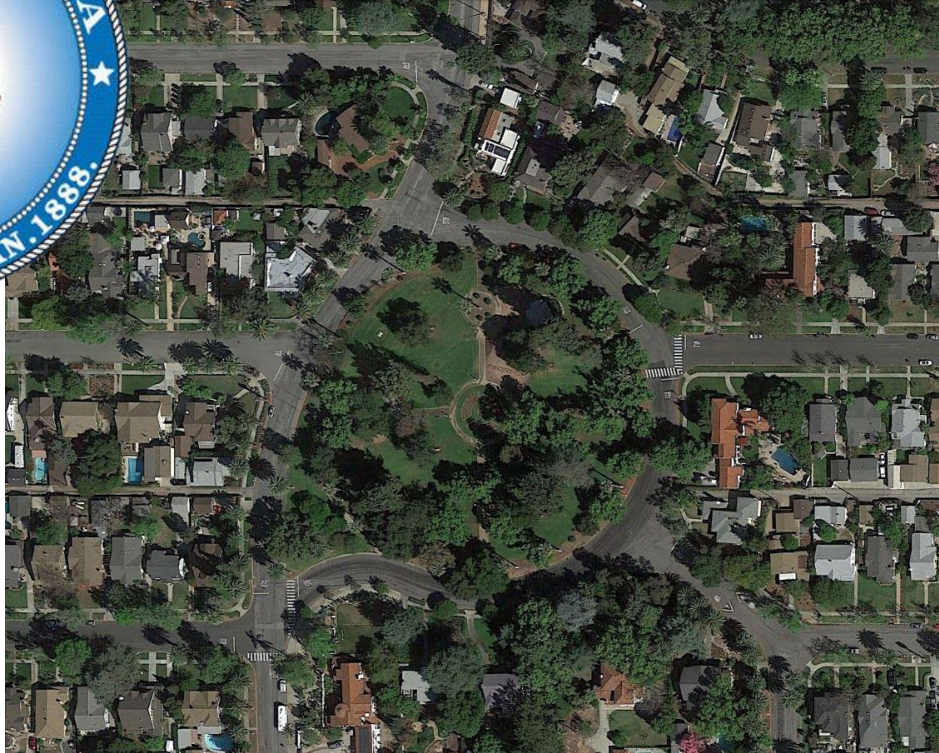


City of Pomona Historic Preservation Commission



MAJCOA 5720-2016
Lincoln Park ADA Improvements Project
March 1, 2017

Project Overview

- **Major Certificate of Appropriateness to allow ADA Accessibility improvements to Lincoln Park and the following surrounding street intersections*:**
 - **Palomares St. & Jefferson Ave./Como Dr. ***
 - **Palomares St. & Lincoln Ave./Como Dr.****
 - **Palomares St. & Como Dr./Lincoln Ave.**
 - **Como Dr./Lincoln Ave. & Lincoln Ave.**
 - **Como Dr./Jefferson Ave. & Jefferson Ave.****
 - * **No Bulb-outs with Potential Alt. 2**
 - ** **No X-Walks & Bulb-outs with Potential Alt.'s 1 & 2**

Project Overview Continued

- **Lincoln Park and the subject street intersections are located within the Lincoln Park Historic District;**
- **Doing nothing is not an option**
 - **Litigation History and Status**
 - **Potential Damages**

Project Overview Continued

- **Project team:**

- **Stantec- Rock Miller, Keith Rutherford, Carlos Pineda**
- **Nuvis- Tom Munoz, Bob Stone**
- **AGC-Roger Colvin**
- **City- Rene Guerrero, Matt Pilarz, Ron Chan, Laura Lara, Chris Millard**
- **City's Active Transportation Plan- (Fehr & Peers)**

Site Aerial Photograph



Existing Conditions - Accessibility

Palomares St. @
Jefferson Ave. -
Conflict
crosswalk &
existing tree and
light.



Palomares St. @
Jefferson
Ave./Como Dr.
(South)-
No access ramp
at the existing
crosswalk.

Lincoln Ave./
Como Dr. @
Lincoln Ave.
(East) -
No access ramps
at any of the
crosswalks.



Palomares St. @
Lincoln Ave.
(West) -
No crosswalk or
access ramp at
the D.G. path.

Existing Conditions - Accessibility

NE corner of
Palomares St. &
Jefferson Ave./
Como Dr. (South)

-
No access ramp
at the existing
crosswalk.



SW corner of
Palomares St.
and Lincoln
Ave. -
No access
ramp.

NW corner of
Palomares St.
and Lincoln Ave.
(West) -
No access ramp.



Existing Conditions

Existing Plaza -
Hardscape,
wall and D.G.
path need to
be refurbished.



Existing wall at
the planter is
damaged.



Existing D.G.
Path to plaza
needs re-
grading.



No crosswalk
and access
ramp at the
D.G. path to
the plaza.

Community Meetings

- **Community Meeting#1- July 12, 2016**
 - Various comments addressed in current project plans
- **HPC Meeting #1- November 2, 2016**
 - Various comments addressed & Requested Approval
- **Community Meeting #2-December 10, 2016**
 - Various comments addressed & Requested Approval
- **HPC Meeting #2- February 1, 2017**
 - Various comments addressed & Requested Approval
- **Parks & Rec. Commission Mtg. #1- February 16, 2017**
 - Presentation of Lincoln Park Project (Same as 2-1-17 HPC, No Alternatives)
- **HPC Meeting #3 - March 1, 2017**
 - Various comments addressed & Requesting Approval

Community Meeting Feedback & Response

- More noticing
 - Re-noticing, letters & multiple signs
- Existing Irrigation concern why would we add more.
 - Modification to (e) irrigation will accommodate park side (NW corner only) . Bulb-out irrigation by homeowners. Controller changed, and new connection to main line.
- The new DG walkway should be inside of existing trees, not outside where there is not 5' clear.
 - Modifications and alternatives to landscaping plans showing the DG pathway has been updated. No significant trees or bushes impacted.
- Boulders are a bad design element, hitching posts would be ok.
 - Landscaping alternatives, proposed, and hitching post have been incorporated in design
- Cobblestones and boulders are not appropriate or attractive. Less safe for bikes with bulb-outs. Use brick in bulb-outs not rock.
 - Alternatives for landscaping were presented at Community meeting, turf/succulent/brick/concrete mosaic. Recommended treatments at each bulb-out is being presented through agreement with adjacent residents . Bulb-outs used as traffic calming is a benefit to pedestrians & bikes (striped bike lanes are not planned).
- Plans are not complete enough to know what the details of the project are. Need details on curbing adjacent to new DG path. How do we deal with tree roots.
 - Current design plans show the new DG pathway w/add alternates. Curbing detail for the pathway is included.
- River rock and cobblestone not appropriate.
 - A Surrounding landscaping was used as reference, recommended materials are based on community feedback, additional material treatments are being presented as alternates
- Monroe Street example is horrible it looks dry, bare, small trees, doesn't belong and this would be a re-peat. Example of the hitching post can be found at home located at Garfield/Palomares, we should match that post for vertical element.
 - Current recommended materials are based on community feedback, additional material treatments are being presented as alternates. Hitching post included in recommended design.
- This design will be dangerous to biking activity as they travel fast. Median design is a bad idea. Ditto all other speakers comments.
 - Median provides a refuge area for pedestrians and is used as traffic calming measure
- City needs to notice Pomona Heritage, they received no notice.
 - Historic groups, Pomona Heritage and Historic society were notified for 12/10 /16 community meeting, and 2/1/17 HPC meeting.
- DG path adjustments should have been shown previously since they were brought up neighborhood meeting.
 - Pathway has been revised with additive alternates.
- Park plantings will not be cared for by the City.
 - Bulb-out's maintenance by homeowners, landscaping within park has been modified.
- Walk removed 10+ years ago at Jefferson/Palomares ??
 - Reinstallation of crosswalk is being recommended with a pedestrian median in order to provide a refuge area for pedestrians and used as a traffic calming measure.
- Small signs not moved after one week notice to staff.
 - Re-noticing and larger signs provided.

Community Meeting Feedback & Response

- Drawings and perspectives need better photos and existing conditions from google maps.
 - Existing conditions are shown on detailed civil plans
- Palm Tree & Fire Hydrant in front of her house are a concern.
 - The Palm tree will remain, ramp to be shifted to protect FH, water meter relocated only.
- New DG path should follow the imprint left by runners that currently run on the park path.
 - Current plans show modifications to pathways and alternatives to landscaping plans
- Poor perspectives make it difficult to understand the project.
 - New renderings show pedestrian perspective
- Street name incorrect, no such street as Como Dr.
 - Plans have been revised, and need Como for locations.
- Sealant for DG to keep flat surface for gatherings ?
 - DG sealant have different grades, DG will have a high grade product for sealing DG
- Sample boards of materials,
 - included are material imagery for treatments being recommended
- Reclaimed brick option, do not use new brick type
 - current plans show reclaimed brick
- Keep all picnic table and add ADA compliant table
 - current plans show all existing tables to remain and 1 new ADA table.
- Lincoln Park historic sign (possible element as opposed to hitching post) or at medians?
 - Will be incorporated as traffic requirements allow.
- Reduce parking around Lincoln Park?
 - Red curb proposed is minimized to corners and pedestrian crossings.
- Easement agreement w/property owners –
 - right of entry forms have been provided to adjacent property owners, and cobble alternate planned.
- Landscaping to be consistent with adjacent property owners landscaping –
 - recommended landscape treatments are based on adjacent resident preference as mentioned at community meeting, with cobble alternate.
- Noticing for HPC (enough notice)
 - Planning/re-noticing & added signs.
- Existing path to be regraded to be ADA compliant?
 - Include this work in project
- Striping and no parking at Jefferson Ave./Como Dr. ?
 - Parking restriction at this location is typical for corners.
- Walkway connecting from street to new walkway at Jefferson Ave/Como Dr on residence side.
 - incorporated into current plans
- Reclaimed brick decided on medians –
 - incorporated into current plans and renderings.
- Turf to be put on park side
 - incorporated into current plans and renderings.

Community Meeting Feedback & Response

HPC Meeting #2 Comments

- Alternatives Requested (without bulb-outs)
- Other Historic Area Projects
- Consultant Company and Other References
- Accident Information
- Active Transportation Plan information
- There are no improvements proposed for children.
 - improvements are due mainly to litigation for ADA access to the park and thru the surrounding street intersections.
- Lighting Fixture Proposed Question (see next slide)

Community Meeting Feedback & Response

- **Street lights being relocated and added will match existing street lights in historic district. Using the historic globe lights type that exists inside the park will not match the surrounding lights in the area, in addition, globe lights do not support reflective lenses, and due to their coating - they reduce illumination which would require excessive number of lights.**



Yes



No

Other Area Projects / References

Oregon & FHWA : Bulb-outs

PEDESTRIAN SAFETY IMPACTS OF CURB EXTENSIONS: A CASE STUDY

Final Report

SPR 304-321

by

Randal S. Johnson
Department of Civil, Construction & Environmental Engineering
Oregon State University
Corvallis, Oregon

for

Oregon Department of Transportation
Research Unit
200 Hawthorne Ave. SE -- Suite B-240
Salem, OR 97301-5192

and

Federal Highway Administration
400 Seventh Street SW
Washington, DC 20590

July 2005

Other Area Projects/ References

Oregon & FHWA : Bulb-outs

5.0 CONCLUSION AND RECOMMENDATIONS

The findings of this research suggest that curb extensions contribute to a significant reduction in the average number of vehicles that pass a waiting pedestrian before yielding to the pedestrian. Basically pedestrians approaching from the curb extension side experienced a vehicle yielding sooner than those coming from the non-improved side of the crosswalk. This reduction in the average number of passing vehicles yielding is best explained by the increased visibility offered by the curb extension.

Other Historic Area Projects Pasadena; National Register

COLORADO AND FAIR OAKS PROJECT HISTORIC RESOURCES STANDARDS EVALUATION

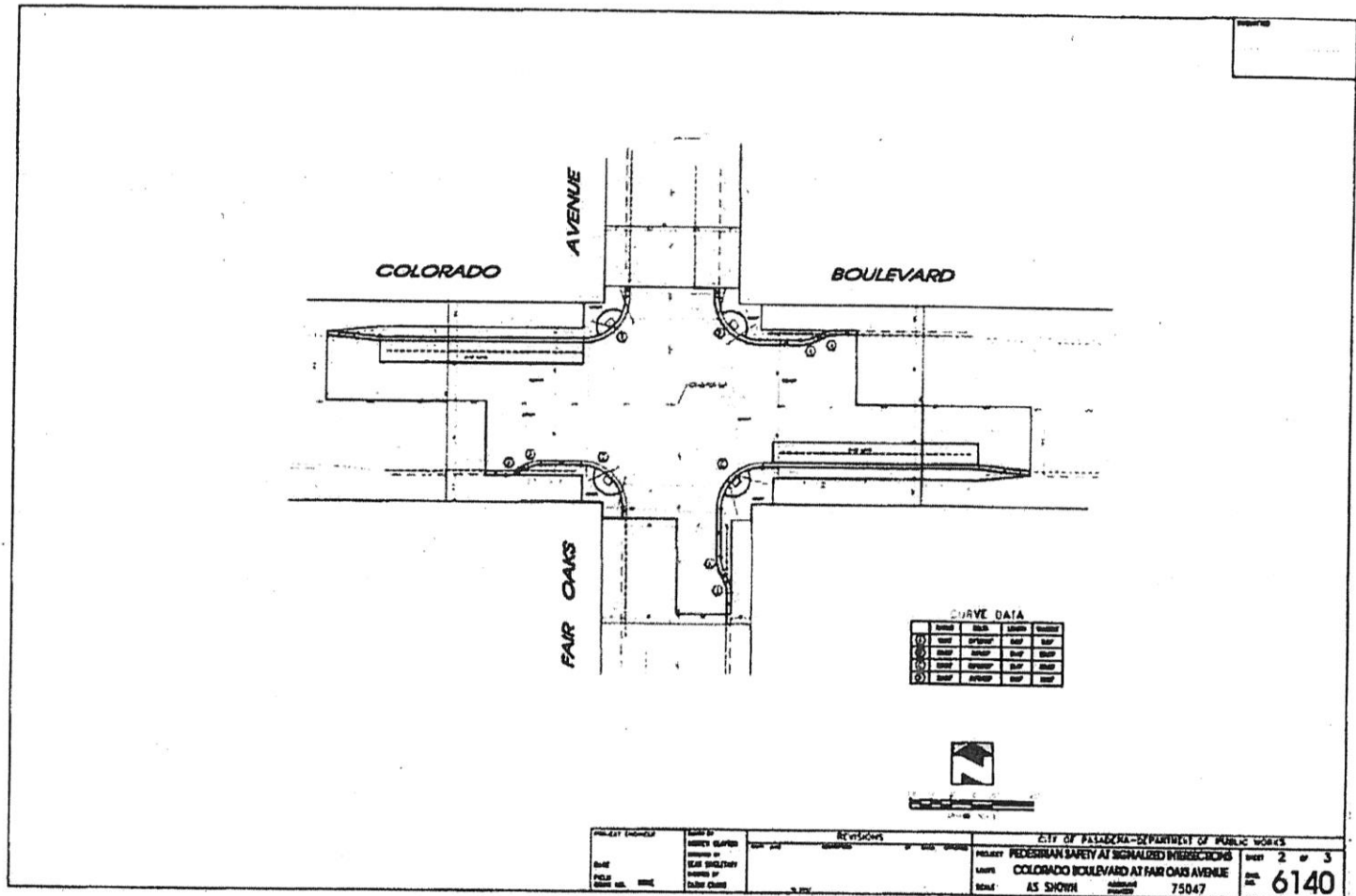
PRESENTATION TO THE DESIGN COMMISSION CITY OF PASADENA

Prepared for Design Commission
Design and Historic Preservation Section
City of Pasadena
By Sapphos Environmental, Inc.
February 10, 2015

