STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
PLANS FOR THE BRIDGE REPLACEMENT OF
SANTA FE AVENUE BRIDGE
OVER TUOLUMNE RIVER
(STATE BRIDGE NO. 38C-0003)

FEDERAL AID PROJECT
BRLS-5938(188)
TO BE SUPPLEMENTED BY CALTRANS 2010 STANDARD PLANS
AND CALTRANS 2010 STANDARD SPECIFICATIONS

LENGTH OF PROJECT = 2500 L.F.

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES)
of license as specified in the "NOTICE TO CONTRACTORS."
NOTES:

1. STRUCTURAL SECTION REMOVAL AREA IS INCLUDED AS ROADWAY EXCAVATION.

LEGEND:

- REMOVE BASE AND SURFACING
- REMOVE STRUCTURAL SECTION (SEE NOTE 1)
- RELOCATE BOLLARD
- STAGING AREA
NOTES:
1. FOR DWG/OEW DESIGN, SEE SHEET C-1.
2. FOR BRIDGE BARRIERS, SEE STRUCTURE PLANS.
3. FOR BRIDGE, SEE STRUCTURE PLANS.

CURVE DATA

<table>
<thead>
<tr>
<th>No.</th>
<th>Radius (ft)</th>
<th>Delta (ft)</th>
<th>Tangent (ft)</th>
<th>Length (ft)</th>
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<tbody>
<tr>
<td>1</td>
<td>1174.00</td>
<td>23° 04' 19&quot;</td>
<td>532.83</td>
<td>1035.52</td>
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SF 15426.70 32.00' LT
END RADIUS
SF 15426.70 8.00' LT
ANGLE POINT
END COLD PLANE AC PAVEMENT
END YMA OVERLAY

SF 15416.28 45.00' LT
BEGIN RADIUS
END YMA (TYPE A)
12" CLASS 2 AC

SF 15416.28 8.00' LT
BEGIN RADIUS
END YMA (TYPE A)
12" CLASS 2 AC OVERLAY

CURVE (TYPE A)

SF 25444.63 32.00' LT
END ALTERNATIVE IN-LINE TERMINAL SYSTEM
SF 25444.63 20.00' LT
END YGA
BEGIN ALTERNATIVE IN-LINE TERMINAL SYSTEM
SF 25444.63 18.00' LT
BEGIN RADIUS
END YMA (TYPE A)
12" CLASS 2 AC

POST 200 LF FENCE (BARBED WIRE)
LEGEND:
- CUT AND FILL LIMITS
- HYDROSEED 1
- HYDROSEED 2
- HYDROSEED 3

NOTES:
1. TEMPORARY FENCE (TYPE ESA) TO BE INSTALLED PRIOR TO INITIATING STAGE 1 WORK.
2. ALL EROSION CONTROL WORK TO BE COMPLETED NO LATER THAN COMPLETION OF STAGE 2 CONSTRUCTION.
3. PLACE HYDROSEED AND TEMPORARY HYDRAULIC MULCH UPON COMPLETION OF GROUND DISTURBING ACTIVITIES.
4. FOR TEMPORARY BMP, SEE TEMPORARY WATER POLLUTION CONTROL PLANS IN THE SMP.

THIS AREA IS HABITAT OF THE VALLEY ELDERBERRY LONGHORN BEETLE, A THREATENED SPECIES, AND MUST NOT BE DISTURBED. THIS SPECIES IS PROTECTED BY THE ENDANGERED SPECIES ACT OF 1973, AS AMENDED. VIOLATORS ARE SUBJECT TO PROSECUTION, FINES, AND IMPRISONMENT.
EROSION CONTROL QUANTITIES

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<th>ITEM</th>
<th>QUANTITY</th>
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<tr>
<td>Hydroseed 1</td>
<td>62,000 SQFT</td>
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<td>Hydroseed 2</td>
<td>6,000 SQFT</td>
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<td>Hydroseed 3</td>
<td>48,000 SQFT</td>
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<tr>
<td>Trenching Easement</td>
<td>1,600 LF</td>
</tr>
<tr>
<td>Fence Roll</td>
<td>3,500 LF</td>
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**NOTES:**
1. FIBER MUST BE WOOD FIBER, CELLULOSE FIBER OR A COMBINATION OF THESE FIBERS.
2. TACKIFIER MUST BE A PLANT BASED PRODUCT.
3. SEED MUST BE FROM NATIVE, LOCAL PARENT MATERIAL SOURCED FROM THE TULUCOMA RIVER WATERSHED AND BE PRODUCED IN CALIFORNIA.

