



Phone: 916.683.7111
Fax: 916.691.3168

Web: www.elkgrovecity.org

8401 Laguna Palms Way
Elk Grove, California 95758

Standards Update Transmittal

Reference Number: 2021-11
Standards: Standard Drawings, ST-13, ST-14A, ST-14B, ST-15A, ST-15B, T-7

Update:

1. Standard Drawings:
 - a. ST-13, TYPICAL STRIPING FOR COLLECTOR STREETS WITH BICYCLE LANES AT INTERSECTIONS WITH THOROUGHFARE OR ARTERIAL STREETS: revise note F to read as “Bike lane shall be in accordance with the current version of the California MUTCD.”
 - b. ST-14A, TYPICAL STRIPING FOR ARTERIAL INTERSECTIONS WITH THOROUGHFARES OR ARTERIALS: revise note D to read as “Pavement legend as per the current version of the California MUTCD at the following locations”; revise note H to read as “All pavement markings and striping as per the current version of the California MUTCD”; revise note I to read as “90’ bay taper as per the current Caltrans HDM.”; revise note L to read as “Bike lane marking shall in be in accordance with the current version of the California MUTCD.”
 - c. ST-14B, TYPICAL STRIPING FOR ATERERIAL INTERSECTIONS WITH COLLECTORS...: revise note C to read as “pavement legends as per the current version of the California MUTCD”; revise note E to read as “Consult with Public Works to determine pocket length”; revise note H to read as “All pavement markings and striping as per the current version of the California MUTCD”; revise note K to read as “90’ bay taper as per the current Caltrans HDM.”; revise note L to read as “Bike lane markings shall be in accordance with the current version of the California MUTCD.”
 - d. ST-15A, TYPICAL STRIPING FOR THOROUGHFARE INTERSECTIONS WITH THOROUGHFARES OR ARTERIALS: revise note H to read as “90’ bay taper as per the current Caltrans HDM.”; revise note I to read as “Bike lane markings shall be in accordance with the current version of the California MUTCD.
 - e. ST-15B TYPICAL STRIPING FOR THOROUGHFARE INTERSECTIONS WITH COLLECTORS: revise note C to read as “Install “BIKE”, “LANE”, and “...” pavement legends as per the current version of the California MUTCD at the following locations”; revise note F to read as “All pavement markings and striping as per the current version of the California MUTCD”; revise note I to read as “90’ bay taper as per the current Caltrans HDM.”; revise note J to read as “Bike lane marking shall in be in accordance with the current version of the California MUTCD.”
 - f. T-7 BIKE LOOP AND BIKE LANE LEGEND INSTALLATION DETAIL: revise note to read as “See the current version of the California MUTCD for pavement marking, arrow, and legend.”



Phone: 916.683.7111
Fax: 916.691.3168

Web: www.elkgrovecity.org

8401 Laguna Palms Way
Elk Grove, California 95758

Effect of Update:

1. Ensure that traffic pavement striping and markings follow the most current version of the California MUTCD.

Request for Update Initiated By:

Ryan Chapman

06/12/2020

Update Reviewed for Conformity and Consistency to Standards:

Shoaib Ahrary

7/29/2021 | 4:46 PM PDT

Shoaib Ahrary, PE, Sr. Civil Engineer

Date

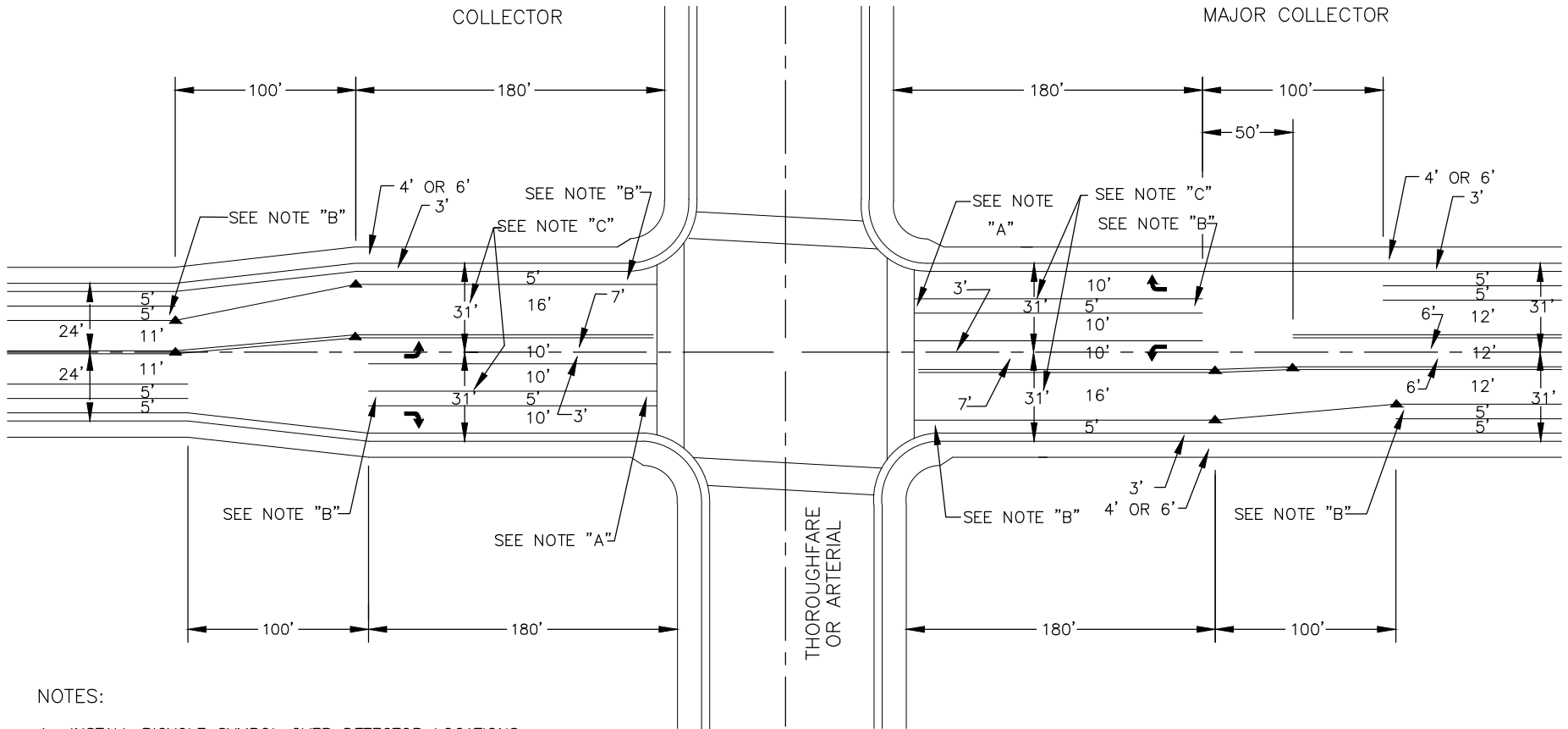
Update to Standards Approved:

Jeffrey R. Werner

7/30/2021 | 4:11 PM PDT

Jeffrey R. Werner, P.E., City Engineer

Date



NOTES:

- A. INSTALL BICYCLE SYMBOL OVER DETECTOR LOCATIONS.
- B. INSTALL "BIKE", "LANE" AND " → " PAVEMENT LEGENDS AT THE FOLLOWING LOCATIONS:
 - APPROXIMATELY 10' PAST CROSSWALKS.
 - AT THE BEGINNING OF BICYCLE LANE ADJOINING RIGHT-TURN LANES.
- C. FOR COLLECTORS WITH 6' SIDEWALKS, THE RIGHT-OF-WAY WIDTH IS 37'.
- D. DIMENSIONS ARE TO CENTERLINE OF STRIPES.
- E. SIDEWALK SHALL BE INCLUDED AS PART OF THE RIGHT-OF-WAY WHEN ADJACENT TO THE BACK OF CURB SUCH AS AT INTERSECTIONS AND DRIVEWAYS.
- F. BIKE LANE MARKINGS SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF THE CALIFORNIA MUTCD.


| | | | |
|---------------------|----|--------------|------------|
| DATE: 09/22/2007 | | NOT TO SCALE | |
| REVISION | BY | APPROVED | DATE |
| 1 | SN | SA | 07-29-2021 |
| | | | |
| | | | |

