

HOLLYWOOD CASINO
PHILADELPHIA, PA

TRANSPORTATION IMPACT STUDY

NOVEMBER 14, 2012
REVISED FEBRUARY 1, 2013
REVISED SEPTEMBER 6, 2013
Revised November 20, 2013

LEGEND

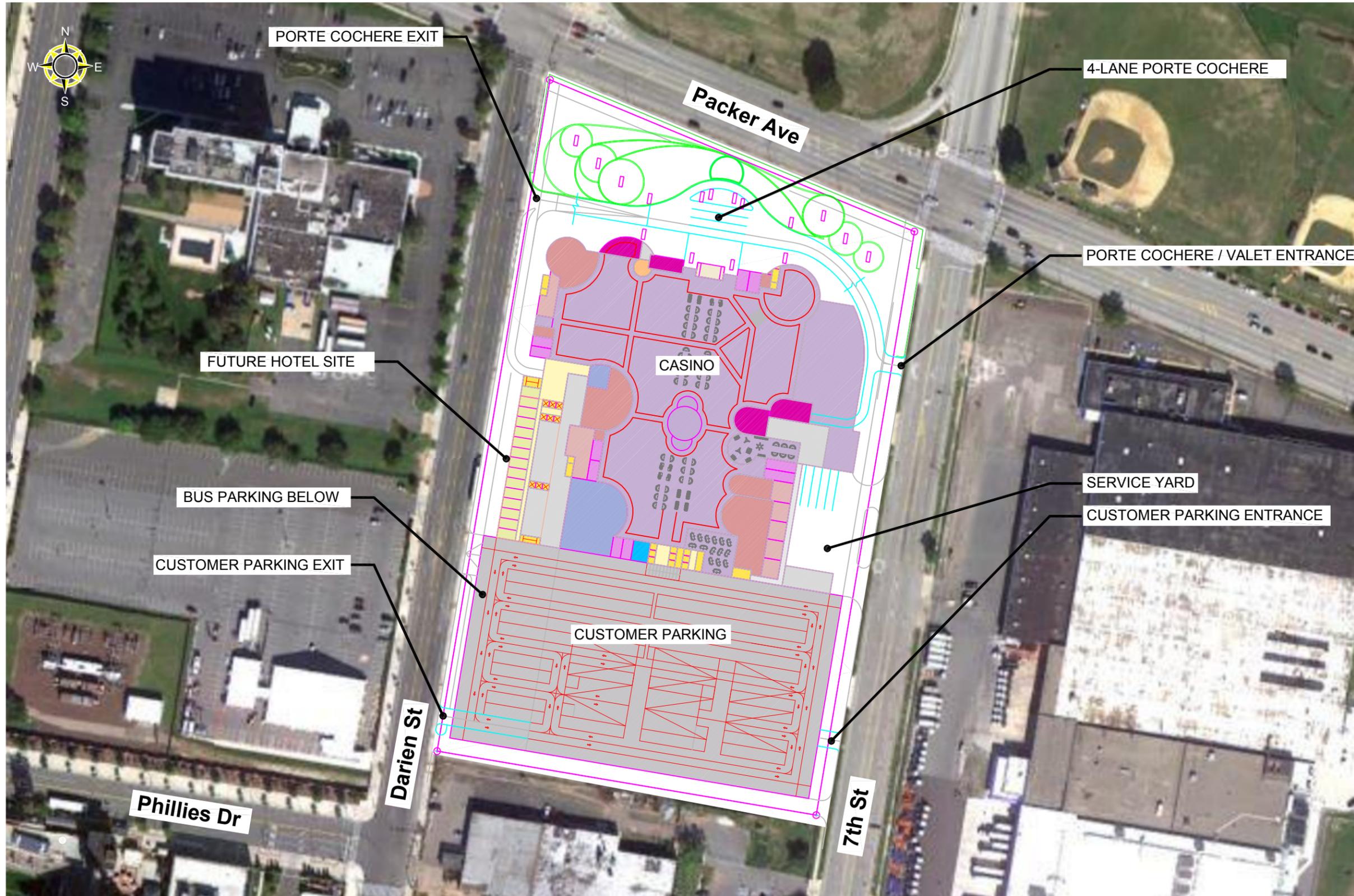
-  PROJECT SITE
-  SIGNALIZED
-  UNSIGNALIZED

FIGURE 1



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

PROJECT SITE AND STUDY AREA



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STUDY

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SCALE: 1"=150'

FIGURE 2



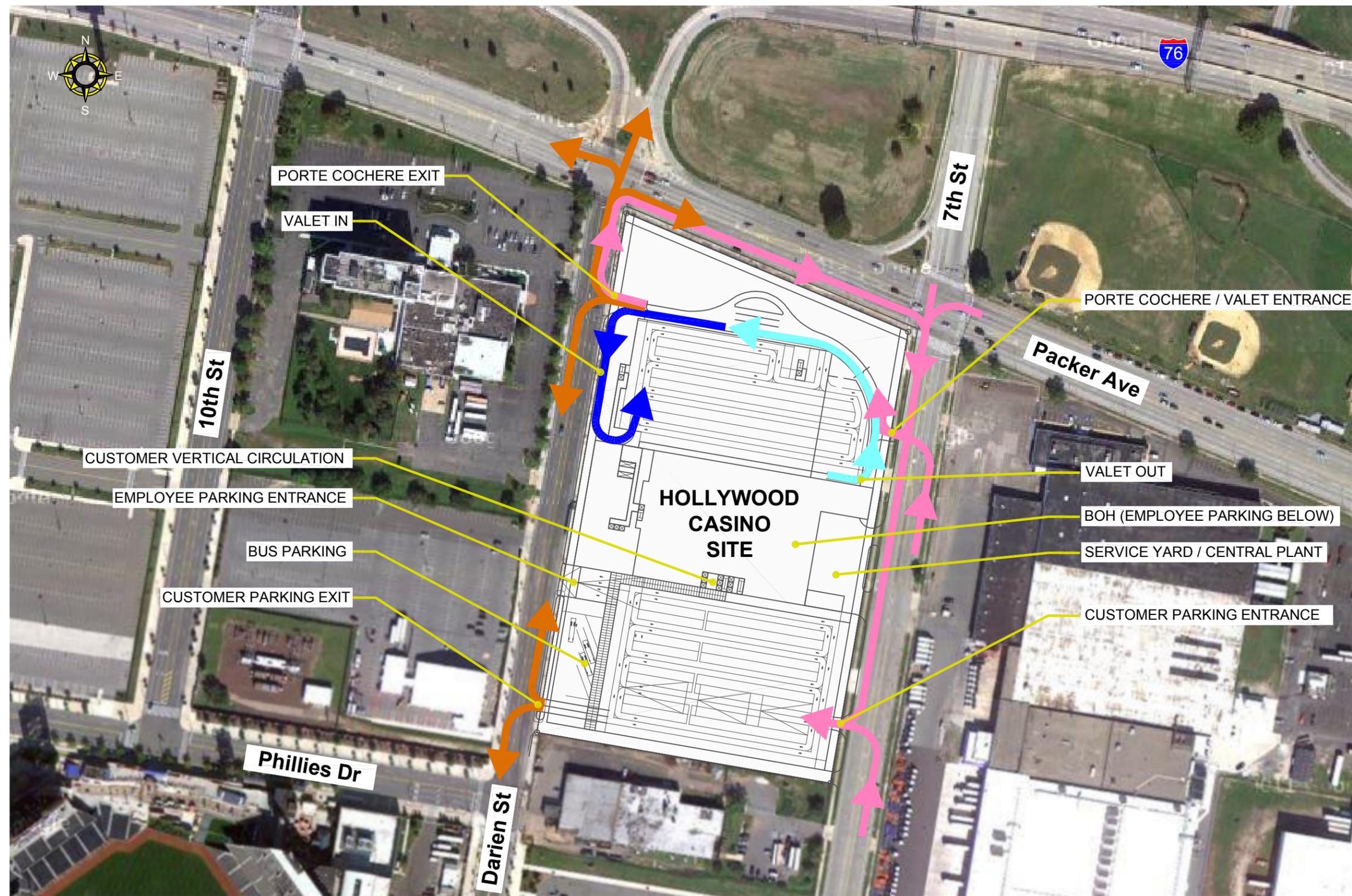
PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

PHASE 1 & PHASE 2 CONCEPTUAL
SITE PLAN

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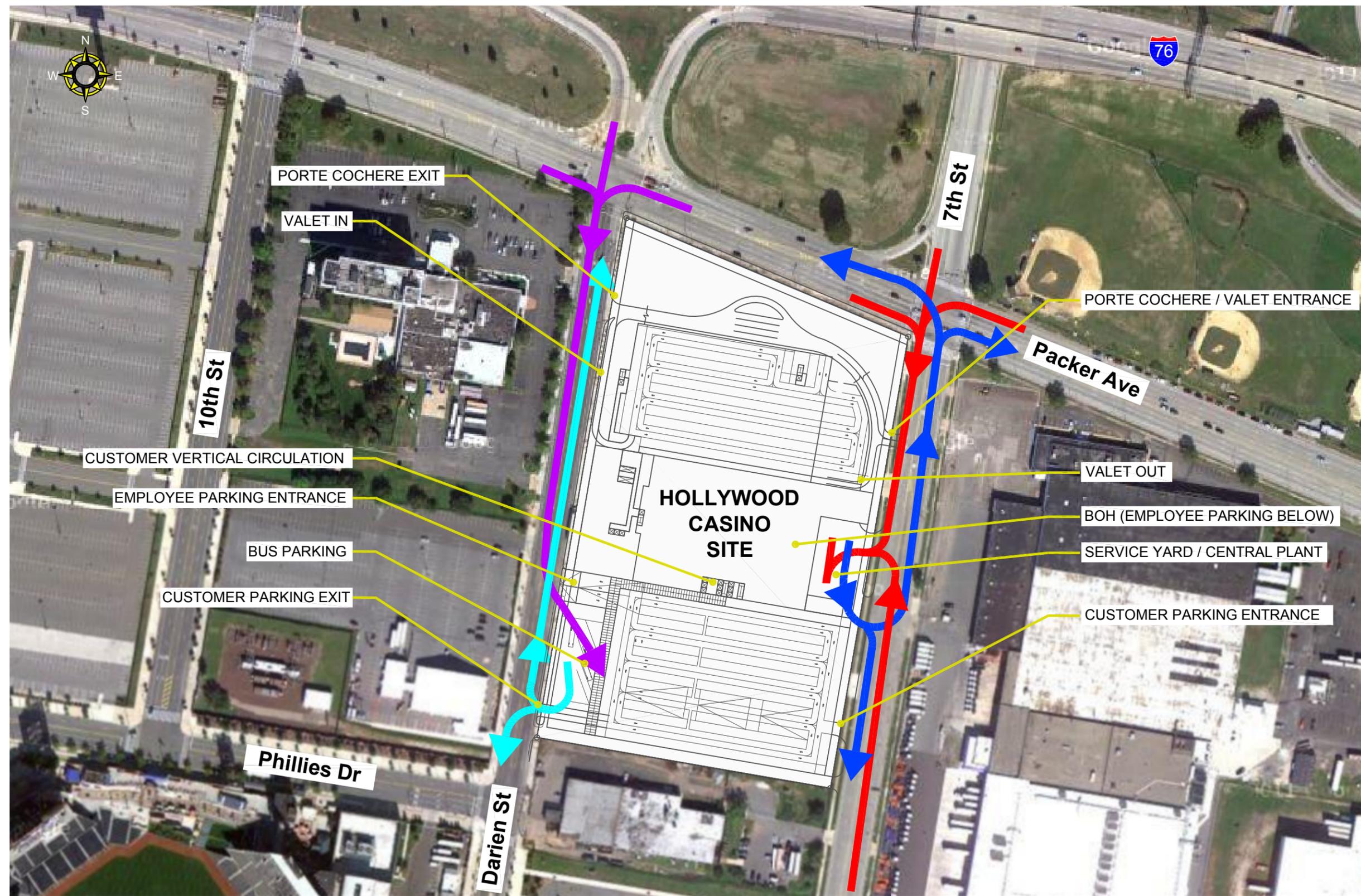
- LEGEND**
-  Proposed Valet Route - Pickup
 -  Proposed Valet Route - To Parking
 -  Proposed Customer - Inbound
 -  Proposed Customer - Outbound

FIGURE 3

HOLLYWOOD CASINO
PHILADELPHIA, PA

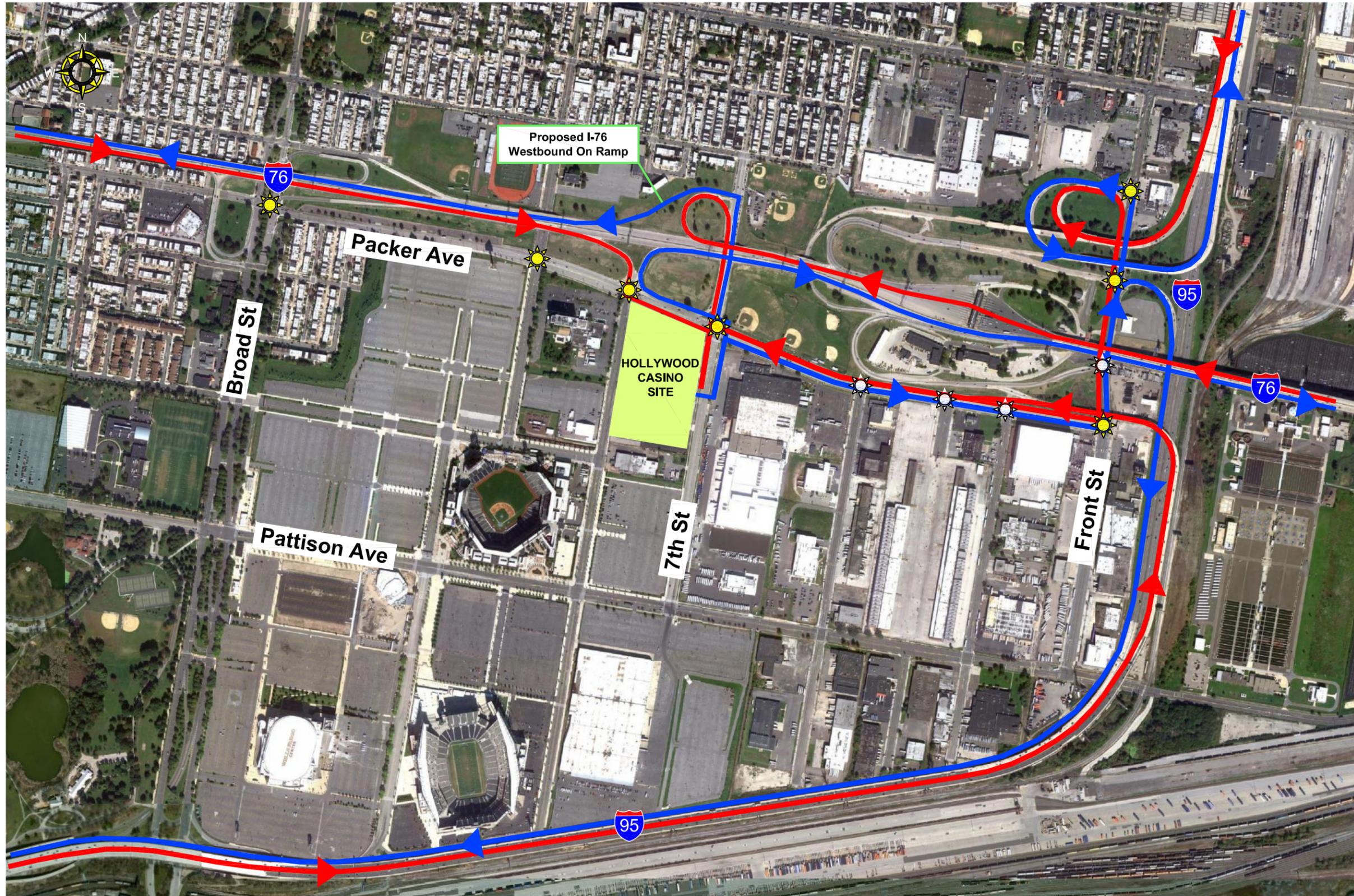
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- LEGEND**
-  Proposed Bus Route - Inbound
 -  Proposed Bus Route - Outbound
 -  Proposed Truck Route - Inbound
 -  Proposed Truck Route - Outbound

FIGURE 4



HOLLYWOOD CASINO
PHILADELPHIA, PA

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LEGEND

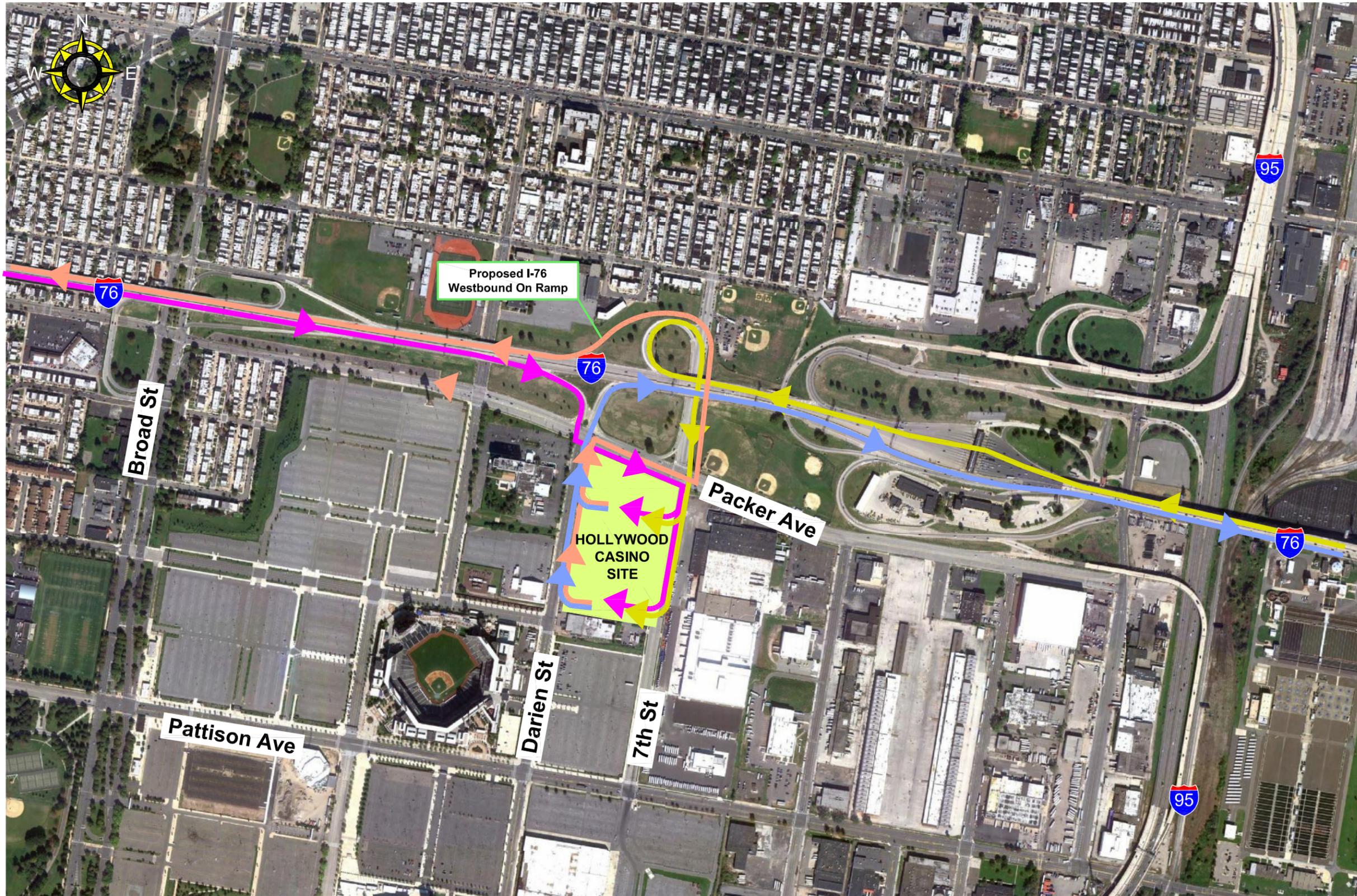
-  Proposed Truck Route - Inbound
-  Proposed Truck Route - Outbound
-  Signalized Intersection
-  Unsignalized Intersection

