

East Rosemary Parking Deck



March 10, 2021

CHAPEL HILL

OPEN2.BIZ





VARSITY AL



RECOMMENDATION:

That the Council adopt the two resolutions to:

- 1) determine the number of lanes at the eastern East Rosemary entrance, and
- 2) to determine the parking technology for the deck.



Project Status:

- North Street under option set to close early May
- Design team for North Street assembled and beginning work
- Title issues being worked out
- Plans submitted to DOI for review
- Tree and roadway design issues presented at CCES
- To proceed, decision about lanes and parking technology critical



WALKER
CONSULTANTS

125 E. Rosemary Deck

Vehicle Entrance & Exit Lane Configuration Selection

March 10, 2021

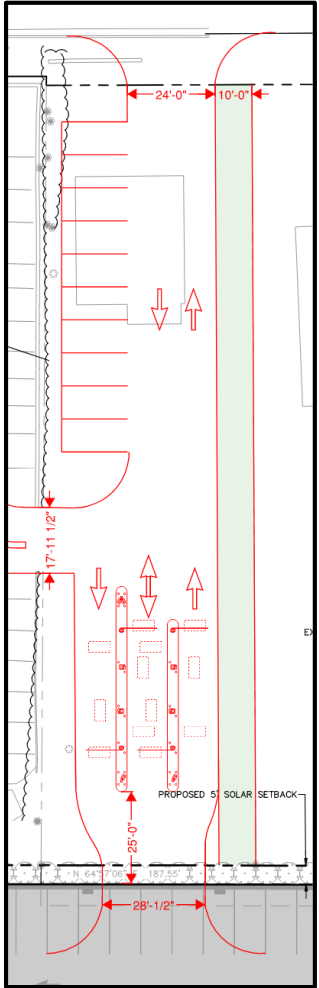
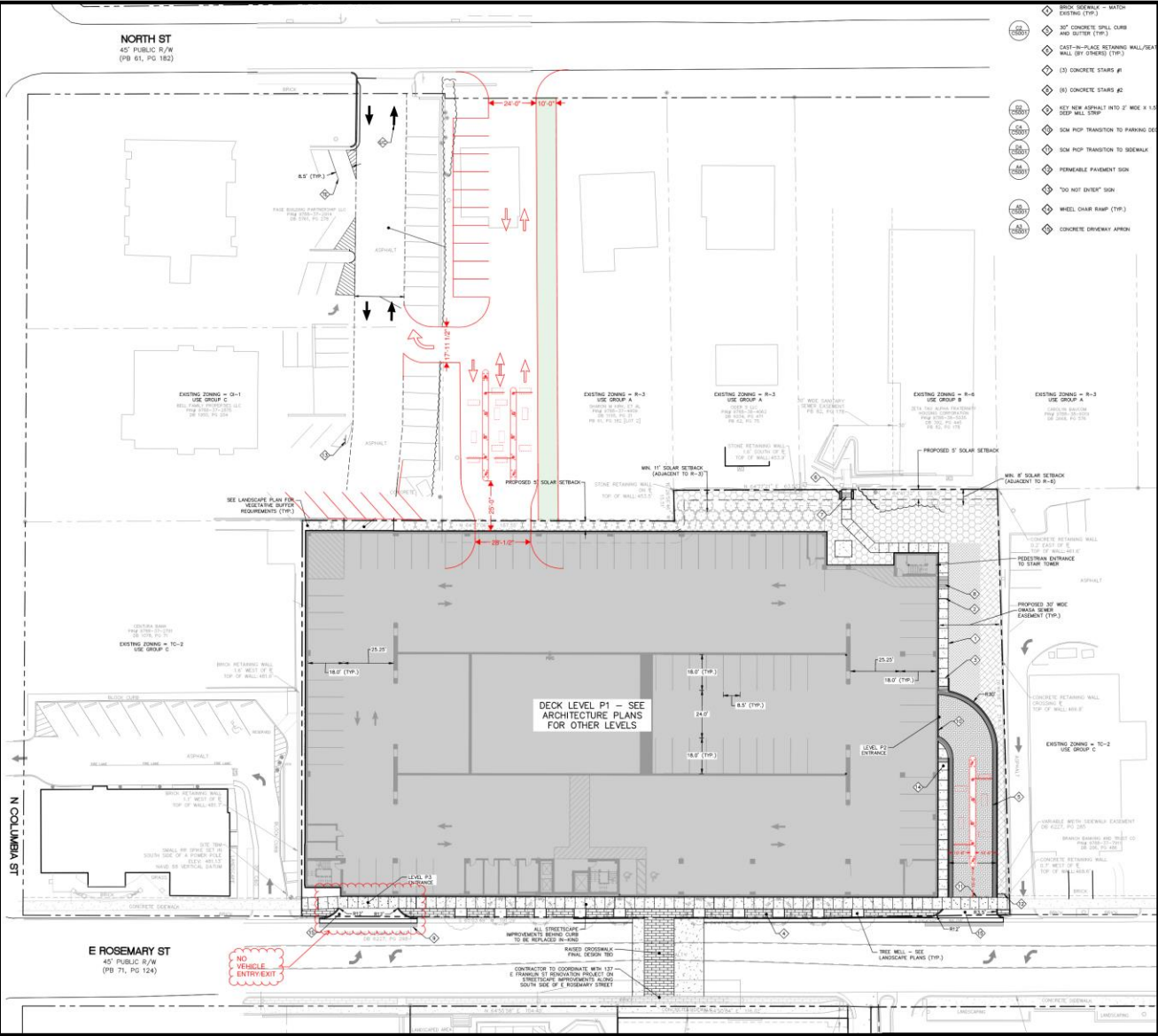




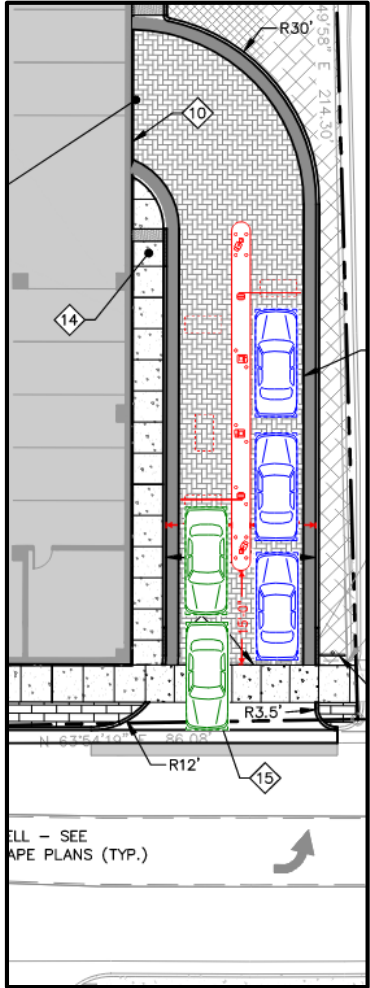
LANE RECOMMENDATION

- This recommendation comes from our oversight consultant, Walker Consulting to help improve efficiency in traffic operation, especially during peak periods of use.
- We would be removing the western East Rosemary entrance and making it bike and pedestrian only.
- The North Street entrance would also be three lanes with one being reversible.
- We believe that this would help improve conditions on East Rosemary for traffic coming from both directions.
- Provides more stacking as you enter the deck and removes cars from the Street.

