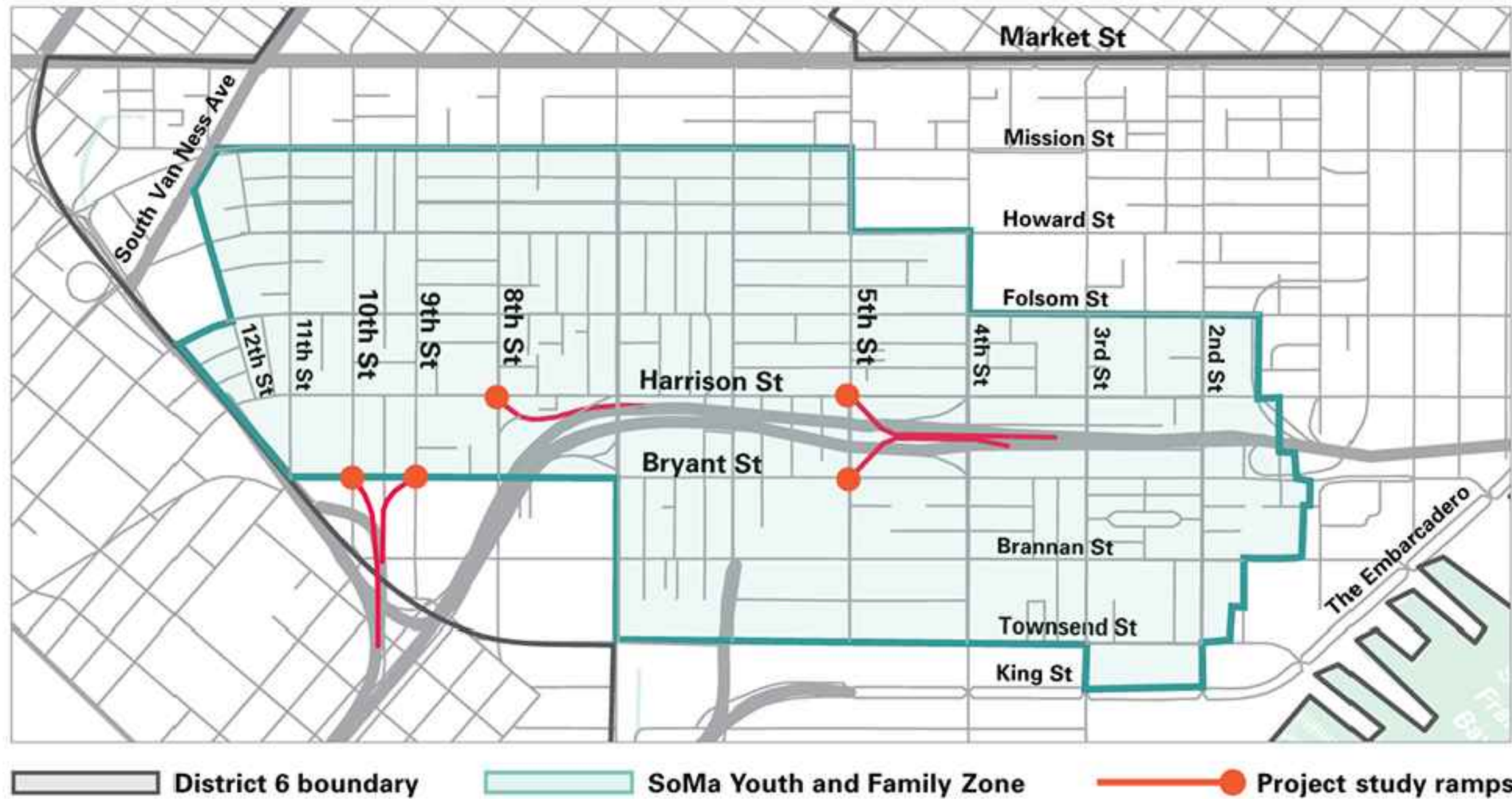