Other Historic Area Projects Pasadena; National Register

Design Commission
May 12, 2015

3



Other Historic Area Projects Pasadena; National Register

CONCLUSION

This report resulted in the determination that the proposed project will be in compliance with the *Standards*, upon implementation of specified measures to protect adjacent historic buildings. The *Standards* (Appendix A), as well as the Preservation Briefs and other technical information published by the National Park Service, should be consulted for further information on appropriate approaches to the treatment of the character-defining features itemized and described in this document.

Should there be any questions regarding the information contained in this MFR, please contact Ms. Marilyn Novell at (626) 683-3547.

REFERENCES

Americans with Disabilities Act of 1990. Available at: <http://www.eeoc.gov/laws/statutes/ada.cfm>

California Code of Regulations, Title 14, Chapter 3, Section 15126.4(b)(1).

California Public Resources Code, Division 13, Section 21083.2.

California Public Resources Code, Division 13, Section 21084.1.

Caltrans Standard Environmental Reference. January 2011. Available at <http://www.dot.ca.gov/ser/>

City of Pasadena. January 2011. City of Pasadena Pedestrian Safety Study at Signalized Intersections. Prepared by: Fehr & Peers, Santa Monica, CA.

Other Historic Area References

Clarksburg, Maryland (near Washington, DC)

STREETSCAPE CONCEPTS FOR THE CLARKSBURG HISTORIC DISTRICT

JANUARY, 2009



Other Historic Area References Clarksburg, Maryland

STREETSCAPE CONCEPTS FOR THE CLARKSBURG HISTORIC DISTRICT

JANUARY, 2009

ACKNOWLEDGEMENTS

Steering Committee

David Chikvashvili, Chief,
Grants Administration & Special Projects Section,
Montgomery County Department of Housing and Community Affairs
Matthew Greene, Senior Planning Specialist,
Grants Administration & Special Projects Section,
Montgomery County Department of Housing and Community Affairs
Pat Darby, President,

Clarksburg Chamber of Commerce
Dennis German, Chief, *Community Design Division,*
Office of Highway Development,
Maryland State Highway Administration

Kathie Hulley, President,
Clarksburg Civic Association
Nichole Lewis, Vice President,
Clarksburg Chamber of Commerce
Catherine Matthews, Director,
Montgomery County Upcounty Regional Services Center
Kathleen Mitchell, Clarksburg Ombudsman,
Montgomery County Government

Gordon Taylor,
Clarksburg Chamber of Commerce
Scott Whipple, Historic Preservation Supervisor,
Montgomery County Planning Department
Joann Woodson,
Clarksburg Historical Society

Consultant Team

TND Planning Group
In association with
The Ottery Group

And all of the workshop participants

Other Historic Area References

Clarksburg, Maryland

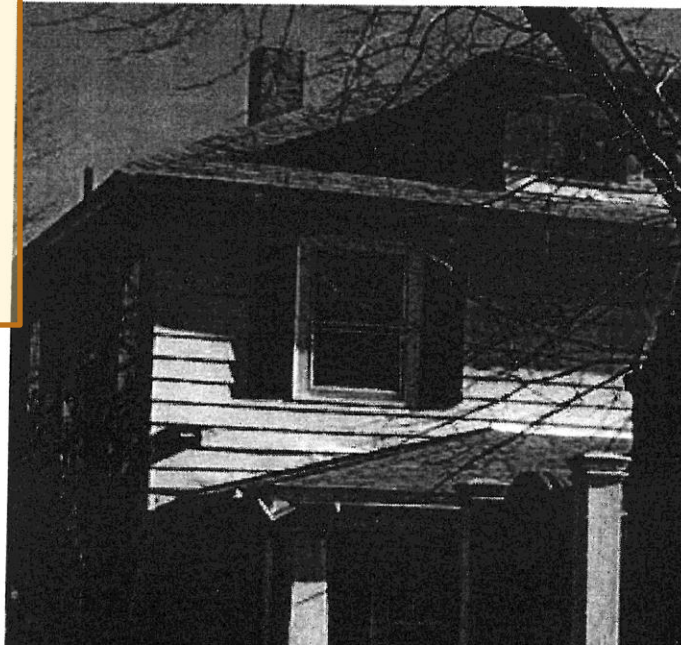
The Historic District is identified in the master plan and other planning efforts as an important destination and cultural feature.

However, the Historic District currently lacks much of the infrastructure that would make it pedestrian friendly - an essential characteristic to any destination, particularly a historic district. Historic districts are best enjoyed when residents and visitors can comfortably stroll along the streets and cross the street without feeling intimidated by automobile traffic. This requires adequate sidewalks, lighting, and other amenities that create a "walkable" environment.

Without these kind of amenities, pedestrian activity can be severely curtailed or even be hazardous. The main roadways in the Clarksburg Historic District, Frederick Road and Clarksburg

pedestrian activity.

Achieving a more pedestrian friendly environment will also have a positive impact on the attractiveness and appeal of small-scale businesses and historic properties within the district. This supports the economic vitality and walkability goals set forth in the master plan.



Other Historic Area References

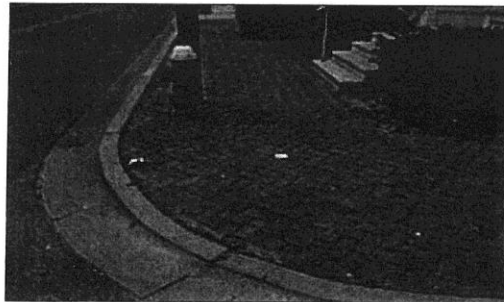
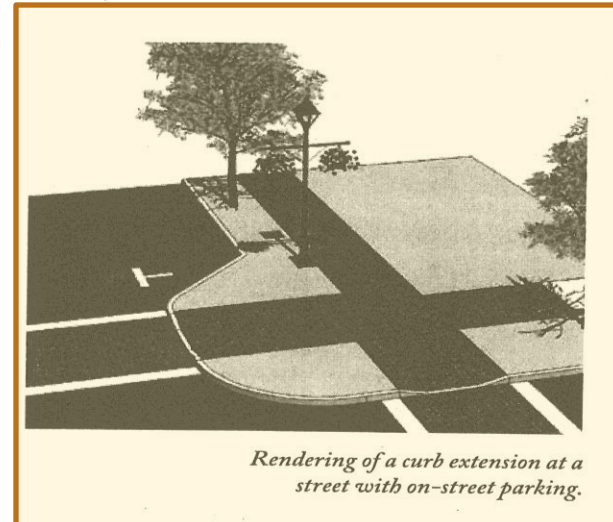
Clarksburg, Maryland

Purpose:

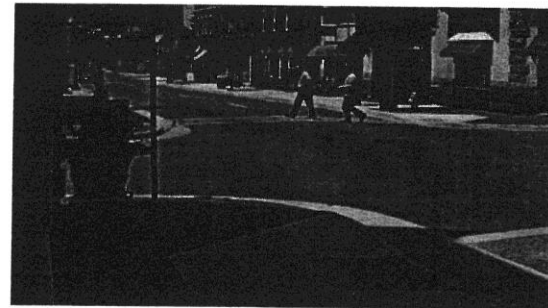
Corner treatments such as curb extensions reduce the actual and perceived distance that pedestrians must cross, and also provide visual cues that encourage drivers to slow down as they approach intersections.

Recommendations:

- At intersections where higher traffic volumes are present, consider providing curb extensions where on-street parking is present. This will reduce the physical and perceived crossing distance for pedestrians, and will also create a “pinch point” that will reduce vehicle speeds at crosswalk approaches.
- Consider minimizing curb return radii, if feasible. This will ensure that vehicles slow down or stop before making a right turn, which will help increase pedestrian safety and comfort.
- Use corners to create “special places” with landscaping, historic markers, and/or gateway features.
- Curb ramps are to be included at all corners and include appropriate non-skid surfaces.



Curb ramps are necessary to assist disabled persons in wheelchairs as well as for strollers and other types of wheeled devices.



Non-skid inserts, like the one shown here, should be used at curb ramps when brick or other rough paving material cannot be used.

Active Transportation Plan

- **ATP guidelines and excerpts provided in the following slides**
- **Why Lincoln Park & not other intersections**
 - Lincoln Park intersections w/out stop control (needs warrants/not met)
 - Curvilinear/non-standard intersections
 - Concentrated crossings due to park (proxy for walking activity ATP Fig 5-1)
 - Lincoln Park does not exist at other intersections
- **Accidents (see Proxy slide below)**

Active Transportation Plan



"ACTIVE TRANSPORTATION PLAN:
• Bicycle Master Plan, and
• Pedestrian Master Plan"

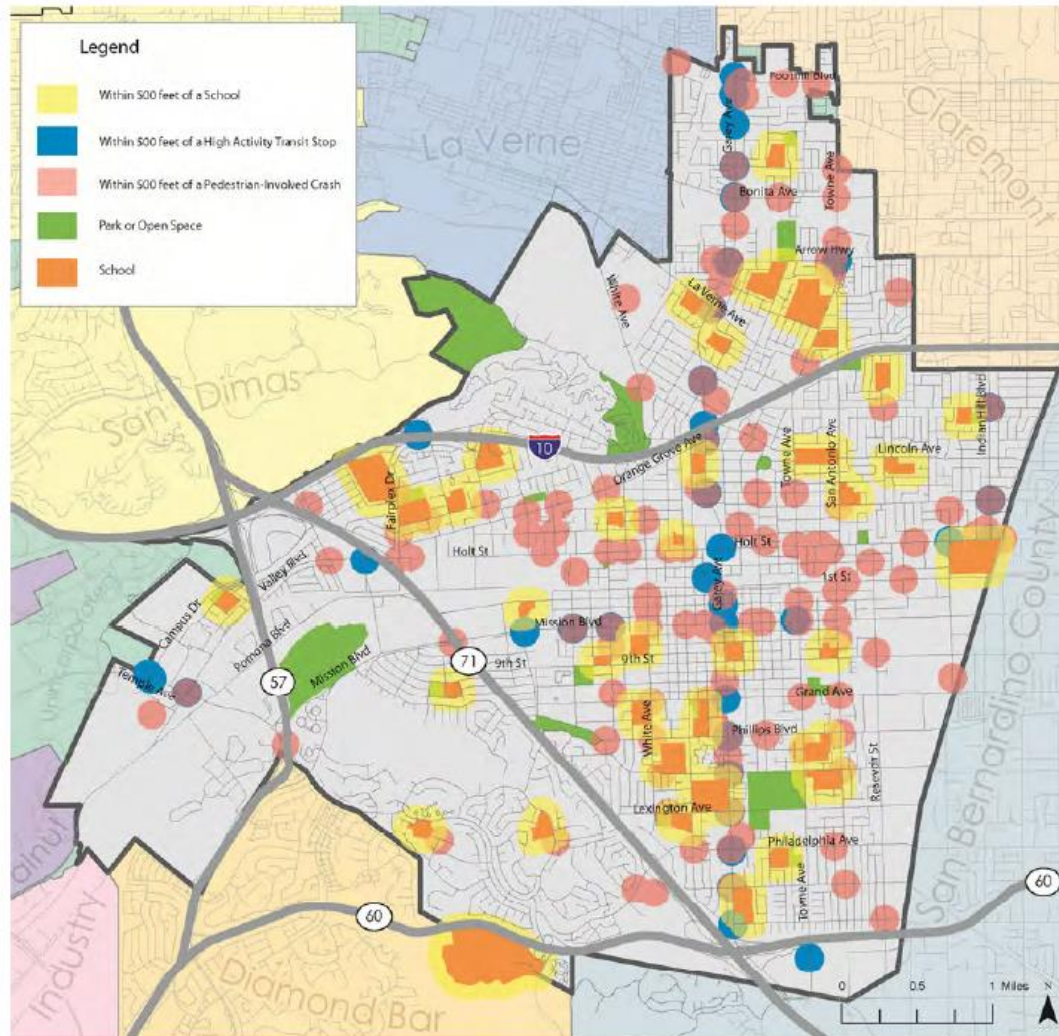
NOVEMBER 2012



FEHR & PEERS

Active Transportation Plan

Figure 5-1 – Proxies for Walking Activity



Active Transportation Plan

PEDESTRIAN DESIGN GUIDELINES

Walking requires two important features in the built environment: people must walk along streets and they must get across streets. Crossing a street should be easy, safe, convenient, and comfortable. While pedestrian behavior and crossing design affect the street crossing experience, motorist behavior (whether and how motorists yield to pedestrians) is the most significant factor in pedestrian safety.