FIGURE 5



PENNONI ASSOCIATES INC.
 CONSULTING ENGINEERS
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**PROPOSED HEAVY
 VEHICLE ROUTE**



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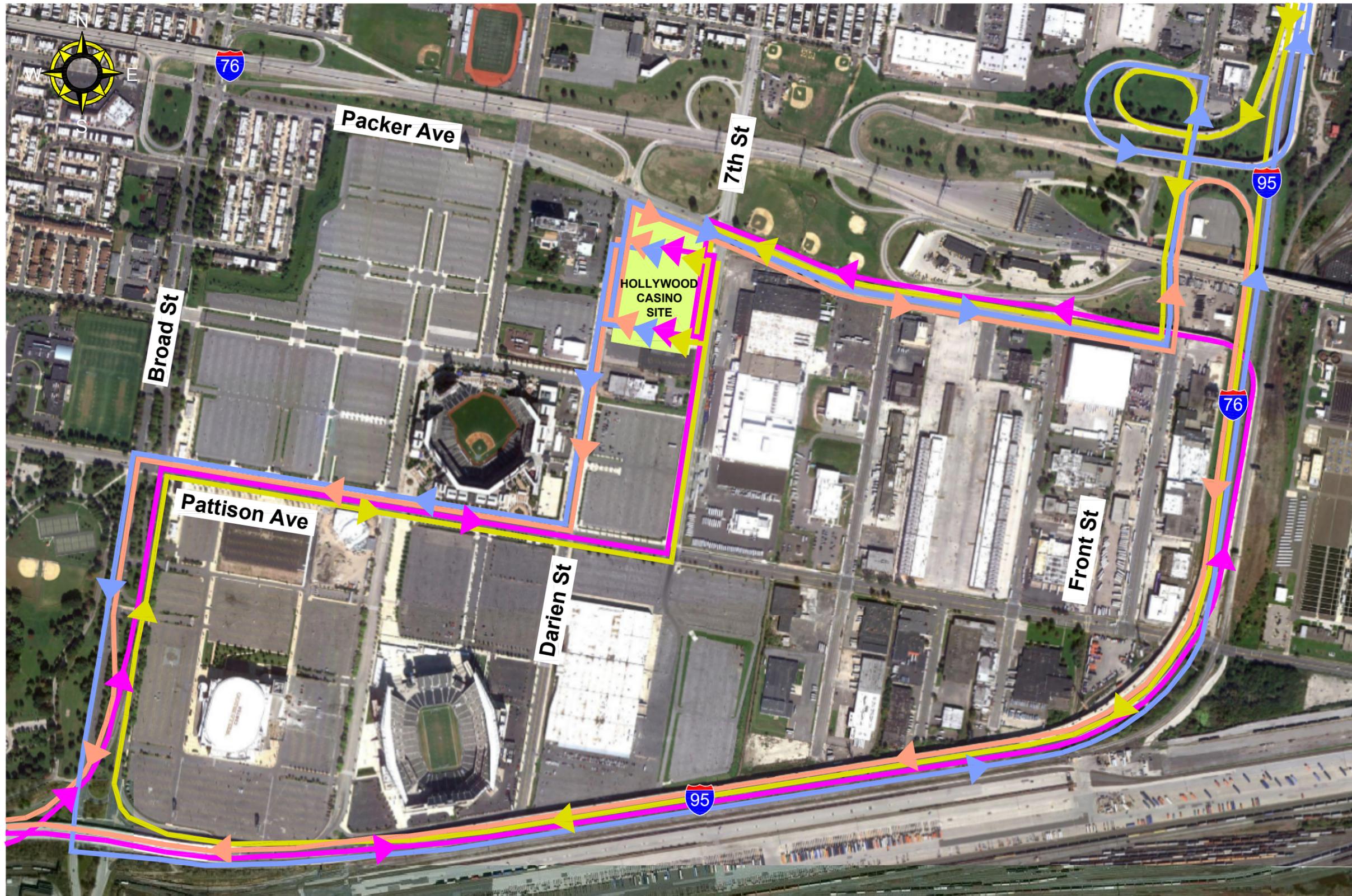
- LEGEND**
- To I-76 Eastbound
 - To I-76 Westbound
 - From I-76 Eastbound
 - From I-76 Westbound

FIGURE 6



PENNONI ASSOCIATES INC.
 CONSULTING ENGINEERS
 3001 MARKET STREET
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ACCESS TO / FROM
INTERSTATE 76



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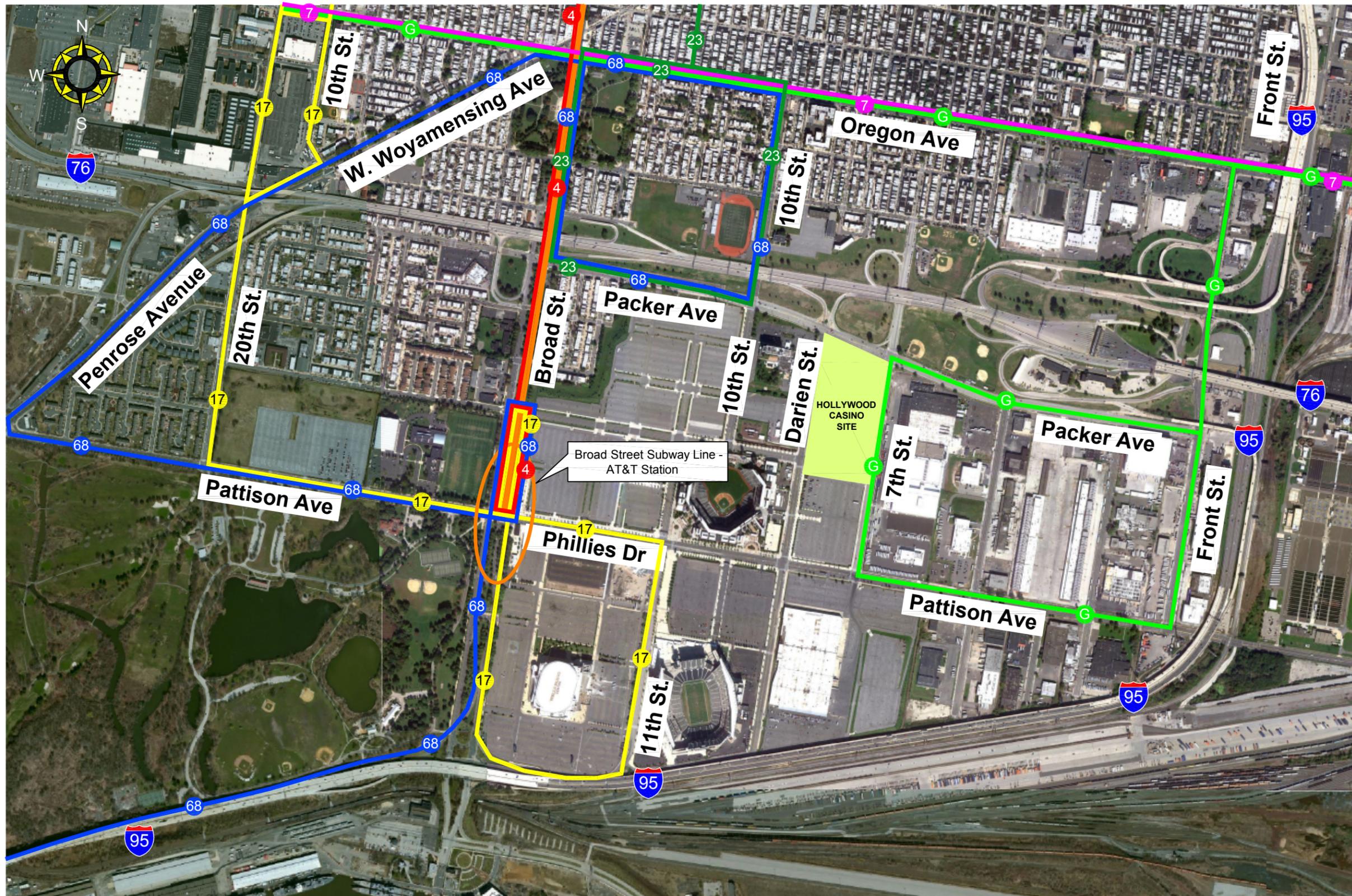
- To I-95 Northbound
- To I-95 Southbound
- From I-95 Northbound
- From I-95 Southbound

FIGURE 7



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
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ACCESS TO / FROM
INTERSTATE 95



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- LEGEND**
- SEPTA Broad Street Line Subway
 - SEPTA Bus Route 17
 - SEPTA Bus Route G
 - SEPTA Bus Route 4
 - SEPTA Bus Route 68
 - SEPTA Bus Route 23
 - SEPTA Bus Route 7

FIGURE 8



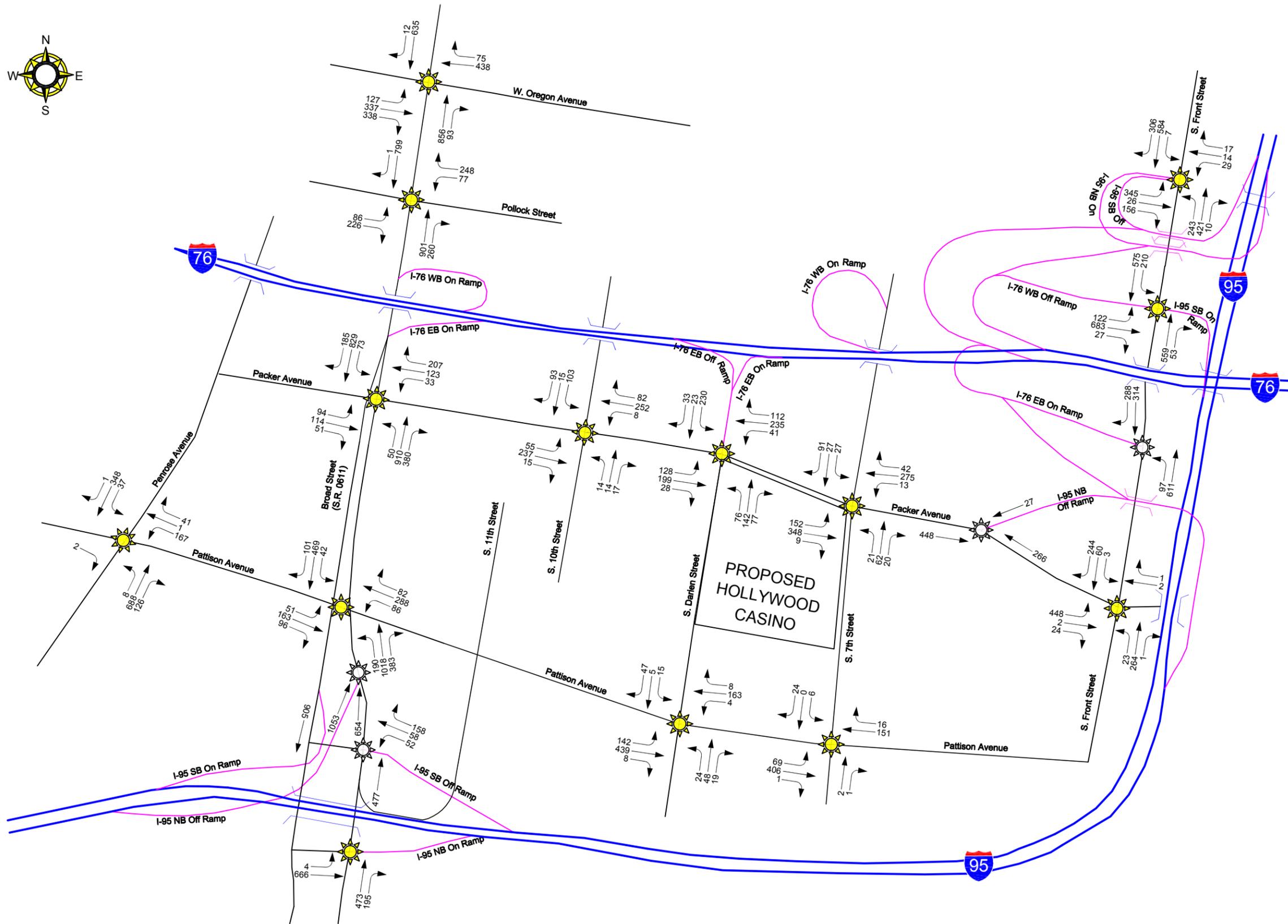
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 CONSULTING ENGINEERS
 3001 MARKET STREET
 PHILADELPHIA, PA 19104

EXISTING TRANSIT FACILITIES



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 9



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

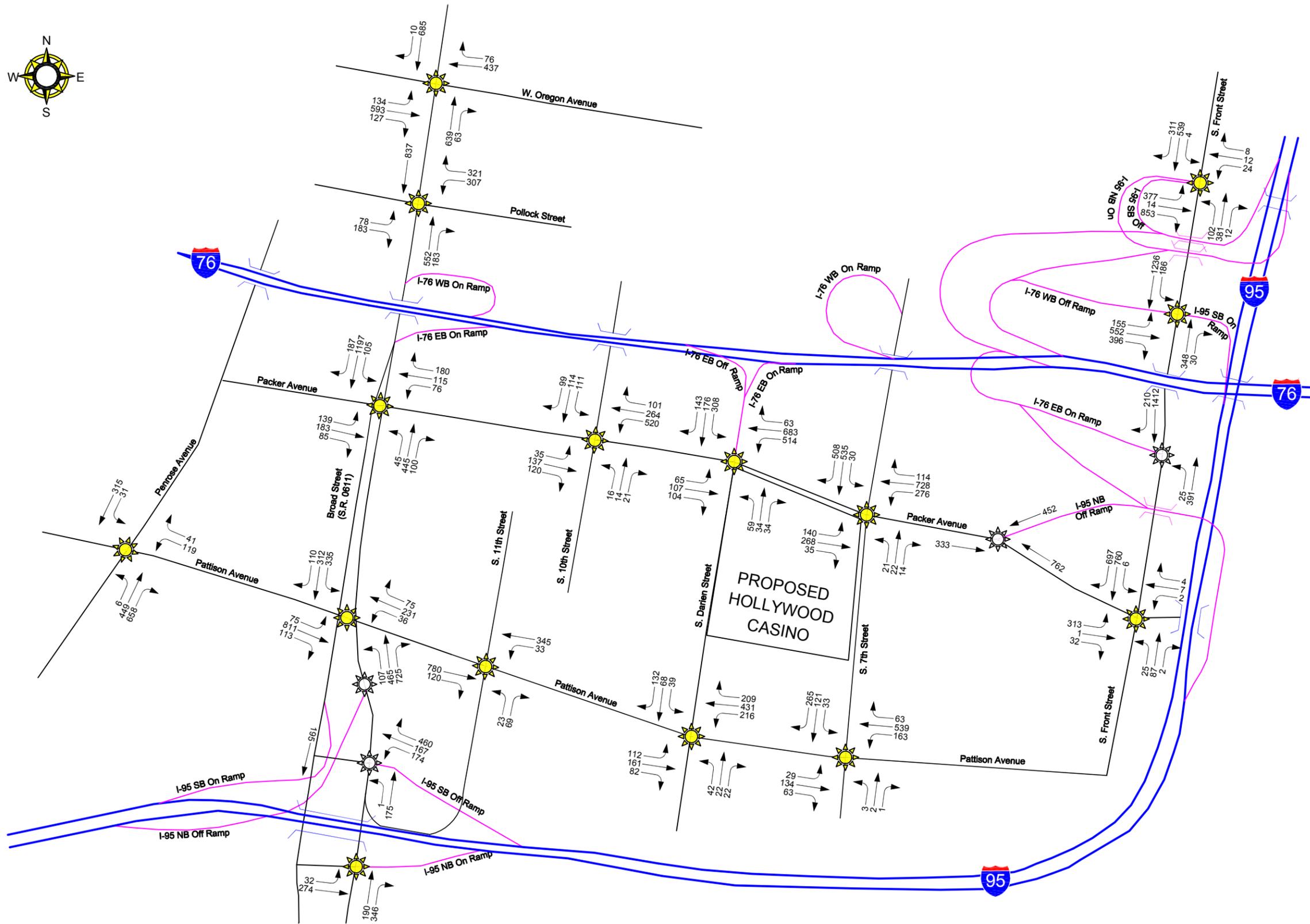
2013 EXISTING VOLUMES
FRIDAY EVENING COMMUTER PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 10