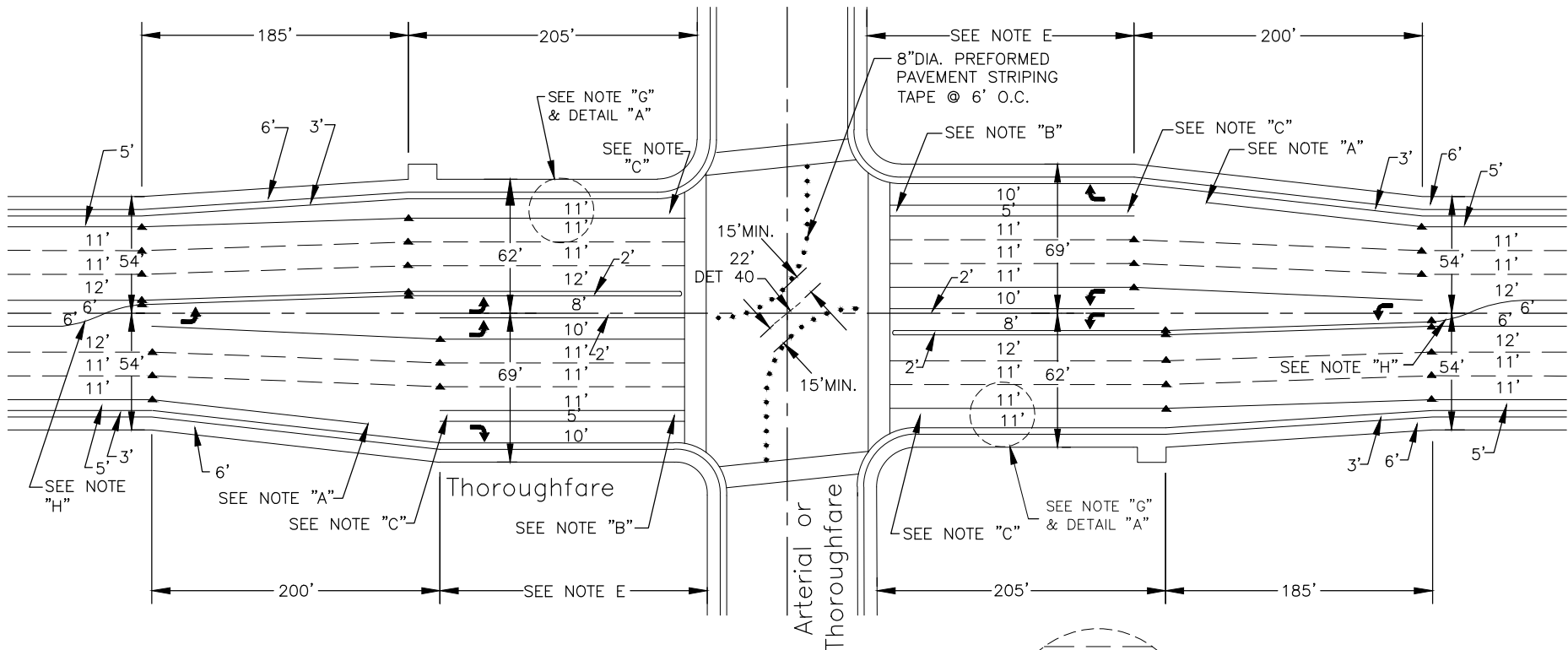
CITY OF ELK GROVE - PUBLIC WORKS

**TYPICAL STRIPING FOR COLLECTOR STREETS
WITH BICYCLE LANES AT INTERSECTIONS
WITH THOROUGHFARE OR ARTERIAL STREETS**

APPROVED BY:
Jeffrey B. W... 07-30-2021
CITY ENGINEER DATE

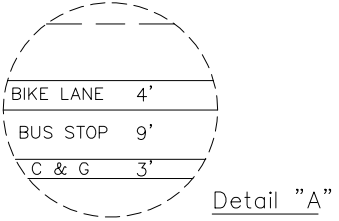
DRAWING NUMBER
ST - 13





NOTES:

- A. BIKE LANE STRIPE TO BE DISCONTINUED APPROXIMATELY 100' FROM RIGHT-TURN LANE AND RESUMED AT BEGINNING OF RIGHT-TURN ONLY LANE.
- B. INSTALL BICYCLE SYMBOL OVER DETECTOR LOCATIONS.
- C. INSTALL "BIKE", "LANE" AND " → " PAVEMENT LEGENDS AT THE FOLLOWING LOCATIONS:
 - APPROXIMATELY 10' PAST CROSSWALKS.
 - AT THE BEGINNING OF BICYCLE LANE ADJOINING RIGHT-TURN LANES.
- D. DIMENSIONS ARE TO CENTERLINE OF STRIPES.
- E. LENGTH OF APPROACH ADJACENT TO RIGHT TURN LANE SHALL BE: 200' APPROACHING A THOROUGHFARE / SPECIAL THOROUGHFARE. 190' APPROACHING AN ARTERIAL / PRIMARY ARTERIAL.
- F. SIDEWALK SHALL BE INCLUDED AS PART OF THE RIGHT-OF-WAY WHEN ADJACENT TO THE BACK OF CURB SUCH AS AT INTERSECTIONS AND DRIVEWAYS.
- G. IF THE DRIVEWAY, APPROVED BY PUBLIC WORKS, IS WITHIN THE EXPANDED INTERSECTION, ADDITIONAL 2 FEET RIGHT-OF-WAY WILL BE REQUIRED. SEE DETAIL "A".
- H. 90° BAY TAPER AS PER THE CURRENT CALTRANS HDM.
- I. BIKE LANE MARKINGS SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF THE CALIFORNIA MUTCD.