A number of tools exist to improve pedestrian safety, to make crossing streets easier and walking along streets more comfortable and inviting. Effective traffic management can address concerns about traffic speed and volume. A motorist driving more slowly has more time to see, react, and stop for a pedestrian. The number of pedestrians also influences motorists; in general, motorists are more aware of pedestrians when more people walk.

Providing marked crosswalks is only one of the many possible engineering measures. According to Charles Zegeer of the Pedestrian and Bicycle Information Center (PBIC), when considering how to provide safer crossings for pedestrians, the question should not be: "Should I provide a marked crosswalk?" Instead, the question should be: "What are the most effective measures that can be used to help pedestrians safely cross the street?" Deciding whether to mark or not mark crosswalks is only one consideration in creating safe and convenient pedestrian crossings.

Active Transportation Plan

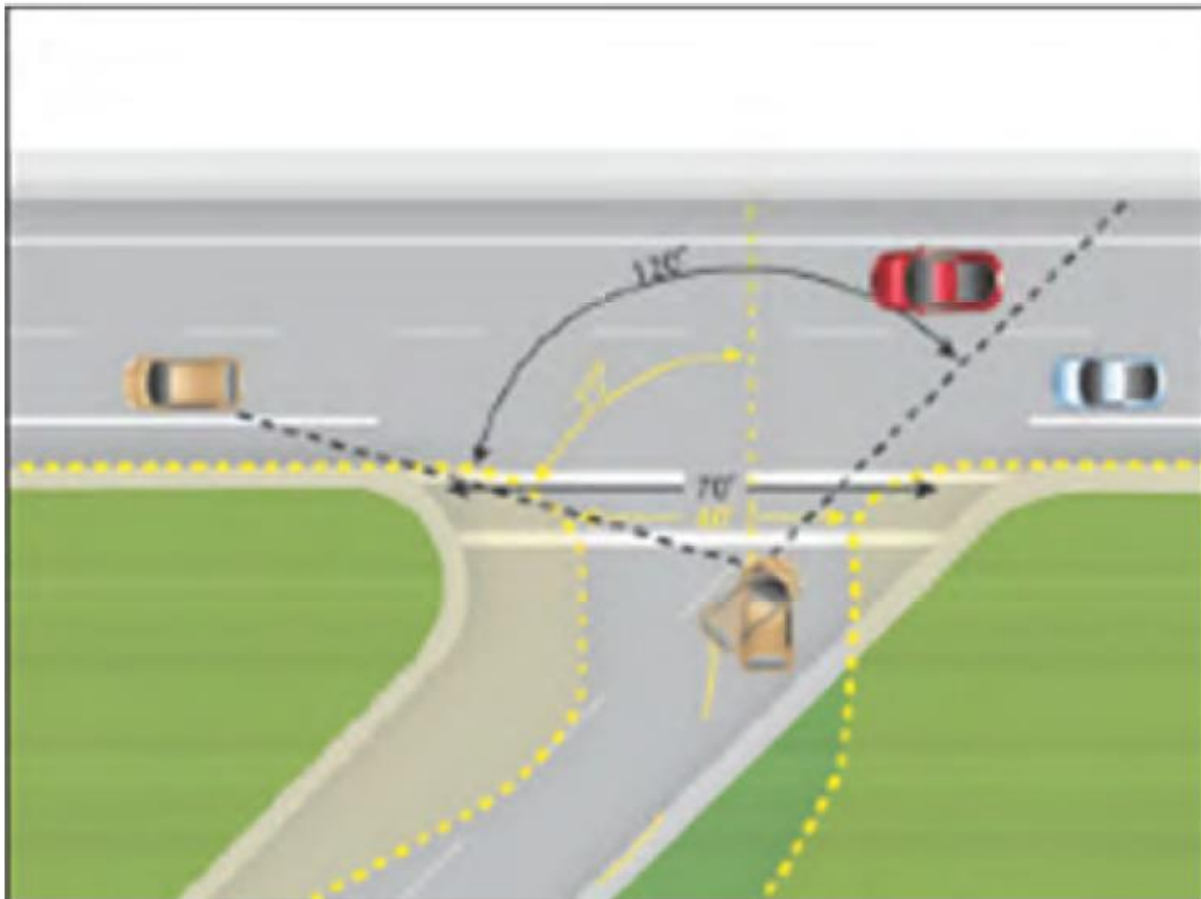
Curb Extensions [Bulb-outs]



Asheville, North Carolina curb extension

Active Transportation Plan

Intersection Geometry Modifications



Active Transportation Plan

Intersection Geometry Modifications

Description

Geometry sets the basis for how all users traverse intersections and interact with each other. Intersection skew can create an unfriendly environment for pedestrians. Skewed intersections are those where two streets intersect at angles other than right angles. Intersection geometry should be as close to 90 degrees as possible.

Benefits

- Skewed intersections are undesirable
- Slows turning vehicles by making angles more acute
- Shortens pedestrian crossing distances
- Improves sight visibility

Key Design Features

- Consider removing one or more legs from the major intersection and creating a minor intersection further up or downstream (if there are more than two streets intersecting)
- Close one or more of the approach lanes to motor vehicle traffic, while still allowing access for pedestrians and bicyclists
- Introduce pedestrian islands if the crossing distance exceeds three lanes (approximately 44 feet)
- General use, travel lanes, and bike lanes may be striped with dashes to guide bicyclists and motorists through a long undefined area

Approximate Cost

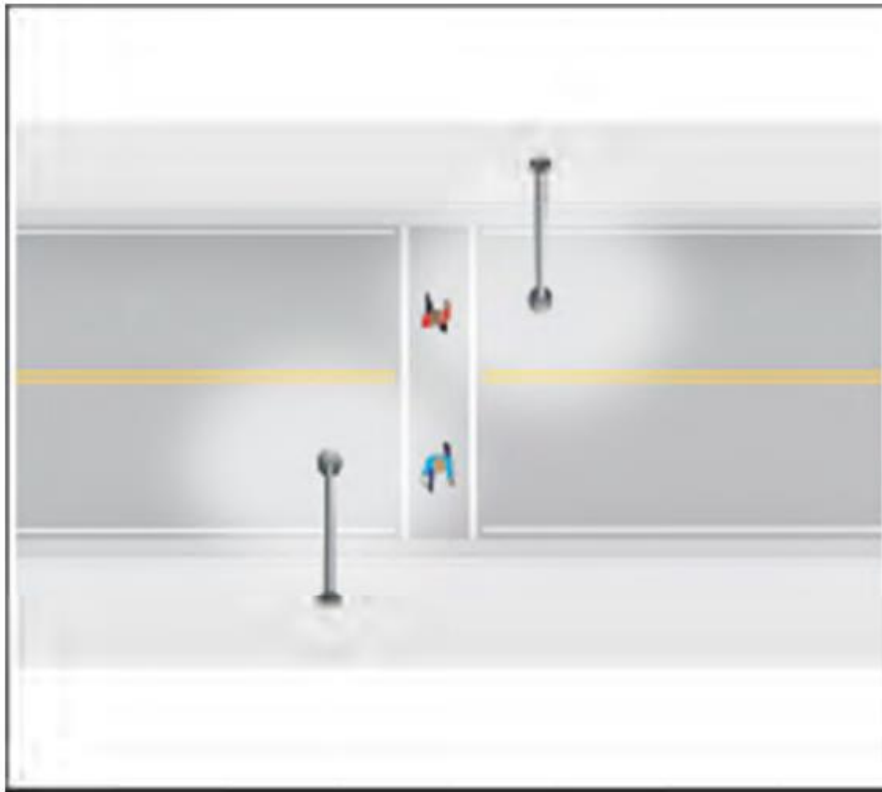
- Varies

Applications

- Every reasonable effort should be made to design or redesign the intersection closer to a right angle

Active Transportation Plan

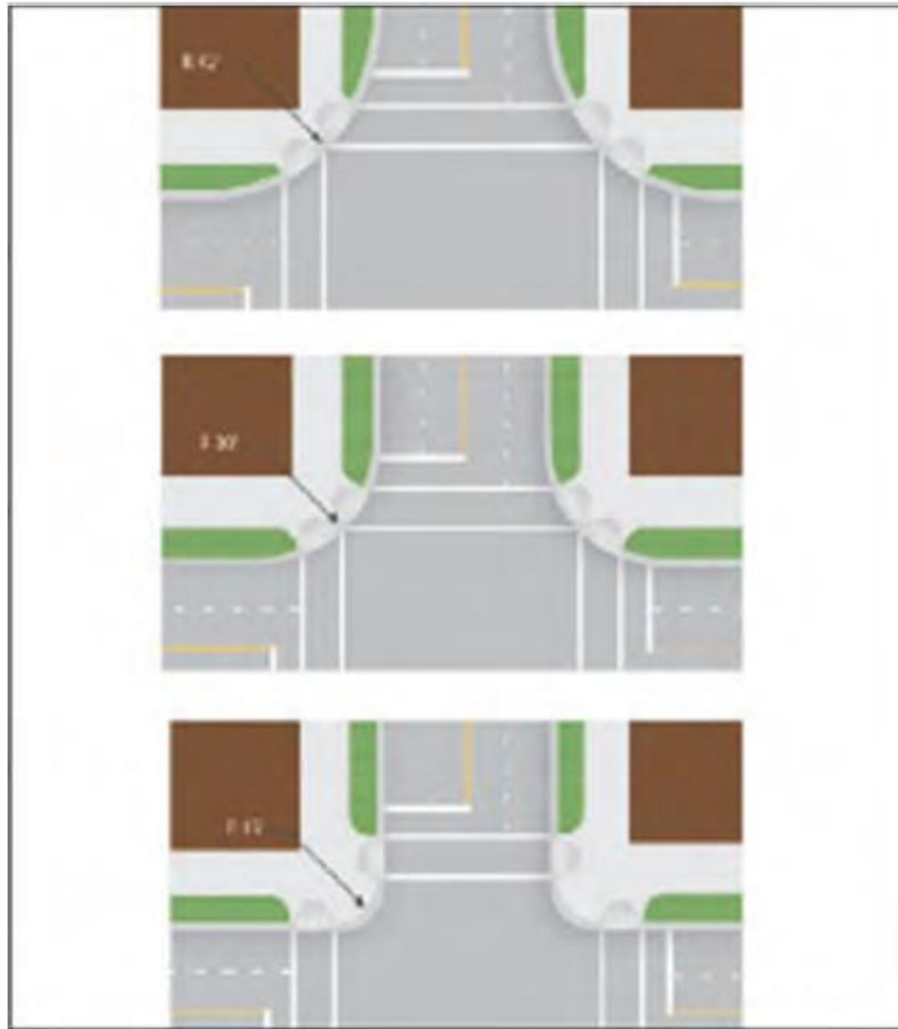
Lighting



Well-lit crosswalk in Denmark

Active Transportation Plan

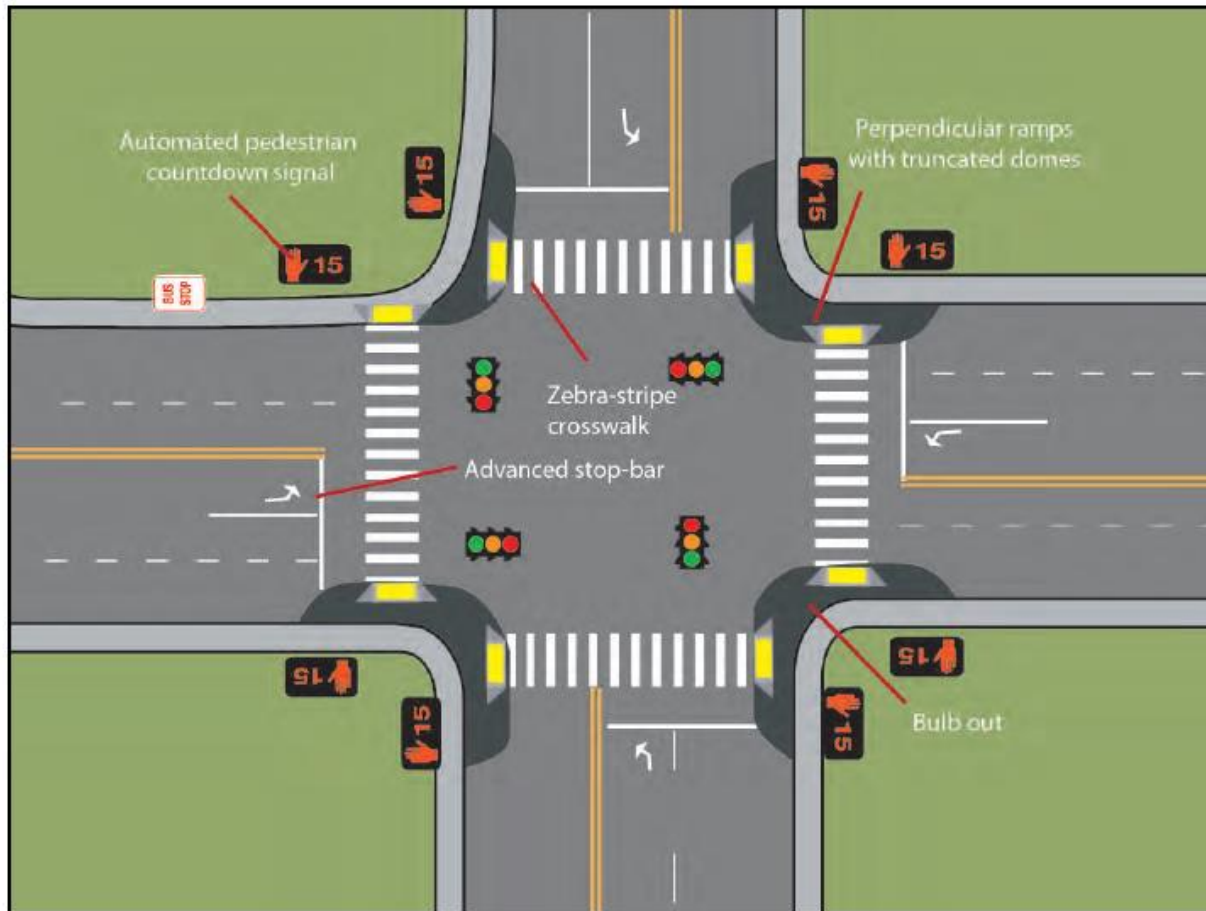
Reduced Curb Radius



Active Transportation Plan

Sample Intersection with Potential Improvements

The graphic below indicates some of the potential improvements proposed to the following 35 key intersections. The design features, applications, costs, and benefits of each type of potential improvement are further described in the Pedestrian Design Guidelines.