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

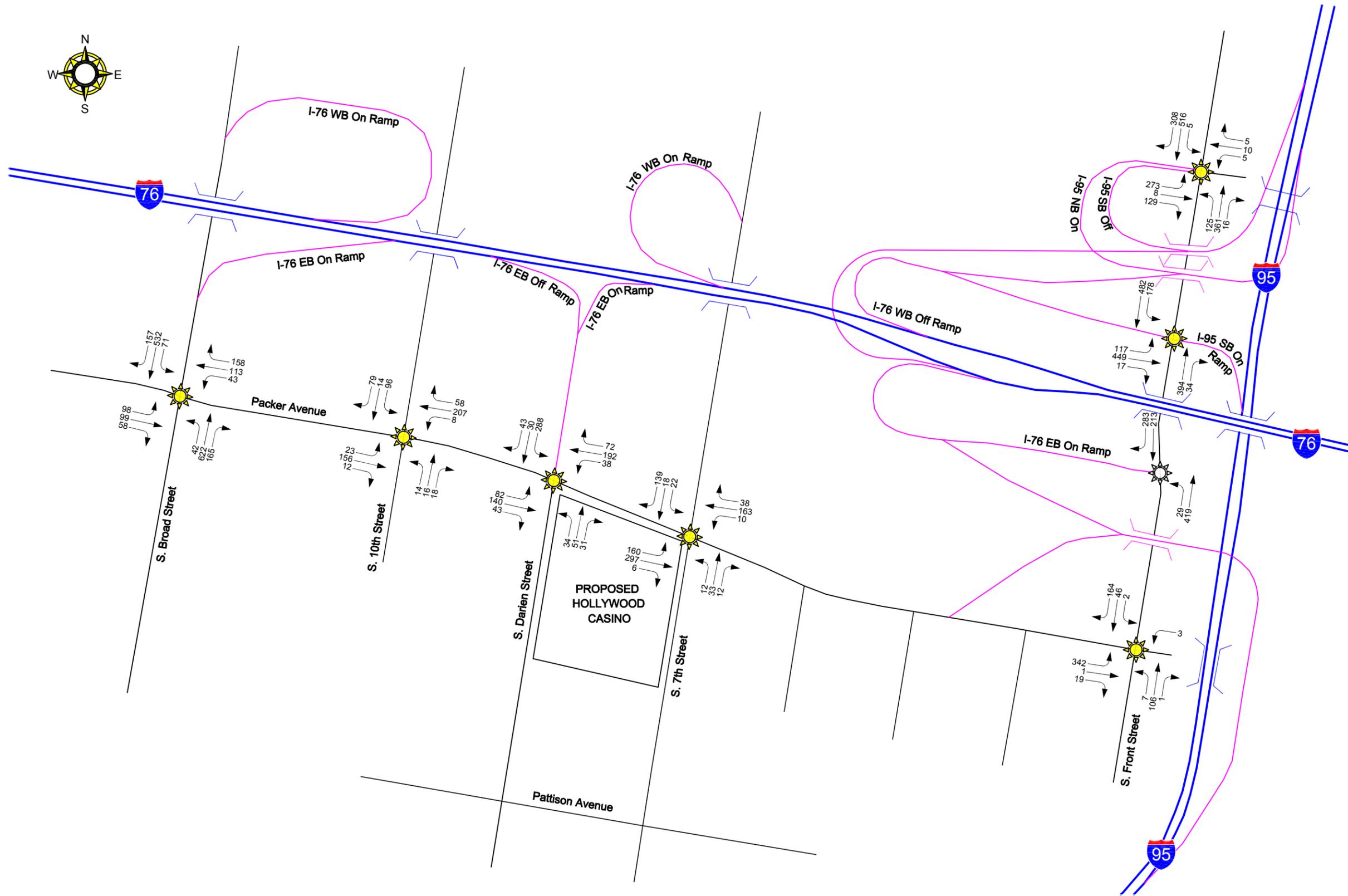
2013 EXISTING VOLUMES
FRIDAY EVENING PRE-PHILLIES EVENT PEAK HOUR



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LEGEND

- Surface Street
- Interstate Highway
- Interstate Ramp
- ☀ Signalized Intersection
- ⚙ Unsignalized Intersection
- 000 Peak Hour Traffic Volume
- ← Lane Configuration

FIGURE 11



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

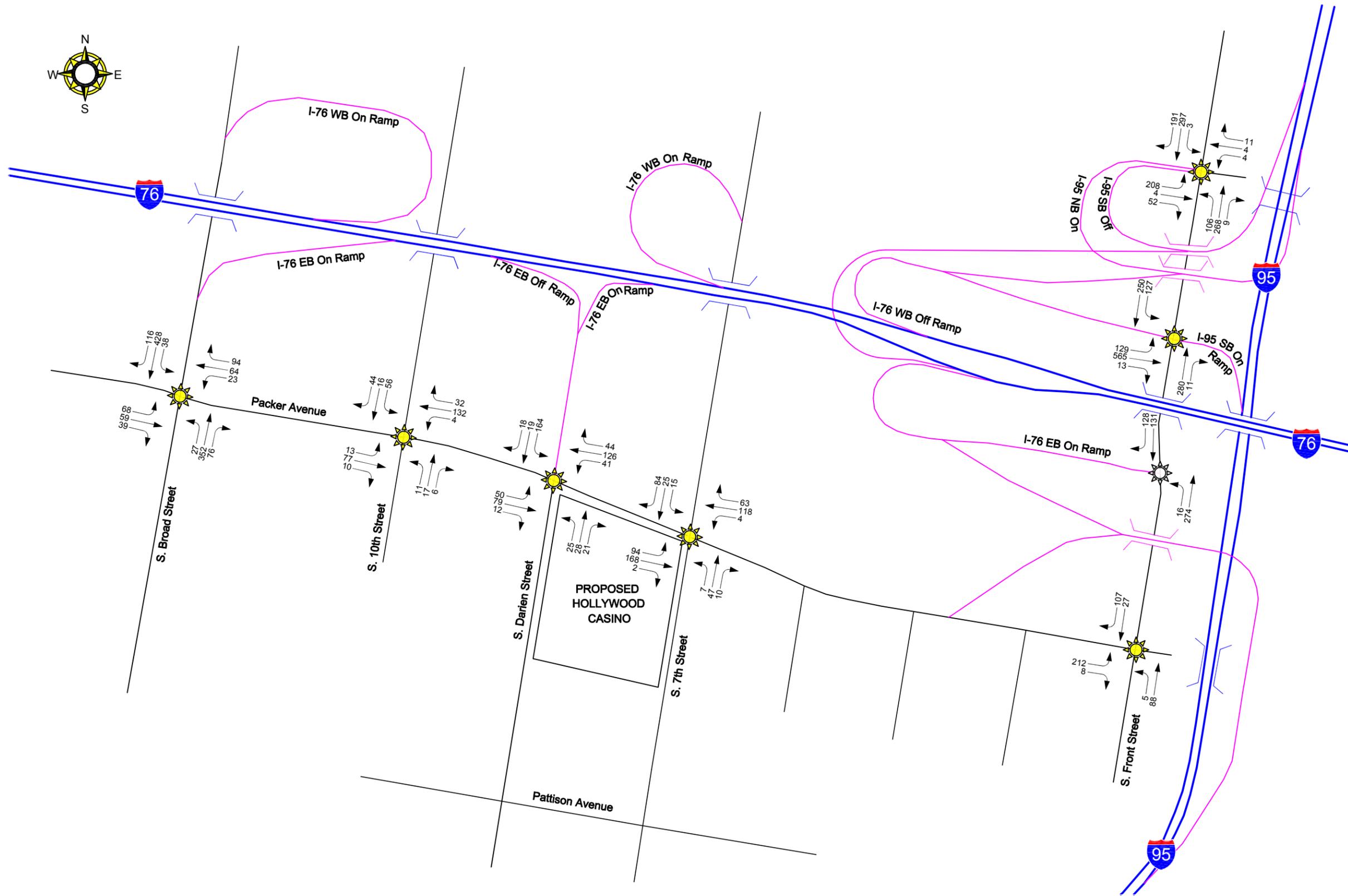
2013 EXISTING VOLUMES
FRIDAY CASINO PEAK HOUR



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LEGEND

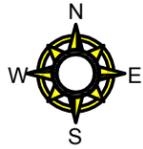
- Surface Street
- Interstate Highway
- Interstate Ramp
- ☀ Signalized Intersection
- ⚙ Unsignalized Intersection
- 000 Peak Hour Traffic Volume
- ← Lane Configuration

FIGURE 12



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

2013 EXISTING VOLUMES
SATURDAY CASINO PEAK HOUR



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LEGEND:

- CA-1, Auto-Oriented Commercial-1
- CA-2, Auto-Oriented Commercial-2
- CMX-1, Neighborhood Commercial Mixed-Use-1
- CMX-2, Neighborhood Commercial Mixed-Use-2
- CMX-2.5, Neighborhood Commercial Mixed-Use-2.5
- CMX-3, Community Commercial Mixed-Use
- CMX-4, Center City Commercial Mixed-Use
- CMX-5, Center City Core Commercial Mixed-Use
- I-1, Light Industrial
- I-2, Medium Industrial
- I-3, Heavy Industrial
- I-P, Port Industrial
- ICMX, Industrial Commercial Mixed-Use
- IRMX, Industrial Residential Mixed-Use
- RM-1, Residential Multi-Family-1
- RM-2, Residential Multi-Family-2
- RM-3, Residential Multi-Family-3
- RM-4, Residential Multi-Family-4
- RMX-1, Residential Mixed-Use-1
- RMX-2, Residential Mixed-Use-2
- RMX-3, Residential (Center City) Mixed-Use-3
- RSA-1, Residential Single-Family Attached-1
- RSA-2, Residential Single-Family Attached-2
- RSA-3, Residential Single-Family Attached-3
- RSA-4, Residential Single-Family Attached-4
- RSA-5, Residential Single-Family Attached-5
- RTA-1, Residential Two-Family Attached-1
- RSD-1, Residential Single-Family Detached-1
- RSD-2, Residential Single-Family Detached-2
- RSD-3, Residential Single-Family Detached-3
- SP-AIR, Airport (Special Purpose)
- SP-ENT, SP-ENT, Entertainment (Special Purpose)
- SP-INS, Institutional (Special Purpose)
- SP-PO-A, Active Parks and Open Space (Special Purpose)
- SP-PO-P, Passive Parks and Open Space (Special Purpose)
- SP-STA, Sports Stadium (Special Purpose)

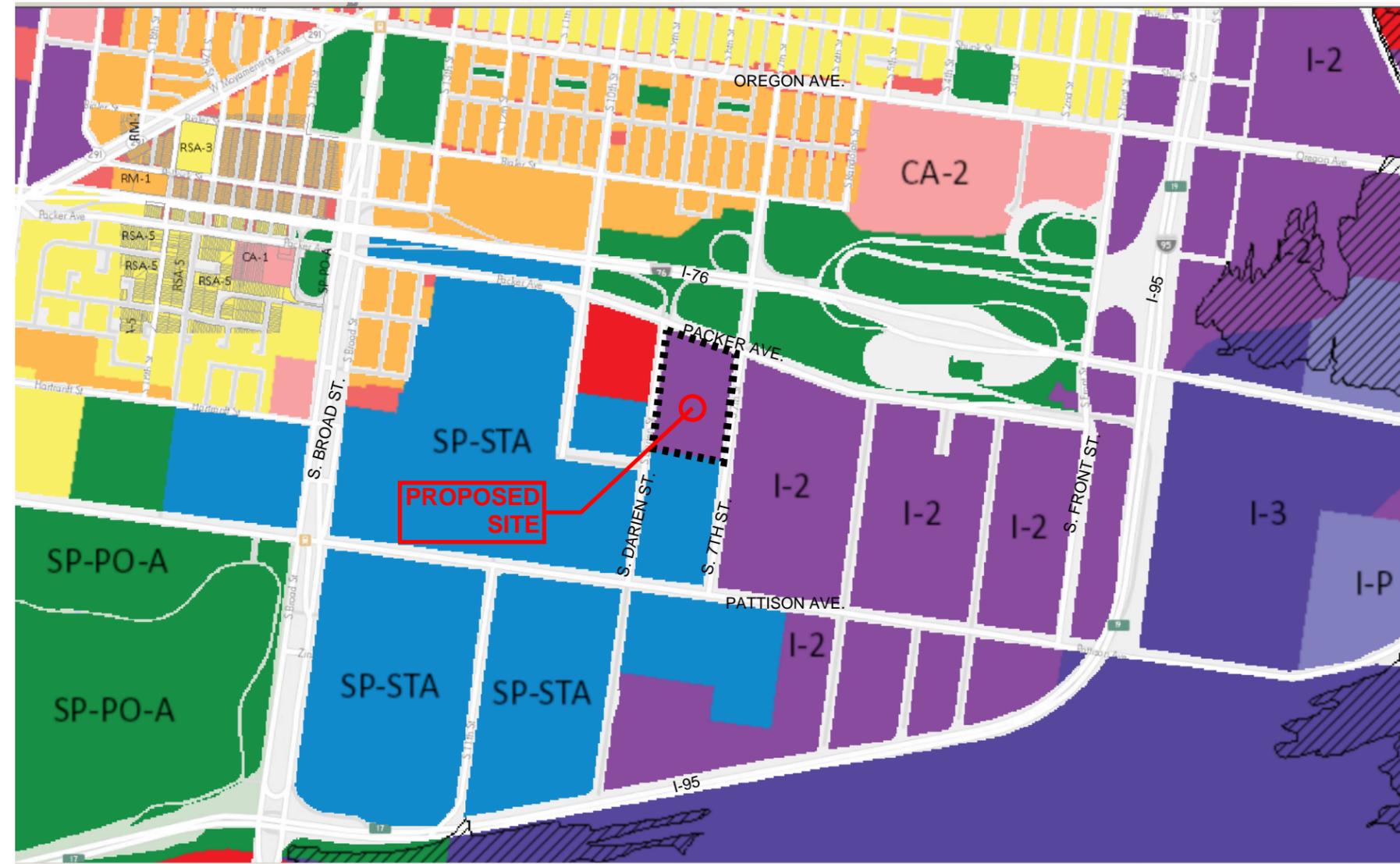


FIGURE 13



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

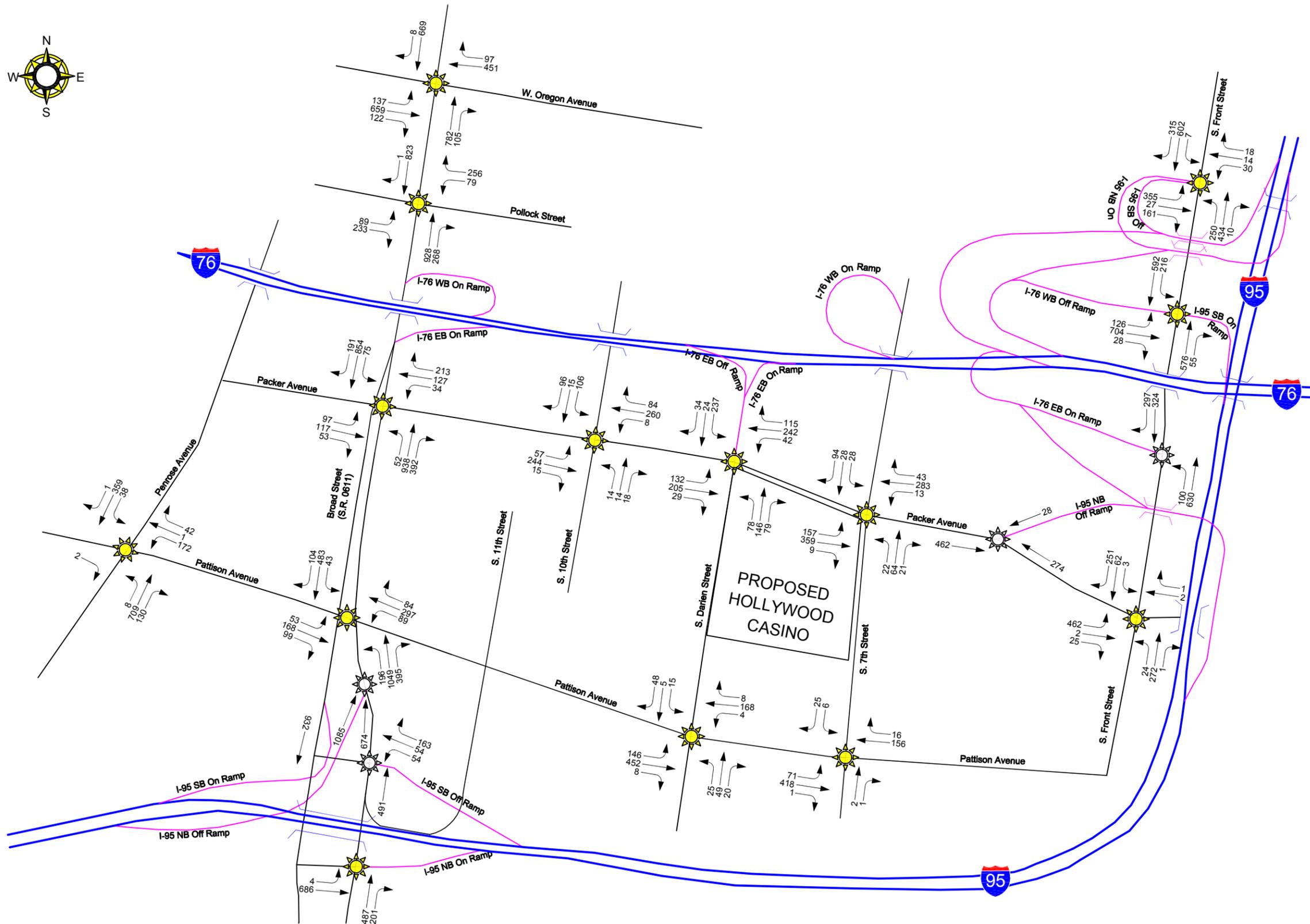
EXISTING LAND USES



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 14



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

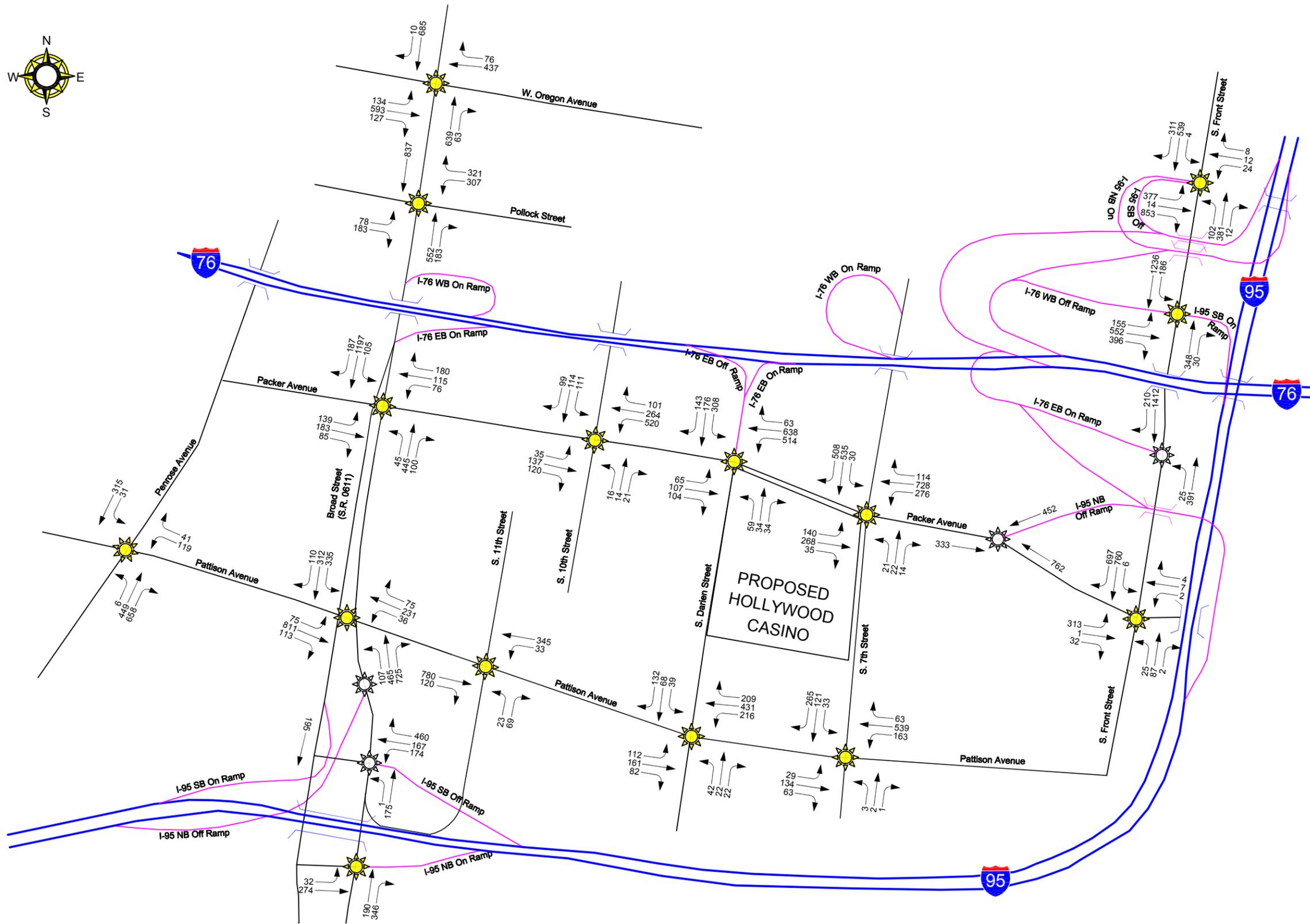
2016 PHASE 1 NO-BUILD VOLUMES
FRIDAY EVENING COMMUTER PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 15