<table>
<thead>
<tr>
<th>COMMON NAME</th>
<th>SCIENTIFIC NAME</th>
<th>PLS LB/ACRE</th>
<th>% PURITY</th>
<th>% GERM.</th>
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<td><strong>HYDROSEED 1</strong></td>
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<tr>
<td>Annual Lupine</td>
<td>Lupinus annualis</td>
<td>2.00</td>
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<tr>
<td>California Barley</td>
<td>Hordeum brachyantherum spp. californicum</td>
<td>1.00</td>
<td>90</td>
<td>80</td>
</tr>
<tr>
<td>California Broom</td>
<td>Bromus carinatus</td>
<td>8.00</td>
<td>95</td>
<td>90</td>
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<tr>
<td>California Poppy</td>
<td>Eschscholtzia californica spp. abetecna</td>
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<tr>
<td>Chick Lupine</td>
<td>Lupinus microcarpus spp. microcarpus</td>
<td>2.00</td>
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<td>85</td>
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<tr>
<td>Narrowleaf Willow</td>
<td>Asclepias fascicularis</td>
<td>1.00</td>
<td>90</td>
<td>65</td>
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<tr>
<td>Purple Needlegrass</td>
<td>Stipa californica</td>
<td>2.00</td>
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<td>75</td>
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<tr>
<td>Redstem Goatsbeard</td>
<td>Salix joyonioides</td>
<td>25.00</td>
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<td>85</td>
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<tr>
<td>Small Pendulous</td>
<td>Volua microstachys</td>
<td>1.00</td>
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<td>Spanish Fritillaries</td>
<td>Fritillaria camptotricha</td>
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<td>Western Yarrow</td>
<td>Achillea millefolium spp. lanceolosa</td>
<td>0.10</td>
<td>98</td>
<td>85</td>
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</table>

| **HYDROSEED 2**   |                                          |             |          |         |
| Bearless Wildrye  | Elymus triticegus                       | 7.00        | 90       | 80      |
| California Barley | Hordeum brachyantherum spp. californicum| 3.50        | 90       | 80      |
| California Broom  | Bromus carinatus                       | 9.00        | 95       | 90      |
| California Poppy  | Eschscholtzia californica spp. abetecna |
| Purple Needlegrass| Stipa californica                       | 1.00        | 98       | 80      |
| Redstem Goatsbeard| Salix joyonioides                       | 3.00        | 90       | 75      |
| Valley Woad      | Carex hystericosa                      | 25.00       | 98       | 85      |
| Western Yarrow    | Achillea millefolium spp. lanceolosa     | 0.15        | 90       | 70      |

| **HYDROSEED 3**   |                                          |             |          |         |
| Bearless Wildrye  | Elymus triticegus                       | 5.00        | 90       | 80      |
| California Barley | Hordeum brachyantherum spp. californicum| 1.00        | 90       | 80      |
| California Broom  | Bromus carinatus                       | 8.00        | 95       | 90      |
| California Poppy  | Eschscholtzia californica spp. abetecna |
| Woad              | Antennaria dioecigama                   | 0.25        | 15       | 40      |
| Wildrye           | Baccharis halimifolia                   | 0.15        | 10       | 20      |
| Narrowleaf Willow | Asclepias fascicularis                  | 1.00        | 90       | 65      |
| Purple Needlegrass| Stipa californica                       | 2.00        | 90       | 75      |
| Redstem Goatsbeard| Salix joyonioides                       | 20.00       | 98       | 85      |
| Spanish Fritillaries| Agafonon americana                     | 2.00        | 98       | 75      |
| Valley Woad      | Carex hystericosa                      | 0.25        | 90       | 70      |
| Western Yarrow    | Achillea millefolium spp. lanceolosa     | 0.10        | 98       | 85      |
NOTES:

1. FOR MANHOLE, CATCH BASIN ALTERNATIVE AND G.O. CATCH BASIN, see 2014 COUNTY STANDARD DRAWDINGS 4-47, 4-482 AND 4-3-203.