Traffic Calming

- A pedestrian hit by a car going 30 mph has a 30% chance of dying, while one hit by a car going at 25 mph has only a 12% fatality rate
- Using narrower lanes and other improvements encourages driving slowly
- Fast-moving traffic, poor lighting, limited pedestrian crossings, and unprotected sidewalks on roads that are winding are a fatal formula for those on foot
- “When you redesign a street to improve safety for people walking and biking, it makes it safer for everybody” “reducing turning conflicts (at intersections), actually reduce crashes for people driving as well.” -National Association of City Transportation Officials
- Long-lasting and sustainable changes depend on changes to the physical roads.

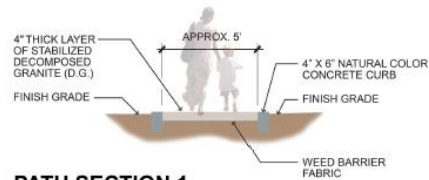
Recommended Improvements

EXISTING PLANT LEGEND

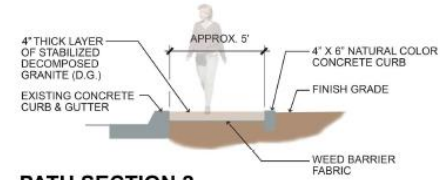
BOTANICAL NAME	COMMON NAME
1 ABELIA GRANDIFLORA	GLOSSY ABELIA
2 CAMELLIA SPP.	CAMELLIA
3 CINNAMOMUM CAMPHORA	CAMPHOR TREE
4 CUPANOPSIS ANACARDIODES	CARROTWOOD
5 FEUJOA SELLOWIANA	PINEAPPLE GUAVA
6 FRAXINUS SPP.	ASH
7 JUNIPERUS SPP.	JUNIPER
8 LAGERSTROEMIA SPP.	GRAPE MYRTLE
9 PITTIOSPORUM TOBIRA	MOCK ORANGE
10 PITTIOSPORUM TOBIRA 'VARIEGATA'	MOCK ORANGE
11 PLATANUS RACEMOSA	CALIFORNIA SYCAMORE
12 PYRUS SPP.	EVERGREEN PEAR
13 QUERCUS AGRIFOLIA	COAST LIVE OAK
14 QUERCUS SUBER	CORK OAK
15 RHAPHIOLEPIS SPP.	INDIAN HAWTHORN
16 VACCINIUM SPP.	BLUEBERRIES
17 WASHINGTONIA SPP.	FAN PALM
18 LAURUS NOBILIS	SWEET BAY

CONSTRUCTION LEGEND

- A** 5' WIDE DECOMPOSED GRANITE PATH. REFER TO SECTIONS HEREON.
- B** EXISTING TREES & SHRUBS SHALL REMAIN & BE PROTECTED. F'S DENOTE PLANT MATERIAL PER PLANT LEGEND HEREON.
- C** MEDIAN WITH PAINTED CROSS WALK, RUNNING FROM PARK TO RESIDENTIAL SIDE OF STREET.
- D** DENOTES PROPOSED BULB-OUT.
- E** EXISTING PLANTER WALL SHALL REMAIN, BE PROTECTED & REPAIRED.
- F** EXISTING TOT LOT AND PLAY EQUIPMENT SHALL REMAIN & BE PROTECTED.
- G** EXISTING RESTROOM BUILDING SHALL REMAIN & BE PROTECTED.
- H** EXISTING SHADE STRUCTURE SHALL REMAIN & BE PROTECTED.
- I** EXISTING PLAZA SHALL BE REFURBISHED:
 - REGRADING FOR ADA ACCESSIBILITY
 - EXISTING CONCRETE MOSAIC PAVING TO BE REMOVED AND REPLACED WITH STABILIZED D.G.
 - MOSAIC BAND TO BE RESET AT BASE OF TREE PLANTER SHALL BE SET IN STABILIZED DECOMPOSED GRANITE (D.G.)
 - EXISTING BBQ'S, TRASH RECEPTACLES, & THREE (3) EXISTING PICNIC TABLES SHALL REMAIN & BE PROTECTED. ONE (1) NEW ADA PICNIC TABLE SHALL BE INCLUDED IN PLAZA.
- J** NEW TURF AREA
- K** SUCCULENT PLANTING AREA
- L** RECYCLED BRICK PAVING



PATH SECTION 1

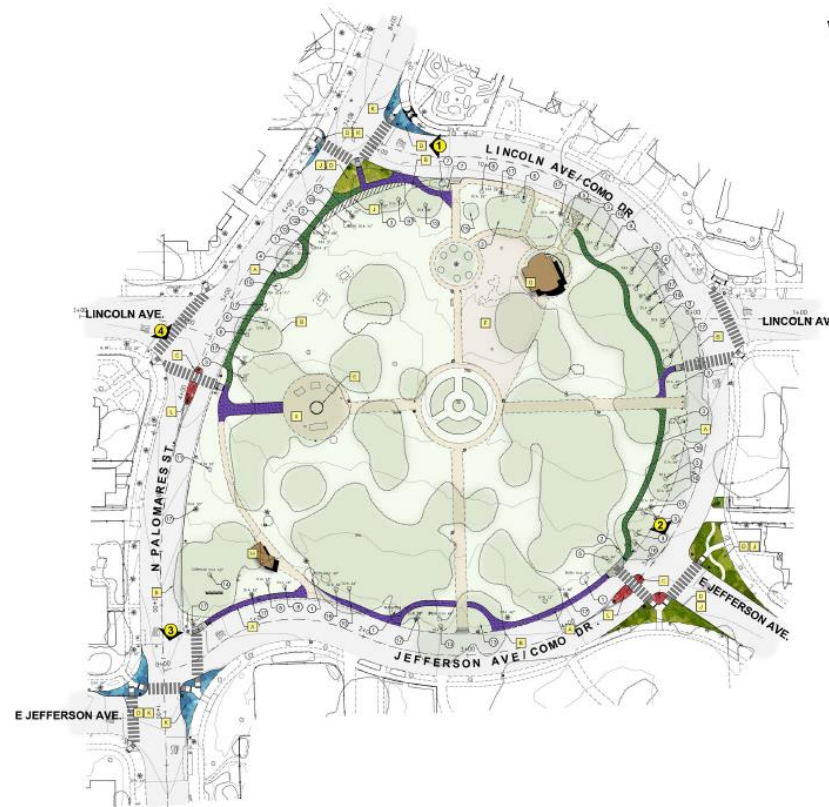


PATH SECTION 2

VIEW LEGEND

- 1** COMO DR. & N. PALOMARES ST.
- 2** COMO DR. & E. JEFFERSON AVE.
- 3** N PALOMARES ST. & E. JEFFERSON AVE.
- 4** N. PALOMARES ST. & LINCOLN AVE.
- BASE BID**
- ALTERNATE BID**
- BRICK AREA**
- TURF AREA**
- SUCCULENT PLANTING AREA**

NOTE: VIEWS CORRESPOND TO STREET VIEW PERSPECTIVE DESIGN SIMULATIONS



SITE LAYOUT PLAN
LINCOLN PARK
CITY OF POMONA, CA

SCALE: 1" = 30'-0"
1" = 30'-0"



Stantec
NUVIS
LANDSCAPE ARCHITECTURE
CA 91761, 91762
91763, 91764
SHT 1 OF 7

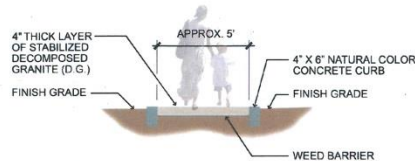
POTENTIAL ALTERNATIVE 1

EXISTING PLANT LEGEND

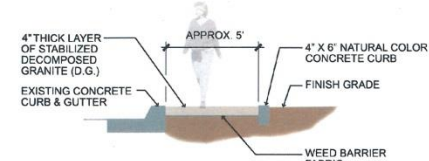
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- E EXISTING PLANTER WALL SHALL REMAIN, BE PROTECTED & REPAIRED.
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- H EXISTING SHADE STRUCTURE SHALL REMAIN & BE PROTECTED.
- I EXISTING PLAZA SHALL BE REFURBISHED:
 - RESURFACING FOR ADA ACCESSIBILITY
 - EXISTING CONCRETE MOSAIC PAVING TO BE REMOVED AND REPLACED WITH STABILIZED D.G.
 - MOSAIC BAND TO BE RESET AT BASE OF TREE PLANTER SHALL BE SET IN STABILIZED DECOMPOSED GRANITE (D.G.)
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- J NEW TURF AREA
- K SUCCULENT PLANTING AREA
- L RECYCLED BRICK PAVING

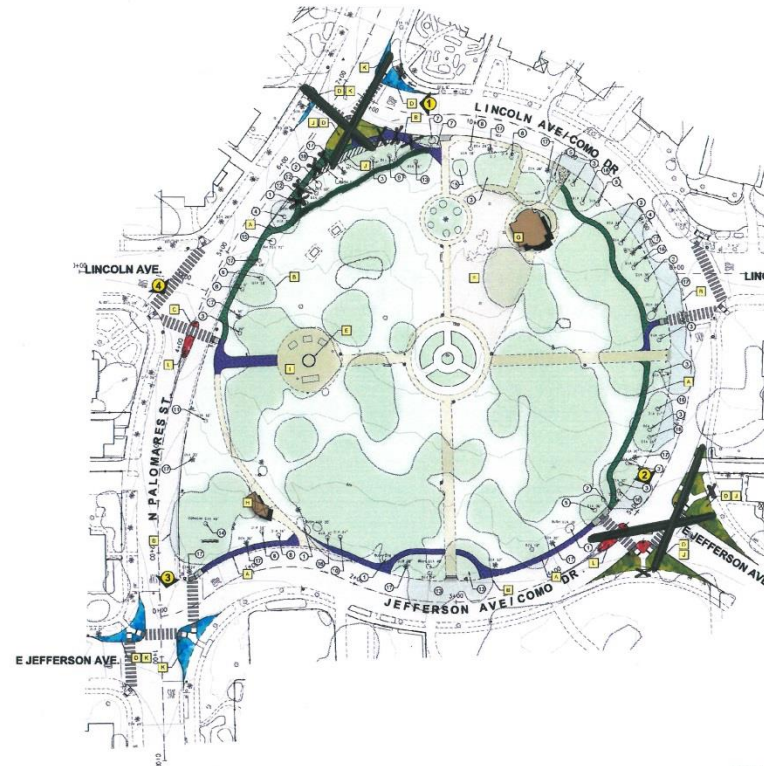


PATH SECTION 1



PATH SECTION 2

POTENTIAL ALTERNATIVE 1



VIEW LEGEND

- 1 COMO DR. & N. PALOMARES ST.
- 2 COMO DR. & E. JEFFERSON AVE.
- 3 N PALOMARES ST. & E. JEFFERSON AVE.
- 4 N. PALOMARES ST. & LINCOLN AVE.

- BASE BID
- ALTERNATE BID
- BRICK AREA
- TURF AREA
- SUCCULENT PLANTING AREA

NOTE:
1. VIEWS CORRESPOND TO STREET VIEW PERSPECTIVE DESIGN SIMULATIONS.
2. PROPOSED BULB-OUT IRRIGATION FOR NEW BULB-OUT PLANTING AREAS SHALL BE TIED-INTO HOMEOWNER IRRIGATION SYSTEM.