SITE PLAN – PARCS EQUIPMENT: TWO LANES @ ROSEMARY

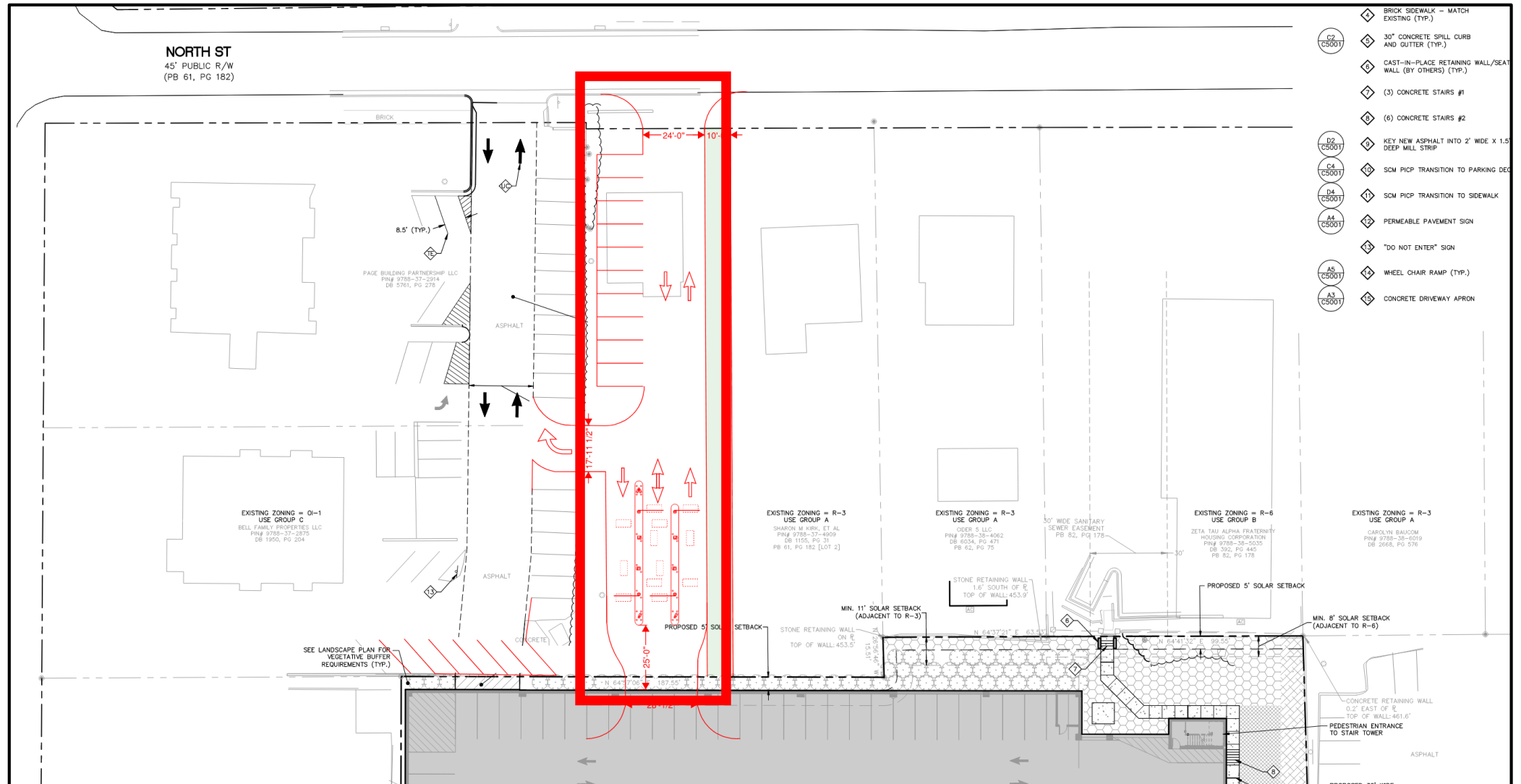


NORTH STREET

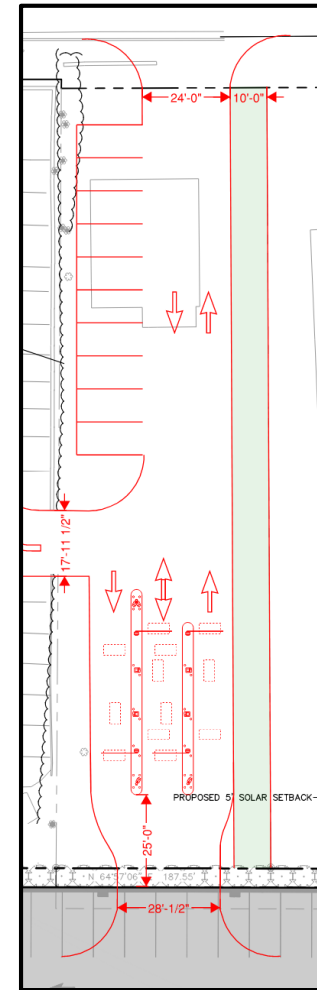
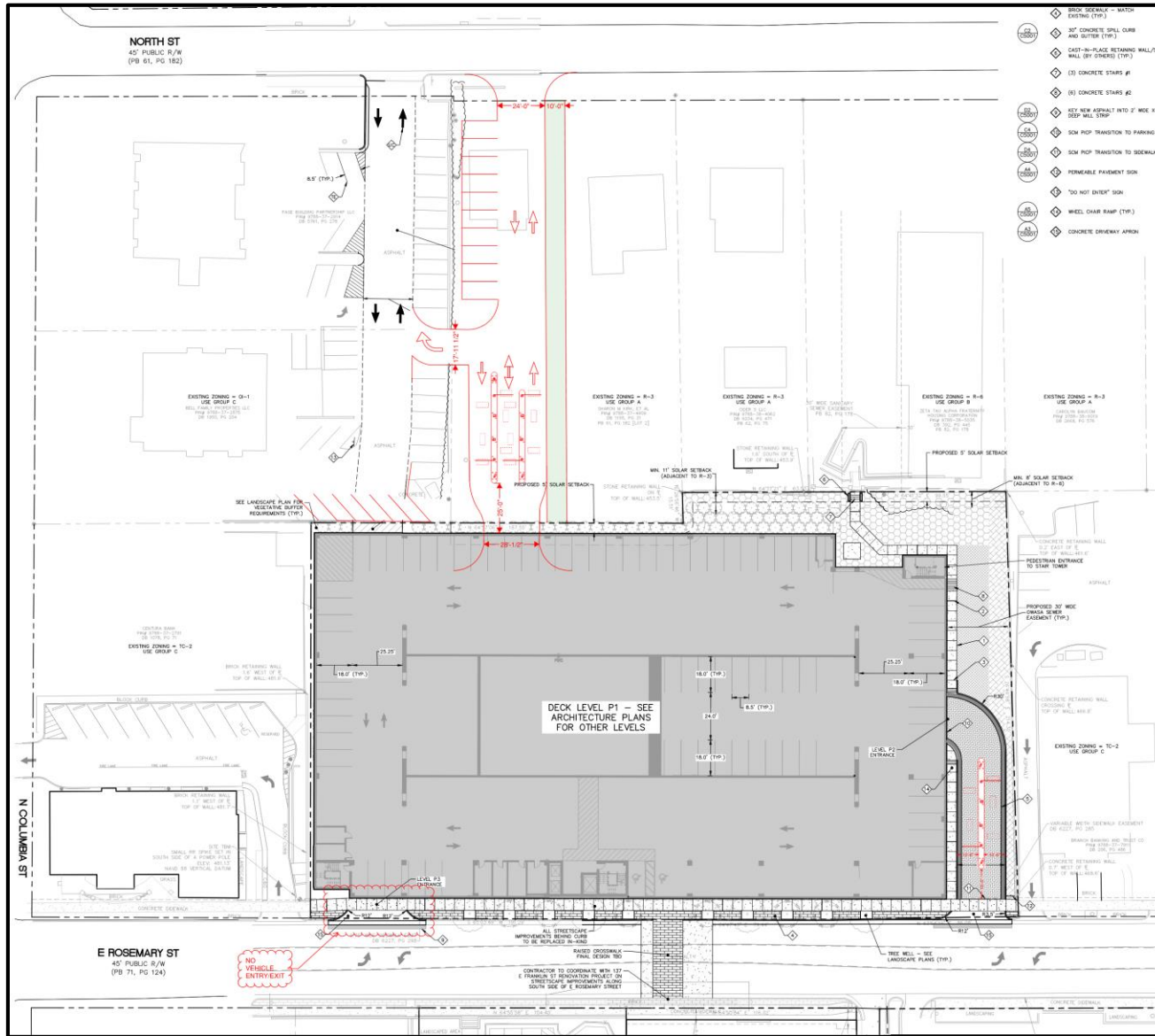


ROSEMARY STREET

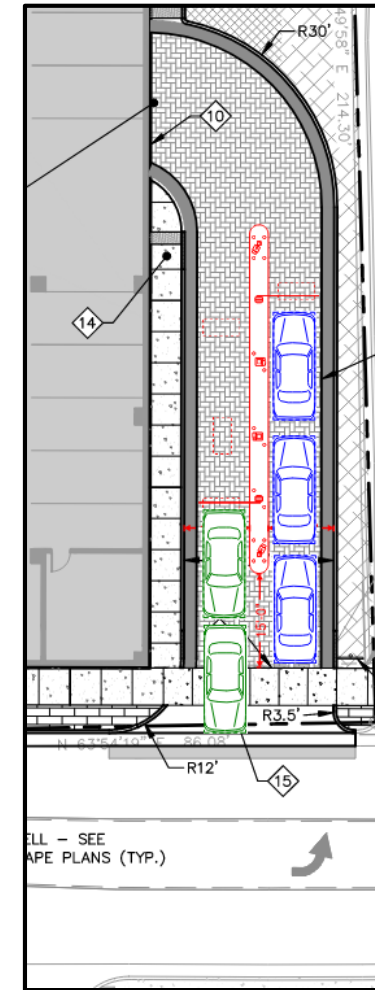
SITE PLAN – PARCS EQUIPMENT: NORTH STREET