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

2016 PHASE 1 NO-BUILD VOLUMES
FRIDAY EVENING PRE-PHILLIES EVENT PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 16



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

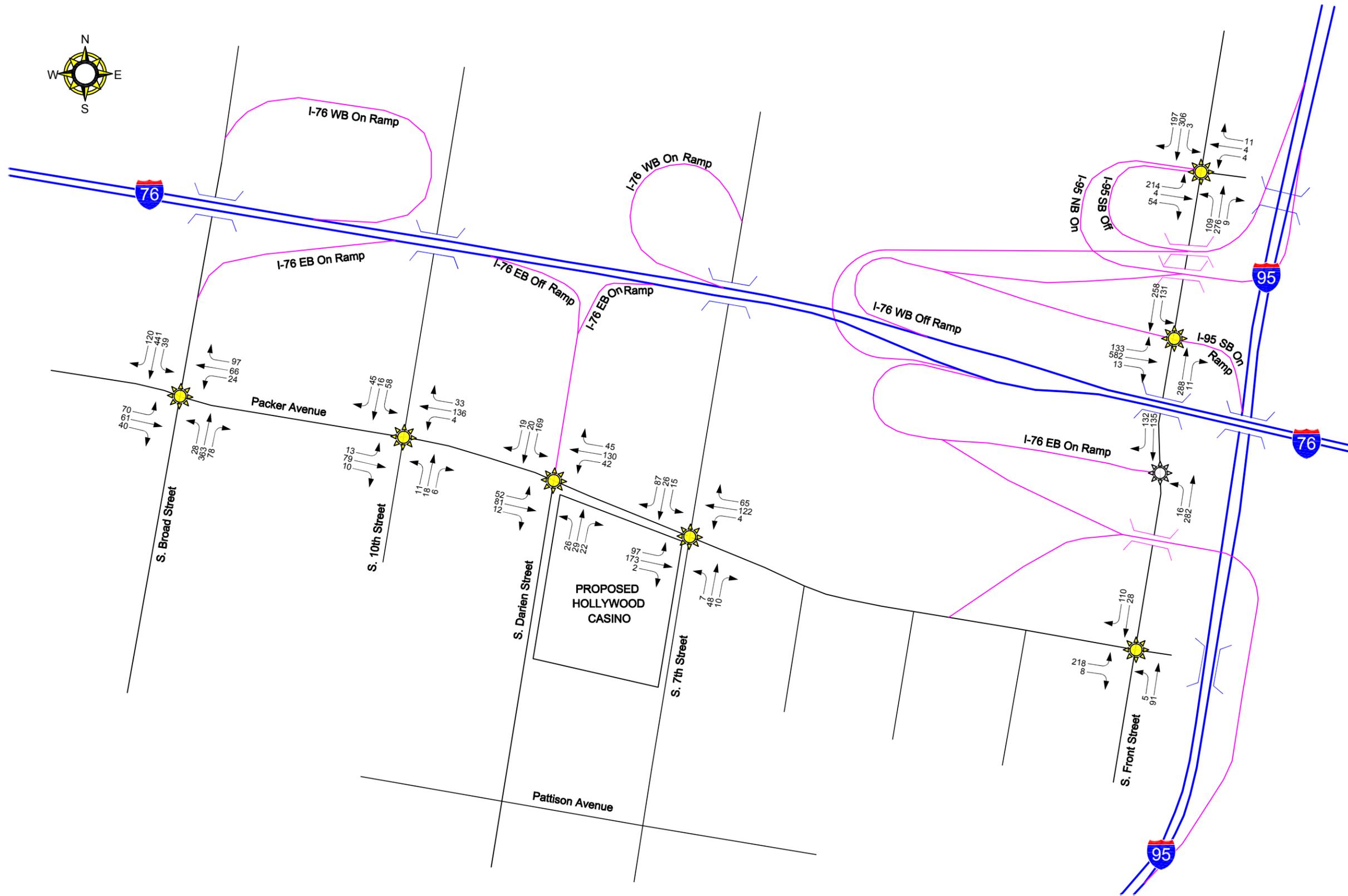
2016 PHASE 1 NO-BUILD VOLUMES
FRIDAY CASINO PEAK HOUR



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LEGEND

- Surface Street
- Interstate Highway
- Interstate Ramp
- ☀ Signalized Intersection
- ⚙ Unsignalized Intersection
- 000 Peak Hour Traffic Volume
- ← Lane Configuration

FIGURE 17



PENNONI ASSOCIATES INC.
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3001 MARKET STREET
PHILADELPHIA, PA 19104

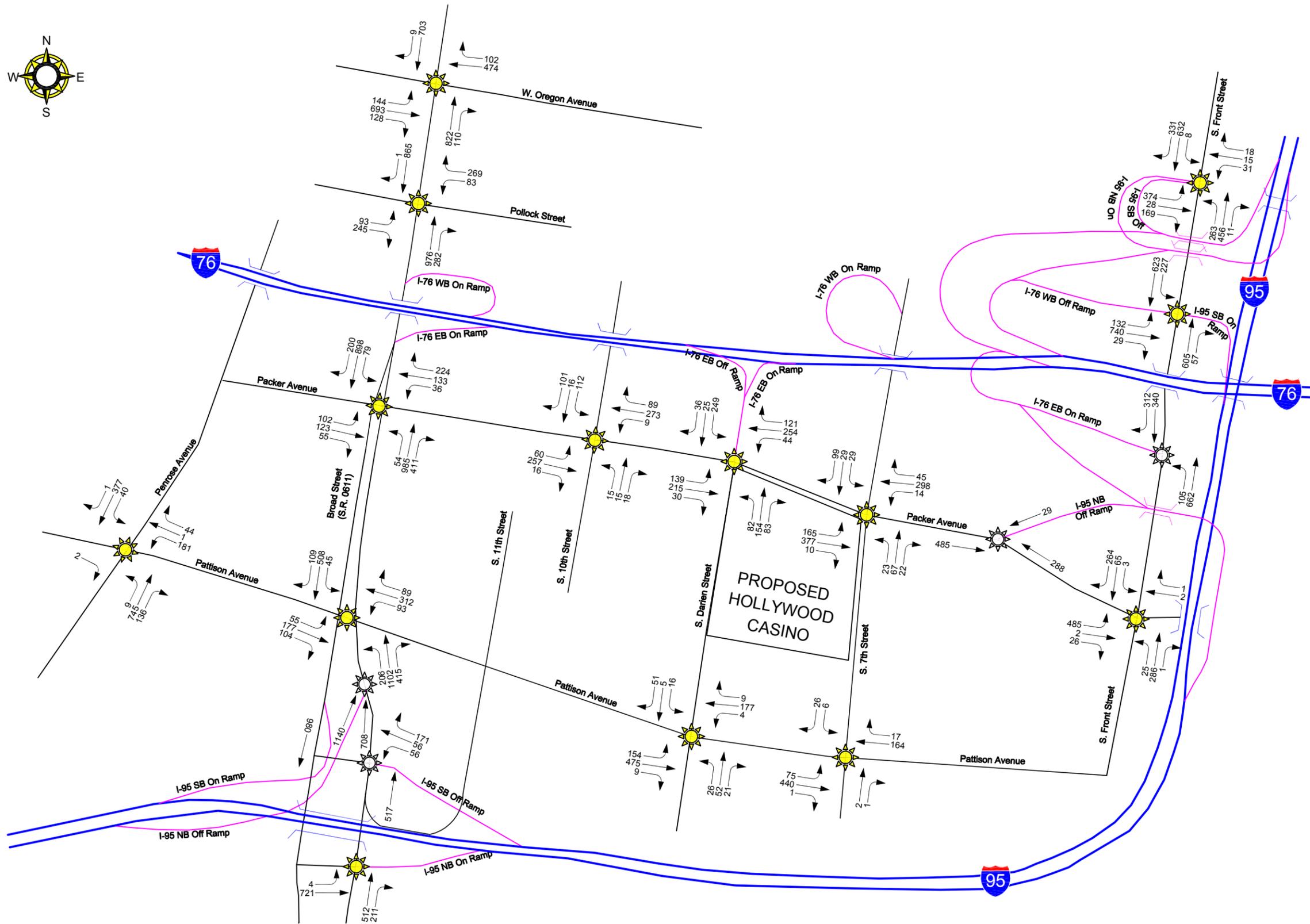
2016 PHASE 1 NO-BUILD VOLUMES
SATURDAY CASINO PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 18



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

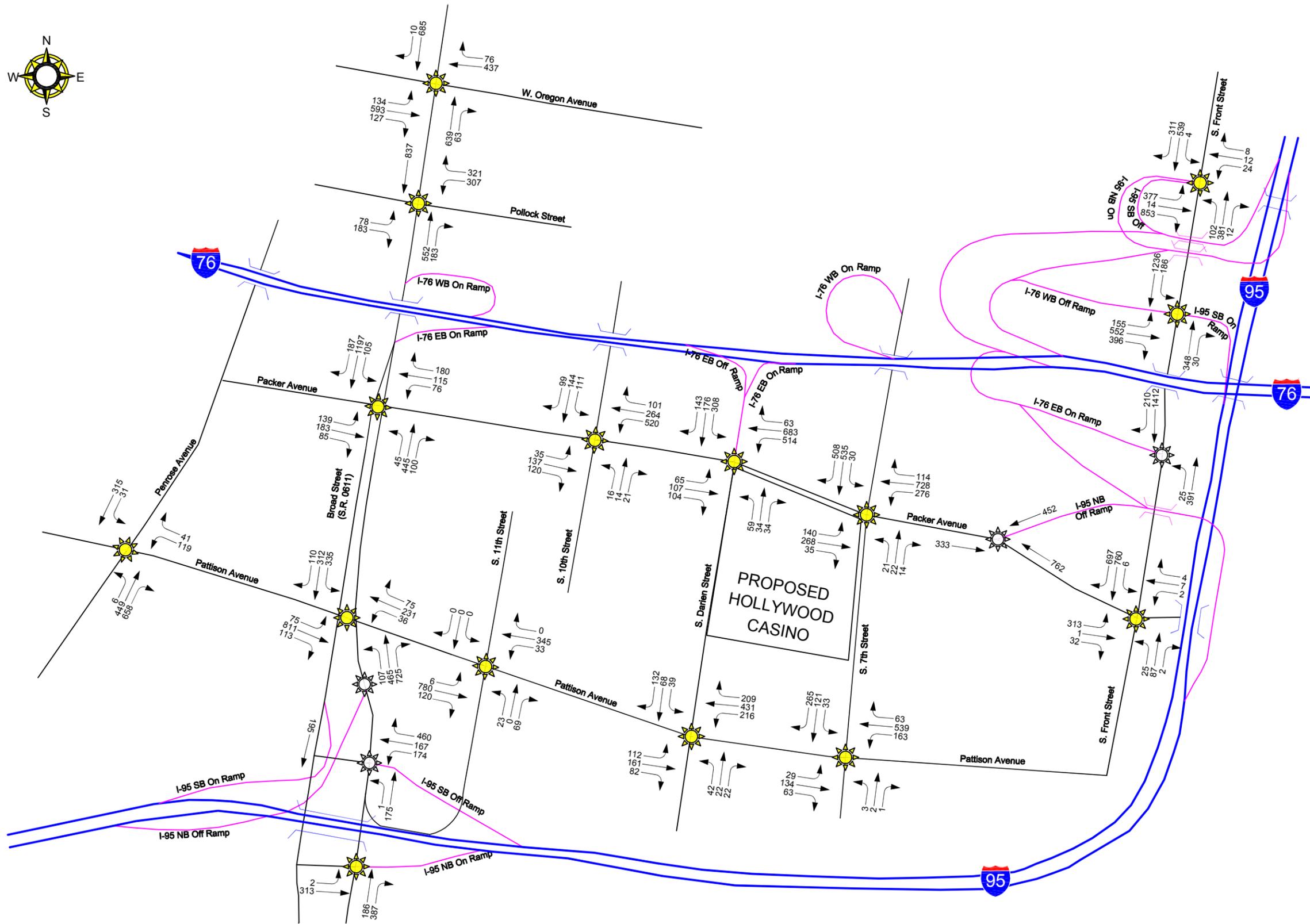
2021 PHASE 2 NO-BUILD VOLUMES
FRIDAY EVENING COMMUTER PM PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 19



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

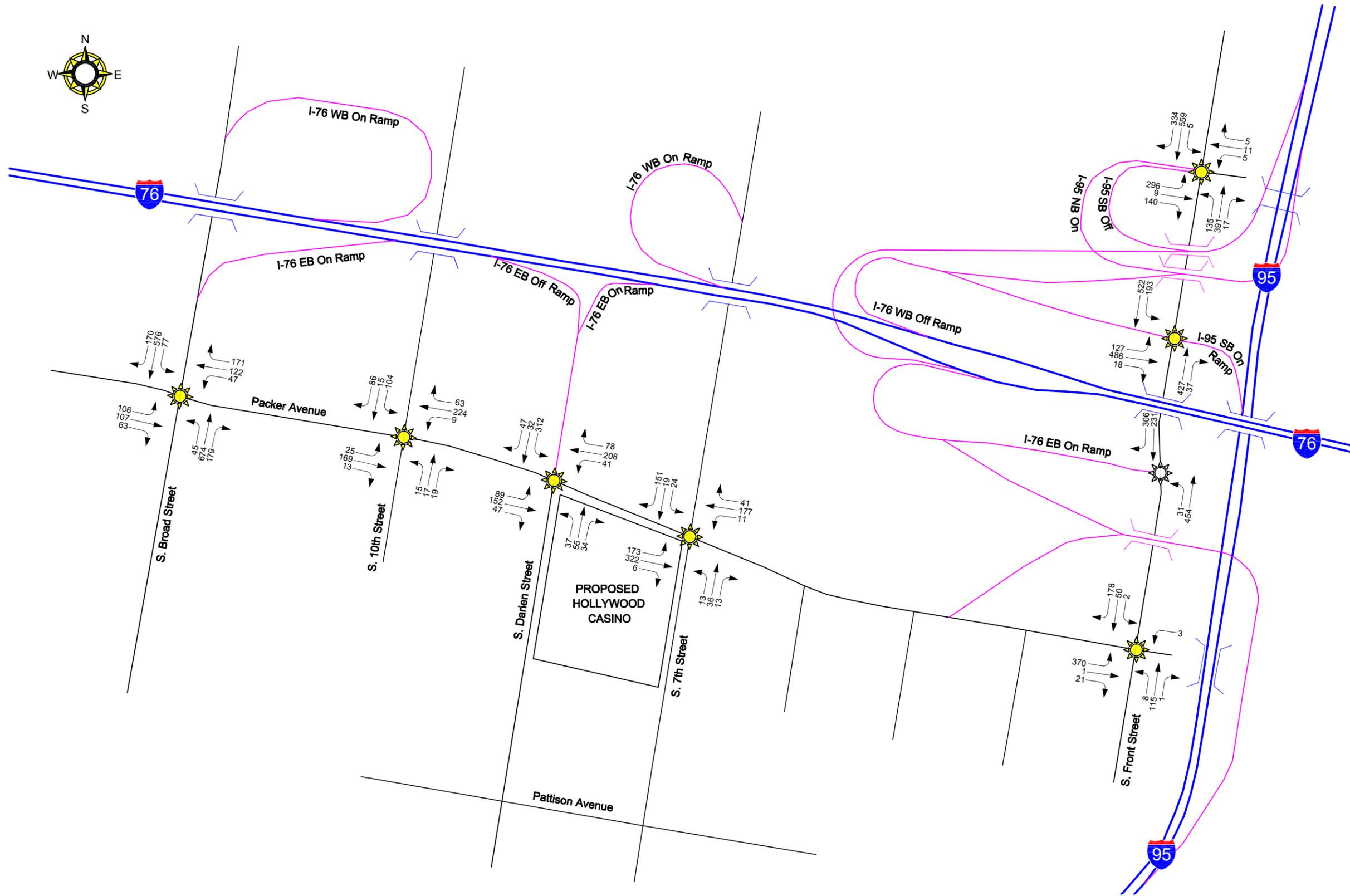
2021 PHASE 2 NO-BUILD VOLUMES
FRIDAY EVENING PRE-PHILLIES EVENT PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 20