SITE LAYOUT PLAN
LINCOLN PARK
CITY OF POMONA, CA



Stantec

NUVIS
LANDSCAPE
ARCHITECTURE
CA 1931, NUVIS
18111111, 11-11-2017
SHT 1 OF 7

SCALE: 1" = 30' 0"
N

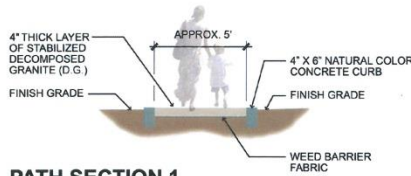
POTENTIAL ALTERNATIVE 2

EXISTING PLANT LEGEND

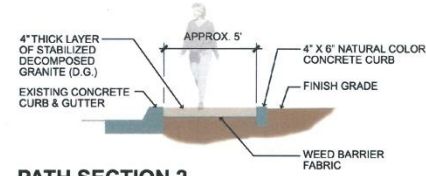
BOTANICAL NAME	COMMON NAME
1 ABELIA GRANDIFLORA	GLOSSY ABELIA
2 CAMELLIA SPP.	CAMELLIA
3 CINNAMOMUM CAMPHORA	CAMPHOR TREE
4 CUPANOPSIS ANACARDIODES	CARROTWOOD
5 FELUOA SELLOWIANA	PINEAPPLE GUAVA
6 FRAXINUS SPP.	ASH
7 JUNIPERUS SPP.	JUNIPER
8 LAGERSTROEMIA SPP.	CRAPE MYRTLE
9 PITTOSPORUM TOBIRA	MOCK ORANGE
10 PITTOSPORUM TOBIRA VARIEGATA	MOCK ORANGE
11 PLATANUS RACEMOSA	CALIFORNIA SYCAMORE
12 PYRUS SPP.	EVERGREEN PEAR
13 QUERCUS AGRIFOLIA	COAST LIVE OAK
14 QUERCUS SUBER	CORK OAK
15 RHAPHIOLEPIS SPP.	INDIAN HAWTHORN
16 VACCINIUM SPP.	BLUEBERRIES
17 WASHINGTONIA SPP.	FAN PALM
18 LAURUS NOBILIS	SWEET BAY

CONSTRUCTION LEGEND

- A** 8' WIDE DECOMPOSED GRANITE PATH. REFER TO SECTIONS HEREON.
- B** EXISTING TREES & SHRUBS SHALL REMAIN & BE PROTECTED. #S DENOTE PLANT MATERIAL PER PLANT LEGEND HEREON.
- C** MEDIAN WITH PAINTED CROSS WALK, RUNNING FROM PARK TO RESIDENTIAL SIDE OF STREET.
- D** DENOTES PROPOSED BULB-OUT.
- E** EXISTING PLANTER WALL SHALL REMAIN, BE PROTECTED & REPAIRED.
- F** EXISTING TOT LOT AND PLAY EQUIPMENT SHALL REMAIN & BE PROTECTED.
- G** EXISTING RESTROOM BUILDING SHALL REMAIN & BE PROTECTED.
- H** EXISTING SHADE STRUCTURE SHALL REMAIN & BE PROTECTED.
- I** EXISTING PLAZA SHALL BE REFINISHED:
 - REGRADE FOR ADA ACCESSIBILITY
 - EXISTING CONCRETE MOSAIC PAVING TO BE REMOVED AND REPLACED WITH STABILIZED D.G.
 - MOSAIC BAND TO BE RESET AT BASE OF TREE PLANTER SHALL BE SET IN STABILIZED DECOMPOSED GRANITE (D.G.)
 - EXISTING PICNIC TABLES SHALL REMAIN & BE PROTECTED. ONE (1) NEW ADA PICNIC TABLE SHALL BE INCLUDED IN PLAZA.
- J** NEW TURF AREA
- K** SUCCULENT PLANTING AREA
- L** RECYCLED BRICK PAVING



PATH SECTION 1



PATH SECTION 2

POTENTIAL ALTERNATIVE 2



VIEW LEGEND

- 1** COMO DR. & N. PALOMARES ST.
- 2** COMO DR. & E. JEFFERSON AVE.
- 3** N PALOMARES ST. & E. JEFFERSON AVE.
- 4** N PALOMARES ST. & LINCOLN AVE.

- BASE BID**
- ALTERNATE BID**
- BRICK AREA**
- TURF AREA**
- SUCCULENT PLANTING AREA**

NOTE:
 1. VIEWS CORRESPOND TO STREET VIEW PERSPECTIVE DESIGN SIMULATIONS.
 2. PROPOSED BULB-OUT IRRIGATION FOR NEW BULB-OUT PLANTING AREAS SHALL BE TIED-INTO HOMEOWNER IRRIGATION SYSTEM.

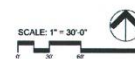
SITE LAYOUT PLAN
LINCOLN PARK
 CITY OF POMONA, CA



Stantec

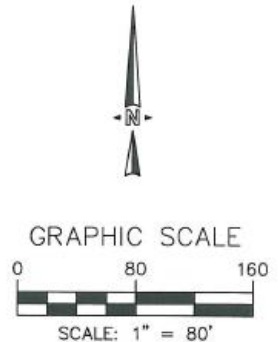
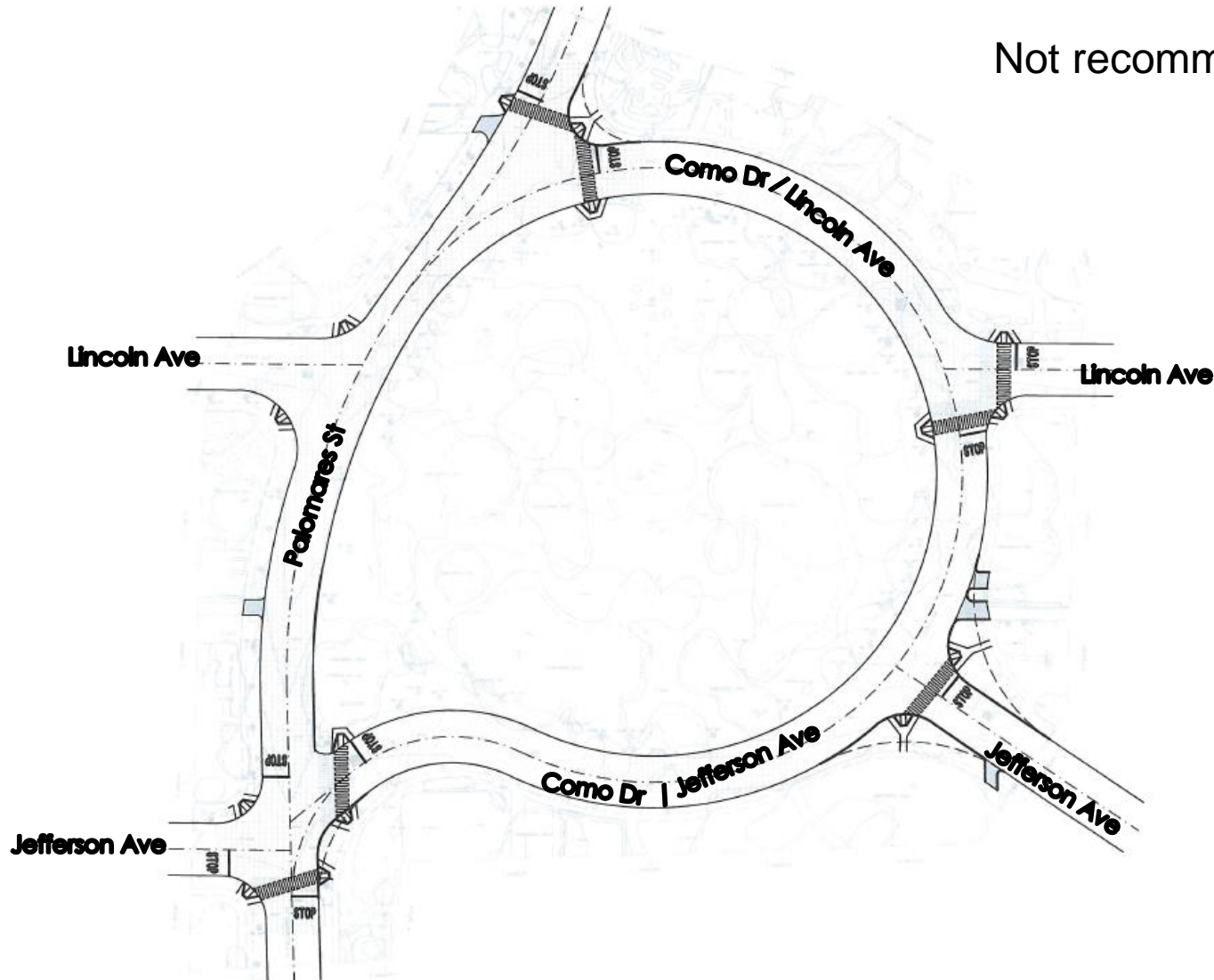
NUVIS

LANDSCAPE
 ARCHITECTURE
 CA 1991, NUVIS
 REG. NO. 01-10-2017
 SHT 1 OF 7



Design History Iterations

Not recommended



CITY OF POMONA
LINCOLN PARK
ITERATION 1



Stantec

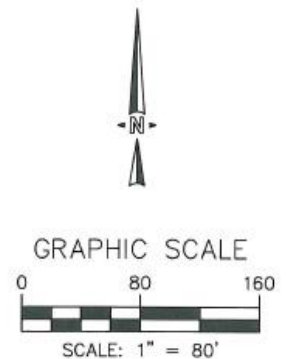
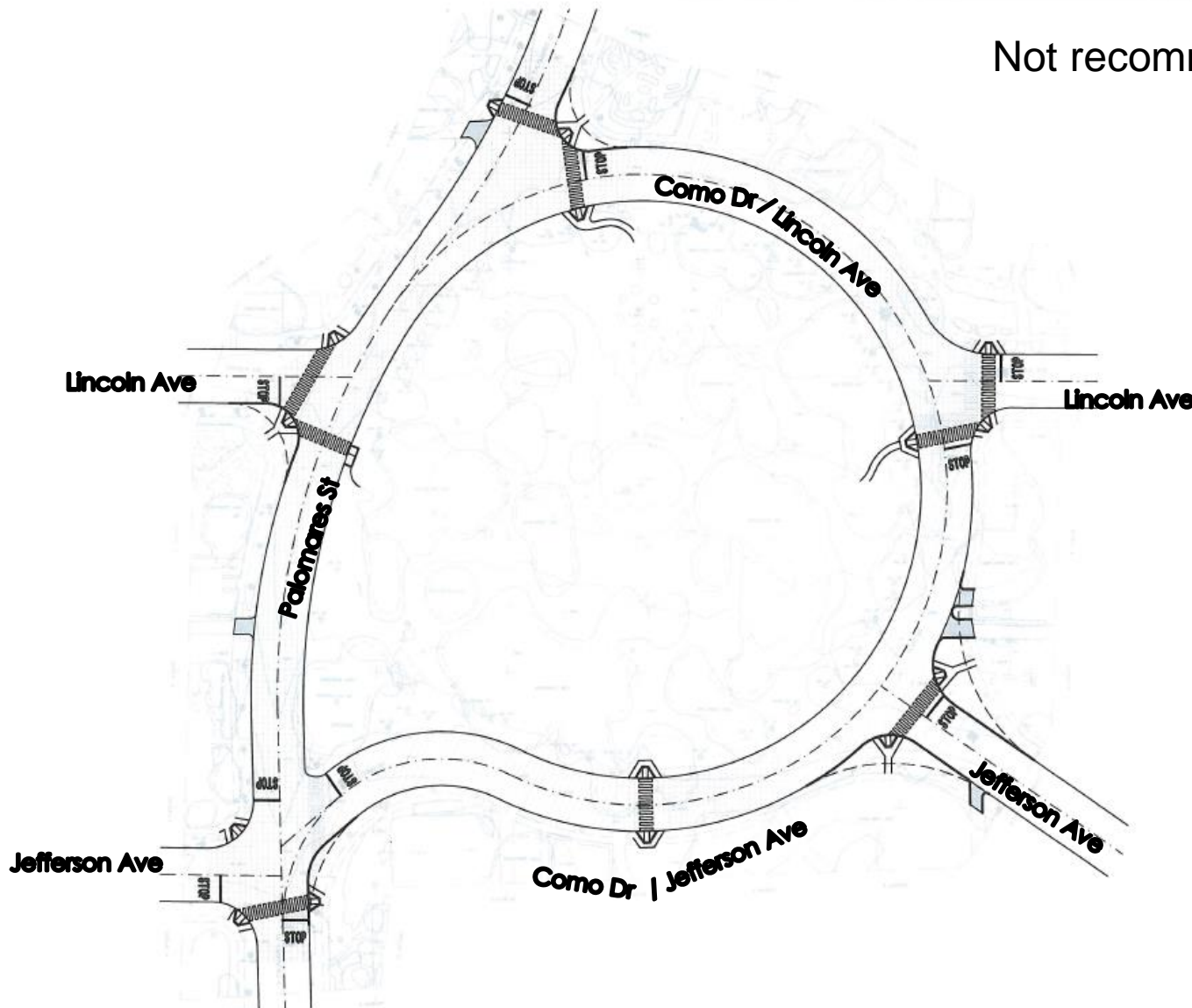
46 DISCOVERY, SUITE 250
IRVINE, CA 92618

(949) 474-1400 TEL
(949) 201-8482 FAX

4/11/16

Design History Iterations

Not recommended



CITY OF POMONA
LINCOLN PARK
ITERATION 2



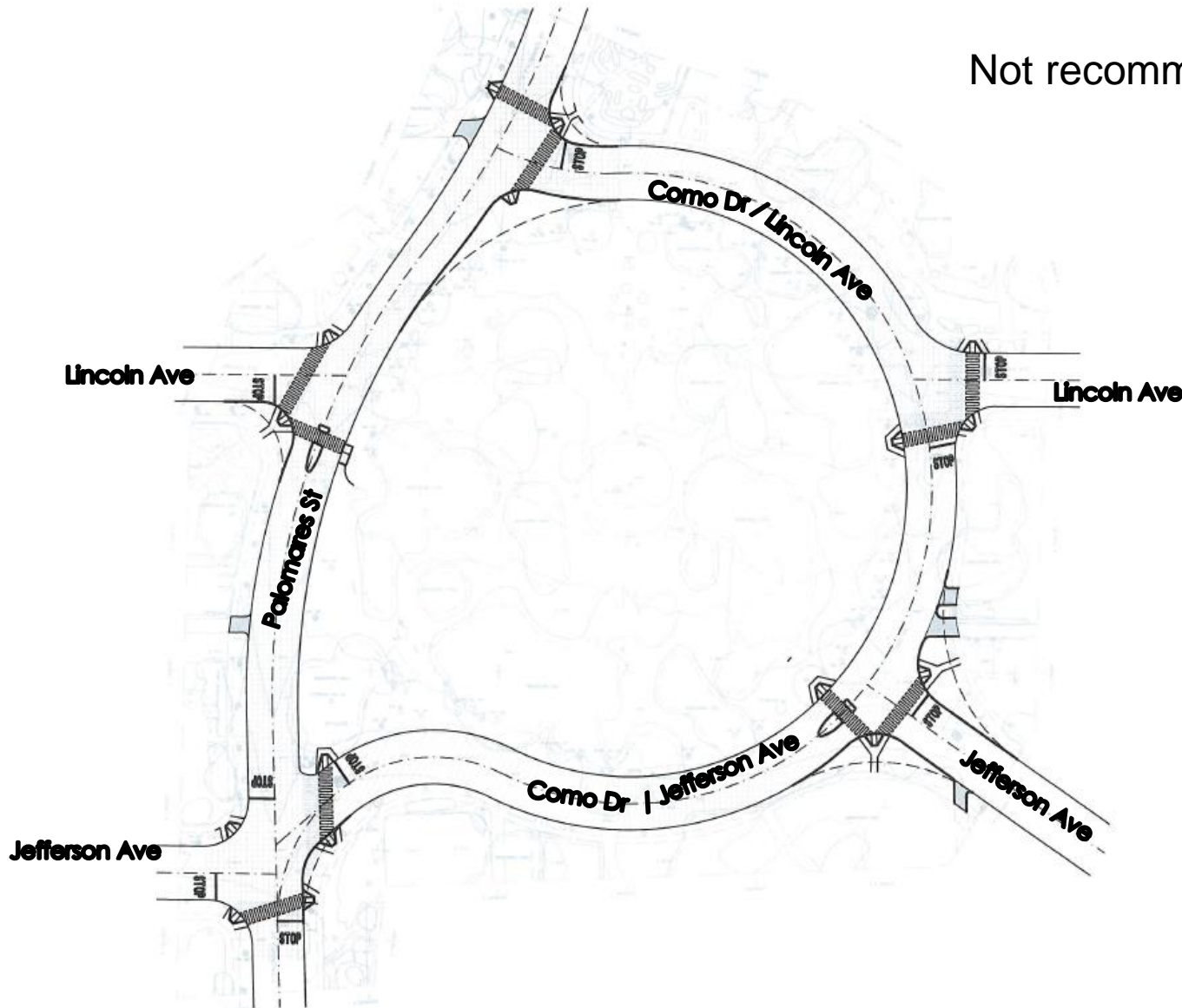
Stantec

46 DISCOVERY, SUITE 250
IRVINE, CA 92618

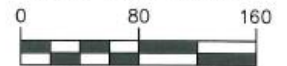
(949) 474-1400 TEL
(949) 261-8482 FAX

Design History Iterations

Not recommended



GRAPHIC SCALE



SCALE: 1" = 80'