SITE PLAN – PARCS EQUIPMENT: TWO LANES @ ROSEMARY

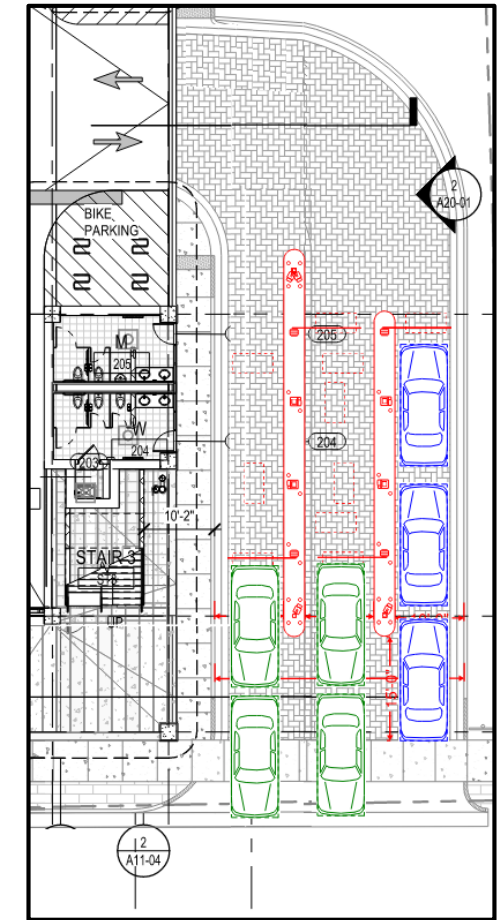
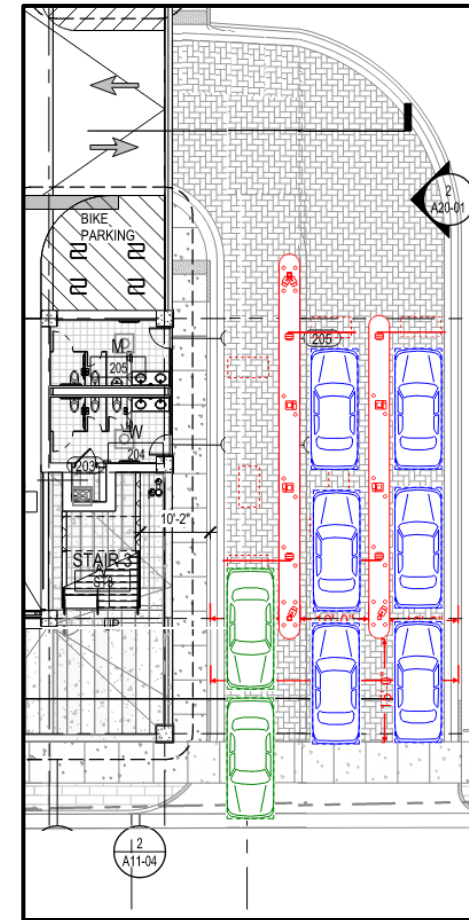
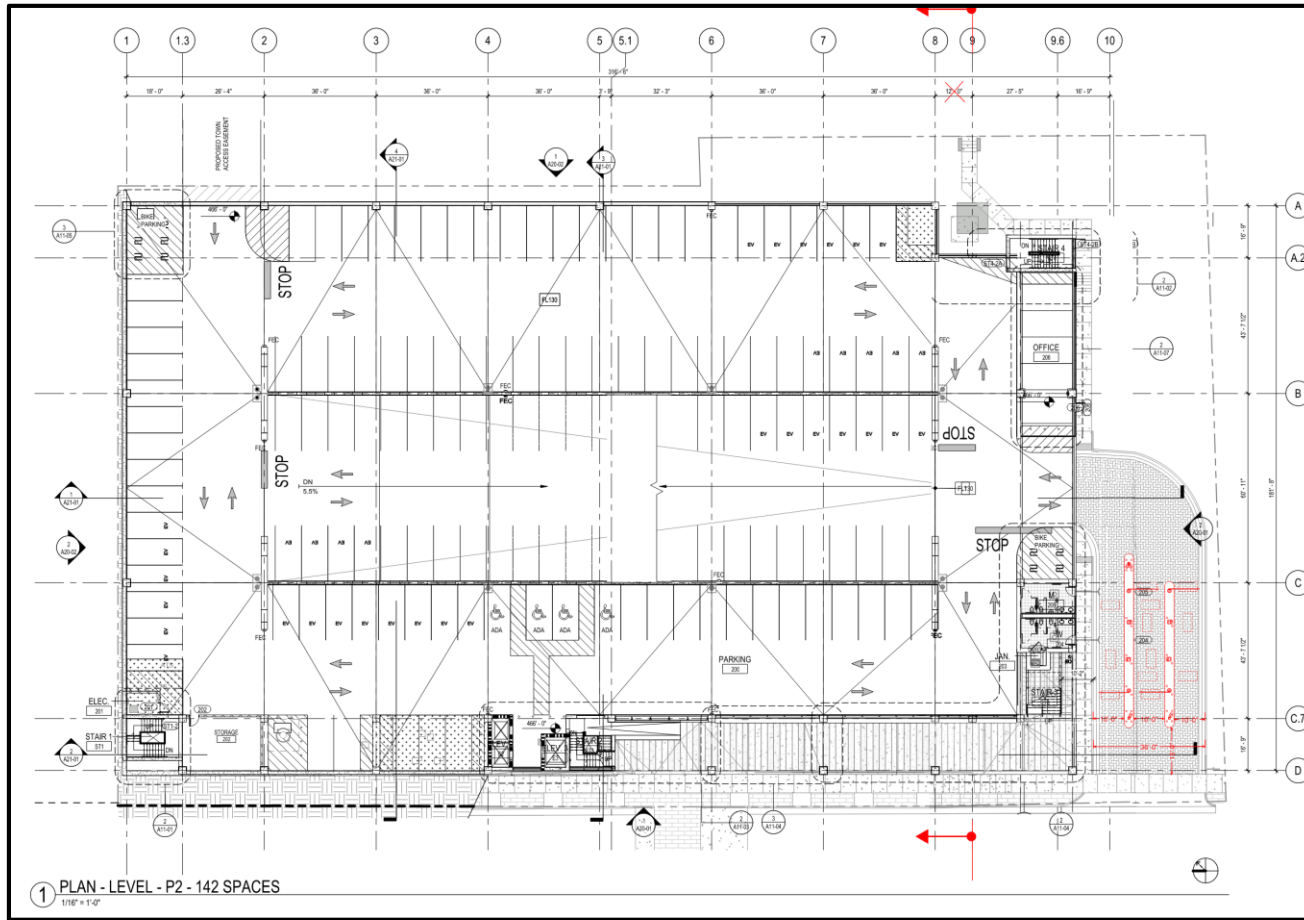


NORTH STREET



ROSEMARY STREET

SITE PLAN – PARCS EQUIPMENT: THREE LANES @ ROSEMARY

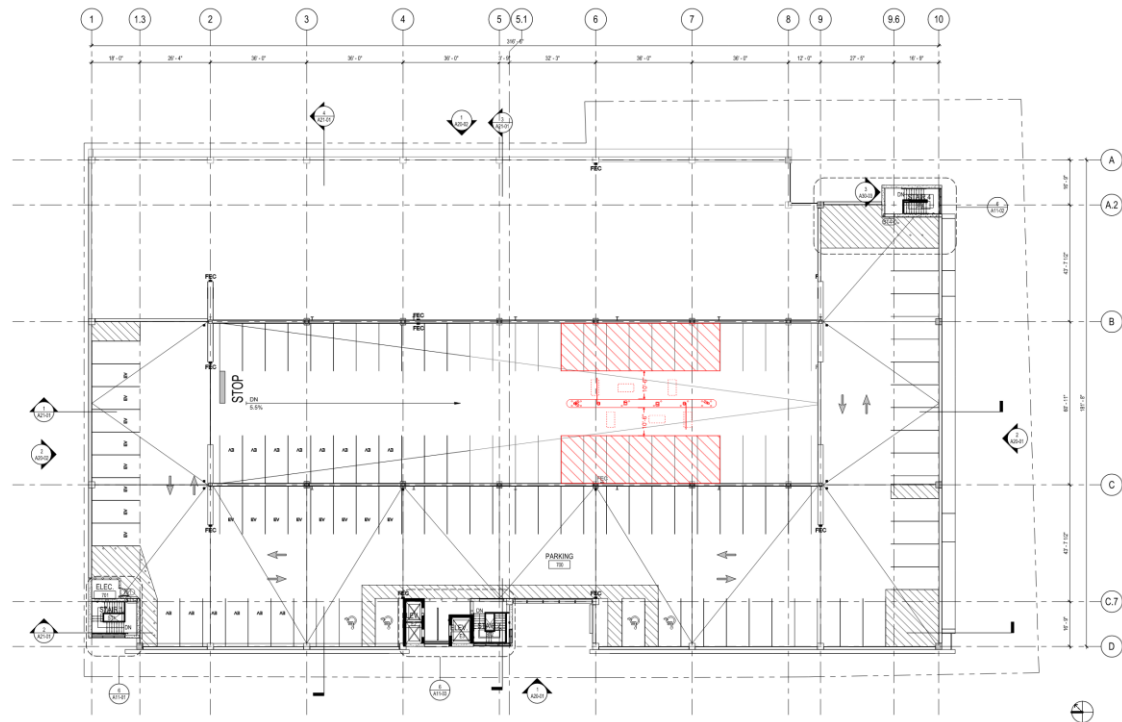


PARKING DECK SHORTENS 12 FT TO ACCOMMODATE THIRD LANE

ROSEMARY STREET
PEAK ENTRY

ROSEMARY STREET
PEAK EXIT

LEVEL P7 (ROOF LEVEL) - COMPARISON

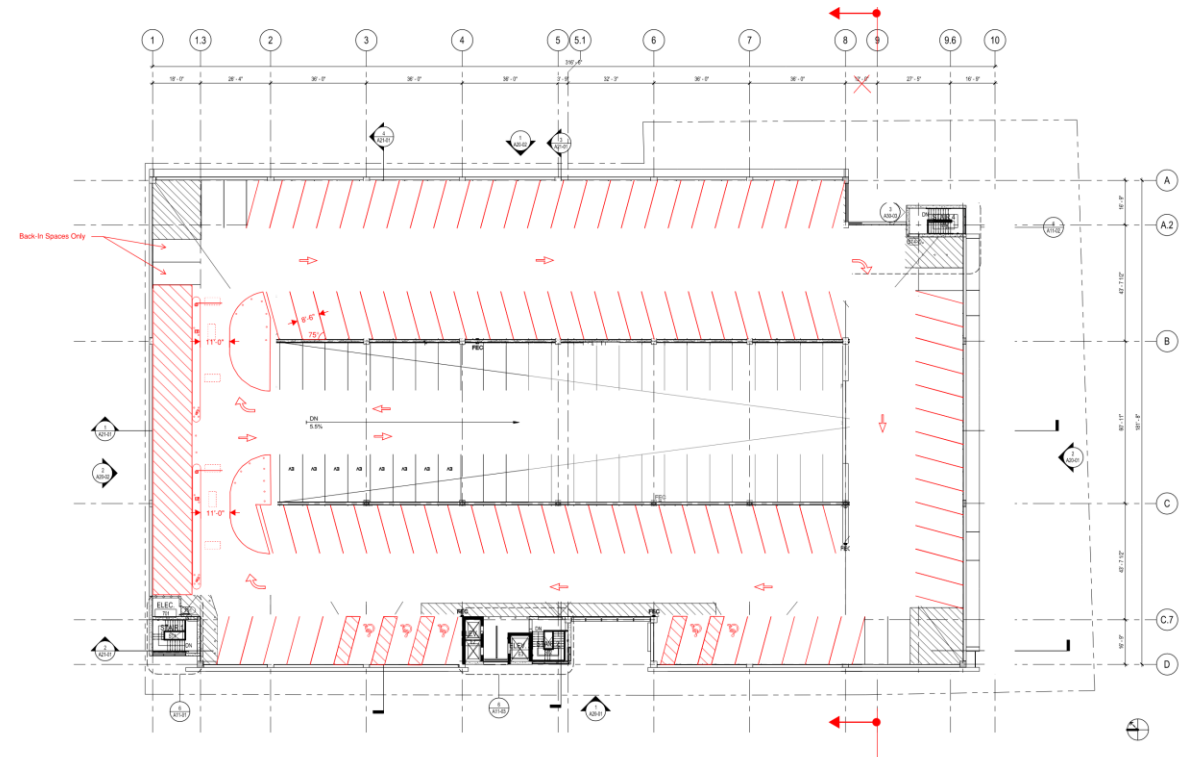


100 NESTED PARKING SPACES
(INCLUDES 4 ADA)

① LEVEL P7 - 120 SPACES
1/8" = 1'-0"

