINEERS INC.

PHX ENGINEERS INC.

69661VAC-PR-0082(181)

2012 COGAR
NOTES:
1. SEE SHEET E2.0-E4.0 FOR DRAINAGE AND SEDIMENT PLANS. CONTRACTOR SHALL SUBMIT
   DEMATERIALIZATION AND SEDIMENT PLAN FOR ENGINEER’S REVIEW AND APPROVAL.
2. ALL TEMPORARY STRUCTURES INCLUDING STREAM DIVERSION MATERIALS, Silt Fencing and
   Fiber Rolls shall be removed following construction.
3. THE CONTRACTOR SHALL PROTECT CASTING STATION/BUS INLETS FROM POLLUTED RUNOFF
   WITH FILTERING GEOTEXTILE OR SILT BARRIERS.
4. SEE STANDARD DETAIL E-13.00 SEDIMENT CONTROL SYSTEM FOR IN-WATER INSTALLATIONS.
5. TEMPORARY PROTECTION CONDUIT AND CABLE, SEE SHEET U1.

EROSION CONTROL PLAN

SCALE IN FEET

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: LYN Date: 9/10/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE: [Signature] Date: [Date]

**SECTION-PHASE 3**

- 36" TEMPORARY CULVERT (DRY)
- CULVERT INSERT APPROX. 0.2' BELOW BOTTOM OF STREAM BED
- REINFORCING/ANCHORING SANDBAGS
- SUMP FILTER & DEWATERING PUMP (AS MODELED)

**SECTION-PHASE 4**

- STREAM DIVERSION EXCAVATION (DRY)
- STREAM DIVERSION TO DRIFT WATER INTO CULVERT AND RESTORE DRAINAGE

**ATTACHMENT NUMBER**

**RECORD OF ADDENDUM**

**NO.** | **DATE** | **DESCRIPTION**
---|---|---

**PLAN LEGEND**

- SAND BAGS
- PROPERTY LINE
- FLOW
- FLOW DIRECTION
- EXIST. CONTOUR
- FO CONTOUR

**JUNEAU BRIDGE REPAIR & UPGRADE**

**TROUT STREET BRIDGE**

**NO. 178**

**DIVERSION AND DEWATERING PLAN**

**PROJECT DESIGN**

- 69561/AC-BR-0003(151)
- [State] 2012

**ASSISTANT MANAGER**

**PLANNED PREPARED BY:**

**ENGINEERS, INC.**

**DESIGNER**

**DRAWER**

**DRAWING NO.**

**REV.**

**DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES**

**SOUTHWEST SIDE**
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE 1/5/93  Date 9/10/93

NOTE: All erosion and sediment controls and stream diversion controls removed from streambed immediately following construction and restoration of original stream bed/floors.
# ROAD LAYOUT

<table>
<thead>
<tr>
<th>POINT</th>
<th>STATION</th>
<th>OFFSET (FT)</th>
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<td>PC, ACP</td>
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<td>COR, ACP</td>
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<td>MATCH</td>
<td>PC, ACP</td>
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<td>29</td>
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<td>15.90</td>
<td>MATCH</td>
<td>TRANSITION CURB</td>
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</tbody>
</table>

**NOTE:**
1. WHERE ELEVATIONS ARE NOT PROVIDED, DETERMINE BY PROFILE AND TYPICAL SECTIONS.
2. SEE STRUCTURAL SHEETS FOR ALL STRUCTURAL DETAILS.

---

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE: KJ Date: 10/13/2012

---

**ROAD LAYOUT TABLE**

**PROJECT DRAWING**

**JUNEAU BRIDGE REPAIR & UPGRADE**
**TROUT STREET BRIDGE**
**NO. 1786**

**PLAN NUMBER**

**DATE**

**SCALE**

**SHEET**

**DESIGNER**

**PROJECT ENGINEER**

**DATE**

---

**DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS**

---

**PLANS PREPARED BY**

**F2**

**REVISIONS**

**69661/AC-BR-0003(151)**

**2012**

**29**
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE / Date /}

1. See site plan and layout tables for all layout information.

NOTE:
1. See standard drawing 0-24-07 for steel guardrail details.

NORTHWEST DRIVEWAY

SOUTHWEST DRIVEWAY

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE (A.J.) Date 9/1/03

B R I D G E D R A W I N G I N D E X

<table>
<thead>
<tr>
<th>TITLE</th>
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<tr>
<td>BRIDGE PLAN AND SECTIONS</td>
<td>N1</td>
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<tr>
<td>BRIDGE SITE PLAN</td>
<td>N2</td>
</tr>
<tr>
<td>TYPICAL SIDEWALK SECTION AND DETAILS</td>
<td>N3</td>
</tr>
<tr>
<td>RAILROAD PLAN AND SECTION</td>
<td>N4</td>
</tr>
<tr>
<td>BRIDGE ABUTMENT NO. 1 (NORTHWEST)</td>
<td>N5</td>
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<tr>
<td>BRIDGE ABUTMENT NO. 2 (SOUTHEAST)</td>
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</tr>
<tr>
<td>ABUTMENT DETAILS</td>
<td>N7</td>
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<tr>
<td>BRIDGE VOICE SLAB GRERIGERS</td>
<td>N8</td>
</tr>
<tr>
<td>BRIDGE RAIL ON CURB</td>
<td>N9</td>
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<tr>
<td>BRIDGE RAIL DETAILS</td>
<td>N00</td>
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</tbody>
</table>

TYPICAL BRIDGE TRANSVERSE SUPERSTRUCTURE SECTION

24'-0" OUT-TO-OUT, ROADWAY

2" ASPHALT CONCRETE PAVEMENT OVERLAY, CROWNED, AT CENTER AS SHOWN.