CITY OF POMONA
LINCOLN PARK
ITERATION 3



Stantec

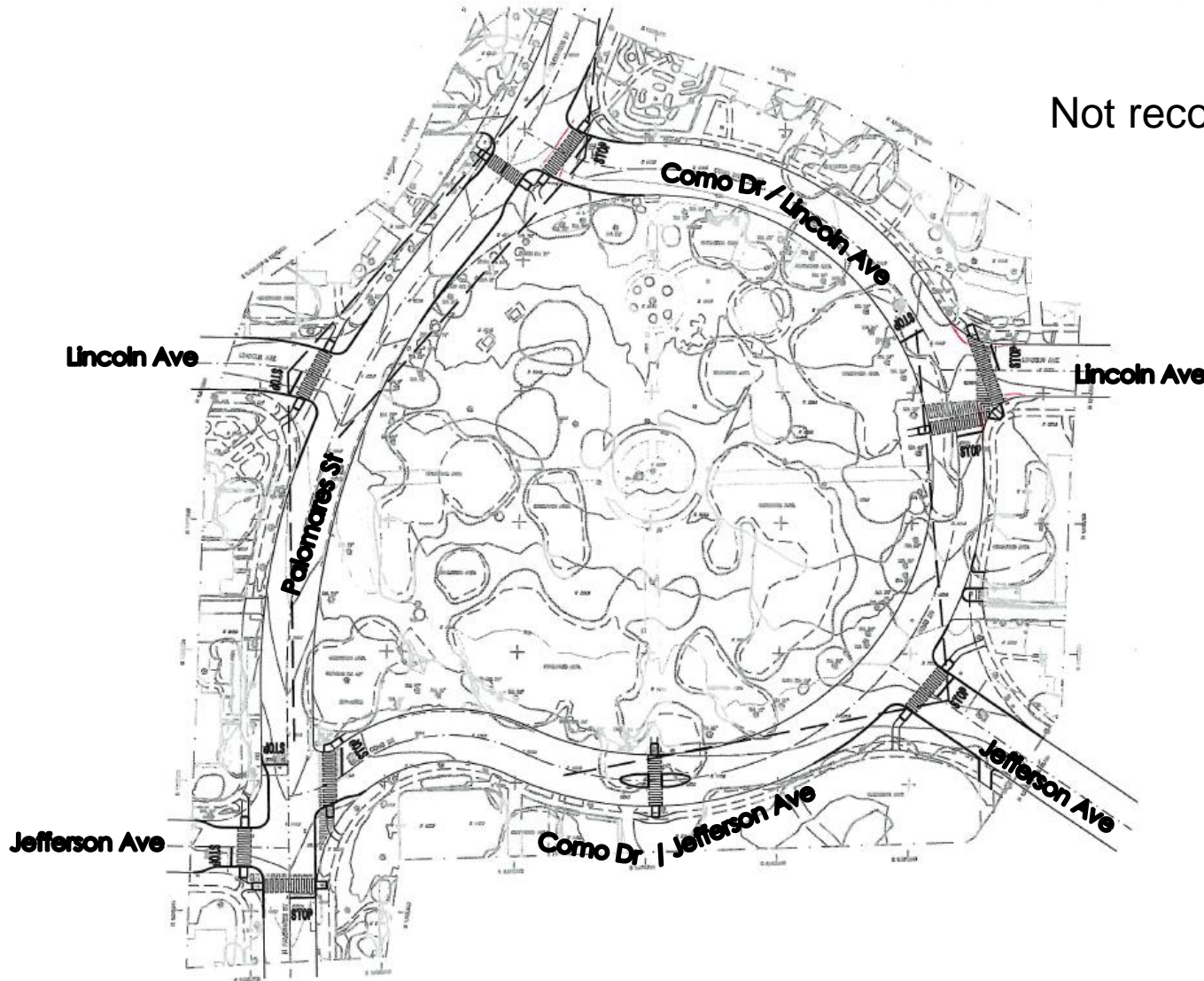
46 DISCOVERY, SUITE 250
IRVINE, CA 92618

(949) 474-1400 TEL
(949) 261-8482 FAX

Design History Iterations

4/18/16

Not recommended



GRAPHIC SCALE



SCALE: 1" = 80'

CITY OF POMONA
LINCOLN PARK
ITERATION 4

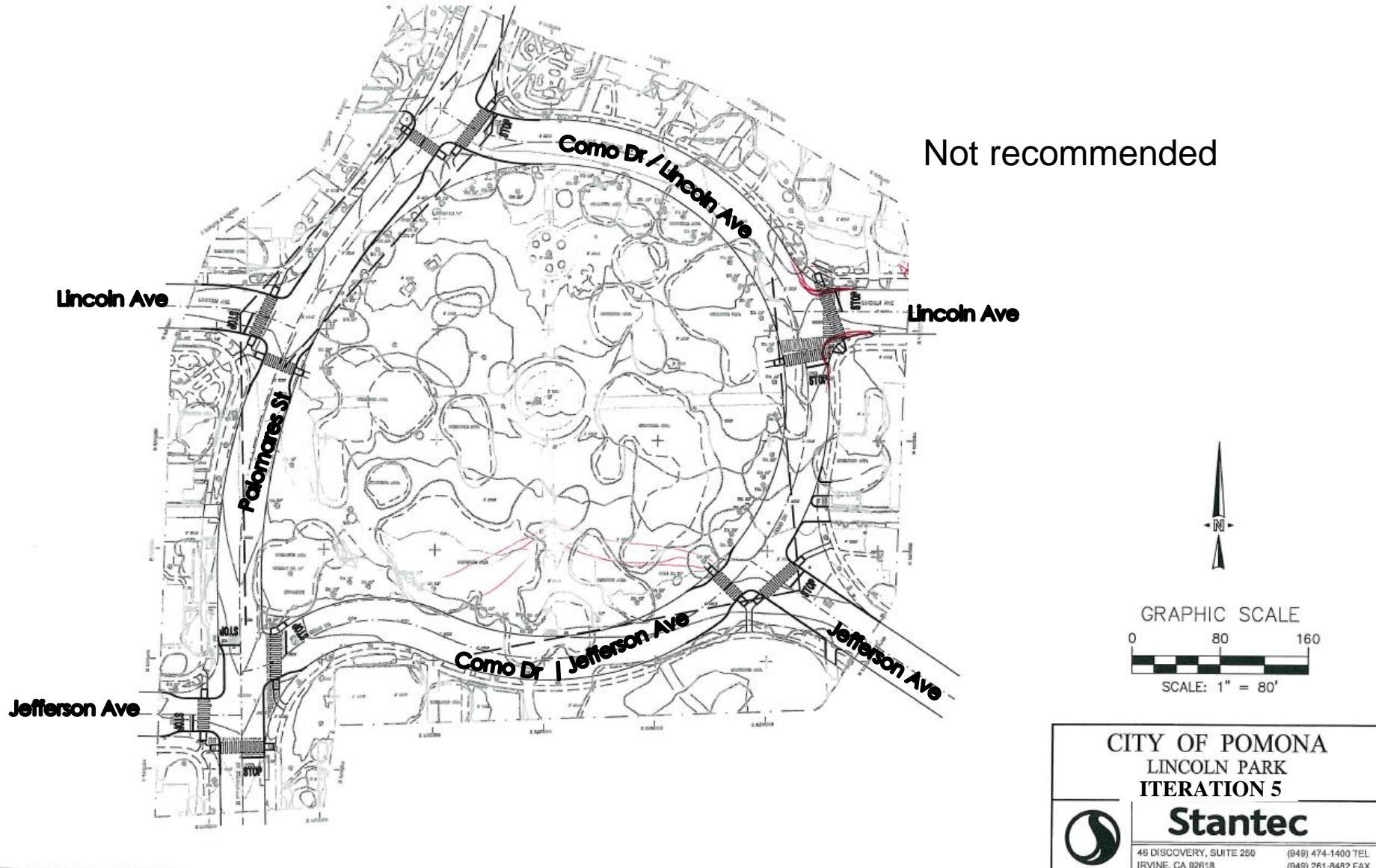


Stantec

46 DISCOVERY, SUITE 250
IRVINE, CA 92618

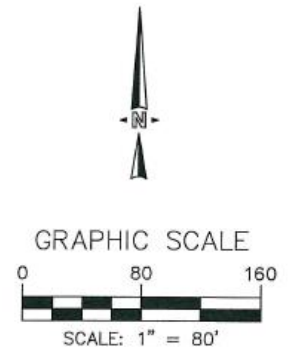
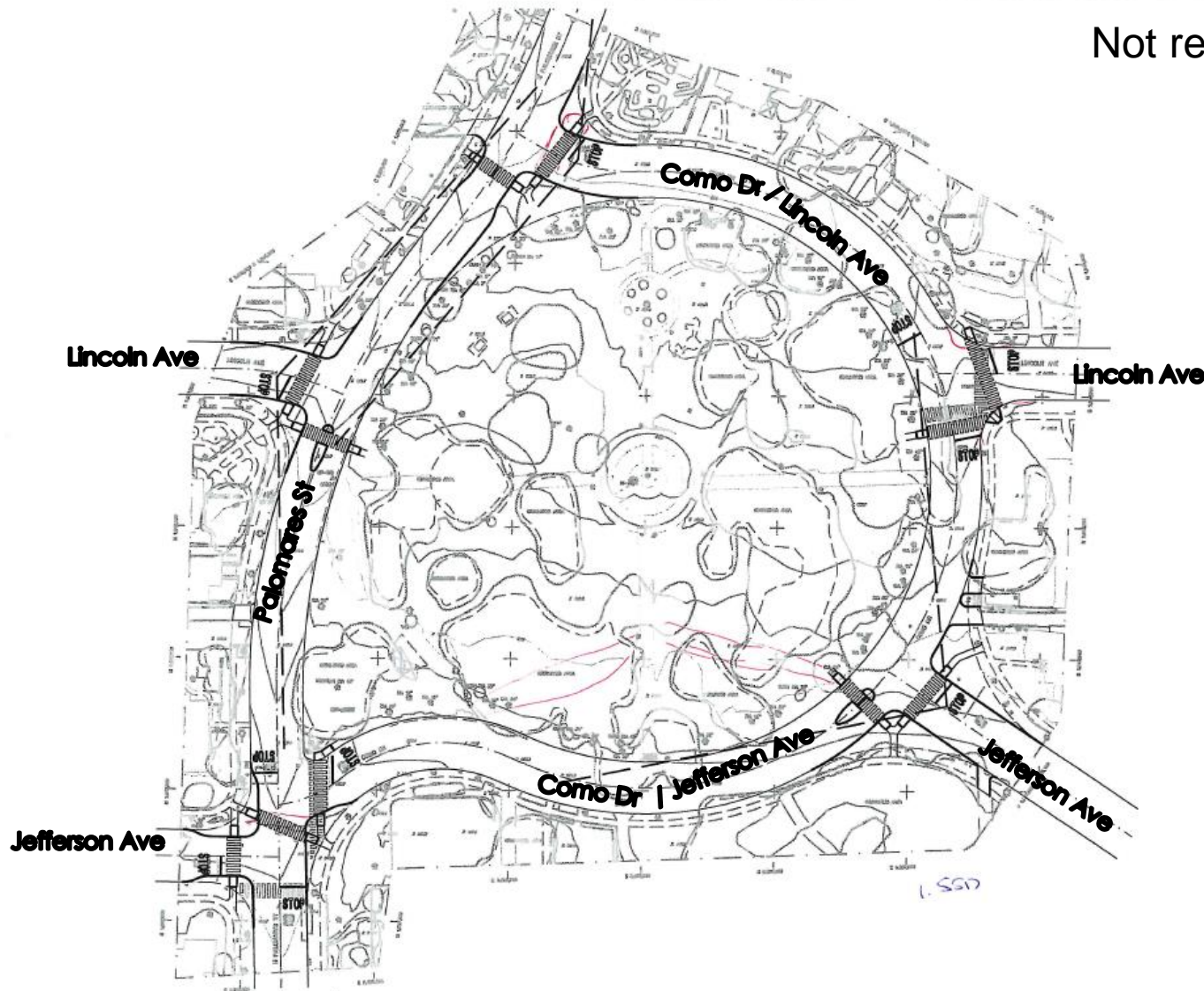
(949) 474-1400 TEL
(949) 261-8482 FAX