TWO LANES @ ROSEMARY

- 2 Bay roof level with dead end parking
- Parking Access equipment on ramp to roof level



108 NESTED PARKING SPACES
(INCLUDES 5 ADA)

① LEVEL P7 - 120 SPACES
1/8" = 1'-0"

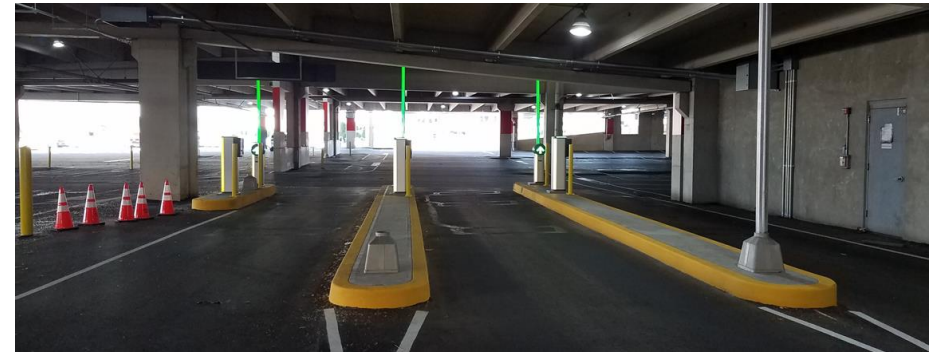
THREE LANES @ ROSEMARY

- 3 Bay roof level without dead end parking
- Parking Access equipment at top of ramp to roof level
- One-way traffic provides easier maneuverability in and out of spaces

ADVANTAGES & DISADVANTAGES:

ADVANTAGES - THREE LANES @ ROSEMARY

1. PEAK ENTRY TIMES - Provides additional queuing from Rosemary street allowing more vehicles to pull off the street without blocking traffic.
2. PEAK EXIT TIMES – Provides additional queuing and second exit lane so exiting traffic is not stopped for vehicle waiting to turn left onto Rosemary upon exit.
3. PROVIDES FLEXIBILITY
 - A. With a reversible lane the entry and exit capacity can be switched to account for peak times, events, or irregular traffic volume.
 - B. Lane can be closed for maintenance or equipment malfunction without impacting access to the parking deck.
4. ENTRANCE/EXIT VISIBILITY – With a shorter deck there is more space between the property line and the deck making the entrance and exit more visible from Rosemary Street.
5. ROOF LEVEL – No dead-end parking and increased maneuverability for parking.



DISADVANTAGES - THREE LANES @ ROSEMARY

1. Requires design changes to current plans for parking structure to reduce length and add third bay at roof level. (Estimated cost \$250,000)
2. Additional cost of PARCS equipment for the third lane.
3. Increase height of structure on North Elevation.

East Rosemary Parking Deck- update



The top floor of the deck would become a complete floor as compared to the partial floor in the picture.



**125 E Rosemary
Street Parking Deck**

Innovation Hub

Urban Park



Questions?



WALKER
CONSULTANTS

125 E. Rosemary Deck

Parking and Guidance
Technology Selection

March 10, 2021



Presentation Agenda



01

Project Overview/Timeline

03

RFP Process

02

PARCS and APGS Technology

04

**Recommendations /
Next Steps**

PROJECT GOALS



PROJECT TIMELINE

October 23

PARCS AND APGS TECHNOLOGY REPORT

Walker provides a comprehensive overview report of Parking Access and Revenue Control Systems (PARCS) and Automated Parking Guidance Systems (APGS) technologies as they exist in the market today.

November 12

PARCS AND APGS RECOMMENDATIONS

After review and discussions of the technologies report, Walker provides a recommendations report of the technologies best suited for 125 E. Rosemary Garage based on the anticipated requirements for successful operations.

December 4

COUNCIL COMMITTEE ON ECONOMIC SUSTAINABILITY

Walker Consultants presents the PARCS and APGS Technology overview and recommendations to Town Council Committee on Economic Sustainability. Committee provided final guidance.

January 8

PARCS AND APGS REQUEST FOR PROPOSAL

Request for Proposals ("RFP") is issued for PARCS and APGS

January 29

RFP DUE DATE

Proposals received from six (6) PARCS and three (3) APGS Vendors

March 10

COUNCIL PRESENTATION

HERE WE ARE TONIGHT PRESENTING SUGGESTED REQUESTS FOR THE PROJECT.

Presentation Agenda



01

Project Overview/Timeline

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RFP Process

02

PARCS and APGS Technology

04

Recommendations /
Next Steps

PARCS AND APGS TECHNOLOGIES



Dwight Bassett
October 23., 2020
Page 2



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walkerconsultants.com

TABLE OF CONTENTS

| | |
|--|-----------|
| PARCS PRODUCT OVERVIEW | 3 |
| ACCESS CONTROL SYSTEMS | 3 |
| <i>Proximity Card (Prox)</i> | 3 |
| <i>Automatic Vehicle Identification (AVI)</i> | 4 |
| <i>Bluetooth ® Technology</i> | 4 |
| REVENUE CONTROL SYSTEMS | 5 |
| <i>“Basic PARCS System”</i> | 5 |
| <i>Credit Card Exit Verifier</i> | 5 |
| <i>Pay-On-Foot Technology</i> | 5 |
| <i>PCI-P2PE “Terminal-Based” Credit Cards</i> | 6 |
| <i>Contactless Credit cards and Apple / Google / Samsung Pay</i> | 6 |
| <i>QR Barcode Readers</i> | 7 |
| <i>Pay By cell</i> | 7 |
| <i>Online Reservations</i> | 8 |
| LICENSE PLATE RECOGNITION (LPR) | 8 |
| APGS PRODUCT OVERVIEW | 9 |
| <i>Facility Status</i> | 10 |
| <i>Level Space Availability</i> | 10 |
| <i>Single Space Monitoring</i> | 11 |
| PARCS MANUFACTURERS | 12 |
| <i>Amano-McGann</i> | 12 |
| <i>Designa</i> | 13 |
| <i>Flash Parking</i> | 13 |
| <i>HUB Parking (Datapark and ZEAG)</i> | 13 |
| <i>T2 (Parking Soft)</i> | 13 |
| <i>Scheidt & Bachmann</i> | 13 |
| <i>SkiData</i> | 14 |

November 12, 2020

Dwight Bassett
Town of Chapel Hill
405 Martin Luther King Jr. Blvd.
Chapel Hill, NC 27514

Re: *Parking Access and Revenue Control Systems
Recommended Technologies for 125 E. Rosemary Street Parking Deck*

Dear Mr. Bassett:

Walker provided an overview of parking access and revenue control systems (PARCS) technologies that are available for the Town of Chapel Hill’s review and consideration for the new 125 E. Rosemary Street parking deck on October 23, 2020. The report also addressed automated parking guidance systems (APGS), or “electronic wayfinding”, for the Town’s consideration.

A review meeting was conducted via Zoom ® on November 4, 2020 at 10 am EST. Many of the technologies from that report were discussed between the Town of Chapel Hill and Walker Consulting. The report addressed technologies as they are utilized in a traditional gated PARCS; however, the Town was also interested in a “gateless” system. The meeting addressed both gated and gateless concepts, electronic payments, credit card systems, license plate recognition (LPR), on-line reservations, APGS, and Electric Vehicle Charging Stations. Another topic of discussion was the requirement to provide 100 spaces at the top of the garage to the University of North Carolina.

As a result of this meeting, the Town of Chapel Hill has asked Walker to discuss the options for technology as they will apply “specifically” to the E. Rosemary parking deck and to provide a recommended methodology of

PARCS TECHNOLOGIES

- ACCESS CONTROL SYSTEMS
 - **PROXIMITY CARD (PROX)**
 - AUTOMATIC VEHICLE IDENTIFICATION (AVI)
 - BLUETOOTH® TECHNOLOGY
 - **LICENSE PLATE RECOGNITION (LPR)**

- REVENUE CONTROL SYSTEMS
 - TRADITIONAL CASHIERING
 - **INTEGRATED CREDIT CARDS**
 - **PAY-ON-FOOT (POF) TECHNOLOGY**
 - **CREDIT CARD EXIT VERIFIER**
 - CREDIT CARD IN/OUT
 - **APPLE / GOOGLE PAY**
 - **QR BARCODE READER**
 - **PAY BY MOBILE DEVICE (PARKMOBILE)**
 - **RESERVATIONS (PARKMOBILE)**
 - FREQUENT PARKER PROGRAMS
- VALIDATION SYSTEMS
 - **OFFLINE VALIDATIONS**
 - CHASER TICKETS
 - ONLINE VALIDATIONS



APGS TECHNOLOGIES



WHERE IS MY CAR? I KNOW IT IS BLUE...

