PROJECT PURPOSE AND NEED

1 IMPROVE SAFETY THROUGHOUT CORRIDOR

- SECOND HIGHEST PEDESTRIAN CRASH LOCATION IN THE REGION

IMPROVE MULTIMODAL MOBILITY

- IMPROVE PEDESTRIAN AND BICYCLE MOVEMENTS
- IMPROVE TRANSIT ACCOMMODATIONS
- REHABILITATE AND IMPROVE THE EXISTING PAVEMENT SURFACE CONDITIONS

REDUCE CONGESTION

- OPTIMIZE SIGNAL OPERATIONS ALONG THE CORRIDOR







PROBESED BENEFITS

OPENING YEAR BENEFITS

| PROJECT | SAFETY | OPERATIONS | STOPS | FUEL | EMISSIONS |
|---|---------------------------------------|---|---|---------------------------|---|
| | PERCENTAGE OF CRASHES REDUCED 1 | VEHICLE HOURS OF DELAY REDUCED ² | REDUCTION IN STOPS ALONG THE CORRIDOR 2 | REDUCTION IN FUEL USAGE 2 | REDUCTION IN CO, VOC, AND NOX EMISSIONS ² (kg) |
| SR 837 SAFETY IMPROVEMENT PROJECT | 32% | 271,981 | 43,139,029 | 218,023 | 12,638 |

OPENING YEAR MONETARY BENEFITS

| PROJECT | SAFETY | OPERATIONS | STOPS | FUEL | EMISSIONS |
|---|-------------|-------------|-----------|-----------|-----------|
| SR 837 SAFETY IMPROVEMENT PROJECT | \$7,779,157 | \$5,434,177 | \$603,946 | \$760,901 | \$240,192 |

¹Between January 1, 2007 and December 31, 2014 there were 593 reported crashes or an average of 74 crashes per year. Crash reductions were calculated following Highway Safety Manual (HSM) methodologies. The HSM is a tool to quantify safety performance in terms of the number of expected crashes based upon a roadway's characteristics, traffic volume, and the historical crash history of similar roadways using a statistically rigorous approach.

THE PROPOSED DESIGN INCLUDES SAFETY ENHANCEMENTS SUCH AS:

- CURB EXTENSION (BUMP OUT OR BULB OUTS)
- ADA CURB RAMPS
- NO TURN ON RED SIGNS (WITHOUT TIME RESTRICTIONS)
- HIGH VISIBILITY CROSSWALKS
- PEDESTRIAN COUNTDOWN SIGNALS
- RAISED MEDIANS (19TH AND 22ND ST)
- NEW TRAFFIC SIGNALS / PHASING







² Reductions in vehicle hours of delay, stops, fuel usage, and emissions (Measures of Effectiveness) are computed from VISSIM traffic modeling software, which used opening year traffic volumes with current and proposed roadway geometric alignments to determine the expected benefits.

TYPICAL CONSTRUCTION PHASING

SMITHFIELD ST

- FULL DEPTH RECONSTRUCTION
- ONE-WAY DETOUR (INBOUND)
- MAINTAIN OUTBOUND TRAVEL LANE

ARLINGTON TO 7TH ST

- NEW SIDEWALK ALONG RAILROAD WALL
- MAINTAIN ONE LANE EACH DIRECTION
- TEMPORARY PARKING RESTRICTIONS

7TH ST TO 17TH ST

- BUMP OUTS, CURB RAMPS, AND PAVING
- MAINTAIN ONE LANE EACH DIRECTION
- TEMPORARY PARKING RESTRICTIONS

17TH ST TO 26TH ST

- BUMP OUTS, CURB RAMPS, AND PAVING
- RAISED MEDIANS AT 19TH ST, 22ND ST, AND 23RD ST
- RECONFIGURATION OF BIRMINGHAM BRIDGE
- MAINTAIN ONE LANE EACH DIRECTION
- TEMPORARY PARKING RESTRICTIONS

26TH ST TO 33RD ST

- BUMP OUTS, CURB RAMPS, AND PAVING
- RAISED MEDIAN BETWEEN HOT METAL ST AND SARAH ST
- RECONFIGURATION OF SARAH ST
- MAINTAIN ONE LANE EACH DIRECTION
- TEMPORARY PARKING RESTRICTIONS

RESTRICTIONS

- SMITHFIELD ST TO 10[™] ST—WORK AT NIGHTS & WEEKENDS
- 10TH ST TO 24TH ST—WORK DURING THE DAY
- 24TH ST TO 33RD ST—WORK AT NIGHTS & WEEKENDS
- HOLIDAY AND EVENTS RESTRICTIONS
- CONSTRUCT 1 CURB RAMP AT A TIME PER INTERSECTION