Design History Iterations



Design History Iterations

Not recommended



CITY OF POMONA
LINCOLN PARK

ITERATION 6

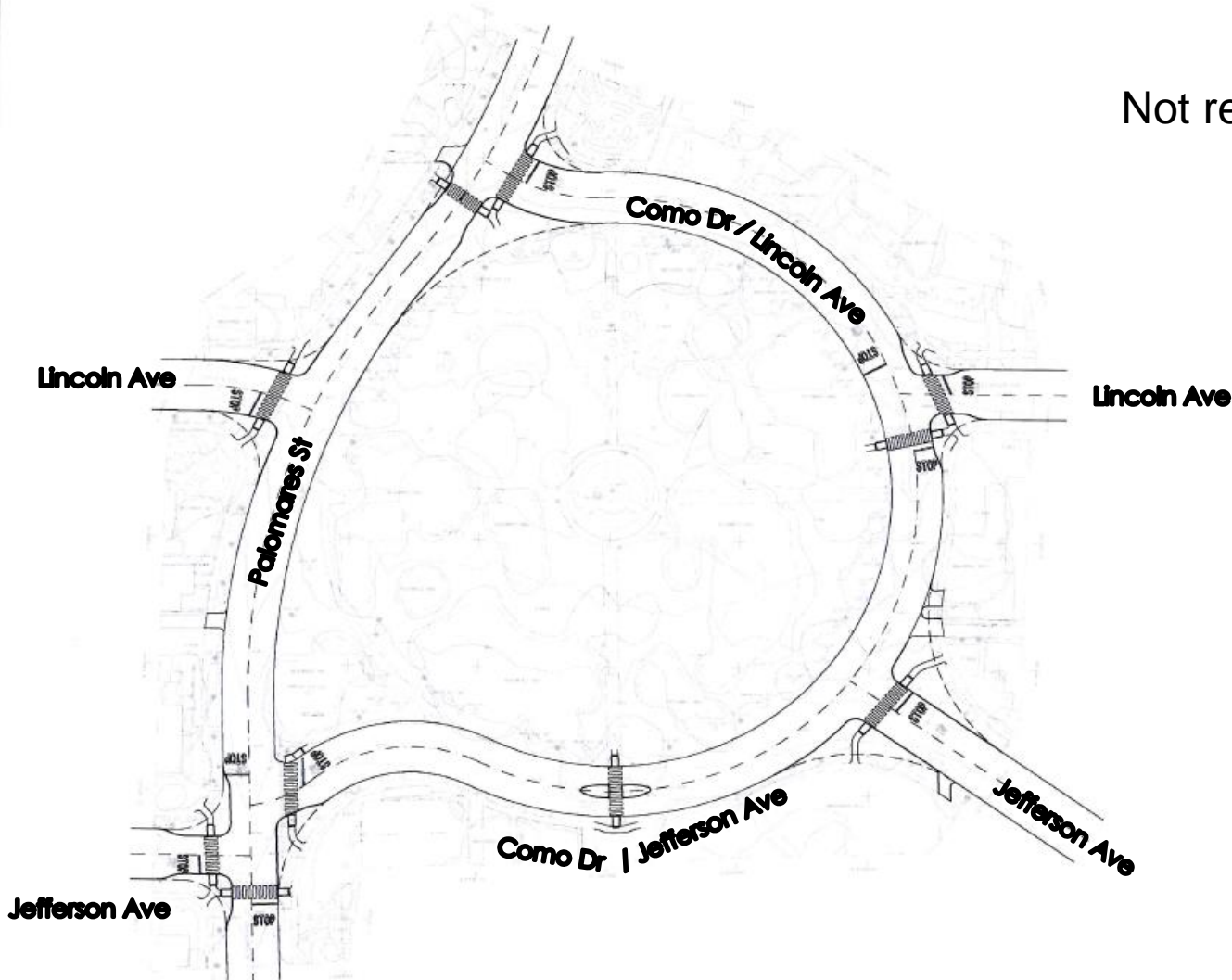
Stantec

46 DISCOVERY, SUITE 250
IRVINE, CA 92618

(949) 474-1400 TEL
(949) 261-8482 FAX

Design History Iterations

Not recommended



CITY OF POMONA
LINCOLN PARK
ITERATION 7



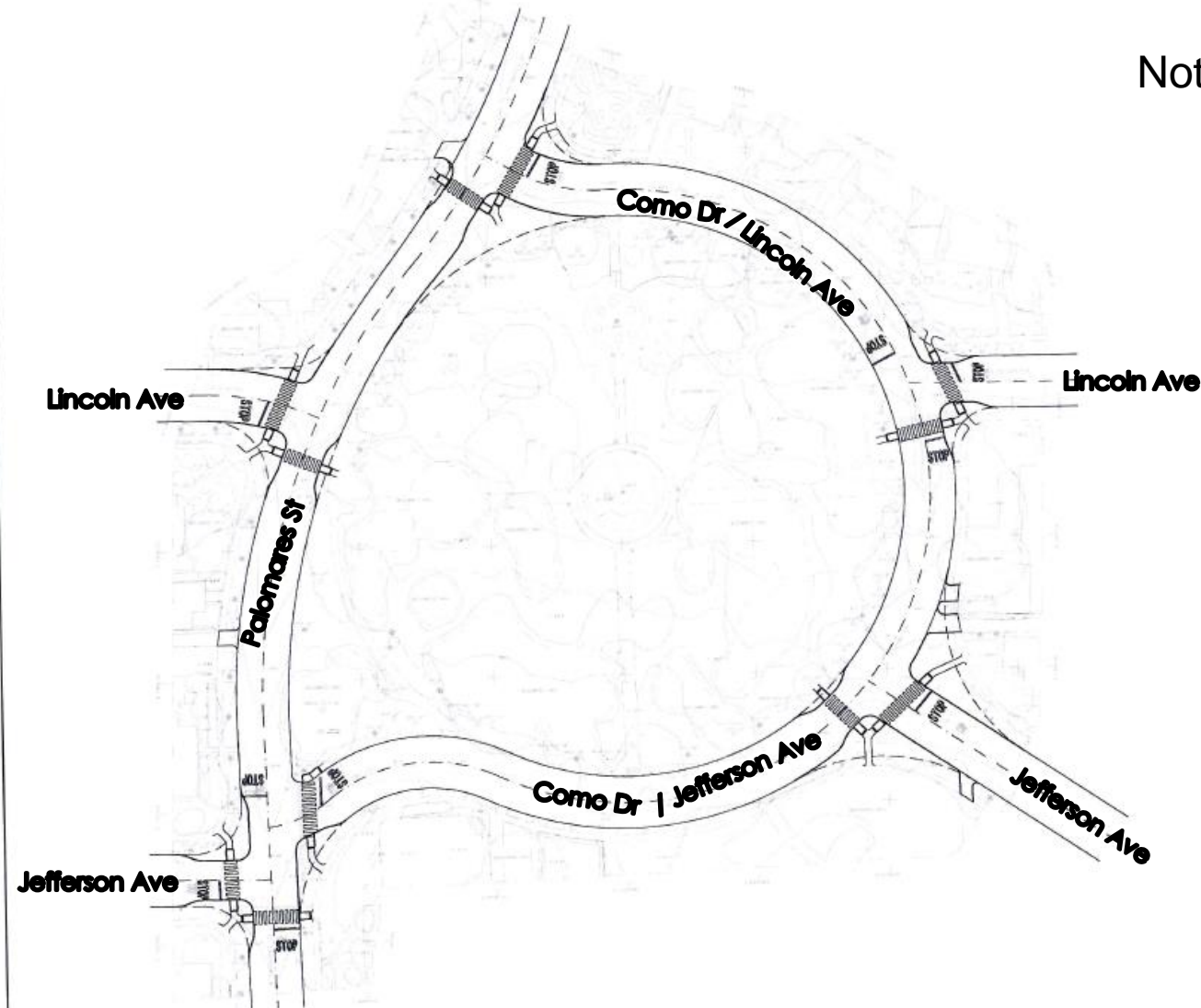
Stantec

46 DISCOVERY, SUITE 250 (949) 474-1400 TEL.
IRVINE, CA 92618 (949) 261-8482 FAX

4/27/16

Design History Iterations

Not recommended



CITY OF POMONA
LINCOLN PARK
ITERATION 8



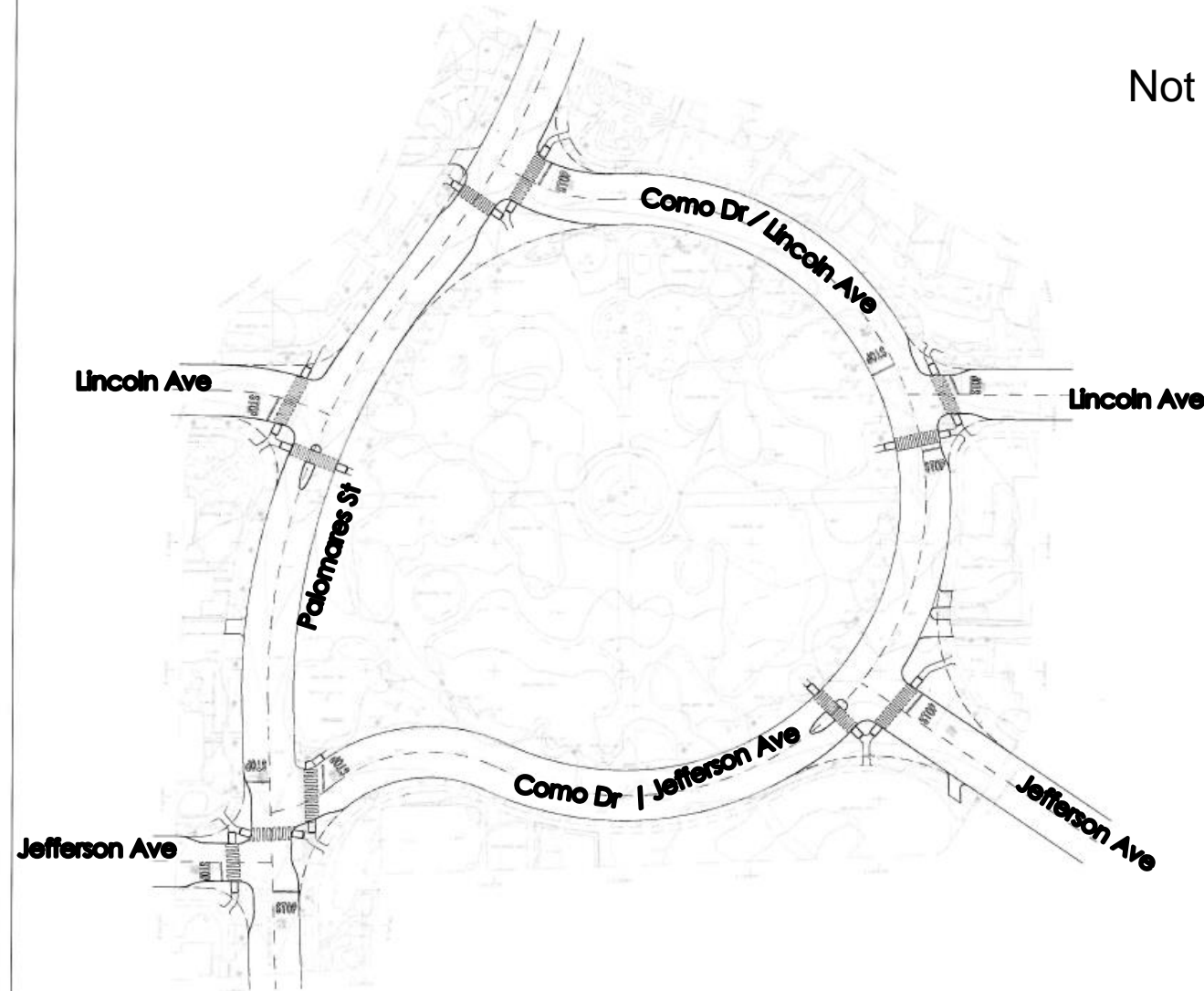
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IRVINE, CA 92618

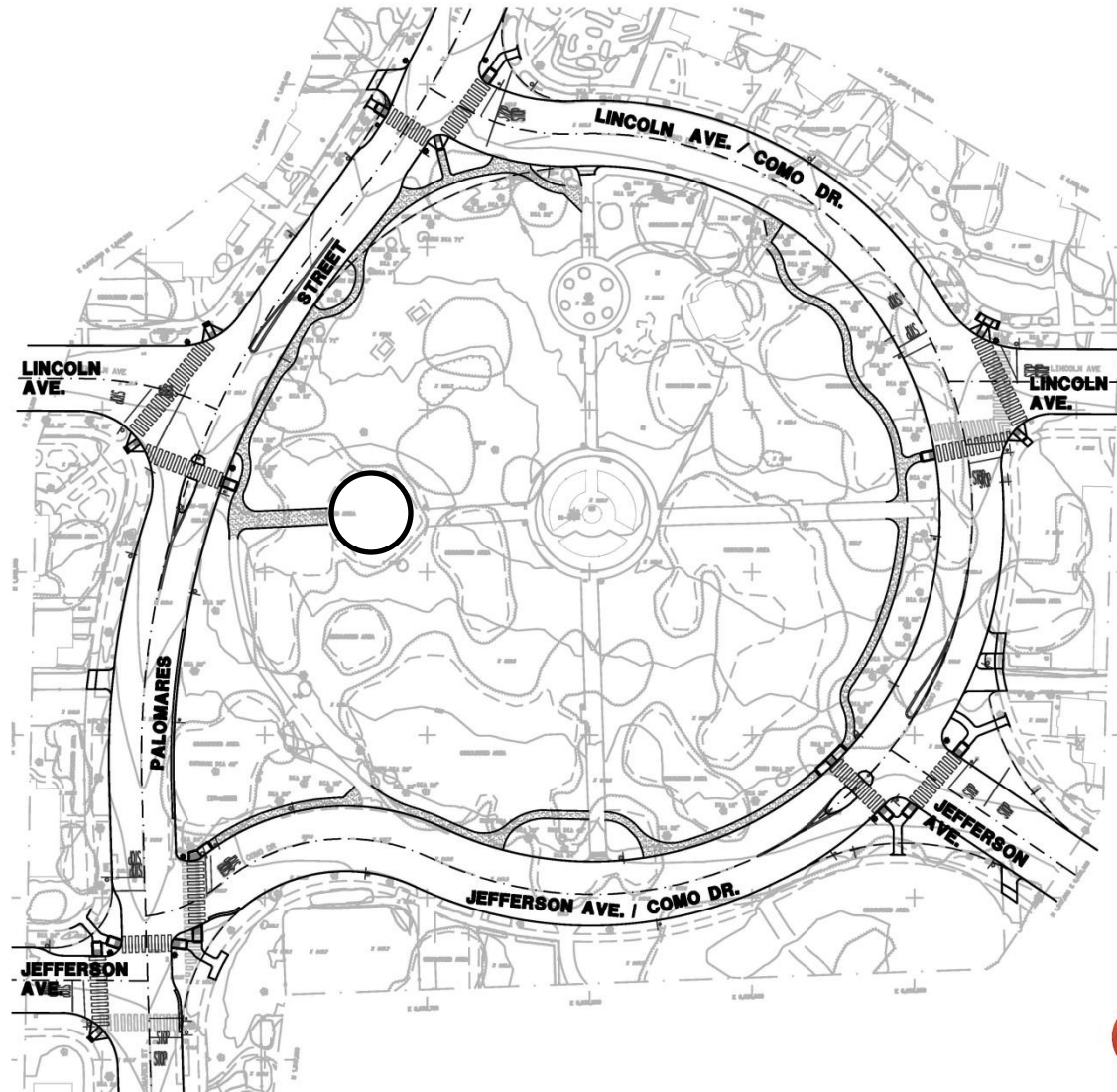
(949) 474-1400 TEL
(949) 261-8482 FAX

Design History Iterations

Not recommended



Civil Engineering Recommended Improvements



Landscape Material Treatments

RECOMMENDED OPTIONS



BRICK
305 GARFIELD AVE.