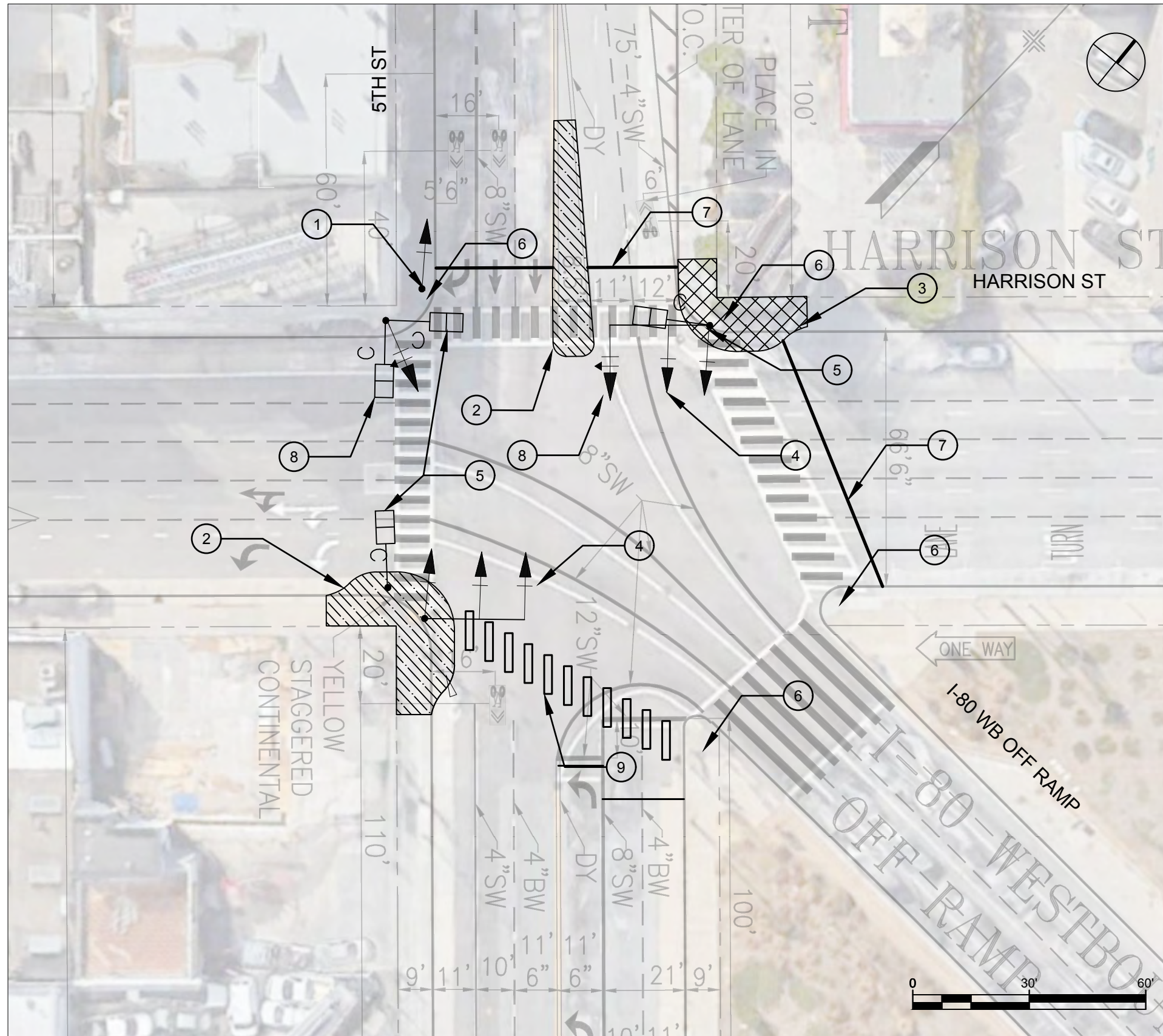