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

2021 PHASE 2 NO-BUILD VOLUMES
FRIDAY CASINO PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 21



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

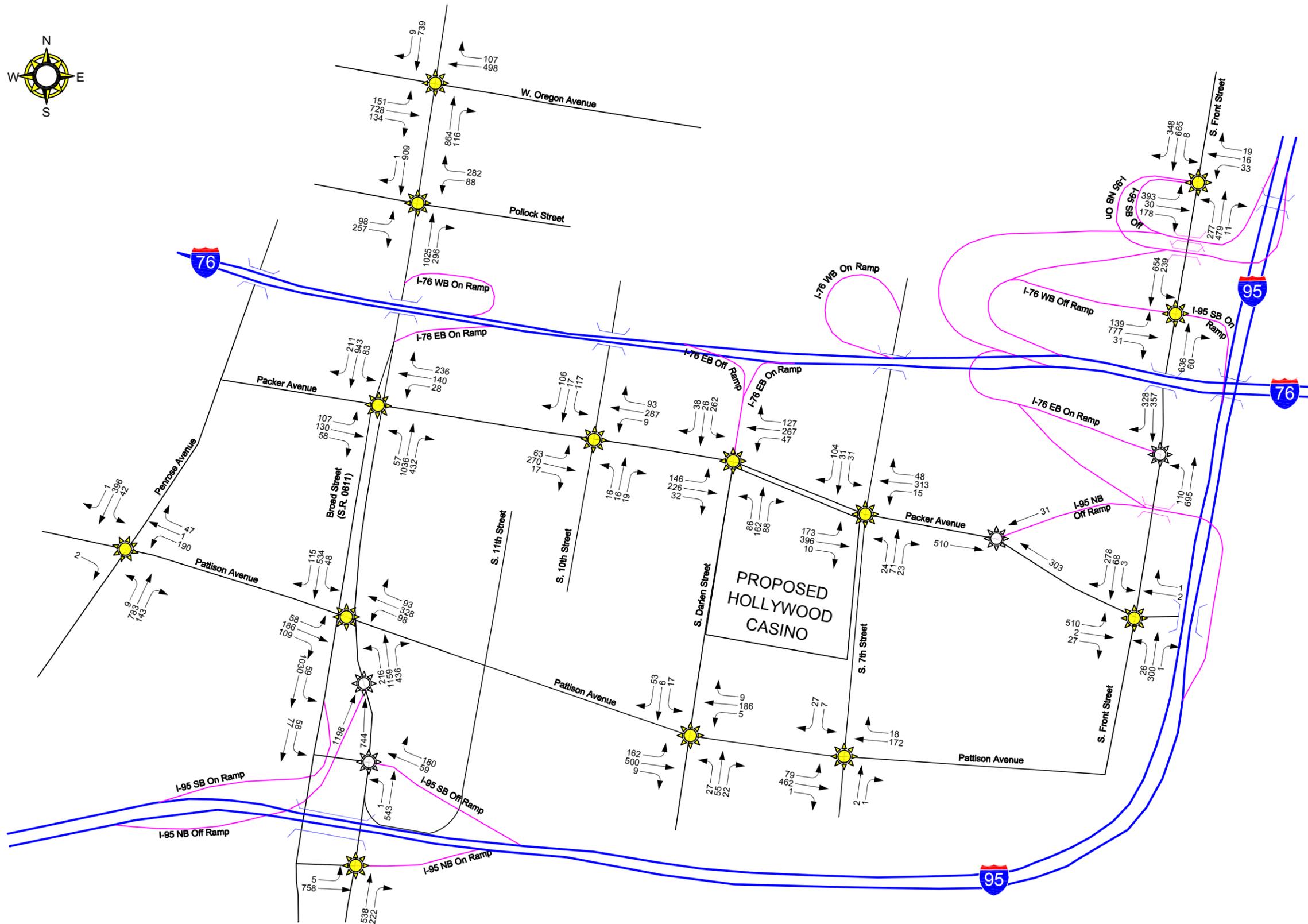
2021 PHASE 2 NO-BUILD VOLUMES
SATURDAY CASINO PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 22



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

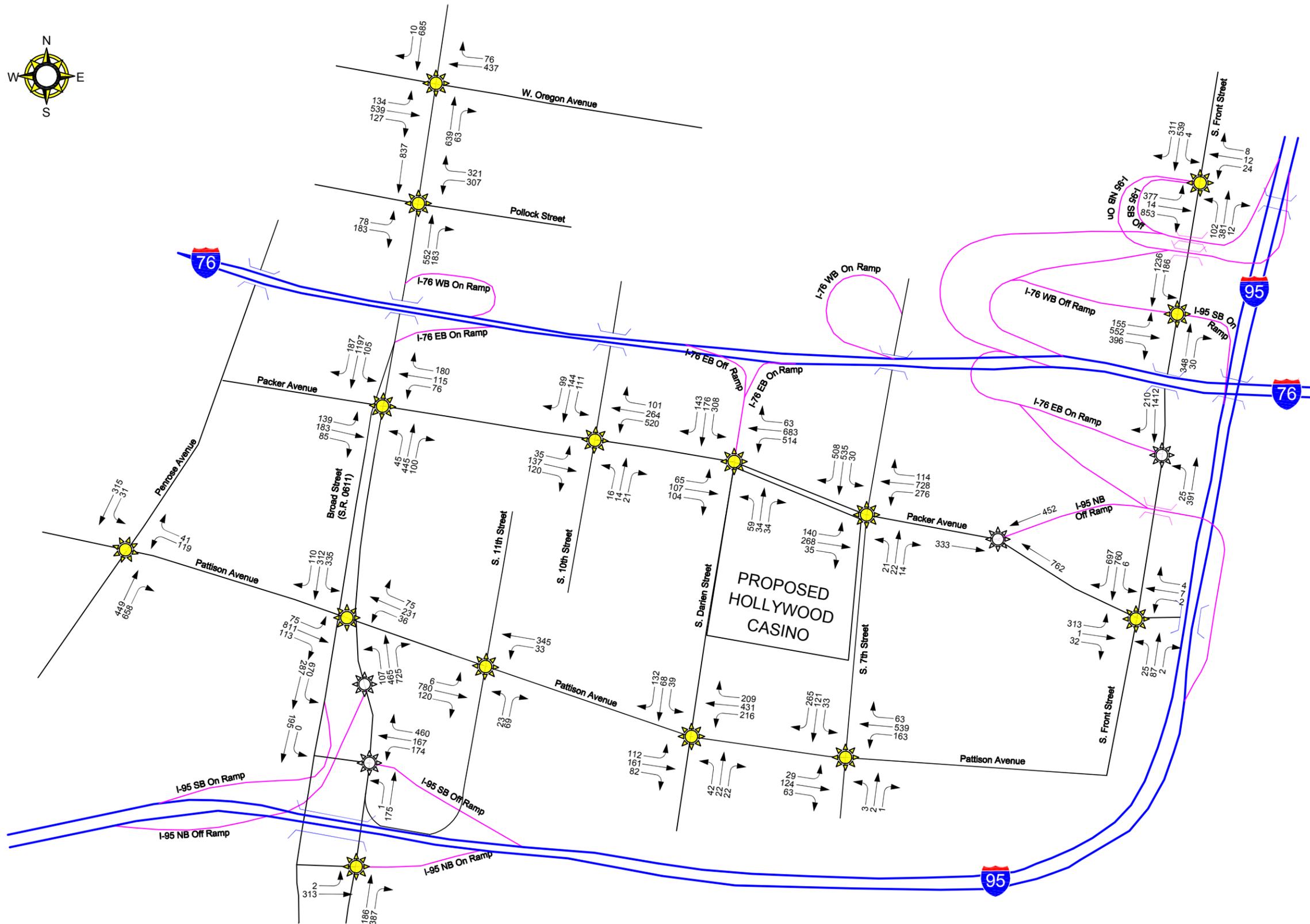
2026 HORIZON YEAR NO-BUILD VOLUMES
FRIDAY EVENING COMMUTER PEAK HOUR



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LEGEND

- Surface Street
- Interstate Highway
- Interstate Ramp
- ☀ Signalized Intersection
- ⚙ Unsignalized Intersection
- 000 Peak Hour Traffic Volume
- ← Lane Configuration

FIGURE 23



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

2026 HORIZON YEAR NO-BUILD VOLUMES
FRIDAY EVENING PRE-PHILLIES EVENT PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 24



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

2026 HORIZON YEAR NO-BUILD VOLUMES
FRIDAY CASINO PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 25



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
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2026 HORIZON YEAR NO-BUILD VOLUMES
SATURDAY CASINO PEAK HOUR



PENN NATIONAL GAMING INC.

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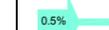
- LEGEND**
-  Local Street Contribution
 -  From I-76
 -  From I-95

FIGURE 26



PENNONI ASSOCIATES INC.
 CONSULTING ENGINEERS
 3001 MARKET STREET
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DISTRIBUTION AND ASSIGNMENT OF ENTRY TRAFFIC



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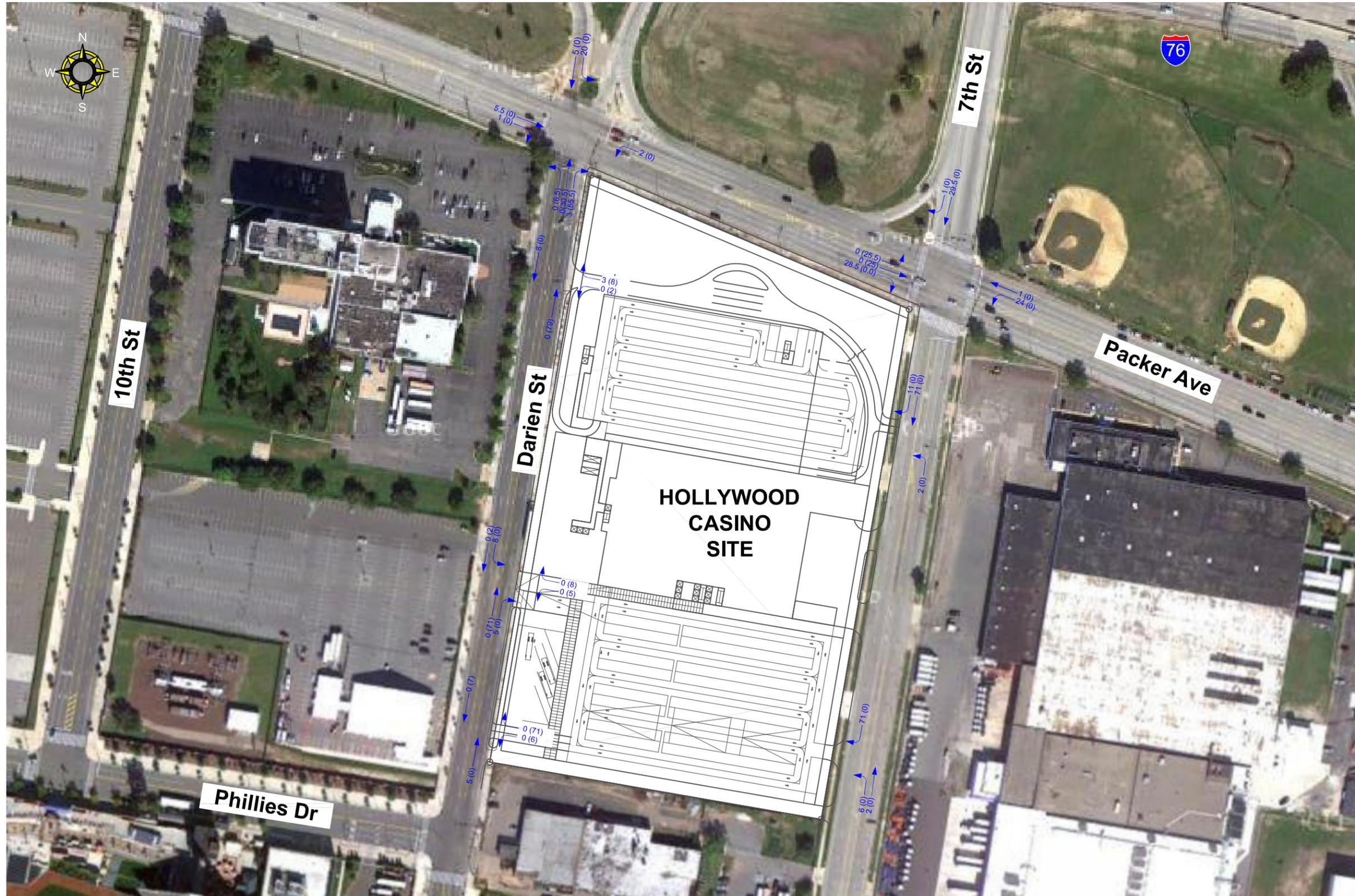
- Local Street Contribution
- To I-76
- To I-95

FIGURE 27



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
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DISTRIBUTION AND ASSIGNMENT OF EXIT TRAFFIC



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LEGEND

##(##) Entry % (Exit %)

FIGURE 28



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

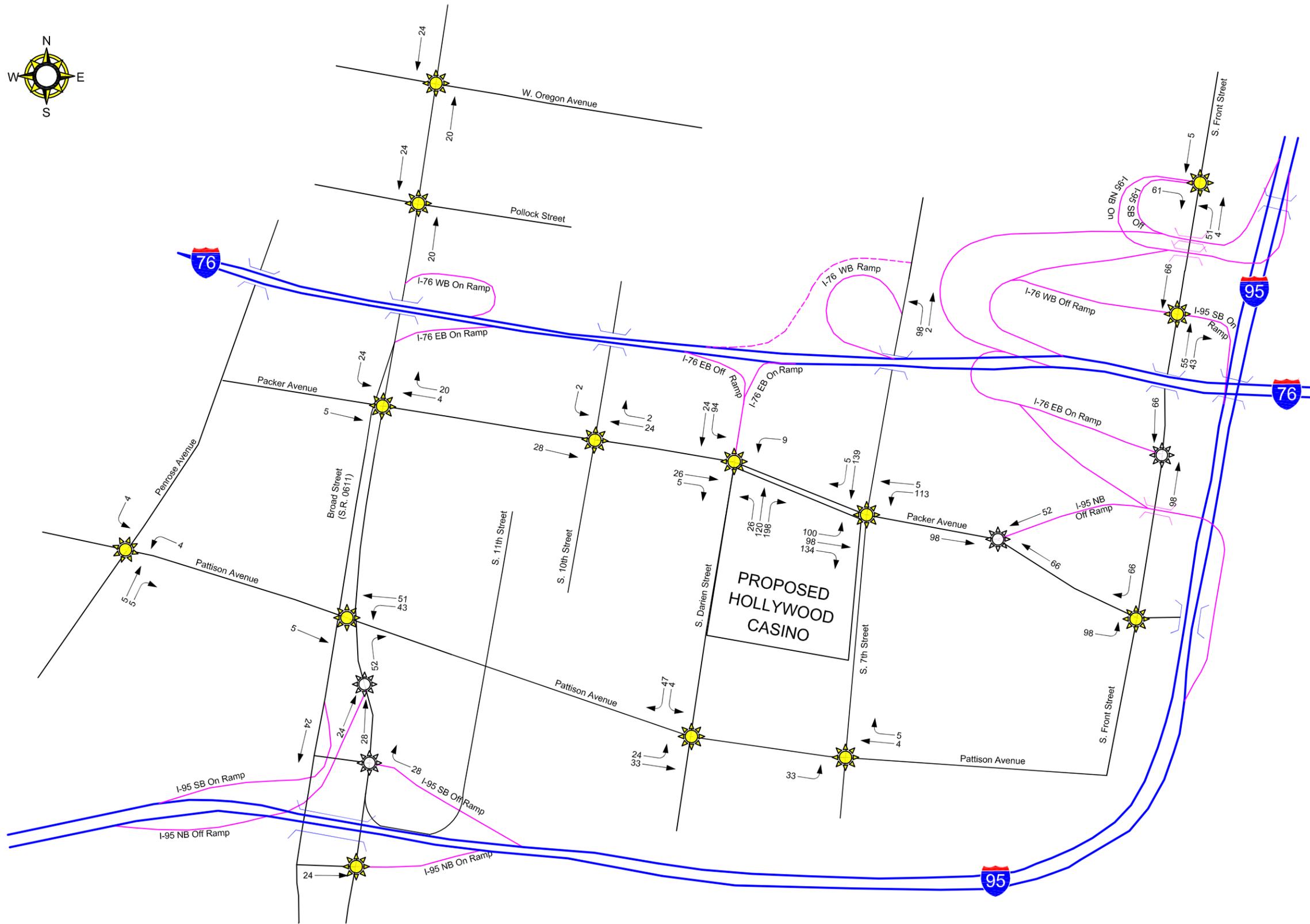
DRIVEWAY DISTRIBUTION



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - Proposed Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 29



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
3001 MARKET STREET
PHILADELPHIA, PA 19104

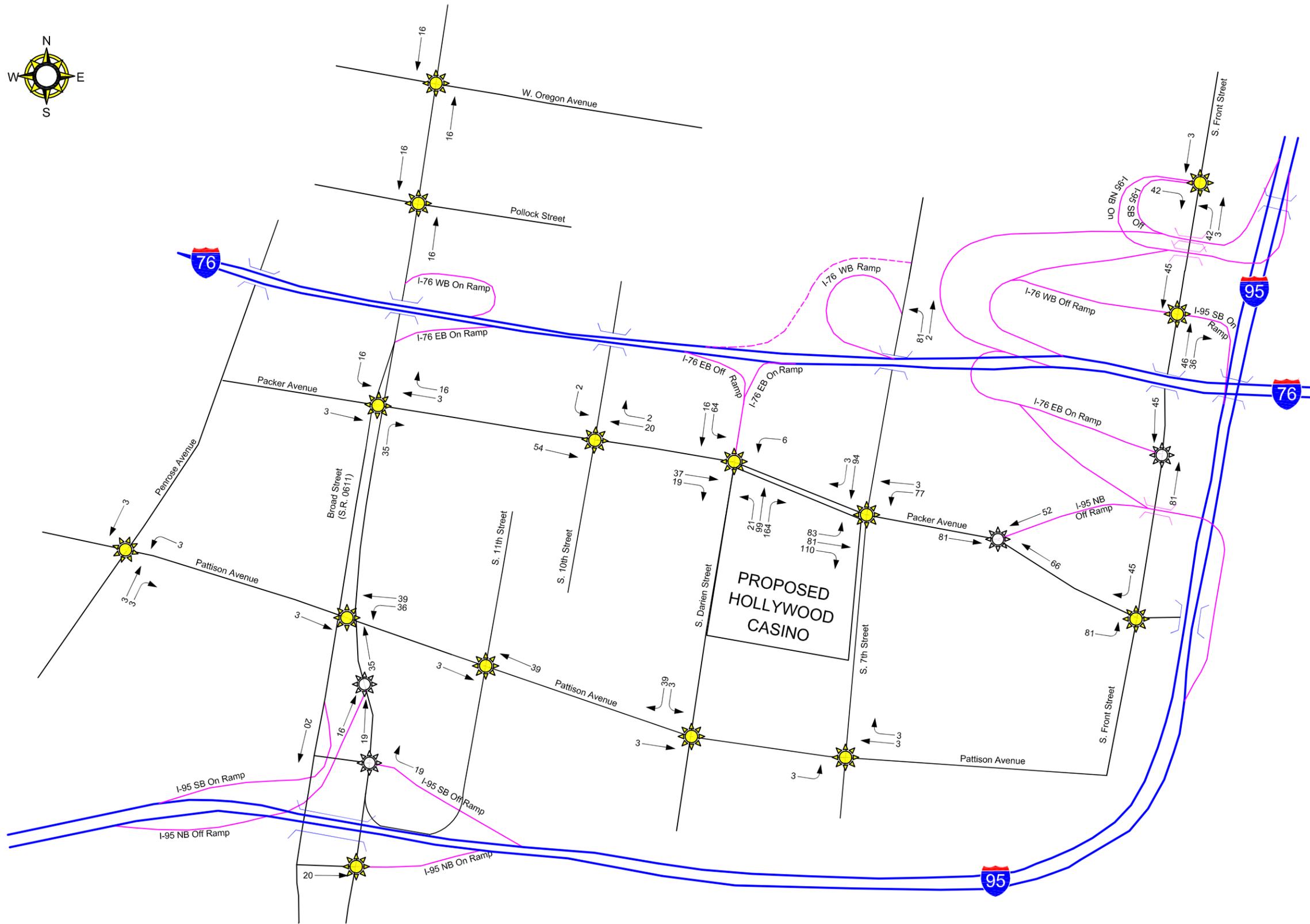
2016 PHASE 1 SITE TRIPS
FRIDAY EVENING COMMUTER PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - Proposed Interstate Ramp
 - ☀ Signalized Intersection
 - ⊙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 30