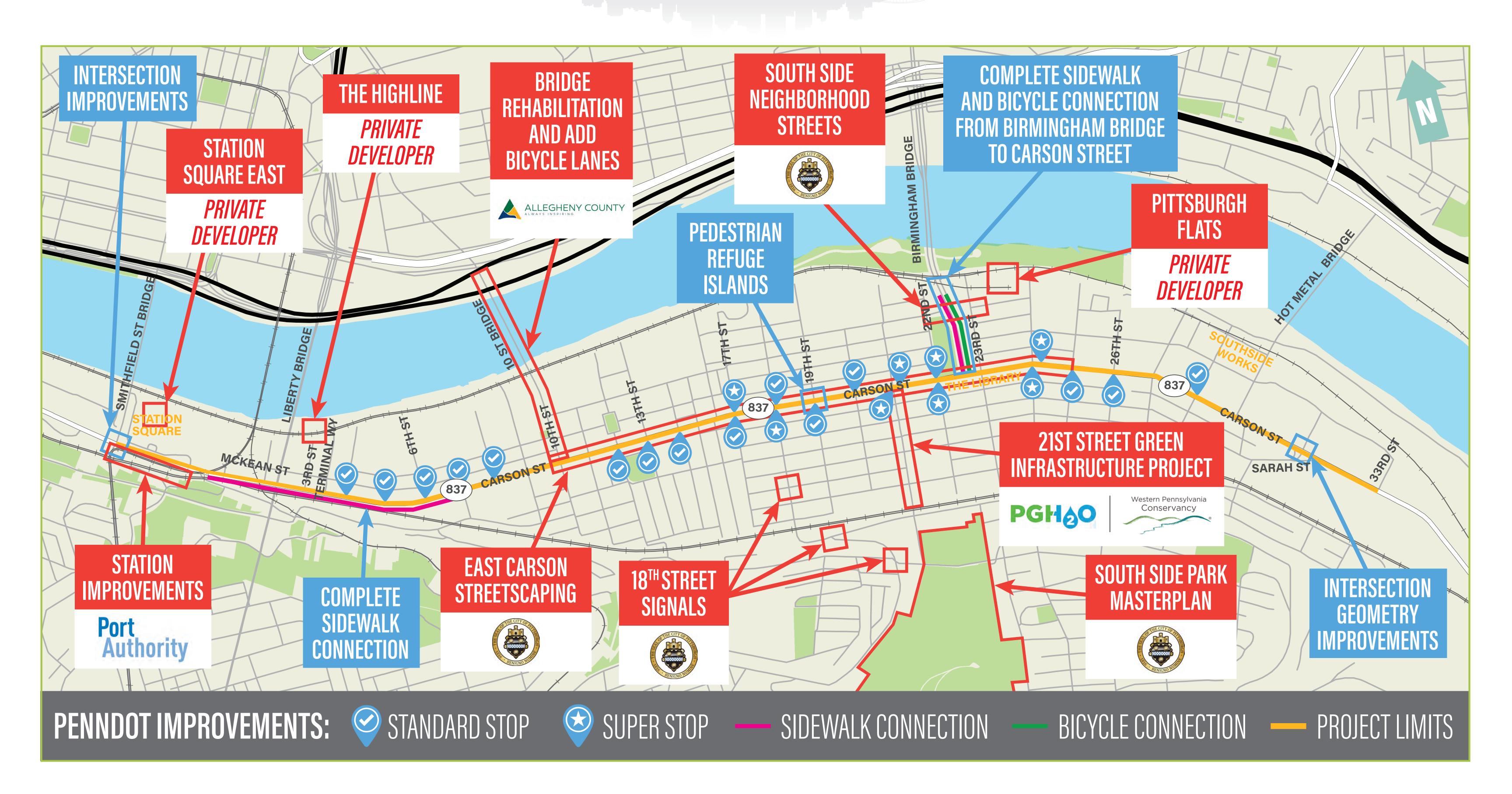
SR 0837 WORK ZONE

TYPICAL PEDESTRIAN DETOUR





MULTIMODAL CONNECTIONS OVERVIEW





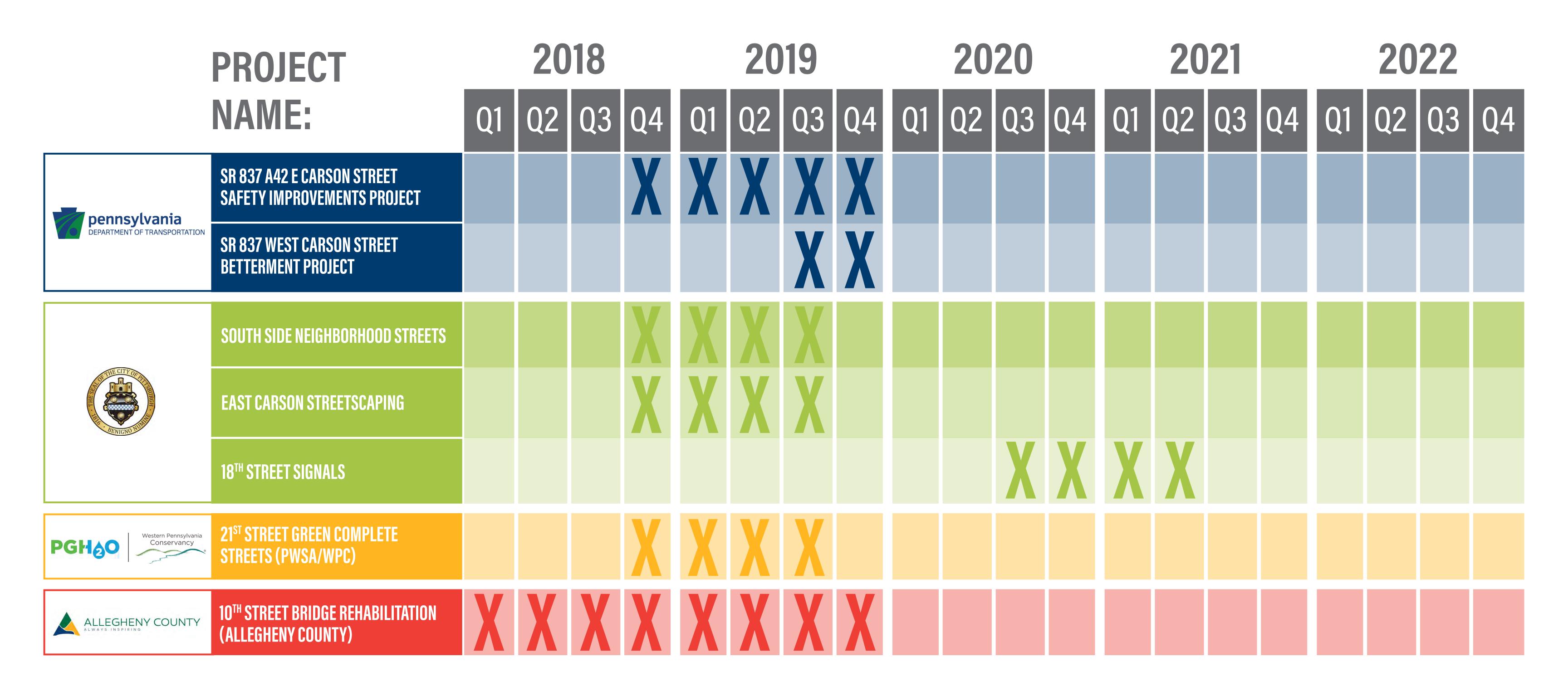