- FACILITY COUNTS
 - INTEGRAL TO PARKING ACCESS AND REVENUE CONTROL SYSTEM
 - TRACKS TOTAL OF MONTHLY CUSTOMERS AND DAILY CUSTOMERS
 - “RESERVES” AVAILABILITY FOR MONTHLY CUSTOMERS
 - “FULL STATUS” DISPLAYED AT ENTRY PREVENTS DAILY TRAFFIC

- LEVEL OR ZONE COUNTS
 - PROVIDES THE FACILITY COUNTS, BUT ONLY BY TOTAL SPACES
 - TRACKS SPACES BY LEVEL OR ZONE WITHIN THE GARAGE
 - PROVIDES QUICK ACCESS TO PARKING SPACES PER LEVEL
 - REQUIRES DAILY COUNTING AND/OR RESETTING
- **SINGLE-SPACE GUIDANCE**
 - PROVIDES THE SAME LEVEL OF SERVICES AS ABOVE, PLUS:
 - PROVIDES EXACT DIRECTION TO AVAILABLE PARKING
 - REDUCES TIME SPENT HUNTING FOR SPACES – REDUCING CARBON EMISSIONS
 - INCREASED OCCUPANCY USAGE CAN BE CORRELATED TO RETURN ON INVESTMENT
 - **CAMERA-BASED SINGLE-SPACE SYSTEMS PROVIDE PARKED CAR LOCATOR KIOSKS VIA LICENSE PLATE TECHNOLOGY**
 - REDUCES STRESS AND PROVIDES A BETTER EXPERIENCE TO CUSTOMERS
 - ALLOWS FOR THE BEST LEVEL OF OCCUPANCY TRACKING AND DATA ANALYTICS CAPABILITIES

PARCS DESCRIPTION:

CONTRACT CUSTOMER (MONTHLY, EMPLOYEE, ETC.)

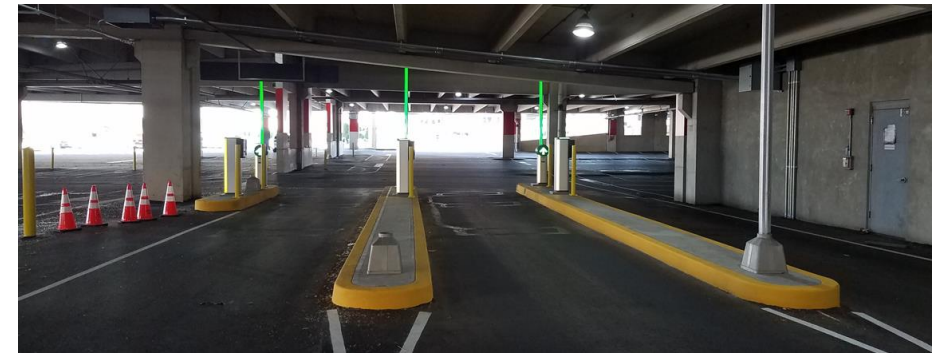
1. APPROACH ENTRY LANE: LPR READS PLATE AND OPENS GATE.
2. IF LPR FAILS (PLATE OBSTRUCTED) CUSTOMER SCANS PROXIMITY CARD TO ENTER.
3. APPROACH EXIT LANES: REPEAT PROCESS FOR ENTRY TO EXIT.

“TRANSIENT” CUSTOMER:

1. APPROACH ENTRY LANE: WAVE HAND FOR TICKET, LPR SCANS PLATE
 - 1) RECEIVE A VALIDATION FROM DESTINATION (IF APPLICABLE)
 - 2) PAY FOR PARKING AT PAY-ON-FOOT KIOSK – LOCATED IN ELEVATOR LOBBY
1. APPROACH EXIT LANE: LPR SCANS PLATE – IF PAID/VALIDATED GATE OPENS.
2. IF NOT PAID, PARCS DISPLAYS FEE DUE PER LPR ENTRY DATA.
3. IF LPR FAILS (PLATE OBSTRUCTED) CUSTOMER INSERTS TICKET AND FEE IS DISPLAYED.
4. PAYMENT IS MADE VIA CREDIT CARD OR PARKMOBILE APPLICATION.

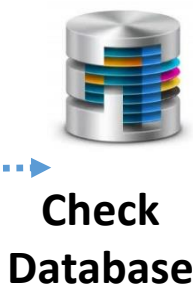
PRE-REGISTERED CUSTOMER:

1. RESERVE PARKING ON PARKMOBILE APPLICATION – ENTER LICENSE PLATE AND/OR RECEIVE A QR BARCODE ON PHONE OR EMAIL – CAN BE PRINTED.
2. APPROACH ENTRY LANE: LPR READS PLATE AND OPENS GATE – IF NOT, SCAN QR/BARCODE (MOBILE OR PRINTED).
3. APPROACH EXIT LANE: REPEAT ENTRY LANE PROCESS.



TRANSACTION FLOW

Read Plate,
“Wave for
Ticket” or scan
QR on Entry



Registered
User

Raise Gate



Plate Read at Exit
Activate Gate



Not
Registered
LPR –
take ticket



Pay at kiosk
or Validated



Plate Read at Exit –
Activate Gate if paid
Or
Pay in Lane

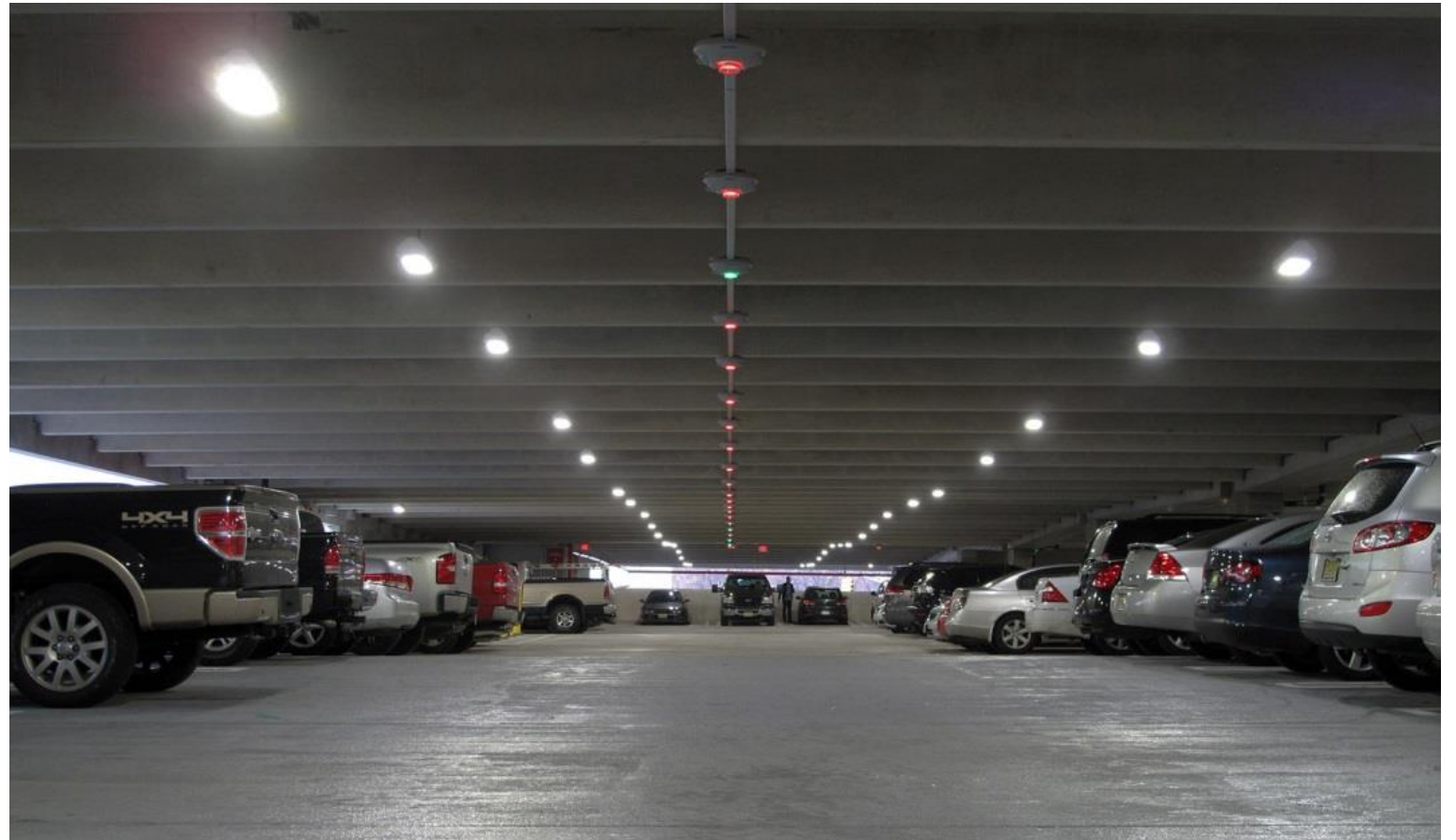


APGS DESCRIPTION:

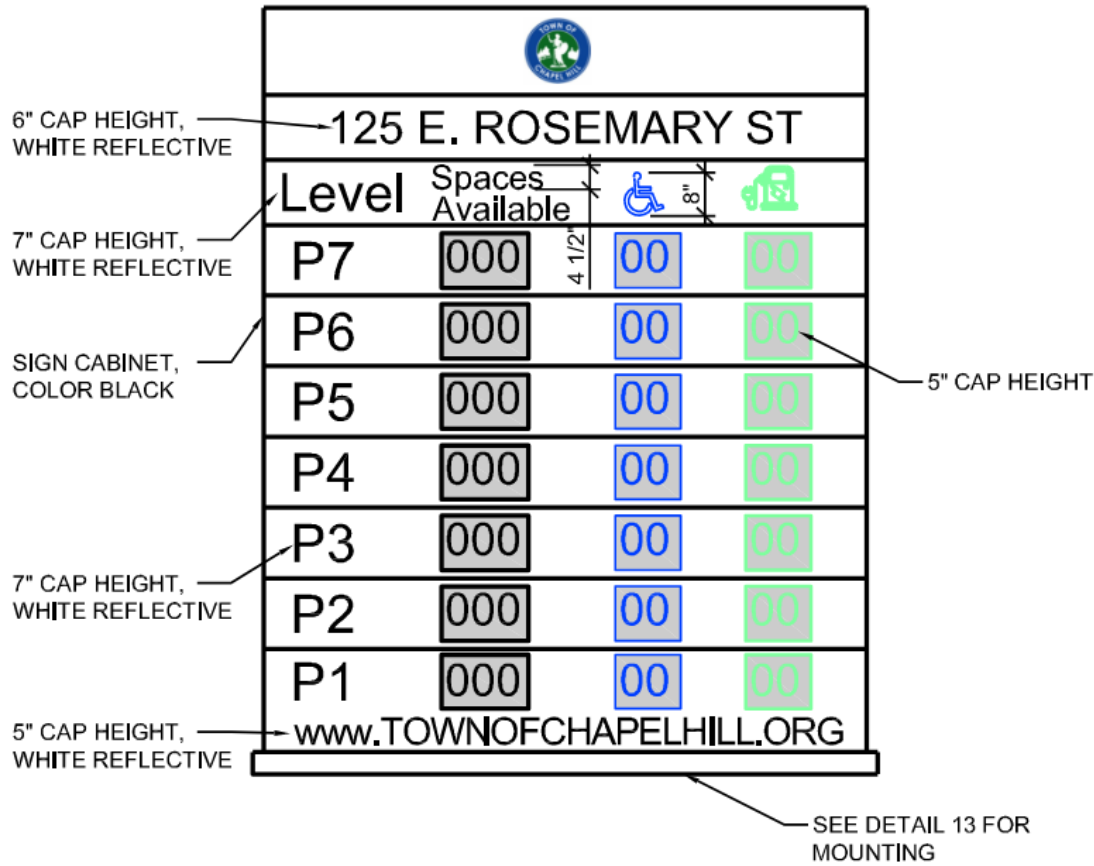
1. Parking customer approaches the entry lane and receives a ticket.
2. As they enter the parking facility, they'll see a sign showing parking spaces on all levels of the facility.
3. As they approach decision points (turns), they'll see signs showing available spaces in each turning direction.
4. As they drive down the isle, they'll see lights over the parking spaces indicating if they are available or occupied.



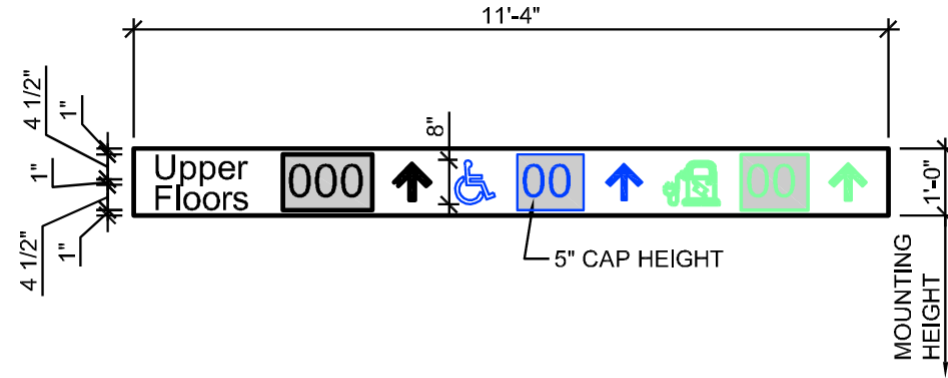
CAMERA-BASED APGS (LICENSE PLATE RECOGNITION)