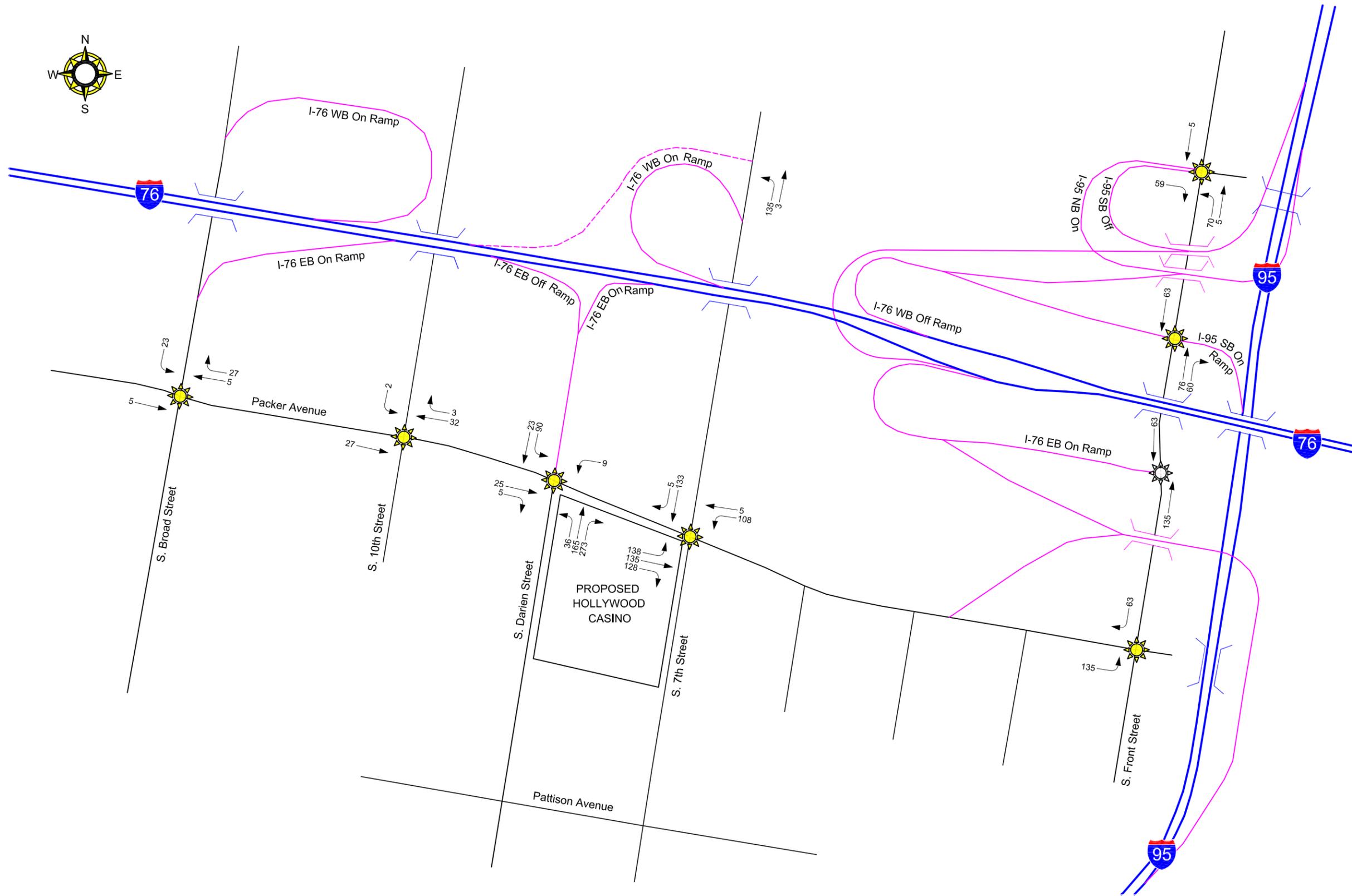
PENNONI ASSOCIATES INC.
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3001 MARKET STREET
PHILADELPHIA, PA 19104

2016 PHASE 1 SITE TRIPS
FRIDAY EVENING PRE-PHILLIES EVENT PEAK HOUR



HOLLYWOOD CASINO
PHILADELPHIA, PA
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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - Proposed Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 31



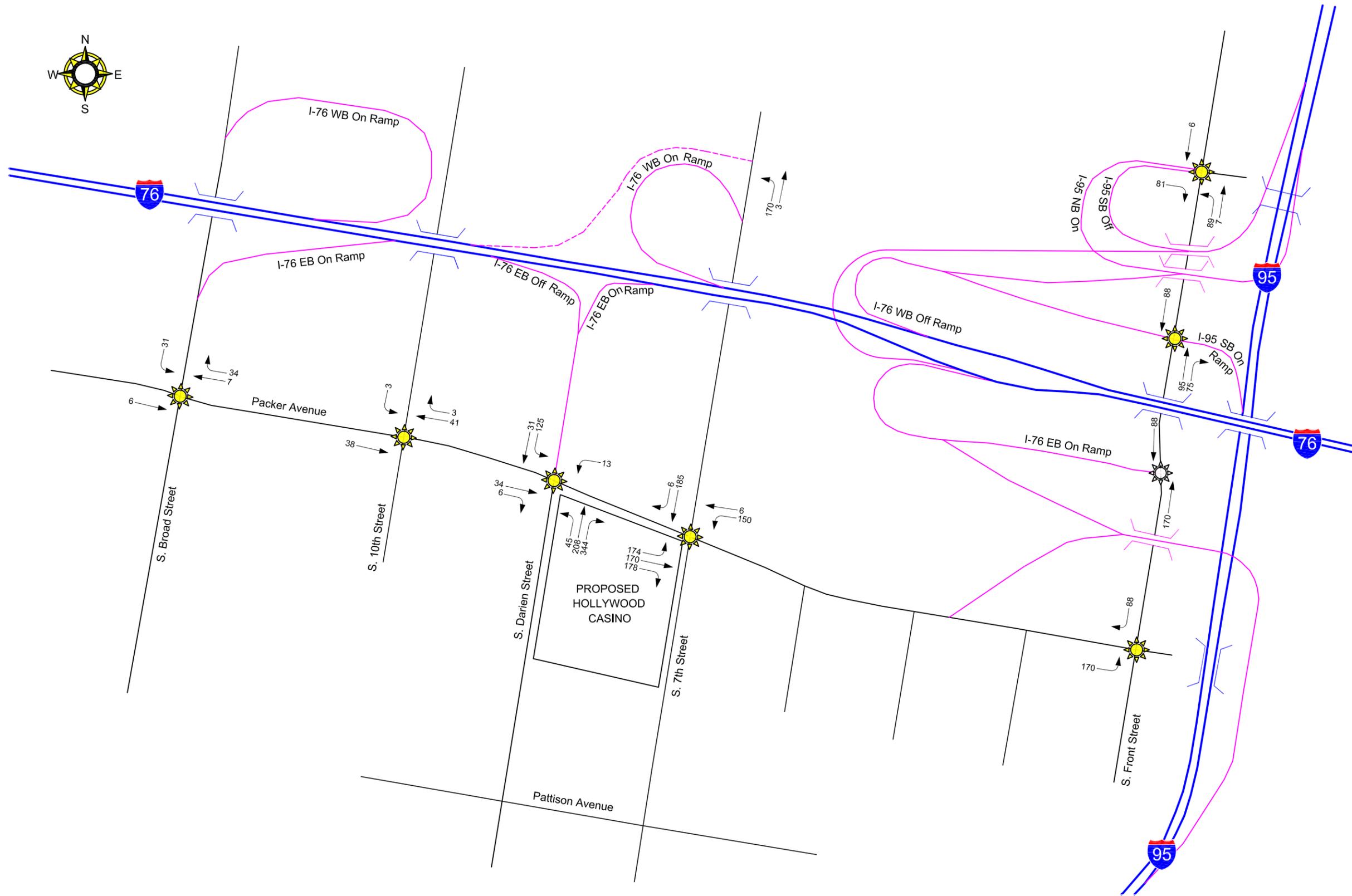
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2016 PHASE 1 SITE TRIPS
FRIDAY CASINO PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - Proposed Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 32



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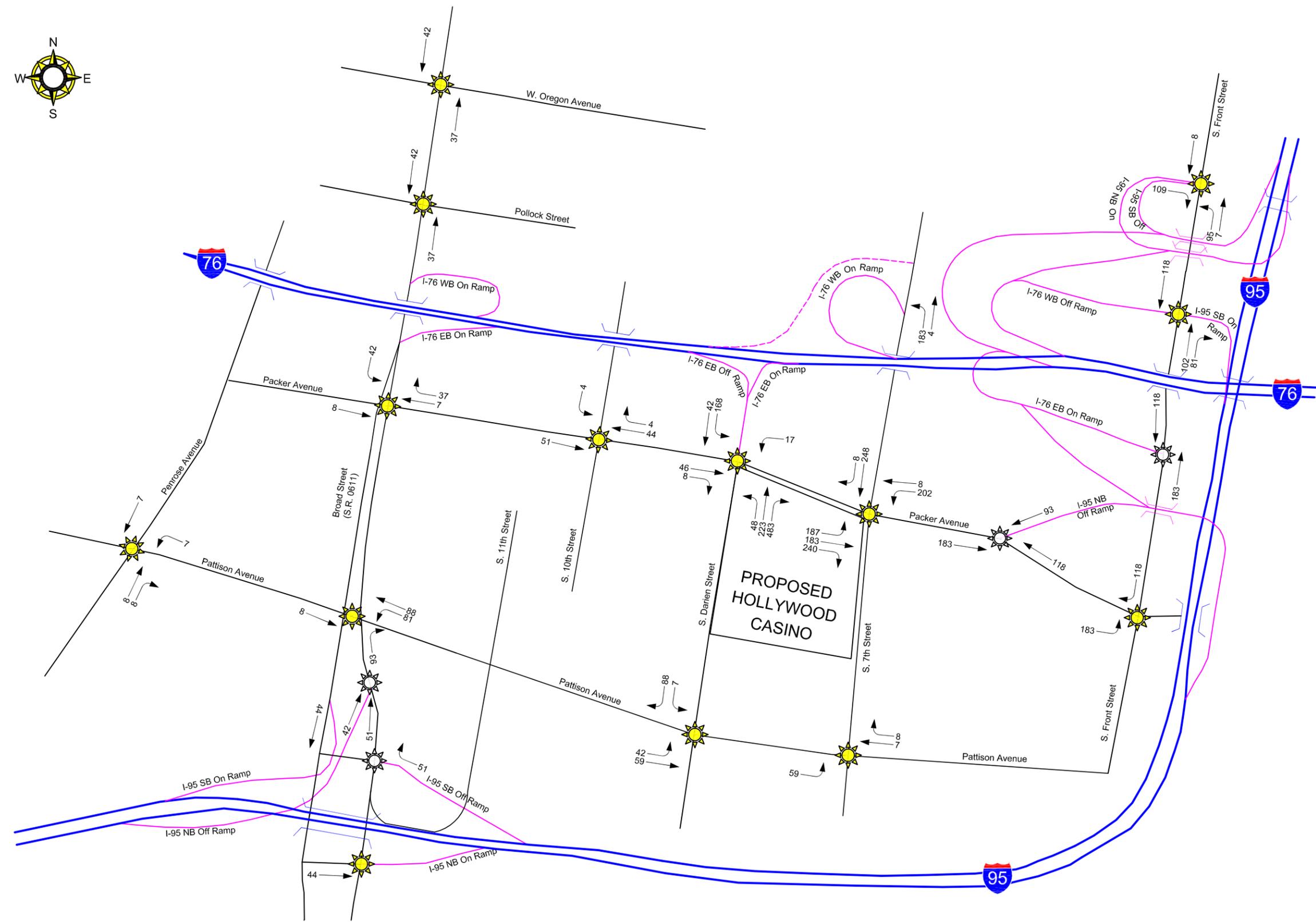
2016 PHASE 1 SITE TRIPS
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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - Proposed Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 33



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3001 MARKET STREET
PHILADELPHIA, PA 19104

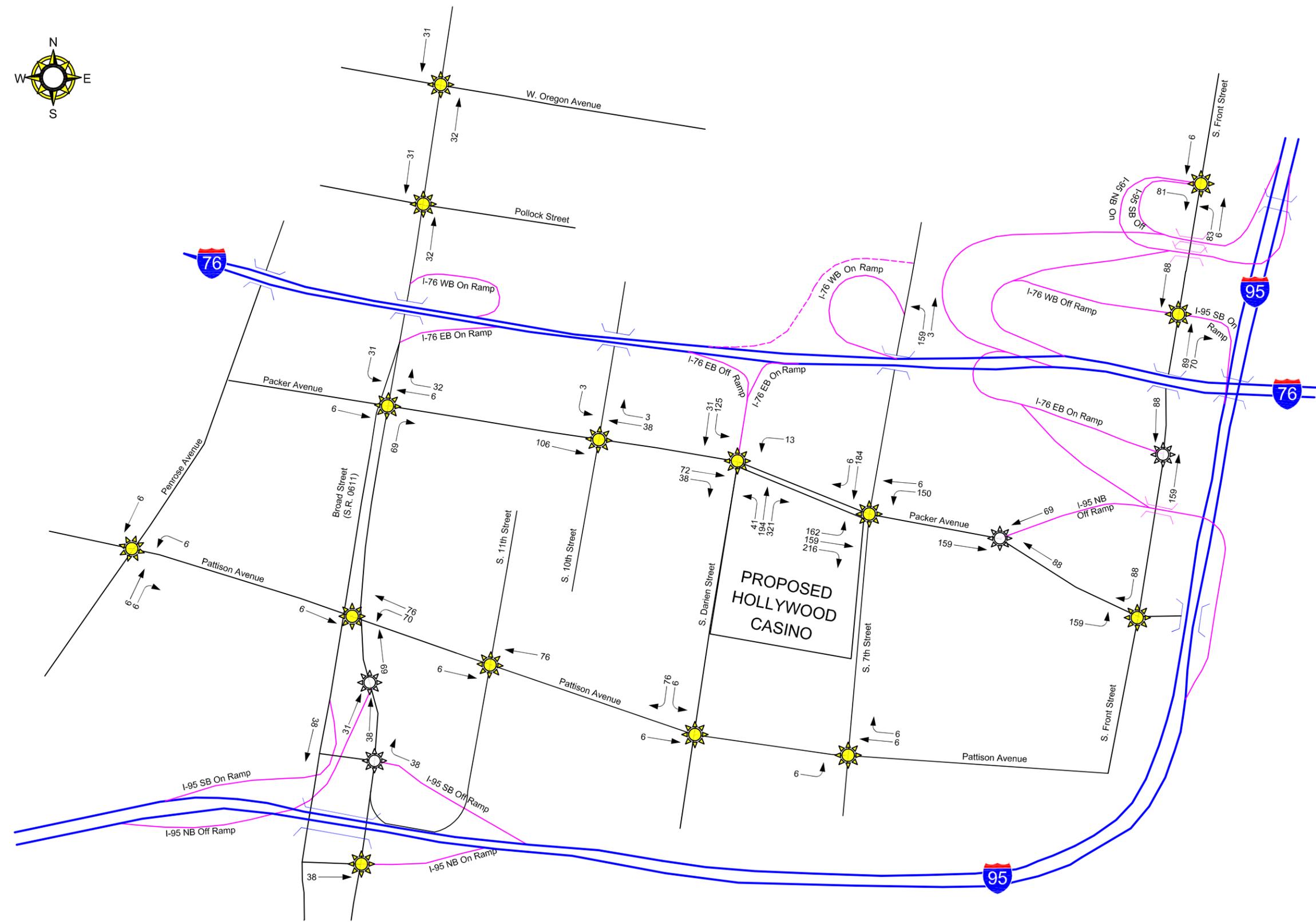
2021 & 2026 PHASE 2 SITE TRIPS
FRIDAY EVENING COMMUTER PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - Proposed Interstate Ramp
 - ☀ Signalized Intersection
 - ⊙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 34



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3001 MARKET STREET
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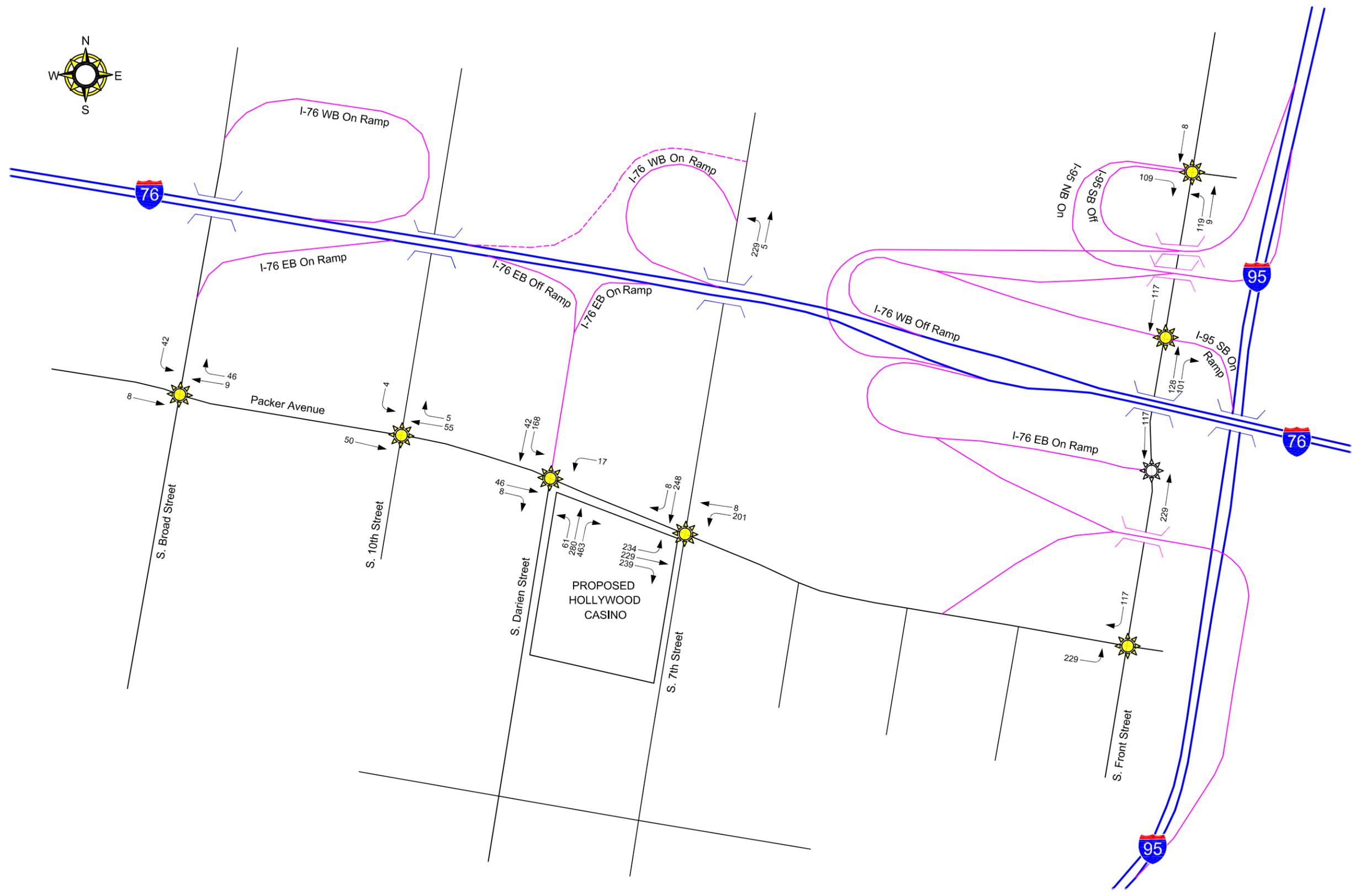
2021 & 2026 PHASE 2 SITE TRIPS
FRIDAY EVENING PRE-PHILLIES EVENT PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - Proposed Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 35