2. FOR RSP, BIOSWALE AND WAX APRON, SEE DRAINAGE DETAILS.
NOTES:
1. FOR MANHOLE AND CATCH BASIN ALTERNATIVE, SEE 2014 COUNTY STANDARD DRAWINGS 4-FT AND 4-GS.
2. FOR INLA APRON, SEE DRAINAGE DETAILS.
NOTES:
1. FOR MANHOLE, SEE 2014 COUNTY
   STANDARD DRAWING 4-C.
2. FOR CATCH BASIN ALTERNATIVE, SEE COUNTY STANDARD
   DRAWING 4-05.
3. FOR ISP AND MAX APRON, SEE DRAINAGE
   DETAILS.
4. STAY-OFFSET FOR SYSTEM INLETS ARE GIVEN TO
   THE CENTER OF GRATE AT FLOORING.
5. STAY-OFFSET FOR MANHOLE ARE GIVEN TO
   THE CENTER OF ISP.
NOTES:
1. FOR CATCH BASIN ALTERNATIVE, SEE COUNTY STANDARD DRAWING 4-09.

HMA APRON ☞

SECTION C-C

RSP 3 4 5 6 7 8

SYSTEM/UNIT | T | B | W | L | Z | Y
---|---|---|---|---|---|---
SI | 0.25 | 4.5 | 4.5 | 12.0 | 2 | 2

SECTION D-D

HMA APRON ☞

NOTES:
1. FOR CATCH BASIN ALTERNATIVE, SEE COUNTY STANDARD DRAWING 4-09.

RSP ☞
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<th>SHEET SYSTEM NO.</th>
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<th>SHEET MANUFACTUERS</th>
<th>SHEET DECORATIVE</th>
<th>SHEET MATERIAL</th>
<th>SHEET FINISH</th>
<th>SHEET DIMENSIONS</th>
<th>SHEET ORIG.</th>
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**Description:**

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<tr>
<th>Station</th>
<th>Description</th>
<th>Dimensions</th>
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<td></td>
<td>DRAIN PIPE</td>
<td>111 X 0.5</td>
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<td></td>
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<tr>
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<td>CATCH BASIN</td>
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<td>CATCH BASIN ALTERNATIVE</td>
<td>8.5 X 0.5</td>
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**Note:**

- This quantity includes curb and apron per St. Clair County Std. - 04.
LEGEND:

UTILITY

EXISTING

PROPOSED

GAS (POLE)

---/---

---/---

UC TELEPHONE

---/---

---/---

STORM DRAIN

---/---

---/---

ELEC/TELEVISION/FIBER OPTIC

---/---

---/---

ELEC/TELEVISION

---/---

---/---

ELECTRICAL/TELEPHONE

---/---

---/---

NOTE:

1. Locations of existing utilities shown on these plans are approximate. Contractor shall verify the exact location of all utilities within the construction limits.
NOTES:

1. LOCATION OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT SIGN LOCATION IS TO BE DETERMINED BY THE ENGINEER.
LEGEND:

- CONSTRUCTION - THIS STAGE
- CONSTRUCTION - NIGHT WORK
- PORTABLE DELIMITERS
- TEMPORARY RAILING (TYPE K)
- TEMPORARY TRAFFIC STRIPE (PAINT)

NOTES:

1. DRIVEWAY ACCESS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.

REMOVE THERMOPLASTIC TRAFFIC STRIPE
REMOVE THERMOPLASTIC PAVEMENT MARKING
DIIRECTION OF TRAVEL

DETAIL A-A
NIGHT WORK ONLY
NO SCALE

DETAIL A-A
NO SCALE
NOTES:
1. DRIVEWAY ACCESS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.

LEGEND:
CONSTRUCTION - THIS STAGE
CONSTRUCTION - NIGHT WORK
TEMPORARY RAILING (TYPE K)
TEMPORARY TRAFFIC STRIPE (PAINT)
REMOVE THERMOPLASTIC TRAFFIC STRIPE
REMOVE THERMOPLASTIC PAVEMENT MARKING
DIRECTION OF TRAVEL
### PAVEMENT DELINEATION QUANTITIES

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<thead>
<tr>
<th>DETAIL NO.</th>
<th>FROM</th>
<th>TO</th>
<th>THERMOPLASTIC (HT)</th>
<th>PAVEMENT MARKER (EA)</th>
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<td>22</td>
<td>S5F 4+16</td>
<td>S5F 8+32</td>
<td>834</td>
<td>36</td>
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**TOTAL** 5575 845 8808 432 33