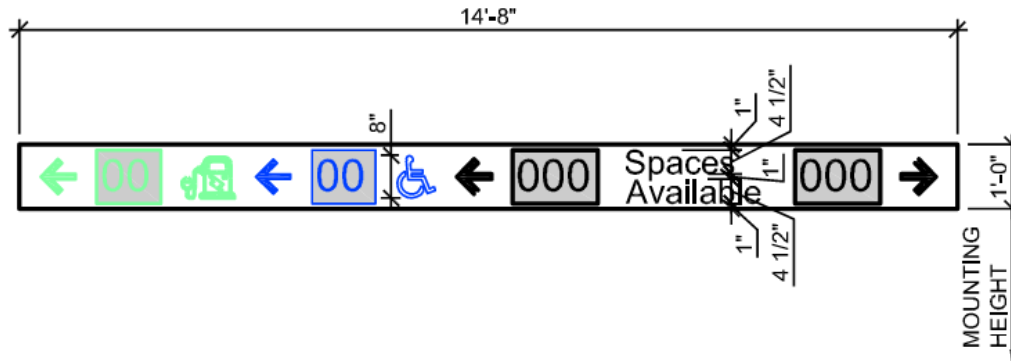
PARKING AVAILABILITY DISPLAYS



11 SIGN RDW-1 DETAIL

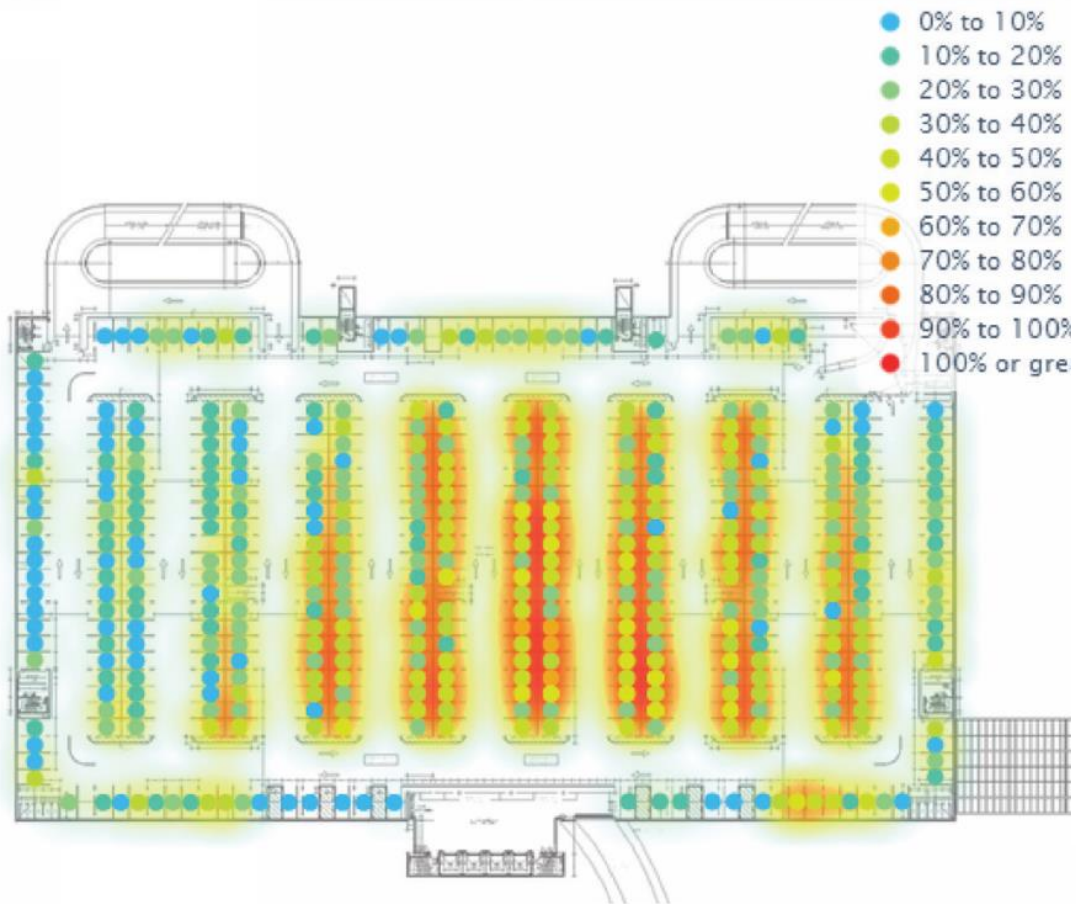


10 SIGN UF-3 DETAIL

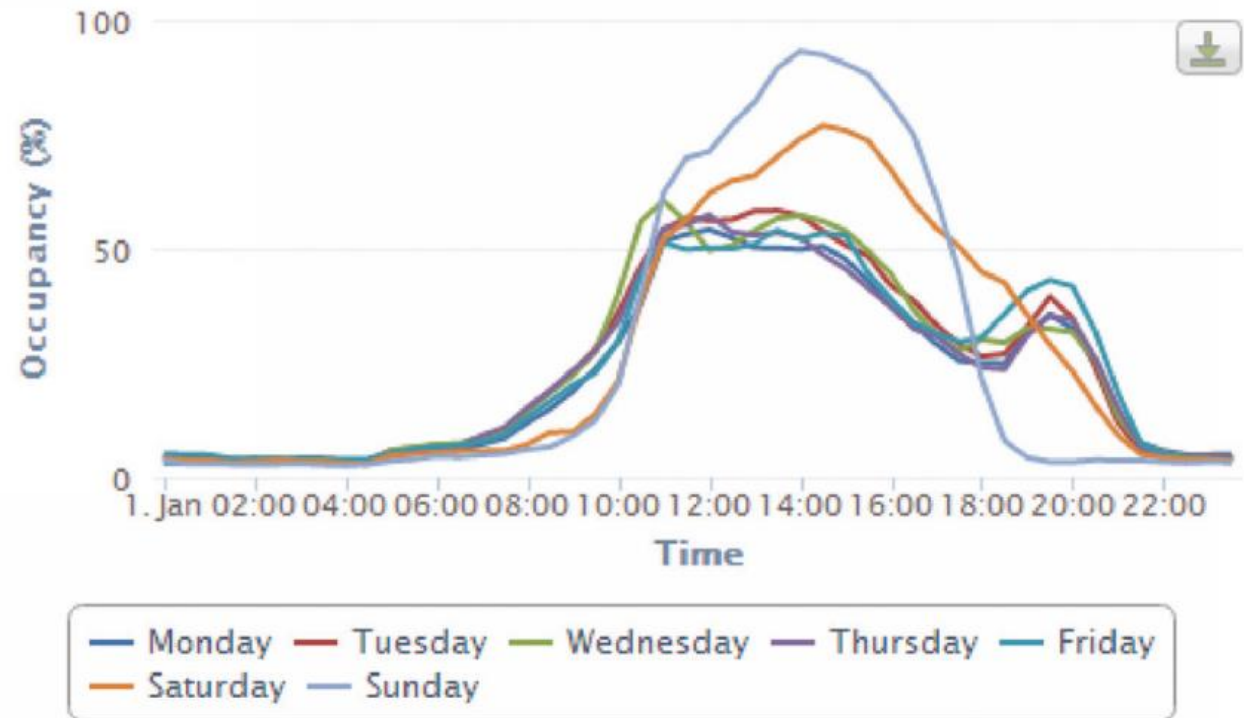


7 SIGN SA-7 DETAIL

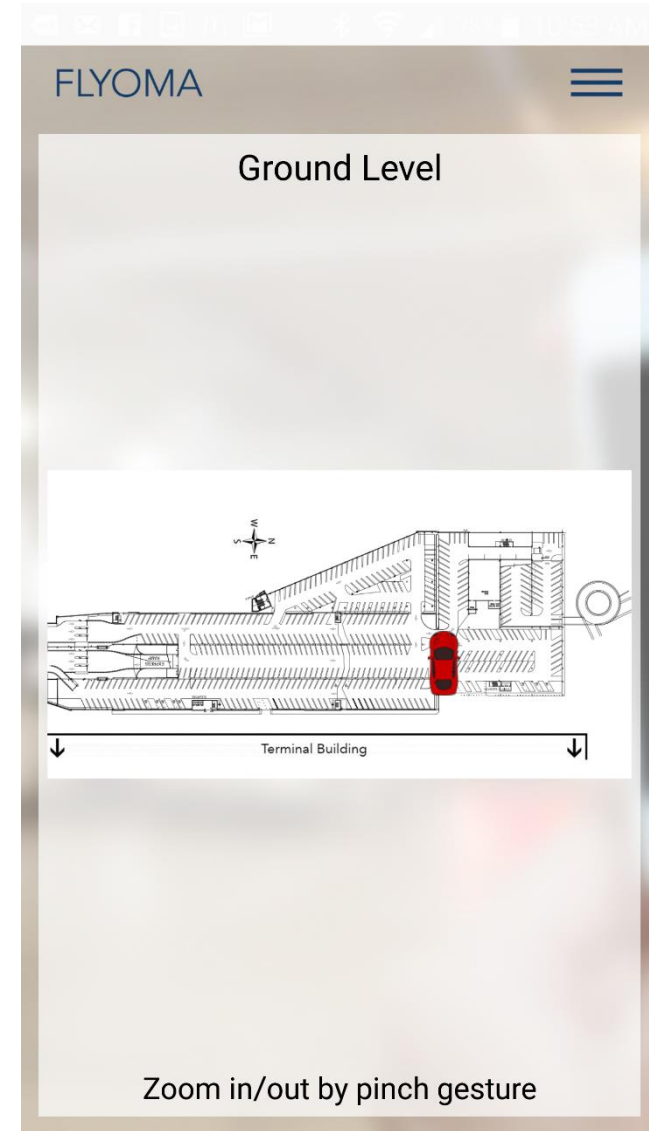
ADDITIONAL APGS BENEFITS



The occupancy, day by day.



CUSTOMER AMENITY: FIND YOUR CAR



Presentation Agenda



01

Project Overview/Timeline

03

RFP Process

02

PARCS and APGS Technology

04

Recommendations /
Next Steps

REQUEST FOR PROPOSALS (“RFP”) PROCESS

1. Technology – What do you want?
2. Technical Specifications.
3. Supplemental Documents.
4. Pre-Proposal Meeting.
5. Questions/Answers Period.
6. RFP Due Date.
7. Evaluation Summary and Bid-Leveling.

| JANUARY 2021 | | | | | | |
|---------------------|------------|------------|------------|------------|------------|------------|
| SUN | MON | TUE | WED | THU | FRI | SAT |
| 27 | 28 | 29 | 30 | 31 | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | | | | | | |

Freecalendarhub.com

TECHNICAL SPECIFICATIONS – SEPARATE FOR PARCS AND APGS

125 E. Rosemary PARCS
Project # 19-1227.00

Procurement Documents
January 2021

125 E. Rosemary APGS
Project # 19-001227.20

Procurement Documents
January 2021

SECTION 111233

PARKING ACCESS AND REVENUE CONTROL SYSTEM (PARCS)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Conceptual Design Drawings ("Drawings")
- B. Division 01 Specifications Sections
- C. Division 10 Section "Signage"
- D. Division 11 Section "Automated Parking Guidance System ("APGS")"
- E. Division 26 Section "Common Work Results for Electrical"

1.2 DEFINITIONS

A. List of abbreviations:

- | | | |
|-----|-------|--|
| 1. | ADA | Americans with Disabilities Act |
| 2. | ANSI | American National Standards Institute |
| 3. | APGS | Automated Parking Guidance System |
| 4. | API | Application Programming Interface |
| 5. | EMV | Europay, MasterCard, and Visa |
| 6. | ENS | Entry Station |
| 7. | EXS | Exit Station |
| 8. | FACTA | Fair and Accurate Credit Transactions Act |
| 9. | GPR | Ground Penetrating Radar |
| 10. | GUI | Graphical User Interface |
| 11. | HDPE | High Density Polyethylene |
| 12. | IRW | Image Review Workstation |
| 13. | ISO | International Organization for Standardization |
| 14. | LAT | Lane Acceptance Test |
| 15. | LED | Light Emitting Diode |
| 16. | LPN | License Plate Number |
| 17. | LPR | License Plate Recognition |
| 18. | NEMA | National Electrical Manufacturers Association |
| 19. | NEC | National Electrical Code |
| 20. | NFC | Near Field Communication |
| 21. | ODBC | Open Database Connectivity |
| 22. | ODT | Operational Demonstration Test |

SECTION 111240

AUTOMATED PARKING GUIDANCE SYSTEM (APGS)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Conceptual Design Drawings ("Drawings")
- B. Division 01 Specifications Sections
- C. Division 10 section "Signage".
- D. Division 11 section "Parking Access and Revenue Control System ("PARCS")".
- E. Division 26 section "Common Work Results for Electrical".

1.2 DEFINITIONS

A. List of abbreviations:

- | | | |
|-----|-------|---|
| 1. | ADA | Americans with Disabilities Act |
| 2. | ANSI | American National Standards Institute |
| 3. | APGS | Automated Parking Guidance System |
| 4. | API | Application Programming Interface |
| 5. | BI | Business Intelligence |
| 6. | CSA | Canadian Standards Association |
| 7. | DAT | Device Acceptance Test |
| 8. | EV | Electric Vehicle |
| 9. | GUI | Graphical User Interface |
| 10. | IP | Intrusion Protection |
| 11. | ISO | International Organization for Standardization |
| 12. | IDF | Intermediate Distribution Frame |
| 13. | LED | Light Emitting Diode |
| 14. | LPR | License Plate Recognition |
| 15. | MUTCD | Manual on Uniform Traffic Control Devices, Latest Edition |
| 16. | NEMA | National Electrical Manufacturers Association |
| 17. | NEC | National Electric Code |
| 18. | NTP | Notice to Proceed |
| 19. | ODBC | Open Database Connectivity |
| 20. | ODT | Operational Demonstration Test |
| 21. | PARCS | Parking Access and Revenue Control System |
| 22. | POLP | Principle of Least Privilege |

SUPPLEMENTAL DOCUMENTS – BID FORM, INSTRUCTIONS, ETC.

125 E. Rosemary APGS
Project # 19-001227.20

Procurement Documents
January 2021

125 E. Rosemary St. APGS
Chapel Hill, North Carolina



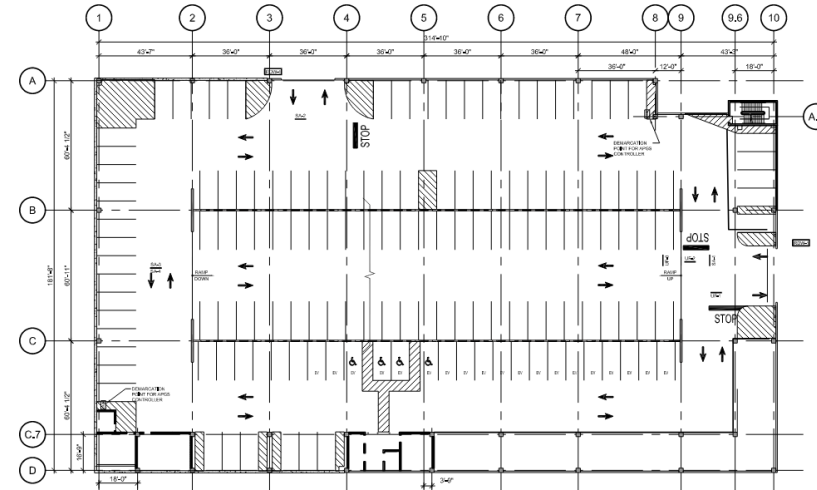
SECTION 001116

APGS INSTRUCTIONS TO PROPOSER

1. PROJECT IDENTIFICATION AND DEFINITIONS

- A. Project is a new-build parking structure with a single helix "center ramp" design located at 125 E. Rosemary in Chapel Hill, NC.
- B. Owner requests the structure to be equipped with a Camera-Based LPR-capable Single Space Automated Parking Guidance System (APGS) covering approximately 1,050 spaces on the six covered levels. Only Camera-Based Single Space APGS may be proposed.
- C. Approximately 100 spaces are located on the seventh "roof" level which will be counted as a separate, single zone without using camera-based single space counting. Count data for the roof level will be provided by loops/gates which are part of PARCS equipment.
- D. The new APGS is to be integrated with the garage's PARCS system (provided by others) in two ways: (i) The APGS is to be capable of feeding car location information based on LPR to the PARCS system so that the PARCS Pay-on-Foot (POF) machines can display images and garage maps on the POF screen to assist the parker with locating their car. (ii) The APGS is to be capable of receiving car count data from PARCS lane/gate equipment on the ramp from Level 6 to Level 7, and processing and displaying this data on appropriate APGS signs.
- E. Owner intends to have general contractor of the project contract with a professional APGS contractor (Contractor) to design, furnish, install, and service the system at the Facility as described in the Specification and Drawings accompanying these Instructions to Proposers.
- F. Owner is:

Town of Chapel Hill
405 Martin Luther King Jr. Blvd.
Chapel Hill, NC 27514
- G. Owner's Consultant is:



GENERAL FLOOR PLAN NOTES

1. ALL DIMENSIONS ARE APPROXIMATE TO 1/8" TOLERANCE.
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
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8. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
9. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

FLOOR FINISHES

1. FLOOR FINISHES ARE AS SHOWN ON THE DRAWINGS.

2. FLOOR FINISHES ARE AS SHOWN ON THE DRAWINGS.

3. FLOOR FINISHES ARE AS SHOWN ON THE DRAWINGS.

4. FLOOR FINISHES ARE AS SHOWN ON THE DRAWINGS.

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8. FLOOR FINISHES ARE AS SHOWN ON THE DRAWINGS.