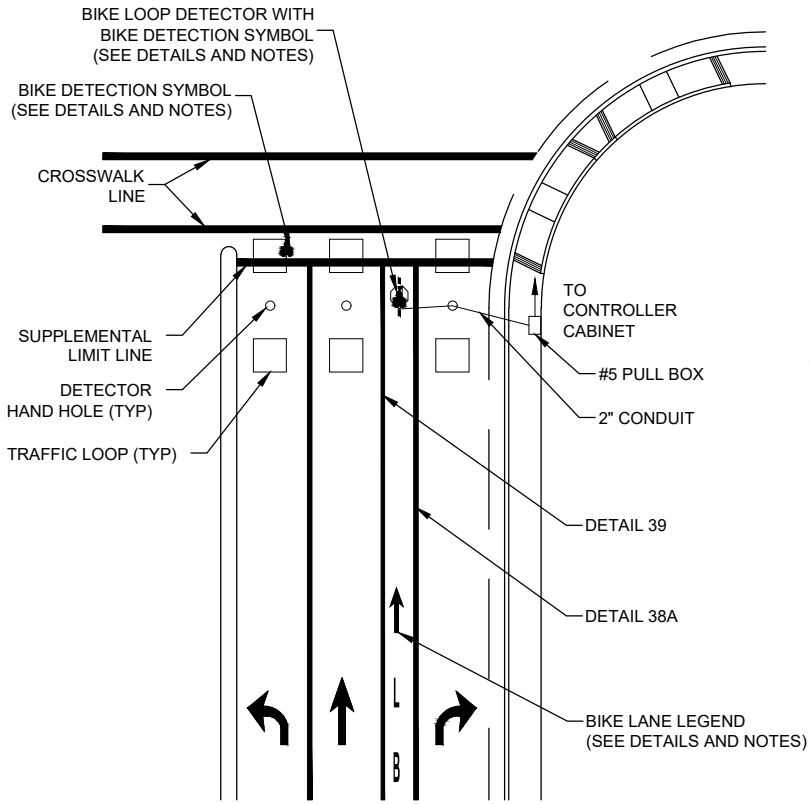
| | | | |
|---------------------|----|--------------|------------|
| DATE: 09/22/2007 | | NOT TO SCALE | |
| REVISION | BY | APPROVED | DATE |
| 1 | SN | SA | 07-29-2021 |
| | | | |
| | | | |