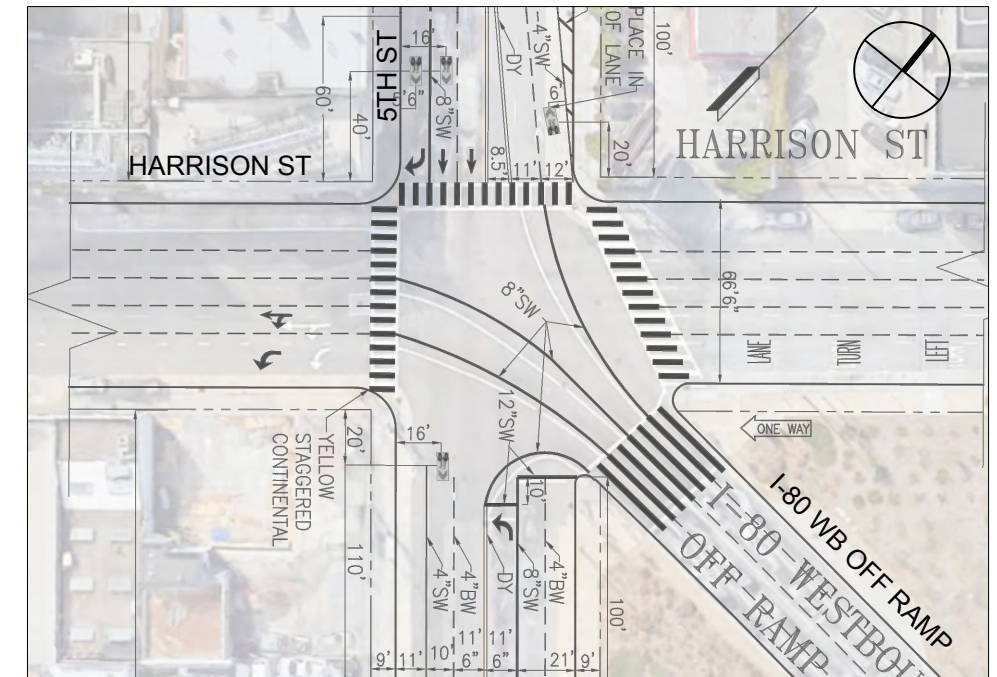
VISION ZERO SF

RAMP INTERSECTION IMPROVEMENT CONCEPTS





HARRISON STREET / 5TH STREET

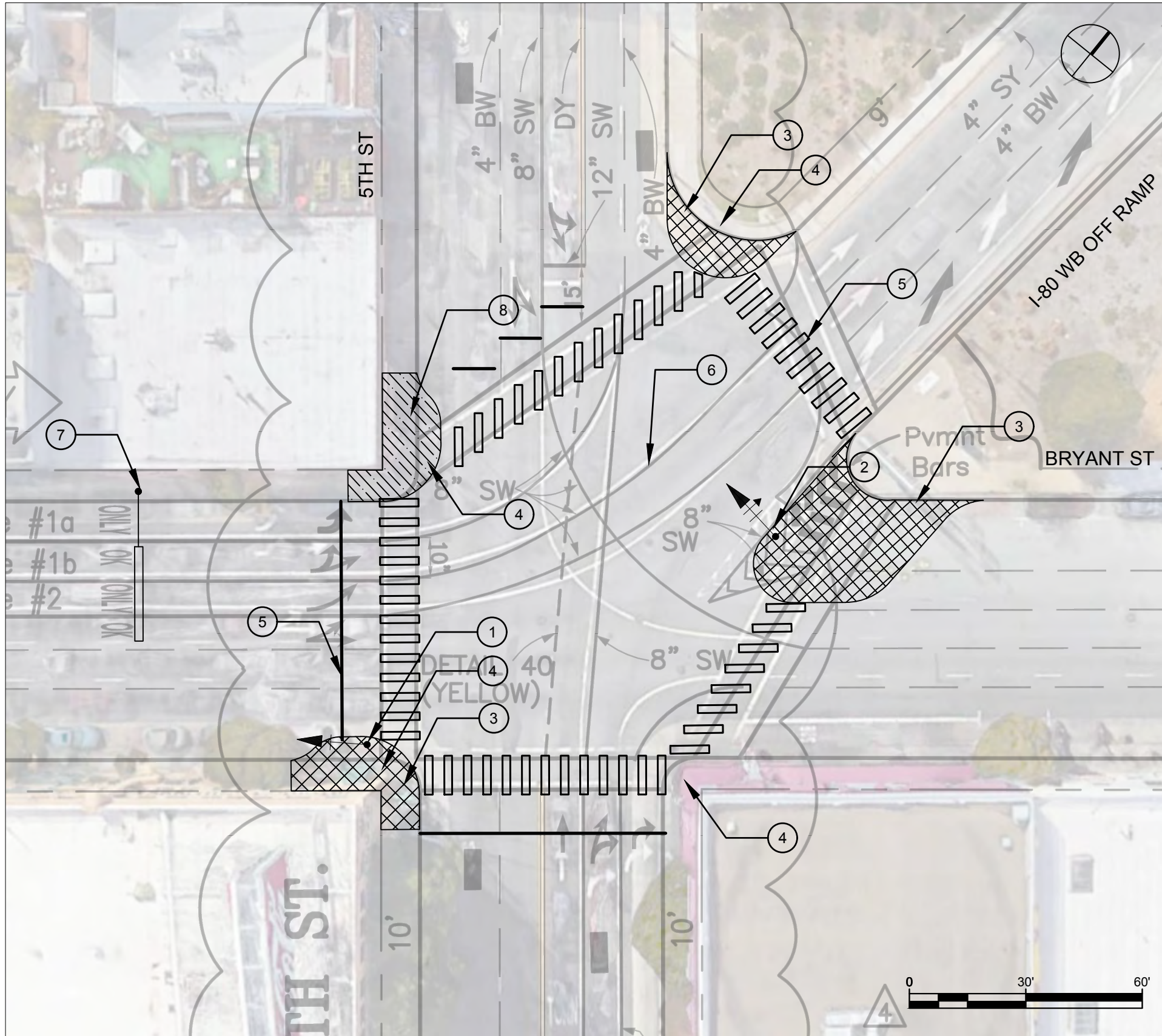


EXISTING CONDITIONS

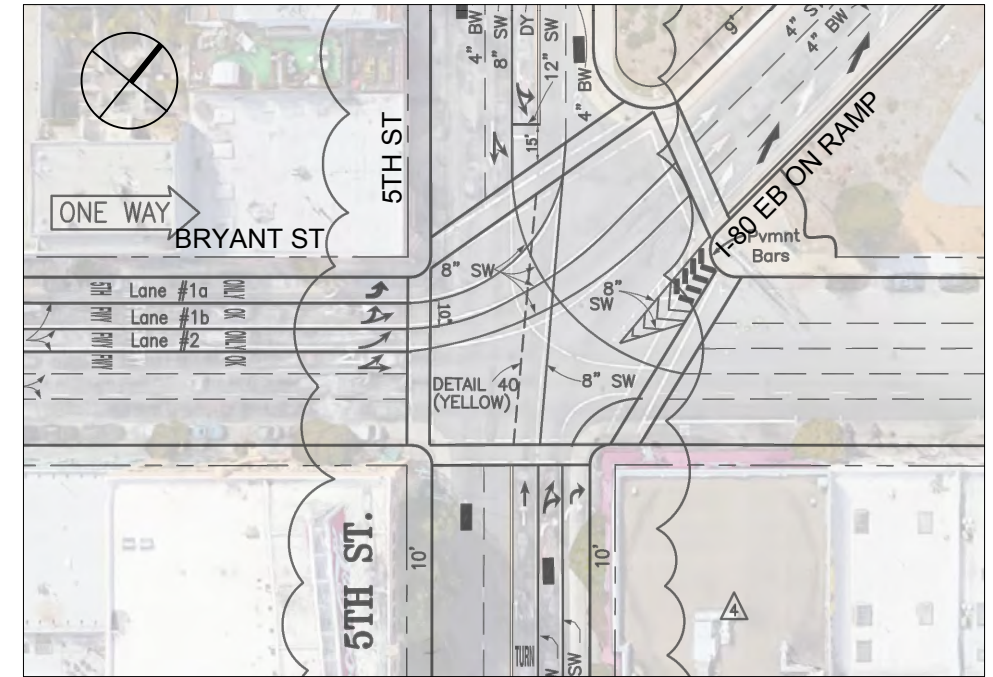
IMPROVEMENT CONCEPTS:

- ① INSTALL NEARSIDE TRAFFIC SIGNAL
- ② CONSIDER TEMPORARY INSTALLATION OF BULB AND MEDIAN UNTIL 5TH STREET STREETScape PROJECT PLANNING IS FINALIZED
- ③ INSTALL PEDESTRIAN BULB
- ④ INSTALL TRAFFIC SIGNAL MAST ARM POLE
- ⑤ PROVIDE LEADING PEDESTRIAN INTERVAL PHASING
- ⑥ UPGRADE 8" TRAFFIC SIGNAL HEADS TO 12"
- ⑦ INSTALL STOP BAR SET BACK FROM CROSSWALK
- ⑧ CONSIDER PROVIDING LAGGING OR PROTECTED LEFT TURN VEHICULAR PHASE
- ⑨ INSTALL PEDESTRIAN CROSSING WITH EXCLUSIVE SIGNAL PHASE
- ⑩ CONSIDER IMPROVED STREET LIGHTING AT THE INTERSECTION
- ⑪ CONSIDER POTENTIAL FUTURE BIKE NETWORK IMPROVEMENTS ON 5TH STREET DURING NEXT STAGE OF DESIGN