### PAVEMENT MARKING QUANTITIES

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**TOTAL** 222

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**TOTAL** 5 4 4

**SPECIFICATION = ENVIRONMENTAL**
### ROADWAY QUANTITIES

<table>
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<tr>
<th>LOCATION</th>
<th>HOT MIX ASPHALT (TYPE A)</th>
<th>CLASS 2 AGGREGATE BASE</th>
<th>COLD PLANE ASPHALT CONCRETE PAVEMENT</th>
<th>RWA Dike (TYPE 1)</th>
<th>RWA Dike (TYPE 2)</th>
<th>REMOVE BASE AND SURFACING</th>
<th>DELIMITED SURFACING</th>
<th>IMPORTED SORROW</th>
<th>ROADWAY EXCAVATION</th>
<th>TRANSITION RAILING TYPE MD-31</th>
<th>MIDWEST GUARDRAIL SYSTEM</th>
<th>ALTERNATIVE IN-LINE TERMINAL SYSTEM</th>
<th>ADJUSTED SURVEY MONUMENT TO GRADE</th>
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### BOLLARD & FENCE QUANTITIES

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<tr>
<th>LOCATION</th>
<th>RELOCATE BOLLARD</th>
<th>RETIRE BROWN IRON</th>
<th>REMOVE FENCE (CHAIN LINK)</th>
<th>REMOVE FENCE (BAR)</th>
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<th>FENCE (CHAIN LINK)</th>
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<td>SCIENTIFIC NAME</td>
<td>PLANT SPACING</td>
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<td>VALLEY OAK Woodland</td>
<td>MIGHTOW SAND BAR</td>
<td>BIOSWALE</td>
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</tbody>
</table>

**NOTES:**
1. USE HYDROSEED SEE EROSION CONTROL PLANS.
2. REVEGETATION AREA ARE TO BE REPLANTED POST CONSTRUCTION WITH THE NATIVE PLANT SPECIES SPECIFIED IN THE REVEGETATION QUANTITY TABLE.
3. INDIVIDUALS OF EACH SPECIES ARE TO BE EVENLY DISTRIBUTED THROUGHOUT PLANTING AREAS.
4. PLANT MATERIALS USED IN REVEGETATION MUST BE SOURCED WITHIN 100 MILES OF THE PROJECT AREA.
5. ALL PLANTS MUST BE WELL ROOTED IN THEIR CONTAINERS AND IN GOOD HEALTH PRIOR TO PLANTING.
6. TREES MUST BE IN A 4" X 4" DOLLAR OR EQUIVALENT CONTAINER.
7. SHRUBS AND HERBS MUST BE IN A 2.5" X 2.5" DOLLAR OR EQUIVALENT CONTAINER.
8. PLANTING METHOD MUST BE CONSISTENT WITH THE 2010 CALTRANS STANDARD SPECIFICATIONS.
Notes:
- Contours do not include camber.
- Contour interval is 0.10'
- X denotes 10' interval along "SF" line
Notes:
- Contours do not include corner.
- Contour interval is 0.10'.
- X Denotes 10' interval along "SF" Line.
- Form work must be true to the Soffit Grade shown.
TYPICAL WINGWALL ELEVATION

0.79" thick galv sheet metal over drillastic bearing pad. Coat top of pad with silicone grease prior to placing galv sheet metal.

6" x 6" x 6" x 6" steel reinforced drillastic bearing pad

SECTION A-A

0.79" thick galv sheet metal over drillastic bearing pad. Coat top of pad with silicone grease prior to placing galv sheet metal.

BEARING DETAILS

No Scale

SECTION

DETAIL A

0.79" thick galv sheet metal over drillastic bearing pad. Coat top of pad with silicone grease prior to placing galv sheet metal.

DETAIL B

For dimension "a" use "Strip Joint Seat Assembly Maximum Movement Rating = 4" sheet.
NOTE:
For location of Sections C-C and D-D and size and spacing of @ and @ stirrups, see "Pier Details No. 2" sheet.

SECTION C-C
%6 @ 1'-0"

SECTION D-D
%6 @ 1'-0"

For details not shown, see "Section C-C".
Note:
End diaphragm reinforcement must be spaced to avoid joint seal assembly anchorage and post-tensioning materials.