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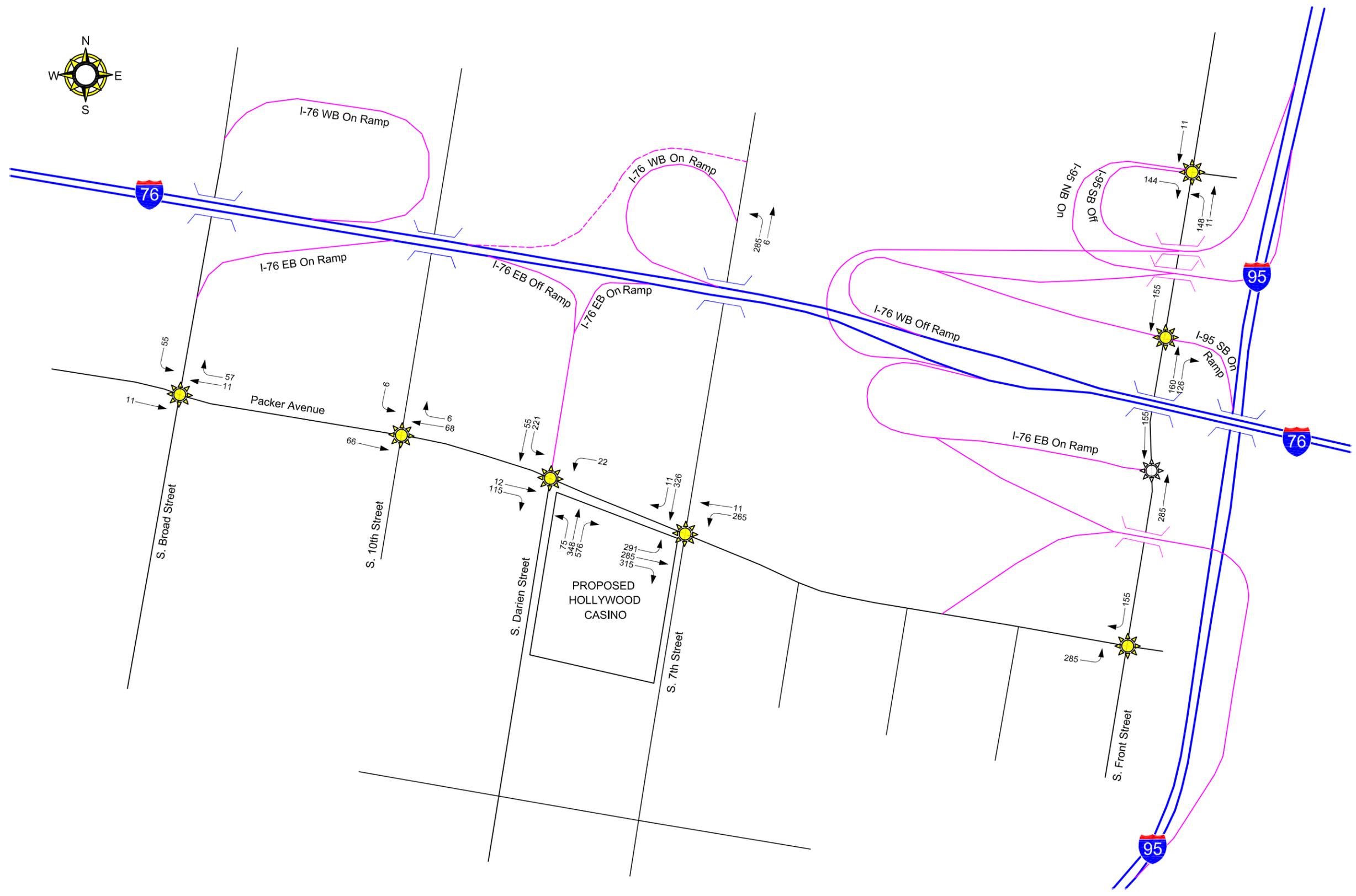
2021 & 2026 PHASE 2 SITE TRIPS
FRIDAY CASINO PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - Proposed Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 36



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**2021 & 2026 PHASE 2 SITE TRIPS
SATURDAY CASINO PEAK HOUR**



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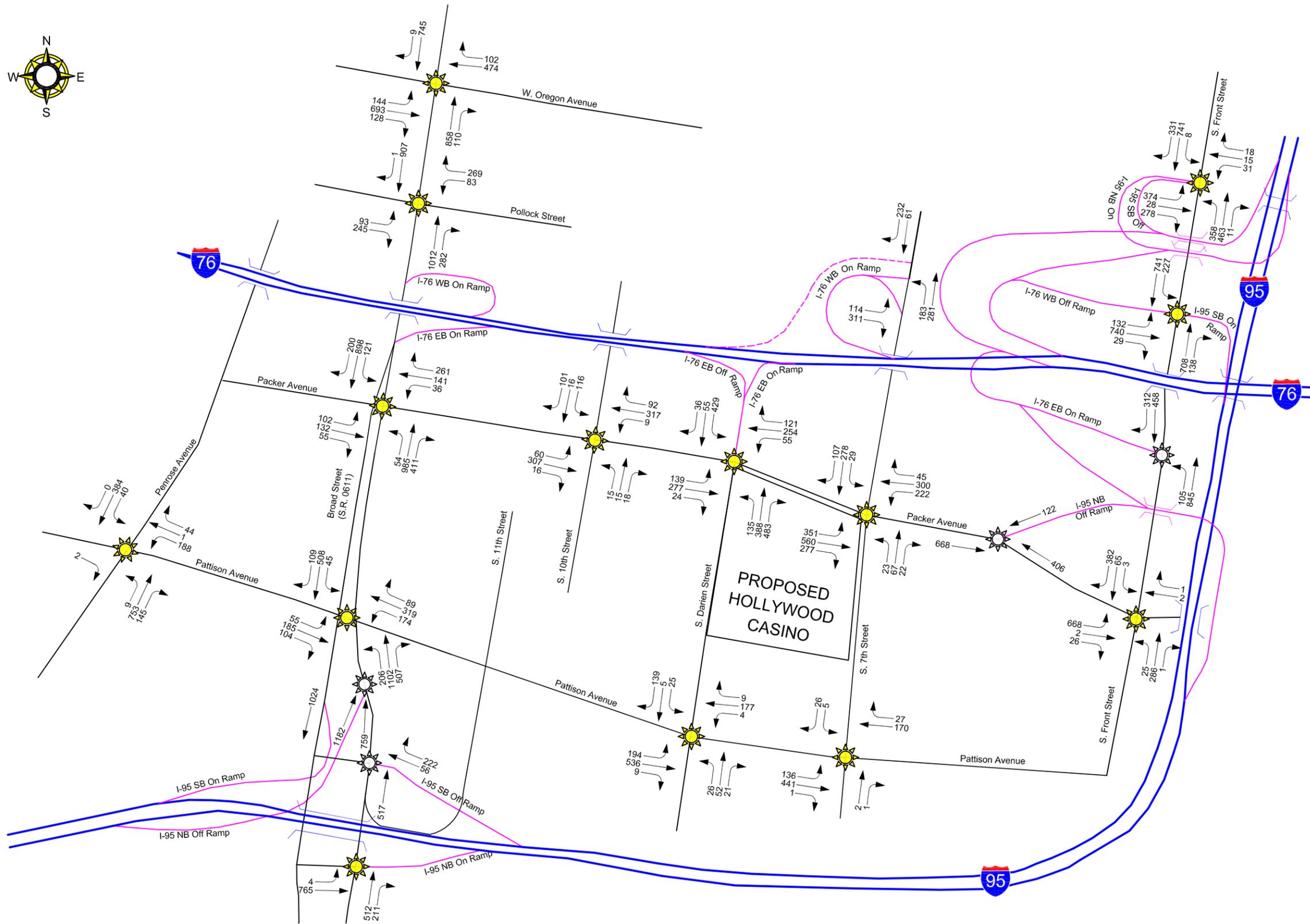


FIGURE 41



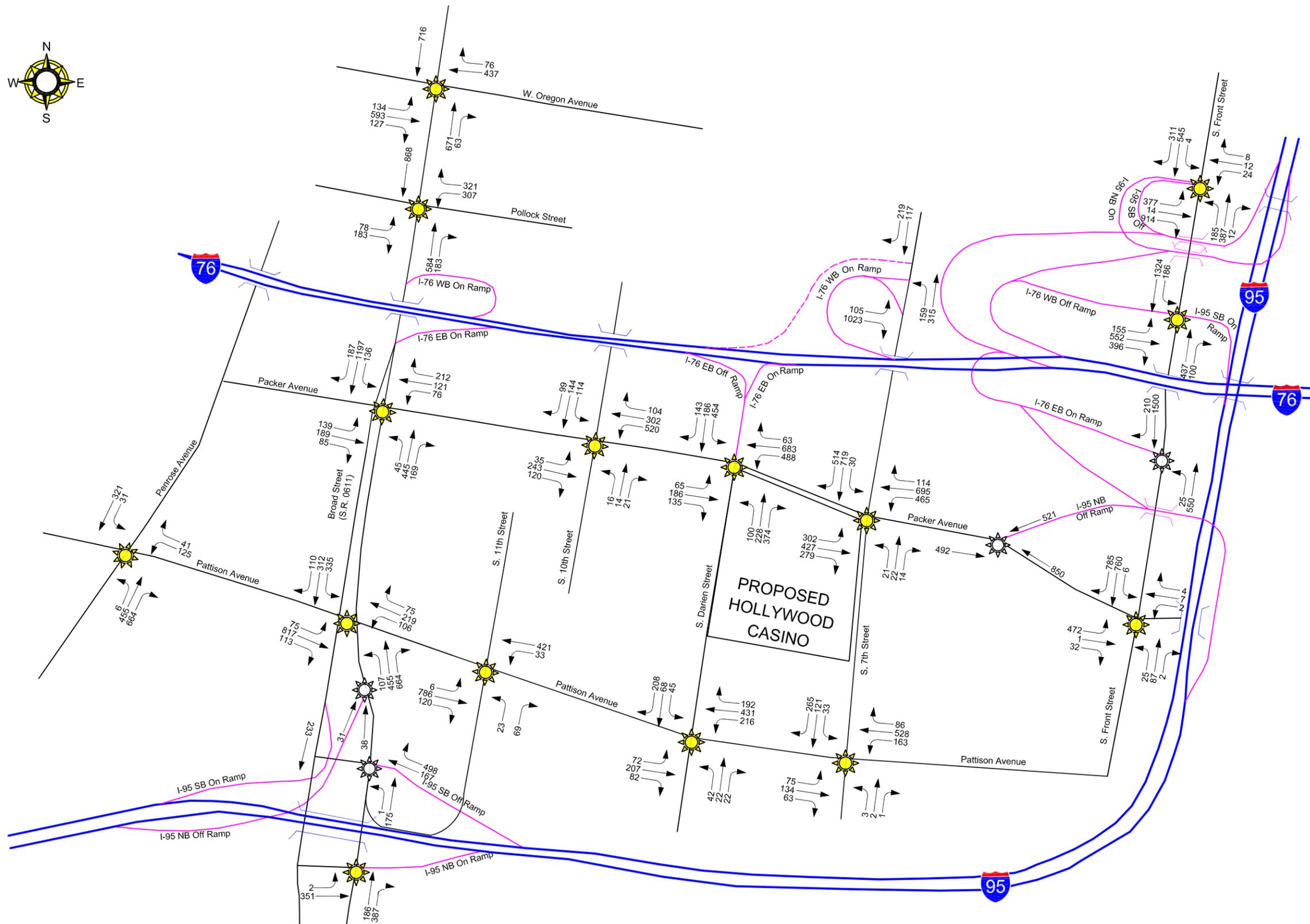
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PHILADELPHIA, PA 19104

2021 PHASE 2 BUILD VOLUMES
FRIDAY EVENING COMMUTER PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - Proposed Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 42



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PHILADELPHIA, PA 19104

2021 PHASE 2 BUILD VOLUMES
FRIDAY EVENING PRE-PHILLIES EVENT PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - Proposed Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 43



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
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PHILADELPHIA, PA 19104

2021 PHASE 2 BUILD VOLUMES
FRIDAY CASINO PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - Proposed Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 44



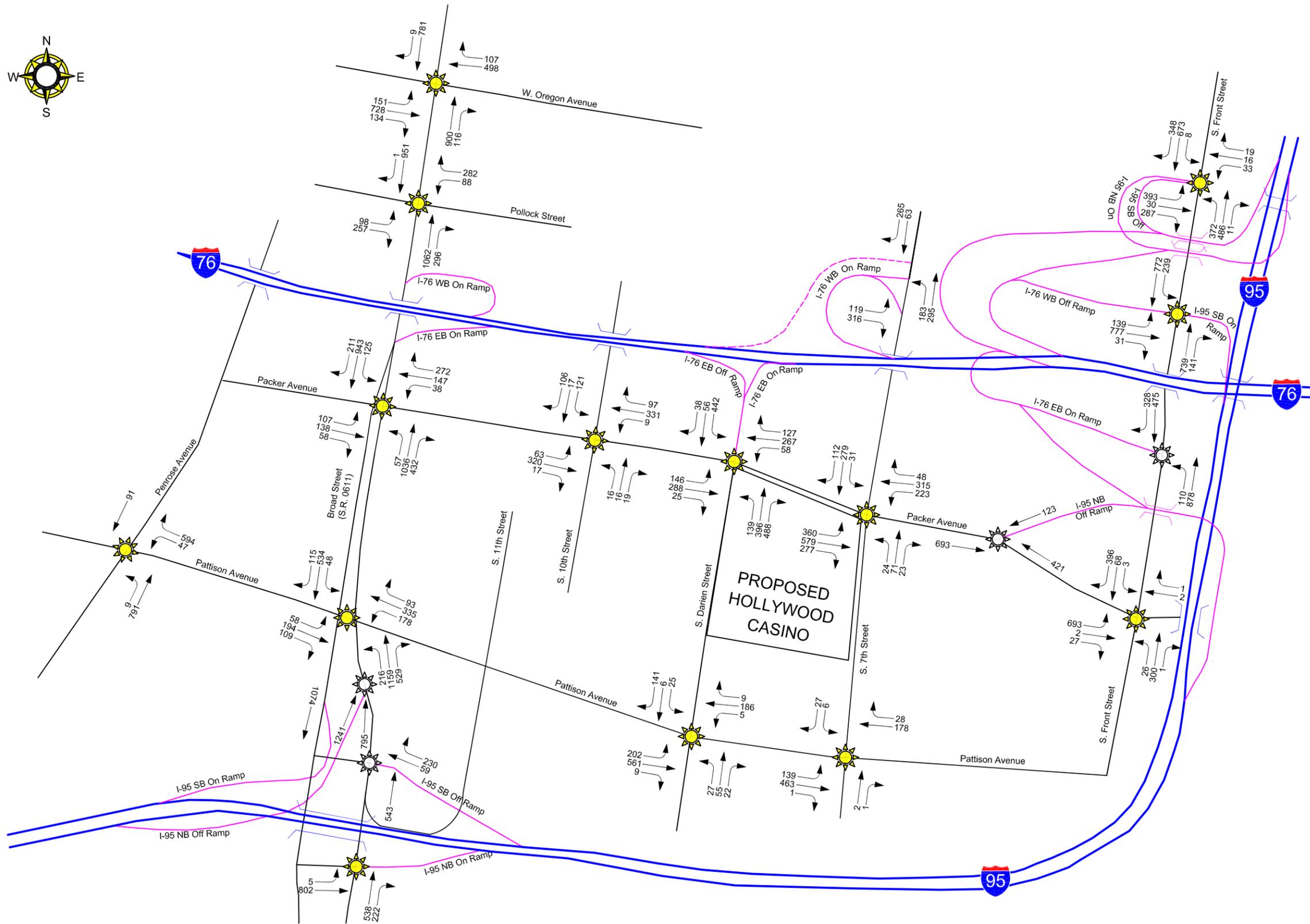
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2021 PHASE 2 BUILD VOLUMES
SATURDAY CASINO PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - Proposed Interstate Ramp
 - ☀ Signalized Intersection
 - ⊙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 45