*ALL PHYSICAL IMPROVEMENTS WILL REQUIRE CALTRANS APPROVAL



BRYANT STREET / 5TH STREET

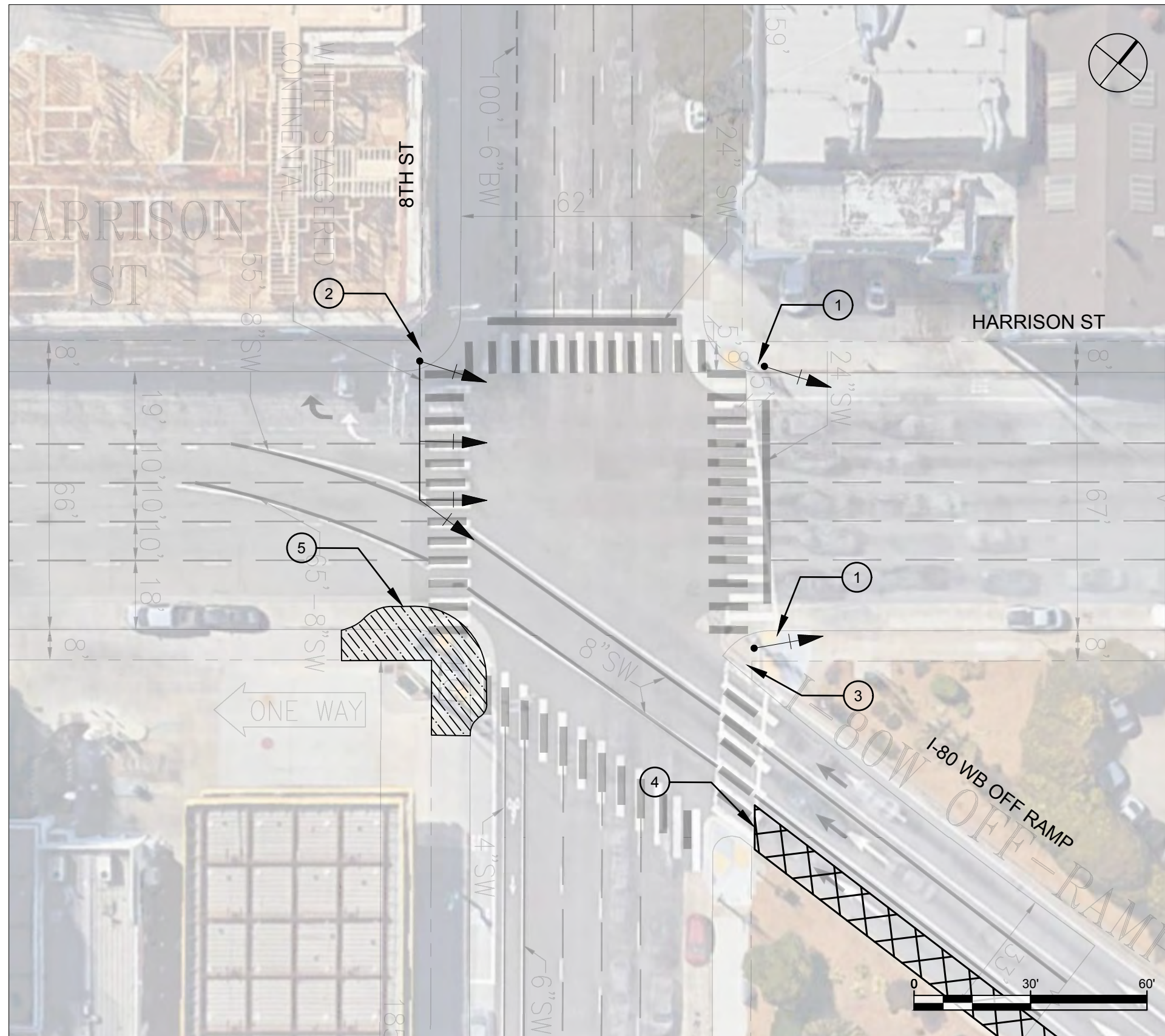


EXISTING CONDITIONS

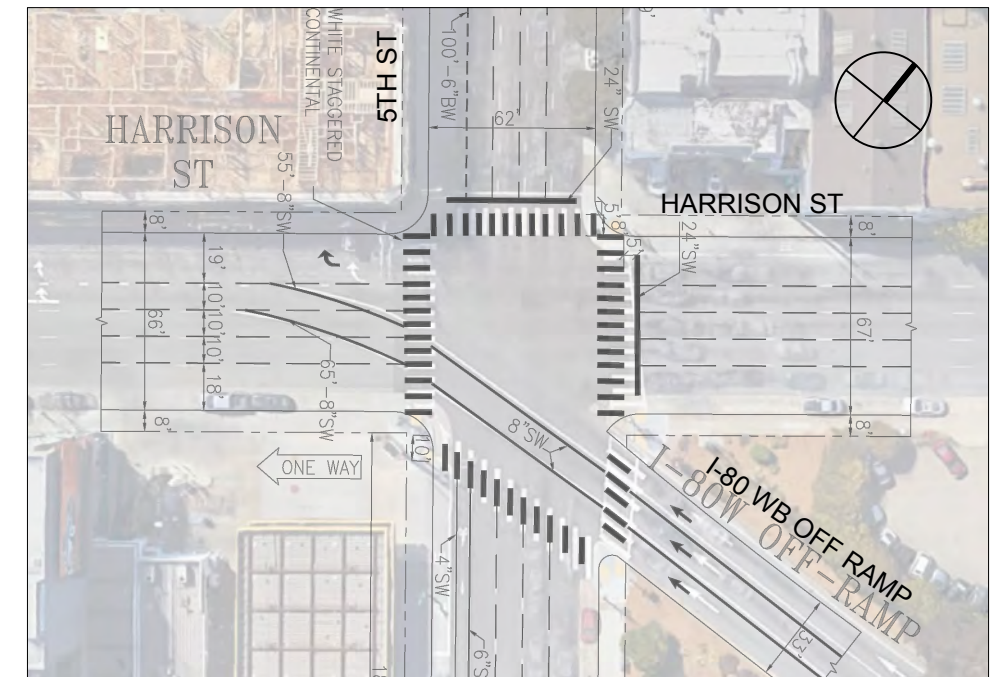
IMPROVEMENT CONCEPTS::

- ① INSTALL NEARSIDE TRAFFIC SIGNAL
- ② INSTALL FARSIDE TRAFFIC SIGNAL. CONSIDER PROVISION OF PROTECTED PHASING.
- ③ INSTALL PEDESTRIAN BULB
- ④ UPGRADE 8" TRAFFIC SIGNAL HEADS TO 12"
- ⑤ INSTALL HIGH-VISIBILITY STAGGERED CROSSWALK MARKINGS AND STOP BARS
- ⑥ REFRESH PAVEMENT MARKINGS AND LANE DELINEATOR LINES
- ⑦ INSTALL CANTILEVERED OVERHEAD SIGN TO DESIGNATE LANE ASSIGNMENTS
- ⑧ CONSIDER TEMPORARY INSTALLATION OF BULB UNTIL 5TH STREET STREETScape PROJECT PLANNING IS FINALIZED
- ⑨ CONSIDER POTENTIAL FUTURE BIKE NETWORK IMPROVEMENTS ON 5TH STREET DURING NEXT STAGE OF DESIGN