CONSTRUCTION SCHEDULE FOR PROJECTS



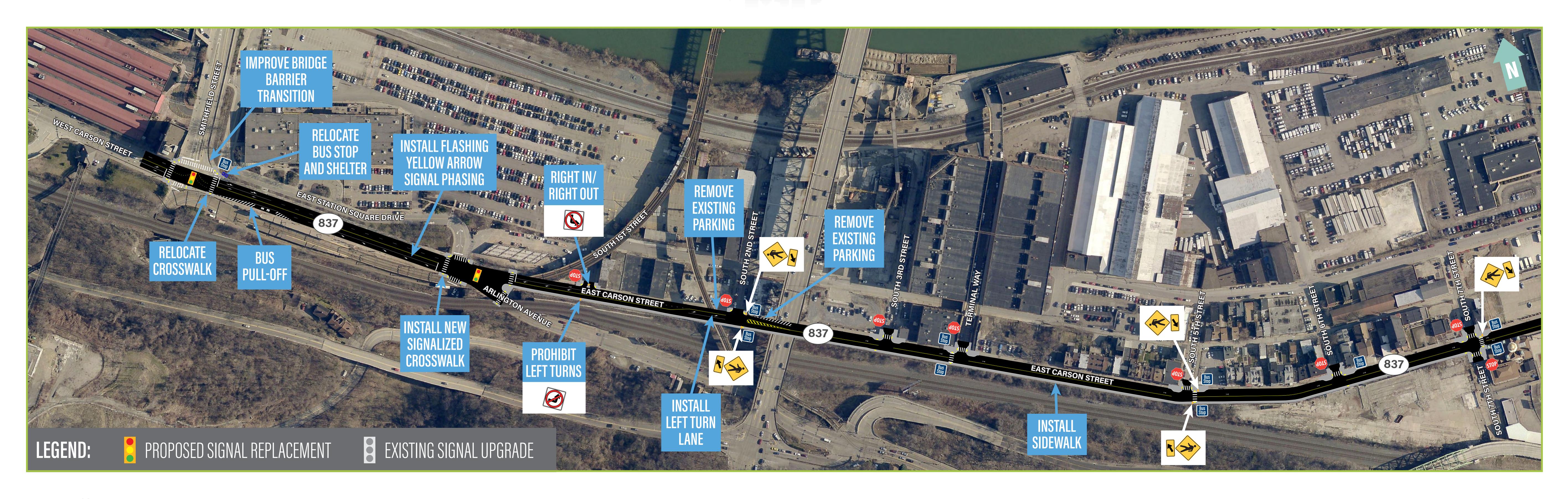








CORRIDORIMERO VENES





CORRIDORIMPROVEMENTS







CORRIDORIMPROVEMENTS





CORRIDORIMPROVEMENTS