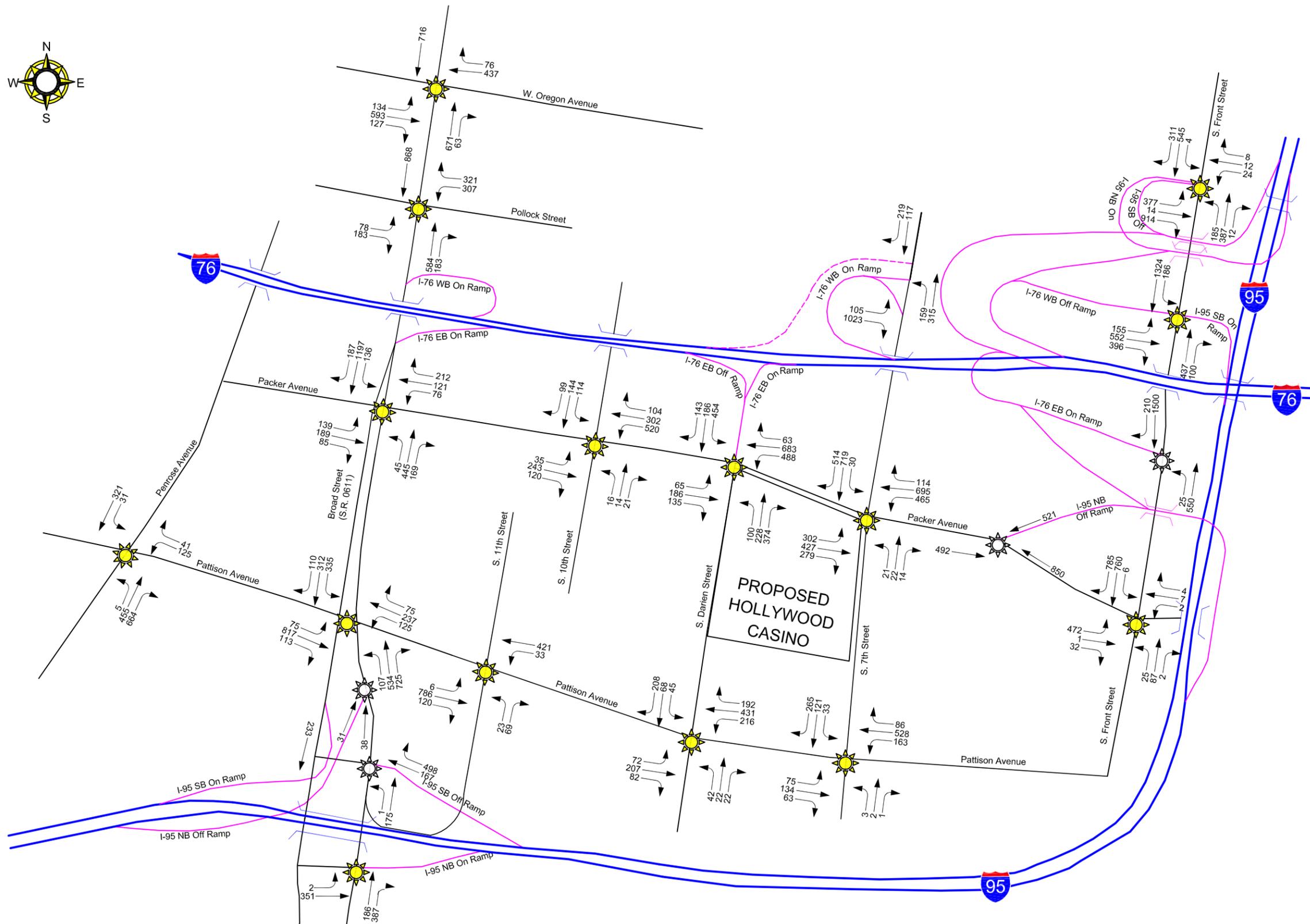
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PHILADELPHIA, PA 19104

2026 HORIZON BUILD VOLUMES
FRIDAY EVENING COMMUTER PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - Proposed Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 46



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2026 HORIZON BUILD VOLUMES
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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - Proposed Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 47



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2026 HORIZON BUILD VOLUMES
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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - Proposed Interstate Ramp
 - ☀ Signalized Intersection
 - ⚙ Unsignalized Intersection
 - 000 Peak Hour Traffic Volume
 - ← Lane Configuration

FIGURE 48



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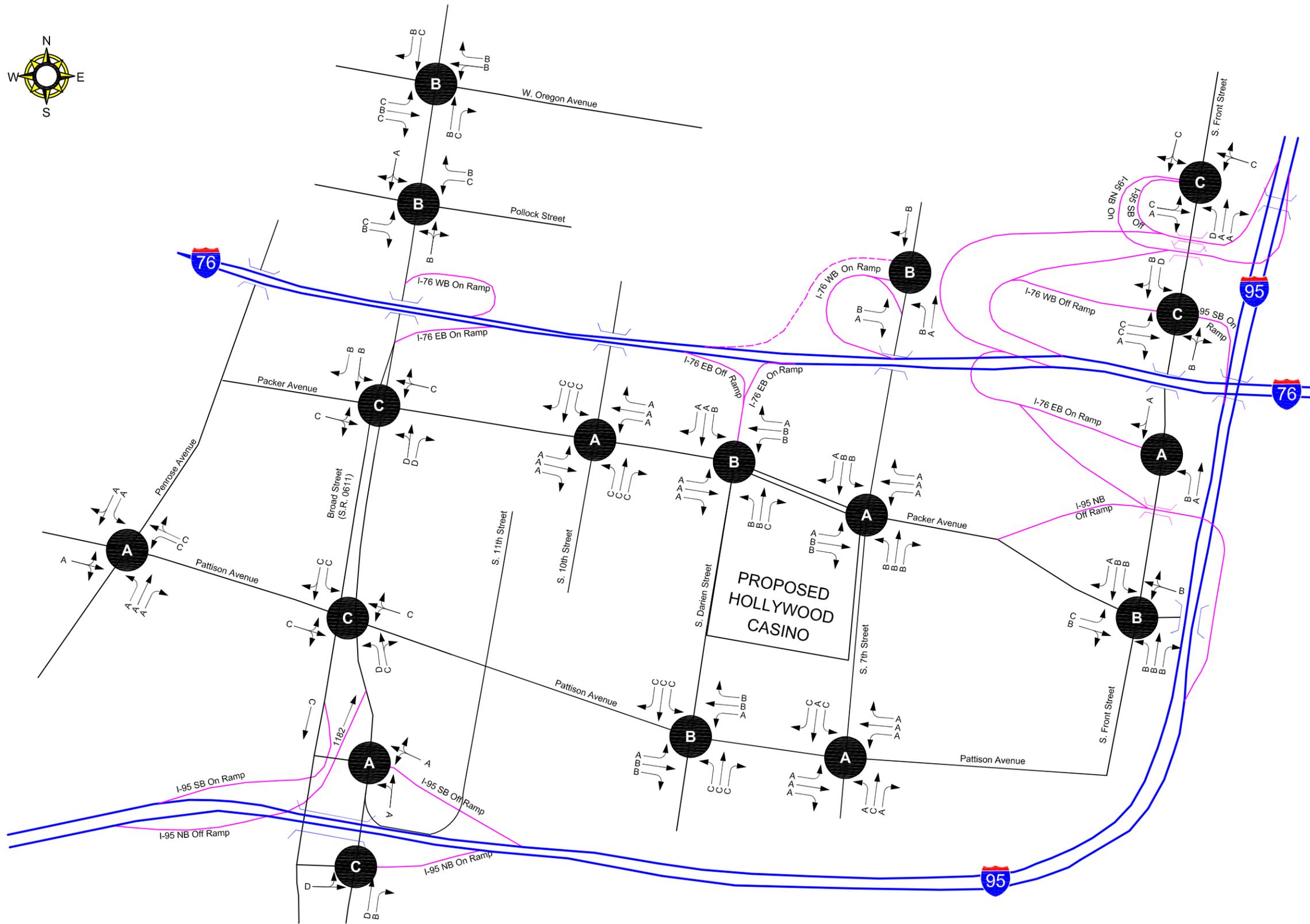
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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - Overall Intersection Level of Service
 - A Peak Level of Service
 - ← Lane Configuration

FIGURE 49



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CONSULTING ENGINEERS
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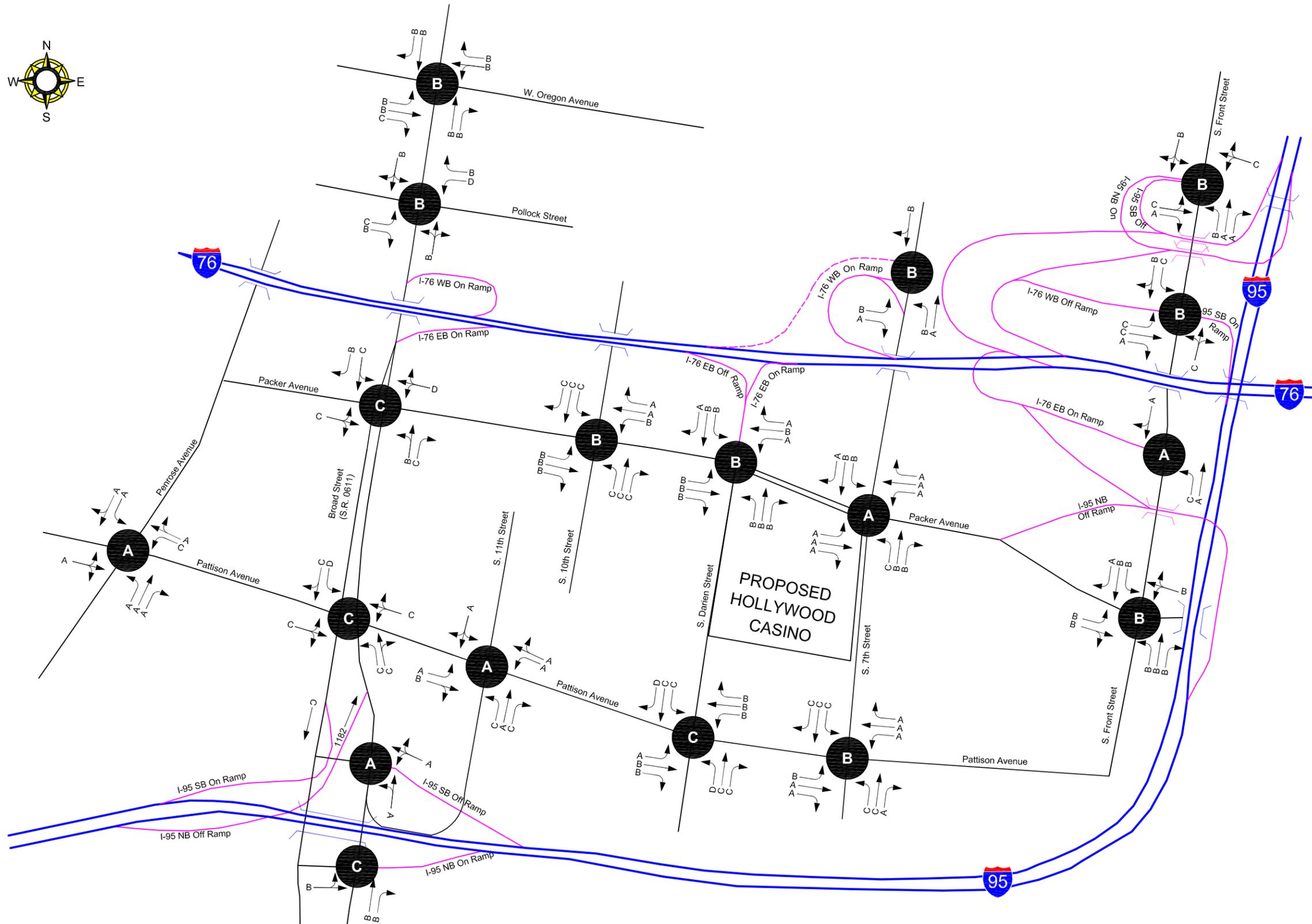
2026 HORIZON BUILD WITH IMPROVEMENTS LEVEL OF SERVICE
FRIDAY EVENING COMMUTER PEAK HOUR



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- LEGEND**
- Surface Street
 - Interstate Highway
 - Interstate Ramp
 - Overall Intersection Level of Service
 - A Peak Level of Service
 - ← Lane Configuration

FIGURE 50



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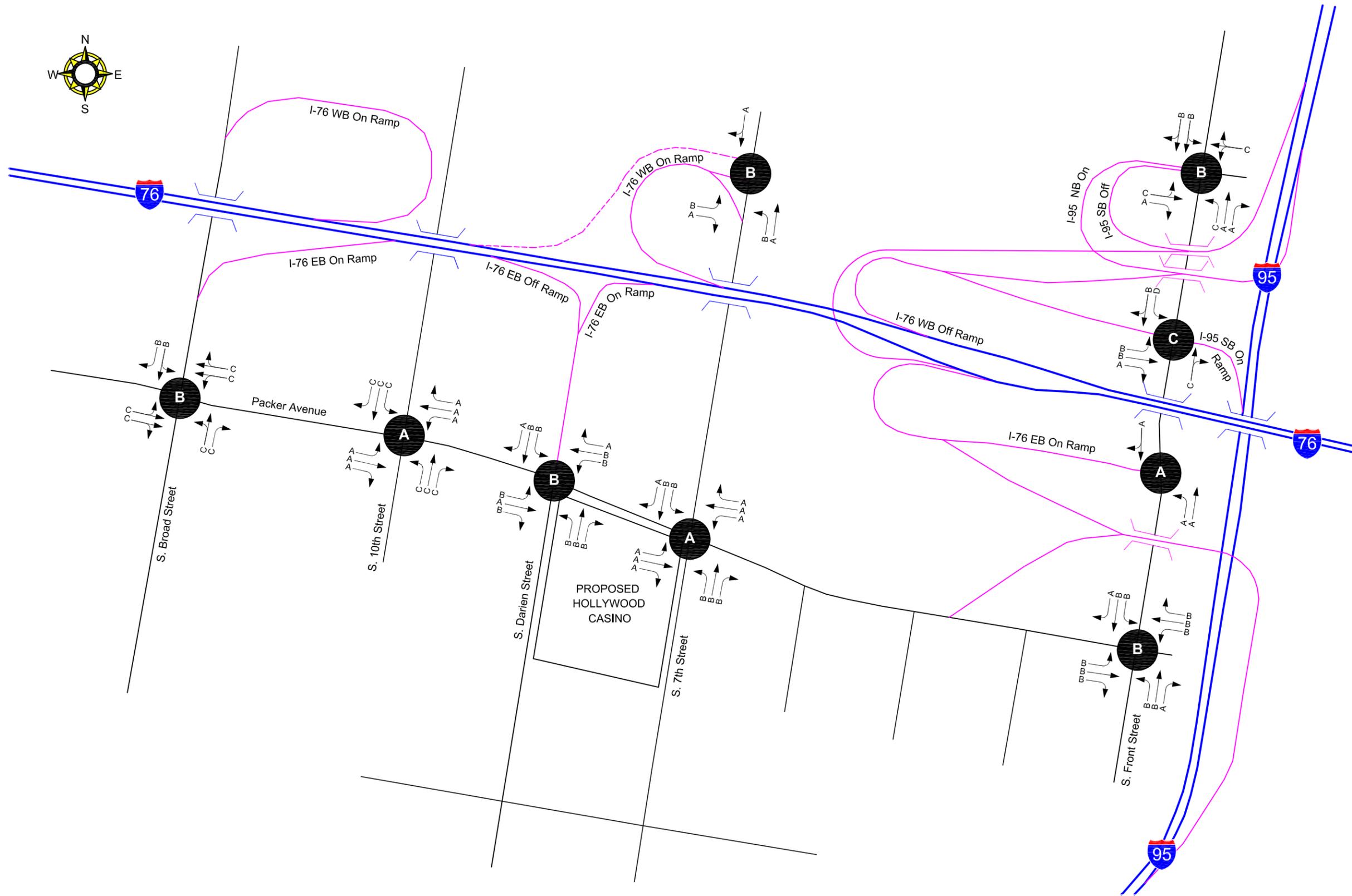
2026 HORIZON BUILD WITH IMPROVEMENTS LEVEL OF SERVICE
FRIDAY EVENING PRE-PHILLIES EVENT PEAK HOUR



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LEGEND

- Surface Street
- Interstate Highway
- Interstate Ramp
- Overall LOS
- A Unsignalized Intersection
- ← Lane Configuration

FIGURE 51



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2026 HORIZON BUILD WITH IMPROVEMENTS LEVEL OF SERVICE

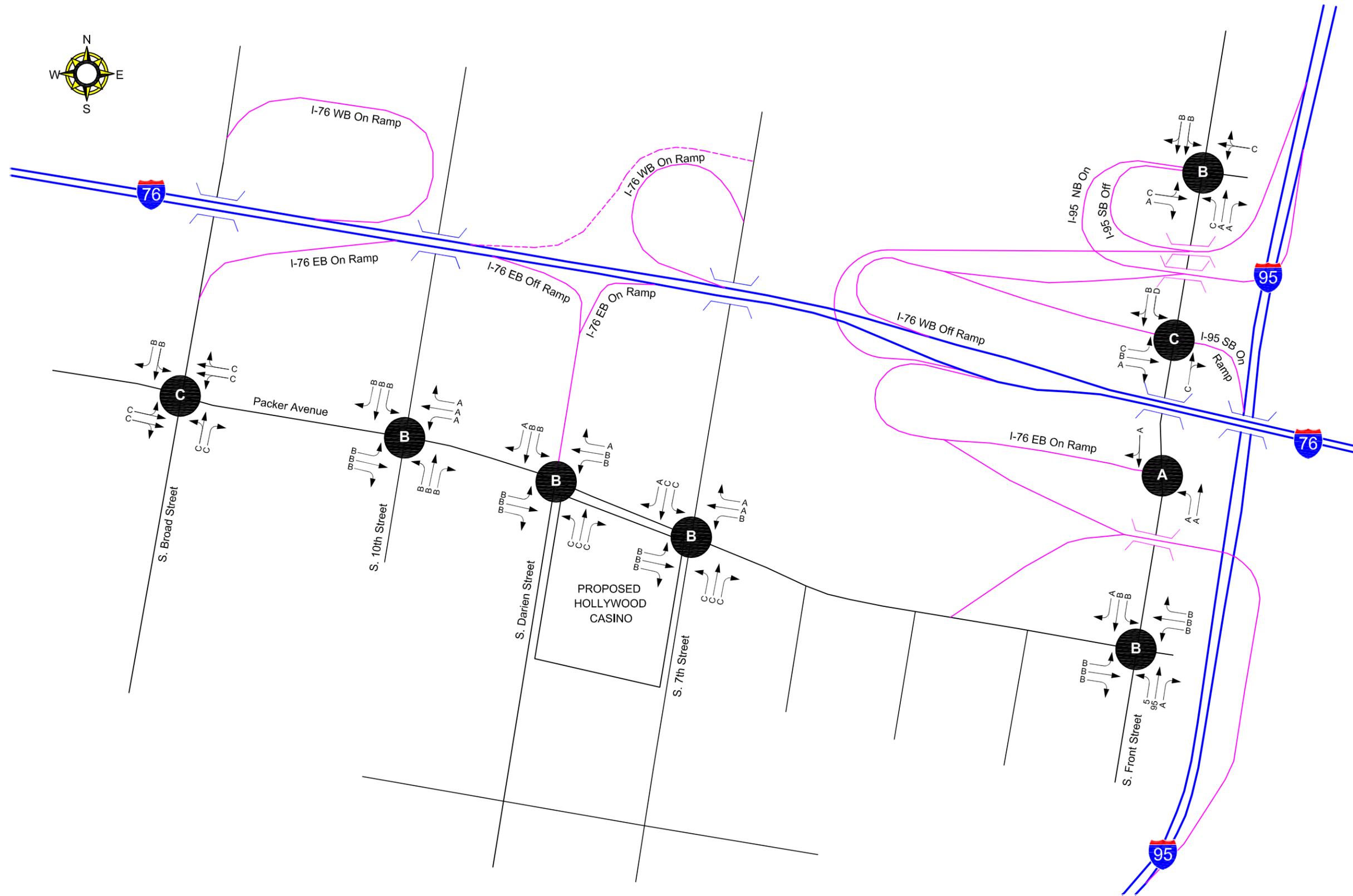
FRIDAY CASINO PEAK HOUR



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LEGEND

- Surface Street
- Interstate Highway
- Interstate Ramp
- C Overall Intersection Level of Service
- A Peak Level of Service
- ← Lane Configuration

FIGURE 52



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3001 MARKET STREET
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2026 HORIZON BUILD WITH IMPROVEMENTS LEVEL OF SERVICE
SATURDAY CASINO PEAK HOUR