W-SECTION, MONUMENT POST, TYP.

CIP CONCRETE CURB

PRECAST CONCRETE VOILED SLAB BRIDGE, TYP.

W-SECTION, GUARDRAIL, TYP.

EDGE OF CURB

CIP CONCRETE SIDEWALK / CURB

CIP CONCRETE CURB

STRAIGHT SECTION

CAST-IN-PLACE ARGUMENT WITH WING WALL, TYP.

HEAVY PIPE, TYP.

STRAIGHT SECTION

B R I D G E - L O N G I T U D I N A L S E C T I O N

CIP CONCRETE CURB, TYP.

W-SECTION, GUARDRAIL, TYP.

STA 1+86.00 (0.0.B.)
ELEV. = +22.87
TO JORDAN AVE

R-SECTION, GUARDRAIL, TYP.

STA 1+86.00 (0.0.B.)
ELEV. = +22.87
TO JORDAN AVE

R-SECTION, GUARDRAIL, TYP.

CIP CONCRETE CURB

TO JORDAN AVE

WIDTH OF ROADWAY

8'-0" OUT-TO-OUT, ROADWAY

PRECAST CONCRETE VOILED SLAB BRIDGE, TYP.

W-SECTION, GUARDRAIL, TYP.

EDGE OF CURB

CIP CONCRETE SIDEWALK / CURB

CIP CONCRETE CURB

STRAIGHT SECTION

CAST-IN-PLACE ARGUMENT WITH WING WALL, TYP.

HEAVY PIPE, TYP.

STRAIGHT SECTION

B R I D G E D E C K - P L A N

CIP CONCRETE CURB, TYP.

W-SECTION, GUARDRAIL, TYP.

STA 1+86.00 (0.0.B.)
ELEV. = +22.87
TO JORDAN AVE

R-SECTION, GUARDRAIL, TYP.

STA 1+86.00 (0.0.B.)
ELEV. = +22.87
TO JORDAN AVE

R-SECTION, GUARDRAIL, TYP.

CIP CONCRETE CURB

TO JORDAN AVE

WIDTH OF ROADWAY

8'-0" OUT-TO-OUT, ROADWAY

PRECAST CONCRETE VOILED SLAB BRIDGE, TYP.

W-SECTION, GUARDRAIL, TYP.

EDGE OF CURB

CIP CONCRETE SIDEWALK / CURB

CIP CONCRETE CURB

STRAIGHT SECTION

CAST-IN-PLACE ARGUMENT WITH WING WALL, TYP.

HEAVY PIPE, TYP.

STRAIGHT SECTION

B R I D G E - L O N G I T U D I N A L S E C T I O N
**SIDEWALK AND CURB GENERAL NOTES**

THE FOLLOWING ARE GENERAL NOTES THAT APPLY TO SIDEWALK CONSTRUCTION:

1. All reinforcing steel shall have minimum of 2" concrete cover except as needed.
2. All joints shall be edged.
3. Expansion joints and control joints shall be max. 5', min. 3', with no gaps for water intrusion. Joints shall be located as shown on bridge plan.
4. Steel trenching finished required prior to broom finish.
5. Engineer approved concrete curing compound shall be applied, per manufacturer's recommendations, to all exposed sidewalk surfaces.

---

**DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS**

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**SIDEWALK CONTROL JOINT DETAIL AT BOB AND EOB**

**SIDEWALK CONTROL JOINT DETAIL**

---

**Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.**

PE [Name] Date [Date]
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE (KJL) Date 9/16/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE (KJ) Date 7/10/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

JUNEAU BRIDGE REPAIR & UPGRADE
TROUT STREET BRIDGE
NO. 1786
BRIDGE ABUTMENT NO. 2
(SOUTHEAST)

PLAN PREPARED BY
PV DESIGN INC., INC.
A typical bridge rail section.

- 1/2" K-strg pipe
- HSS 3.4 x 8.5/8" top rail
- Provide 1/4" hole centered thru 3/8" of tube at EA pipe location as shown.

- 1/2" K-strg pipe
- HSS 3.4 x 8.5/8" top rail
- Provide 1/4" hole centered thru 3/8" of tube at EA pipe location as shown.

- 3/4" x 1 1/2" slooted hole, TYP
- 3/4" post cap plate

B. Typical Bicycle Railing Post Detail
- Note: Tube rail and W-Beam not shown for clarity.

C. Typical Post Detail

D. Typical Rail Post Cap Detail

E. Typical Bicycle Rail Splice Detail

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

NOTES:
1. LOCATIONS OF THE PROPOSED TEMPORARY AND PERMANENT UTILITIES ARE APPROXIMATE. FIELD VERIFY ALL LOCATIONS.

PROJECT LIMITS

JORDAN AVENUE

EXISTING UNDERGROUND COMM TO REMAIN

45° SWEEP

ELECTRICAL CONDUIT AND CABLE BY OTHERS

TEMPORARY OVERHEAD COMMUNICATION LINE

TEMPORARY OVERHEAD COMMUNICATION LINE

TEMPORARY UTILITY POLE, BY OTHERS, LOCATIONS TO BE FIELD VERIFIED.

UNDERGROUND ELECTRICAL LINE, TYP. BY OTHERS

TYPE 1 JUNCTION BOX IN SIDEWALK, SEE DETAIL 12.310. 45° SWEEP. SEE TYPICAL DETAIL.

PROJECT LIMITS

SCHEDULE 40 PVC CONDUIT

END CONDUIT ADJACENT TO EXIST. CABLE

TROUT STREET

UTILITY TRENCH SECTION

UTILITY CONDUIT TRANSITION AT BRIDGE ABUTMENT

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS