**DETAIL FOR HYBRID R/C JACKET SEGMENT**

Scale: 1" = 1'-0"

**CONCRETE**

- 4 in. x 4 in. main
- ASTM A615 Grade 60

**NOTES**

- Minimum length of R/C jacket is 8 ft.
- 3 ft. each side of 10" x 11 1/2" bend.

**SECTOR 1'-6"**

**TYPICAL CROSS-SECTION FOR REINFORCED CONCRETE JACKET FOR 16" x 11 1/4" BEND**

**AT STA: 1+38.74**

**SCALE: 1" = 1'-0"**

**PLAN VIEW OF R/C JACKET AT STA: 1+38.74**

**SCALE: 3/4" = 1'-0"**

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**KAONOLU MARKET PLACE**

**FILE: DETAILS - REINFORCED CONCRETE JACKET**

**DATE: 12/10/00**

**DRAWN BY:**

**CHECKED BY:**

**ARCHITECTURAL DESIGN AND ENGINEERING SERVICES**

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CONCRETE: f_c' = 4 ksi
REINFORCEMENT: ASTM A615 Grade 60

TYPE "SB6" HORIZONTAL THRUST BEAM AT
STA. 38+71 AND 38+81

SCALE: 3/8" = 1'-0"
NOTES:
1. ENDS OF SHEET REQUIRED FOR POSTED SPEED LIMITS, 50 M.P.H. OR greater.
2. SEE TABLE 1 FOR ADDITIONAL DIMENSIONS.
3. ENDS OF ROAD SHOULD BE FLANKED AHEAD.
4. ENDS OF ROAD SHALL BE BEACONS OR COLUMNS.
5. TURN SHORTAGE BEAMS, 36" LONG, MAY BE USED.
6. THE APPROPRIATE SPEED O.C. SHALL BE DETERMINED
7. THE SHORTAGE OF SIGNAGE TESTED BY THE ENGINEER.
8. SIGNS OR BEACONSHALL BE INSTALLED AT 25' O.C. OR LARGER.

TWO-LANE HIGHWAY -- ONE LANE CLOSED

FIGURE 1 -- TRAFFIC CONTROL PLAN

GENERAL NOTES FOR TRAFFIC CONTROL PLAN
1. THE ROUTE WILL HAVE HIGHWAY ASSURANCE AT INTERSECTIONS, ENTRANCES, 
   AND EXITS FROM PROPERLY DESIGNATED ROADS.
2. ROADWAY ENDS SHALL BE EXTENDED TO A POINT WHERE THEY ARE 
   CONNECTED TO ADJACENT ROADWAYS.
3. TRAFFIC CONTROL SIGNALS SHALL BE INSTALLED SUCH THAT THE FREE 
   STREAMING IS NOT RECEIVED OR BLOCKED.
4. MINIMUM ROAD WIDTHS SHALL BE 36" TO 48".
5. TRAFFIC SIGNAGE SHALL BE PROPORTIONAL TO ROADWAY WIDTH.
6. TRAFFIC SIGNAGE SHALL BE PLACED AT POINTS OF INTERSECTION.
7. TRAFFIC SIGNAGE SHALL BE PROPORTIONAL TO ROADWAY WIDTH.
8. TRAFFIC SIGNAGE SHALL BE PLACED AT POINTS OF INTERSECTION.
9. TRAFFIC SIGNAGE SHALL BE PROPORTIONAL TO ROADWAY WIDTH.
10. TRAFFIC SIGNAGE SHALL BE PLACED AT POINTS OF INTERSECTION.
11. TRAFFIC SIGNAGE SHALL BE PROPORTIONAL TO ROADWAY WIDTH.
12. TRAFFIC SIGNAGE SHALL BE PLACED AT POINTS OF INTERSECTION.

TABLE 1 FOR TRAFFIC CONTROL PLAN

<table>
<thead>
<tr>
<th>SPEED LIMIT (M.P.H.)</th>
<th>SIGNAL, METHOD OF CONTROL</th>
<th>APPROX. SIGNAGE TO BE PROPORTIONAL TO ROADWAY WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>220</td>
<td>220 x 17</td>
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<tr>
<td>30</td>
<td>220</td>
<td>220 x 17</td>
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<td>220</td>
<td>220 x 17</td>
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<tr>
<td>70</td>
<td>220</td>
<td>220 x 17</td>
</tr>
</tbody>
</table>

NOTE:
1. USE APPROPRIATE SPEED LIMITS.
2. W = WIDTH OF LANE, SHOULDERS, OR DECKS.
3. NOT APPLICABLE FOR TWO-LANE HIGHWAYS.

TYPICAL TRAFFIC CONTROL PLAN WITHIN COUNTY RIGHT—OF—WAY

NOT TO SCALE
TRAFFIC CONTROL PLAN FOR CONSTRUCTION ON SHOULDER OR ROADSIDE OF STATE RIGHT-OF-WAY

GENERAL NOTES FOR TRAFFIC CONTROL PLAN

1. The construction zone shall be marked and guarded at intervals, crosswalks, approach ramp, and at other locations where required by law.
2. Combs to sidewalks shall be extended to a point where two arcs are visible to approaching traffic.
3. Traffic control devices shall be installed such that the area of each device shall be placed as close as feasible to the edge of the roadway.
4. All construction signage shall be placed within the construction zone that they are visible to approaching traffic.
5. Construction signs and or police officers shall be on hand in case of any emergency communications at all times.
6. When approved by the engineer, a temporary road barrier a barrier shall be used when necessary to control vehicle traffic.
7. The speed shall be reduced to the temporary speed limit, and the condition of the roadway shall be maintained at all times.
8. All construction zone shall be a minimum of 50 feet wide.
9. All temporary barriers shall be properly marked or covered whenever the roadway is not fully closed, and the work is not in progress.
10. The speed limit of all signs used for traffic control shall be shown on the plan.
11. All construction zones shall be properly marked or covered whenever the roadway is not fully closed, and the work is not in progress.
12. Reduce speed to 30 mph for two-lane highways.

TABLE 1 FOR TRAFFIC CONTROL PLAN

<p>| TABLE 1 FOR TRAFFIC CONTROL PLAN |
|-----------------|-----------------|-----------------|-----------------|-----------------|</p>
<table>
<thead>
<tr>
<th>POSTED SPEED LIMIT (MPH)</th>
<th>SIGN (HIGHWAY)</th>
<th>TARGET (MPH)</th>
<th>SPACING (FT)</th>
<th>SPACING (IN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>300</td>
<td>10</td>
<td></td>
<td>50</td>
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<tr>
<td>30</td>
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<tr>
<td>50</td>
<td>300</td>
<td>40</td>
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</table>

NOTE:
1. USE OF SPEED LIMIT SIGNS WHEN SPEED LIMIT LESS THAN 30 MPH
2. W = WIDTH OF LANE, SHOULDER, OR STREET
3. NOT APPLICABLE FOR TWO-LANE HIGHWAYS.
TRAFFIC CONTROL PLAN FOR CONSTRUCTION WITHIN STATE RIGHT-OF-WAY – PHASE 2

GENERAL NOTES FOR TRAFFIC CONTROL PLAN

1. The engineer shall make a full assessment of intersections, roundabouts, and safety hazards before establishing traffic control plans for construction.
2. Traffic signs and signals shall be installed such that the signs or signals are visible to motorists approaching from a horizontal plane of 200 feet away.
3. Traffic control signs shall be of reflective or fluorescent materials.
4. All traffic signals shall be turned off during construction hours.
5. All traffic signs and signals shall be removed upon completion of work.
6. Traffic control signs and signals shall be installed in a manner that is not obstructed by any construction equipment.
7. Traffic control signs and signals shall be installed at least 10 feet from the edge of the roadway.
8. All traffic signs shall be removed upon completion of construction.
9. Traffic control signs and signals shall be visible to motorists approaching from a horizontal plane of 200 feet away.
10. The engineer shall make a full assessment of intersections, roundabouts, and safety hazards before establishing traffic control plans for construction.
11. Traffic control signs and signals shall be installed in a manner that is not obstructed by any construction equipment.
12. Traffic control signs and signals shall be installed at least 10 feet from the edge of the roadway.
13. Traffic control signs and signals shall be removed upon completion of work.
14. Traffic control signs and signals shall be visible to motorists approaching from a horizontal plane of 200 feet away.

TABLE 1 FOR TRAFFIC CONTROL PLAN

<table>
<thead>
<tr>
<th>FUTURE LANE (L)</th>
<th>TRUE LANE (T)</th>
<th>LANE WIDTH (L)</th>
<th>TRUE LANE WIDTH (T)</th>
<th>NUMBER OF TIMES LANE WOULD BE CLOSED</th>
<th>NUMBER OF TIMES TRUE LANE WOULD BE CLOSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
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<tr>
<td>80</td>
<td>50</td>
<td>300 W x 17</td>
<td>300 W x 17</td>
<td>60</td>
<td>60</td>
</tr>
</tbody>
</table>

NOTE:
- Use advisory speed limit on posted.
- W = width of lane, measured on or width.
- Not applicable for two-lane highways.

LEGEND
- BOX: CIRCLE OR COLUMNS
- DIRECTION OF TRAFFIC
- FLASHING MEDIAN SIGNAL

NOTES:
1. Construction will take place at night during the hours of 9 PM to 5 AM.
2. Traffic control plan – Phase 1 consists of work within the state right-of-way.
3. No temporary utilities, drainage, or pedestrian crossings are shown for this phase of construction.
4. All temporary work shall be completed upon completion of work.