CITY OF ELK GROVE - PUBLIC WORKS

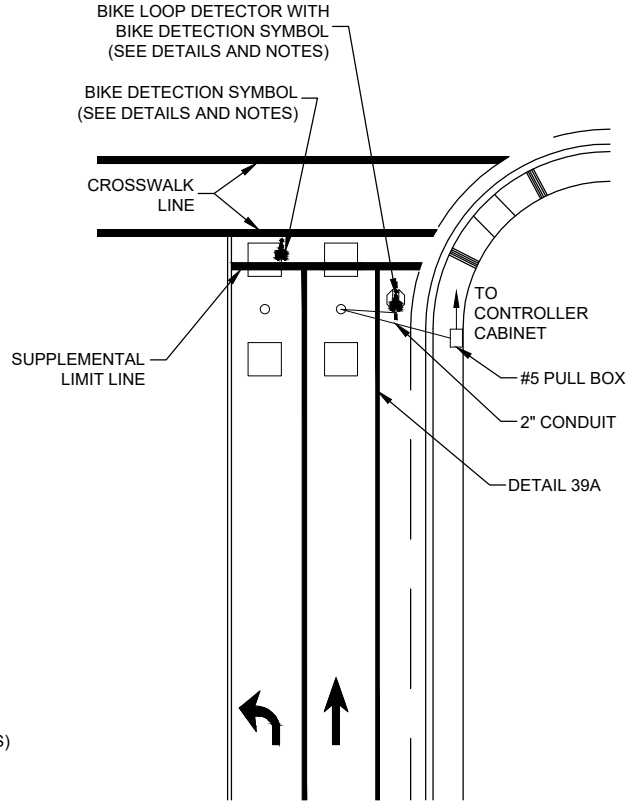
TYPICAL STRIPING FOR THOROUGHFARE INTERSECTIONS WITH THOROUGHFARES OR ARTERIALS

APPROVED BY:
Jeff B. Wan 07-30-2021
CITY ENGINEER DATE

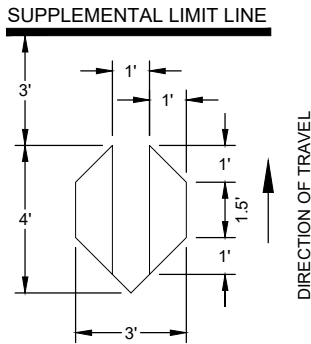
DRAWING NUMBER
ST - 15A



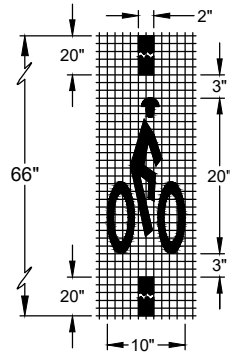
BIKE LOOP INSTALLATION AT MAJOR INTERSECTION WITH RIGHT TURN LANE



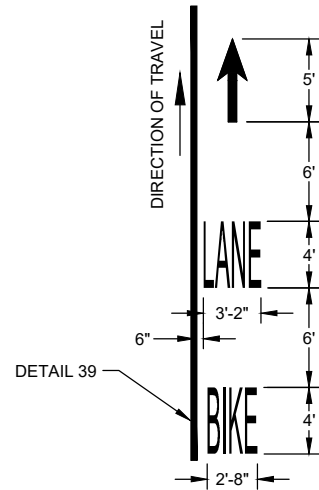
BIKE LOOP INSTALLATION ADJACENT TO CURB AND GUTTER



BIKE LOOP DETECTOR DETAIL
NOT TO SCALE



BIKE DETECTION SYMBOL DETAIL
NOT TO SCALE



BIKE LANE LEGEND DETAIL
NOT TO SCALE

SEE THE CURRENT VERSION OF THE CALIFORNIA MUTCD FOR PAVEMENT MARKING, ARROW, AND LEGEND

NOTES:

1. BIKE LOOP SHALL BE INSTALLED WITH CONDUIT, DETECTOR HANDHOLE (DH) AND DETECTOR LEAD IN CABLE (DLC) AND CONNECTED IN CONTROLLER WITH SEPARATE CHANNEL FOR OPERATION, UNLESS OTHERWISE NOTED ON THE PLANS.
2. FOR BIKE LANE WITH LESS THAN 3 FEET IN WIDTH, MEASURING FROM BIKE LANE STRIPE AND LIP OF GUTTER, USE 3/4 SIZE OF BIKE LANE LEGEND.
3. BIKE LANE LEGENDS, ARROWS AND BIKE DETECTION SYMBOLS SHALL BE 2 COATS WATER BASED WHITE PAINT PER SECTION 84-3.02 OF THE STATE STANDARD SPECIFICATIONS.
4. BIKE DETECTION SYMBOL SHALL BE INSTALLED ON LOOP DETECTOR FOR LEFT TURN LANE, BIKE LANE AND OUTSIDE THROUGH LANE WHERE NO BIKE LANE IS PROPOSED. FOR DUAL LEFT TURN LANES, ONLY THE OUTSIDE LEFT TURN LANE SHALL BE INSTALLED WITH BIKE DETECTION SYMBOL. COORDINATE WITH SIGNAL CONTRACTOR AND CITY INSPECTOR FOR EXACT LOCATION OF DETECTION.

| | | | |
|---------------------|----|--------------|------------|
| DATE: 09/22/2007 | | NOT TO SCALE | |
| REVISION | BY | APPROVED | DATE |
| 1 | SN | SA | 07-29-2021 |
| | | | |
| | | | |

CITY OF ELK GROVE - PUBLIC WORKS

**BIKE LOOP AND BIKE LEGEND
INSTALLATION DETAIL**

APPROVED BY:
Jeffrey B. W... 07-30-2021
CITY ENGINEER DATE

DRAWING NUMBER
T - 7