*ALL PHYSICAL IMPROVEMENTS WILL REQUIRE CALTRANS APPROVAL



HARRISON STREET / 8TH STREET

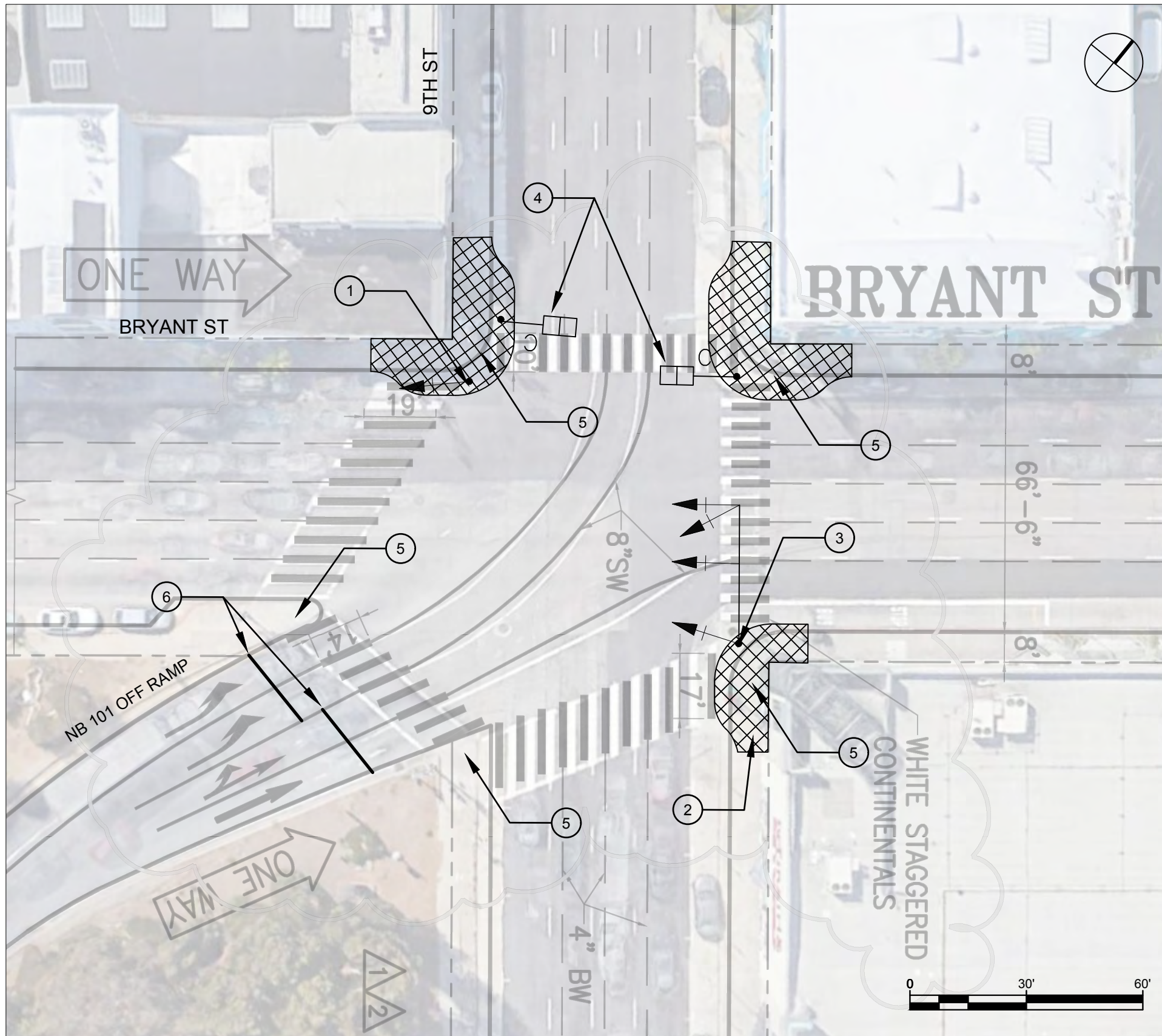


EXISTING CONDITIONS

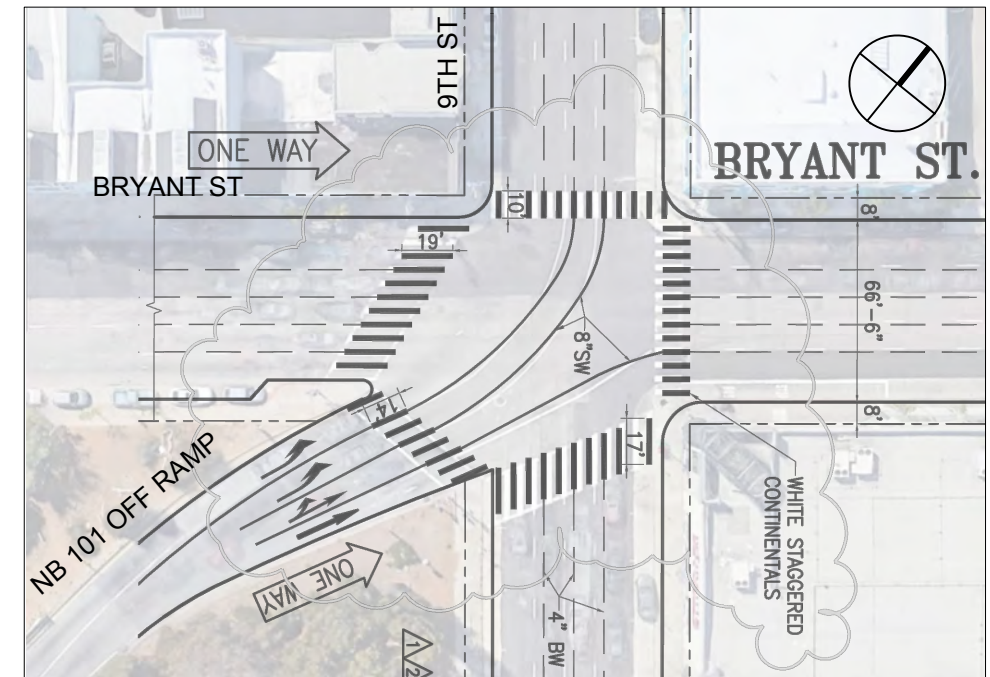
IMPROVEMENT CONCEPTS:

- ① INSTALL NEARSIDE TRAFFIC SIGNAL
- ② INSTALL TRAFFIC SIGNAL MAST ARM POLE
- ③ UPGRADE 8" TRAFFIC SIGNAL HEADS TO 12"
- ④ CONSIDER OFF-RAMP STRIPING CHANGE PENDING ON ADDITIONAL TRAFFIC ANALYSIS AND CALTRANS REVIEW
- ⑤ CONSIDER POTENTIAL INSTALLATION OF A PEDESTRIAN BULB PENDING OFF-RAMP STRIPING CHANGE

*ALL PHYSICAL IMPROVEMENTS WILL REQUIRE CALTRANS APPROVAL



BRYANT STREET / 9TH STREET

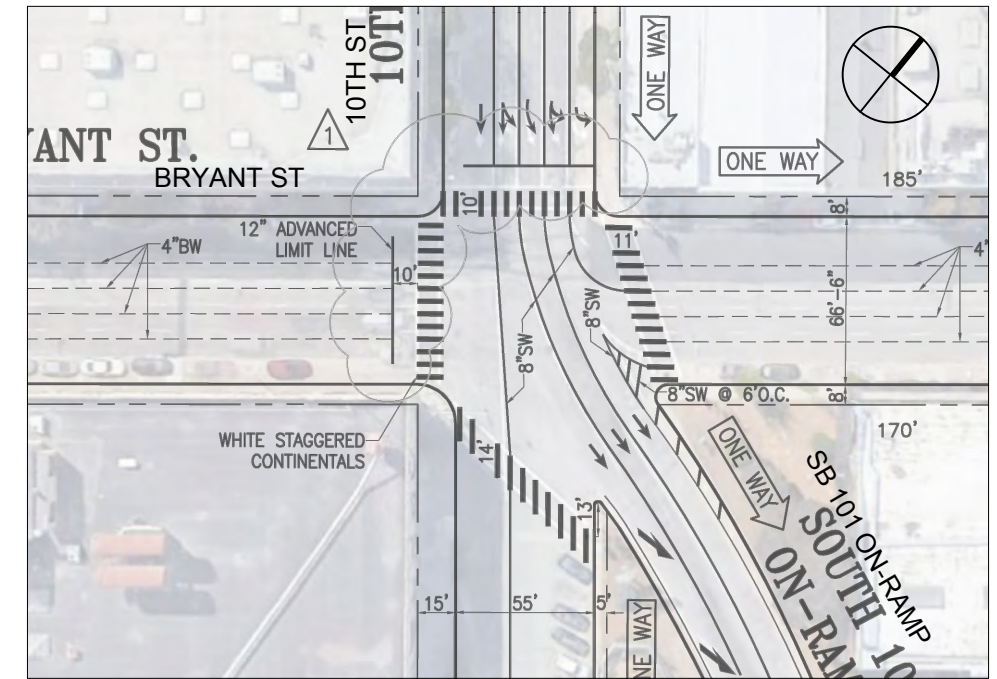
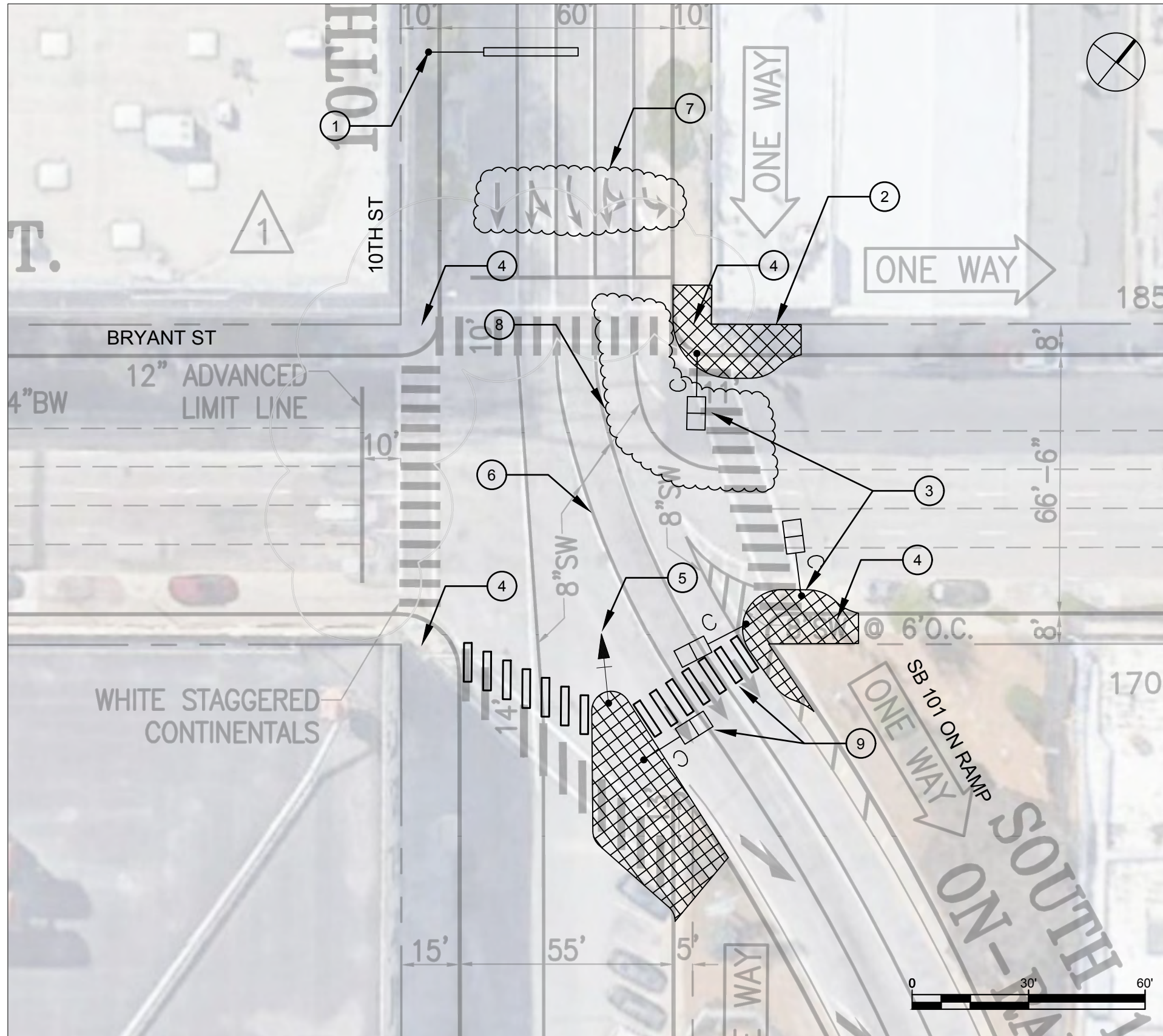


EXISTING CONDITIONS

IMPROVEMENT CONCEPTS:

- ① INSTALL NEARSIDE TRAFFIC SIGNAL
- ② INSTALL PEDESTRIAN BULB
- ③ INSTALL TRAFFIC SIGNAL MAST ARM POLE
- ④ PROVIDE LEADING PEDESTRIAN INTERVAL PHASING
- ⑤ UPGRADE 8" TRAFFIC SIGNAL HEADS TO 12"
- ⑥ INSTALL STOP BAR

*ALL PHYSICAL IMPROVEMENTS WILL REQUIRE CALTRANS APPROVAL



EXISTING CONDITIONS

IMPROVEMENT CONCEPTS::

- ① INSTALL CANTILEVERED OVERHEAD SIGN TO DESIGNATE LANE ASSIGNMENTS
- ② INSTALL PEDESTRIAN BULB
- ③ PROVIDE LEADING PEDESTRIAN INTERVAL PHASE
- ④ UPGRADE 8" TRAFFIC SIGNAL HEADS TO 12"
- ⑤ INSTALL FARSIDE TRAFFIC SIGNAL
- ⑥ REFRESH PAVEMENT MARKINGS AND LANE DELINEATOR LINES
- ⑦ CONSIDER ALTERNATIVE LANE ARRANGEMENTS (E.G., TOW-AWAY LANE CLOSURE, TWO-STAGE BIKE BOX)
- ⑧ CONSIDER RESTRIPING CHANNELIZING LINES
- ⑨ INSTALL HIGH-VISIBILITY STAGGERED CROSSWALK MARKINGS AND NEW PEDESTRIAN SIGNALS

*ALL PHYSICAL IMPROVEMENTS WILL REQUIRE CALTRANS APPROVAL

BRYANT STREET / 10TH STREET

**All physical improvements will require Caltrans approval*

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www.sfcta.org/NTIP-vision-zero-ramp-intersection-study