9. FLOOR FINISHES ARE AS SHOWN ON THE DRAWINGS.

10. FLOOR FINISHES ARE AS SHOWN ON THE DRAWINGS.

LEVEL P2

Schematic Design Drawing Set - Not for Construction
January 8, 2021

AS10-02



| Section 111233 - Appendix A - Proposal Price Tabulation Form | | | |
|--|---------------------|------------------|--|
| 125 E. ROSEMARY STREET - PARCS PRICING DOCUMENTS | | | |
| TOTAL | Written in Numerals | Written in Words | |
| Base Price | | | |
| 1-Year Cost | | | |
| Add Spares | | | |
| 1-Year TOTAL | | | |
| 1-Year TOTAL with Alternate | | | |
| Recurring Fee | | | |
| PM & Service | | | |
| Warranty | | | |
| 8-Year TOTAL | | | |
| 8-Year TOTAL with Alternate | | | |
| Company: | | Date: | |
| Name: | | Signature: | |

| UNIT PRICING | | | | |
|--------------|-------------------------|----------|------------|-------------|
| ITEM # | DESCRIPTION | QUANTITY | UNIT PRICE | TOTAL PRICE |
| 1 | Entry: Ticket Dispenser | 3 | \$0.00 | \$0.00 |

PROPOSAL SUMMARY, EVALUATION, AND BID LEVELING



MEMORANDUM

125 E. ROSEMARY PARCS RFP ANALYSIS

PROJECT # 19-001227.00

DATE: February 8, 2021
 TO: Dwight Bassett
 COMPANY: Town of Chapel Hill
 ADDRESS: 405 Martin Luther King Jr. Blvd
 CITY/STATE: Chapel Hill, NC 28514
 COPY TO: Russ Randall, Joey Rowland
 FROM: Posluszny, Geoffrey
 PROJECT NAME: Chapel Hill Parking Consulting
 PROJECT NUMBER: 19-001227.00

13860 BALLANTYNE CORPORATE PL,
 SUITE 140
 CHARLOTTE NC 28277
 704.247.6230
 WALKERCONSULTANTS.COM

Walker Consultants on behalf of the Town of Chapel Hill ("Town"), issued a Request for Proposal ("RFP") for a new Parking Access and Revenue Control System ("PARCS") for the 125 E. Rosemary St Parking Facility. The RFP was issued January 8, 2021 and was advertised via email solicitation to likely qualified vendors by Walker Consultants. A "virtual pre-proposal meeting" was held on Tuesday, January 12th, and vendors were provided the opportunity to ask questions by January 14th. An addendum was issued on January 16th providing updated information and answers to submitted questions. Following is an overview of the respondent proposals which were received as of Friday, January 29th, 2021.

EXECUTIVE SUMMARY

Six (6) PARCS vendors were responsive and respondent though the RFP process and provided proposals for the new PARCS. They were (alphabetically) Amano McGann, Carolina Time (TIBA Product Line), Designa/Southern Time, HUB Parking, Parkonect, and Skidata.

Pricing was requested for an initial one-year cost including warranty, service, preventive maintenance, and recurring expenses. Extended pricing for these services was also requested for an additional seven (7) years to provide the Town with an eight (8) year total estimated cost of ownership. Pricing was separated out as a "base system" with License Plate Recognition ("LPR") and Pay-on-Foot ("POF") technologies, integration with ParkMobile, and integration with an Automated Parking Guidance System (APGS). The design for the 125 E. Rosemary Parking Facility has yet to be finalized and an additional "Reversible" lane was included in the RFP as an "Add Alternate". A separate RFP process for the APGS ran simultaneously and is summarized in a separate memorandum.

Certain features were requested in the RFP specification document. These are listed in the table below ascertained to the best of our ability from the proposals submitted.

125 E. ROSEMARY ST PARCS RFP PRICE COMPARISON Submitted January 29, 2021

| OFFEROR: | Amano McGann | Designa Southern Time | HUB | Parkonect | Skidata | TIBA / Carolina Time |
|--------------------------------------|---------------------|-----------------------|---------------------|---------------------|---------------------|----------------------|
| BASE PRICE | \$386,977.80 | \$348,830.00 | \$359,217.85 | \$384,635.00 | \$399,644.29 | \$374,789.07 |
| Other Costs | \$0.00 | \$0.00 | \$0.00 | \$10,840.00 | | |
| 1 YEAR COST BASE | \$386,977.80 | \$348,830.00 | \$359,217.85 | \$395,475.00 | \$399,644.29 | \$374,789.07 |
| Recurring FEES (Years 2-8) | \$0.00 | \$0.00 | \$17,500.00 | \$59,422.43 | \$42,896.00 | \$83,349.12 |
| PM & SERVICE (Years 2-8) | \$126,180.00 | \$90,000.00 | \$217,000.00 | \$48,852.05 | \$109,754.23 | \$92,664.00 |
| PARTS WARRANTY (Years 2-8) | \$0.00 | \$168,750.00 | \$0.00 | \$32,568.03 | \$81,888.04 | \$126,000.00 |
| 8 YEAR COST BASE | \$513,157.80 | \$607,580.00 | \$593,717.85 | \$536,317.51 | \$634,182.56 | \$676,802.19 |
| ADD Reversing Lane | \$81,973.40 | \$52,161.00 | \$54,713.31 | \$70,245.00 | \$43,981.11 | \$58,427.00 |
| 1 YEAR COST w/ Reversing Lane | \$468,951.20 | \$400,991.00 | \$413,931.16 | \$465,720.00 | \$443,625.40 | \$433,216.07 |
| PM & SERVICE (Years 2-8) | \$10,566.00 | \$13,554.00 | \$34,300.00 | \$9,770.41 | \$13,787.00 | \$0.00 |
| PARTS WARRANTY (Years 2-8) | \$0.00 | \$21,905.00 | \$0.00 | \$3,256.80 | \$8,188.80 | \$20,520.00 |
| 8 YEAR COST w/ Reversing Lane | \$605,697.20 | \$695,200.00 | \$682,731.16 | \$619,589.73 | \$700,139.47 | \$755,749.19 |
| OPTIONAL SPARE PARTS | \$0.00 | \$6,857.00 | \$32,186.00 | \$1,650.00 | \$97.30 | \$15,465.00 |

Source: Walker: data from 125 E. Rosemary PARCS RFP Vendor Responses

| RANKING | | | | | | |
|--------------------------------------|-------|---------|-----|-----------|---------|----------|
| Offeror | Amano | Designa | HUB | Parkonect | Skidata | TIBA/CTE |
| 1 YEAR COST BASE | 4 | 1 | 2 | 5 | 6 | 3 |
| 8 YEAR COST BASE | 1 | 4 | 3 | 2 | 5 | 6 |
| 1 YEAR COST w/ Reversing Lane | 6 | 1 | 2 | 5 | 4 | 3 |
| 8 YEAR COST w/ Reversing Lane | 1 | 4 | 3 | 2 | 5 | 6 |

| FEATURES: | | | | | | |
|----------------------|--------|---------|-----|-----------|---------|----------|
| Offeror | Amano | Designa | HUB | Parkonect | Skidata | TIBA/CTE |
| On-Prem Server | Yes | Yes | Yes | | Yes | |
| Cloud-Based Software | | | | Yes | | Yes |
| Coin Acceptance | Yes | Yes | Yes | No | Yes | Yes |
| Integrate with APGS? | | | | | | |
| Indect | No/LOI | Yes | No | Yes | Yes | No/LOI |
| Park Assist | No | Yes | No | No/LOI | Yes | No |

Presentation Agenda



01

Project Overview/Timeline

03

RFP Process

02

PARCS and APGS Technology

04

Recommendations /
Next Steps

THE BIG QUESTION: WHICH VENDOR TO AWARD CONTRACT?

1. Town of Chapel Hill to create a Technology Selection Committee to include:
 - One (1) member of Technology Solutions Department
 - Two (2) members of Economic Development Department
 - Three (3) members of Parking Services Department
2. Selection Committee recommendation will be provided to General Contractor.
3. General Contractor to include Technology Recommendation in the overall Project.



Questions?



NEXT STEPS:

- Return to Council in April with a final construction budget and authorization of bonds
- Authorize Construction Contract
- May – Close on exchange of properties
- June – Begin construction



RECOMMENDATION:

That the Council adopt the two resolutions to:

- 1) determine the number of lanes at the eastern East Rosemary entrance, and
- 2) to determine the parking technology for the deck.