END DIAPHRAGM
\[ \frac{1}{12} = 1'-0" \]

SOFFIT OPENING
\[ \frac{1}{12} = 1'-0" \]

Structure depth varies, parabolic path. Form work must match parabolic path.

Structure depth constant 5'-6"
Structure depth constant 10'-6"
Structure depth constant 12'-6"

No Scale
Does not include allowance for falsework settlement

See "Bat. Replacement Night Roll" sheet

STANISLAUS COUNTY

TUOLUMNE RIVER BRIDGE AT SANTA FE AVE

GIRDER DETAILS

PREPARED FOR

STANISLAUS COUNTY

Tuolumne River Bridge at Santa Fe Ave

Girder Details

Structural Design:

Structural Engineering:

Civil Engineering:

Construction:

Owner:

Specifications:

Contractor:

Plans:

Drawings:

Incorporation:

Notation:

Note:

End diaphragm reinforcement must be spaced to avoid joint seal assembly anchorage and post-tensioning materials.

END DIAPHRAGM
\[ \frac{1}{12} = 1'-0" \]

SOFFIT OPENING
\[ \frac{1}{12} = 1'-0" \]

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Structure depth constant 10'-6"
Structure depth constant 12'-6"

No Scale
Does not include allowance for falsework settlement

Structure depth constant 5'-6"
Structure depth constant 10'-6"
Structure depth constant 12'-6"

See "Bat. Replacement Night Roll" sheet

STANISLAUS COUNTY

TUOLUMNE RIVER BRIDGE AT SANTA FE AVE

GIRDER DETAILS

PREPARED FOR

STANISLAUS COUNTY

Tuolumne River Bridge at Santa Fe Ave

Girder Details

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PREPARED FOR

STANISLAUS COUNTY

Tuolumne River Bridge at Santa Fe Ave

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Construction:

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Specifications:

Contractor:

Plans:

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Structure depth constant 10'-6"
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Structure depth constant 5'-6"
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STANISLAUS COUNTY

TUOLUMNE RIVER BRIDGE AT SANTA FE AVE

GIRDER DETAILS

PREPARED FOR

STANISLAUS COUNTY

Tuolumne River Bridge at Santa Fe Ave

Girder Details

Structural Design:

Structural Engineering:

Civil Engineering:

Construction:

Owner:

Specifications:

Contractor:

Plans:

Drawings:

Incorporation:

Notation:

Note:

End diaphragm reinforcement must be spaced to avoid joint seal assembly anchorage and post-tensioning materials.
ADDITIONAL SOFFIT REINFORCEMENT

\( \frac{1}{4}" = 1'-0" \)

- 4 Spen 2
- 15'-0"
- 25'-0"
- Girders
- \( \#1 \times 60'-0" \) tot 10 per bay
- Big Abut
- Edge of deck
- Girders
- 5'-0"
- 10'-0"
- 5'-0"
- 12'-0"
- \( \#5 \times 6"-0" \), tot 5 per corner. Bundle with alternating top transverse bors where applicable

ADDITIONAL DECK REINFORCEMENT

\( \frac{1}{4}" = 1'-0" \)

- Girders
- 5'-0"
- 10'-0"
- 15'-0"
- 20'-0"
- 25'-0"
- 33'-0"
- Girders
- \( \#1 \times 60'-0" \) tot 4 per overhang
- \( \#1 \times 60'-0" \) tot 12 per bay

PREPARED FOR

STANISLAUS COUNTY

TUOLUMNE RIVER BRIDGE AT SANTA FE AVE

GIRDER REINFORCEMENT
SCHEMATIC STEEL EDGE MEMBER

NOTES:
1. Alternatively, filled or complete penetration welds may be used on anchor studs.
2. Alternate types of anchor studs may be permitted subject to the approval of the Engineer.
3. Joint type assembly to be used in conjunction with closure pour. See other sheets.
4. Joints shall be made in accordance with the temperature and conditions specified.
5. Joint type assembly to be made in one continuous piece and shall be fabricated to the specifications indicated. Field splices of the neoprene are not allowed.
6. Insert Neoprene sheets as required.
7. Anchor stud shall conform to ASTM D10.
8. Anchor stud shall conform to ASTM D10.
OUTLET DETAIL

3" x 10'

NOTE:
Extend RSP 1'-0" beyond each side of outlet pipe.