BRICK
392 LINCOLN AVE.



HITCHING POST
1395 N. PALOMARES ST.

ALTERNATIVE OPTIONS



RIVER ROCK
397 E. KINSLEY AVE.



RIVER ROCK
255 E. JEFFERSON AVE.



CONCRETE MOSAIC
263 GARFIELD AVE.

Landscape Material Treatments

SUCCULENT PLANTING OPTION



AGAVE ATTENUATA



ALOE CAMEERONII



COTYLEDON ORBICULATA



CRASSULACEAE AEONIUM



EUPHORBIA TIRUCALLI



GALVEZIA SPECIOSA



SEDUM RUPESTRE



SENECIO SERPENS

Proposed Improvements



New street lights to match existing lights in Lincoln Park District



Pervious concrete material recommended as alternate at Plaza



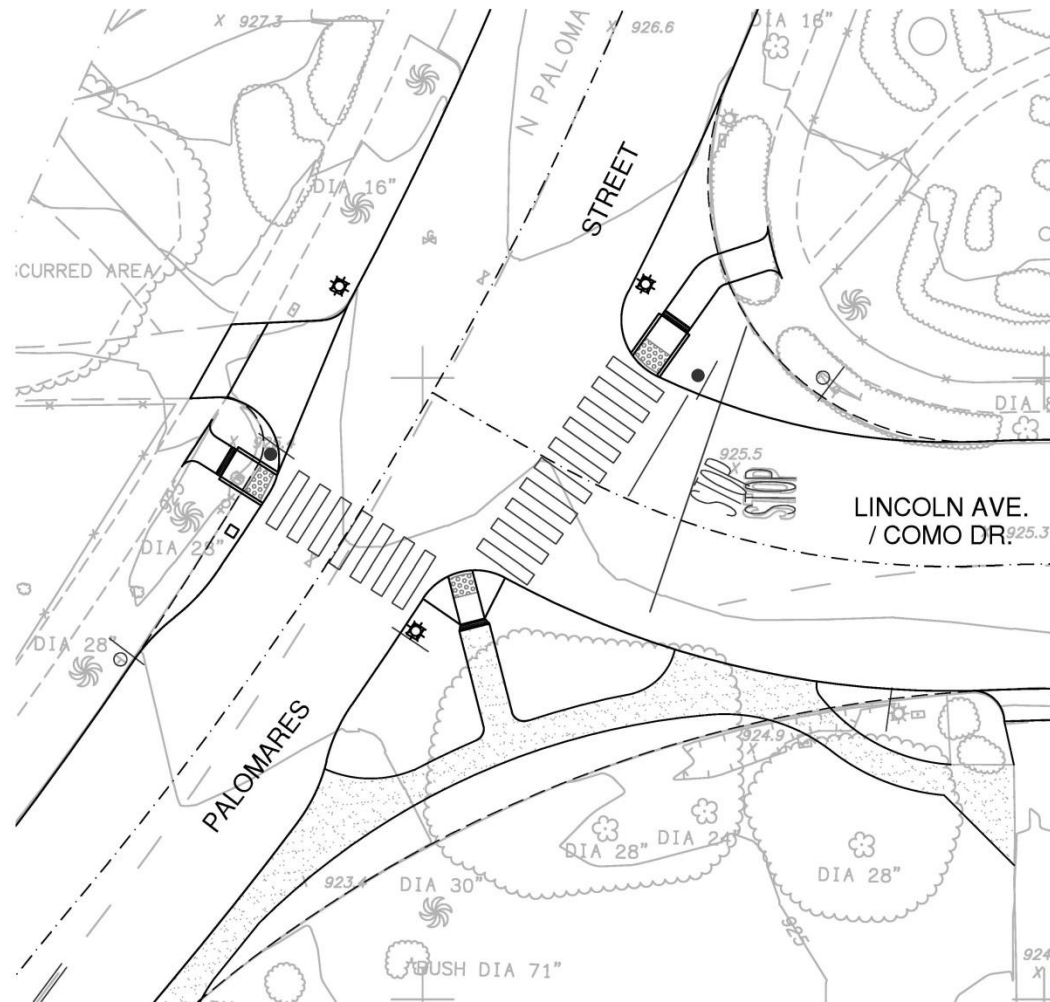
New ADA picnic table

Existing picnic tables



Intersection Improvements- Palomares St. & Lincoln Ave/Como Dr.

*** Not Included with Potential Alternatives 1 & 2



Existing – Palomares St. at Lincoln / Como Dr.



Before

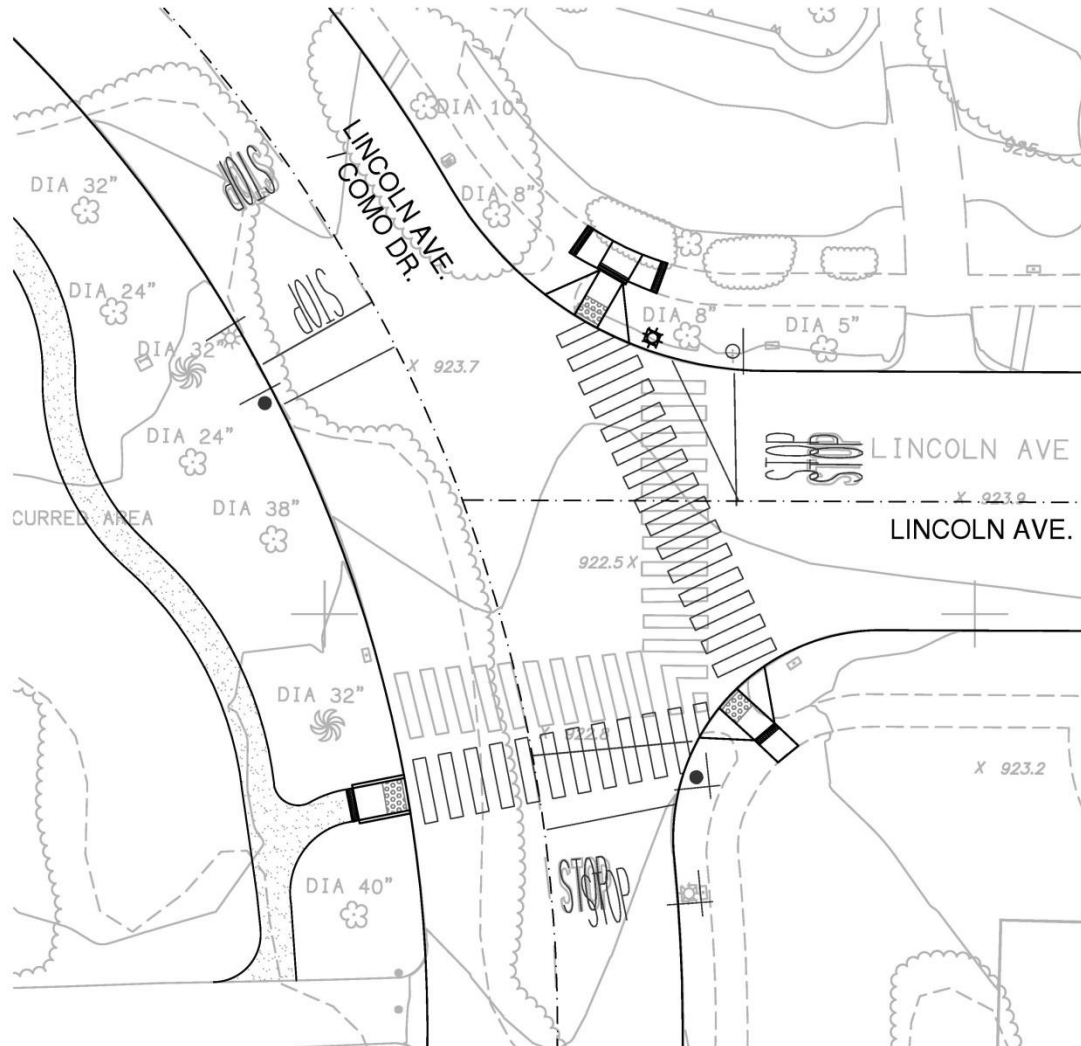
Renderings – Palomares St. at Lincoln / Como Dr.

*** Not Included with Potential Alternatives 1 & 2

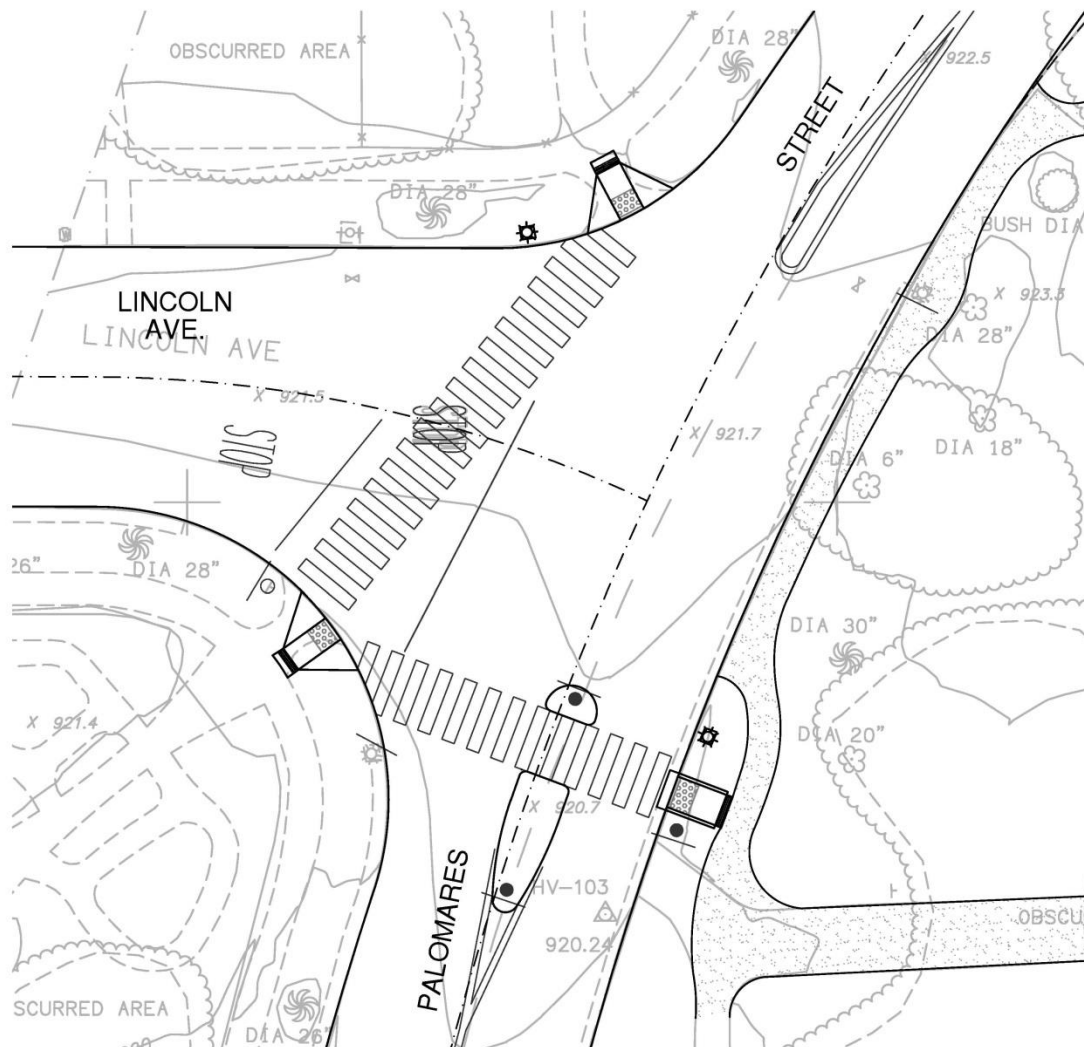


After

Intersection Improvements- Lincoln Ave./Como Dr. & Lincoln Ave. (to E.)



Intersection Improvements- Palomares St. & Lincoln Ave. (to W.)



Existing – Palomares St. at Lincoln Ave.



Before

Renderings – Palomares St. at Lincoln Ave. After

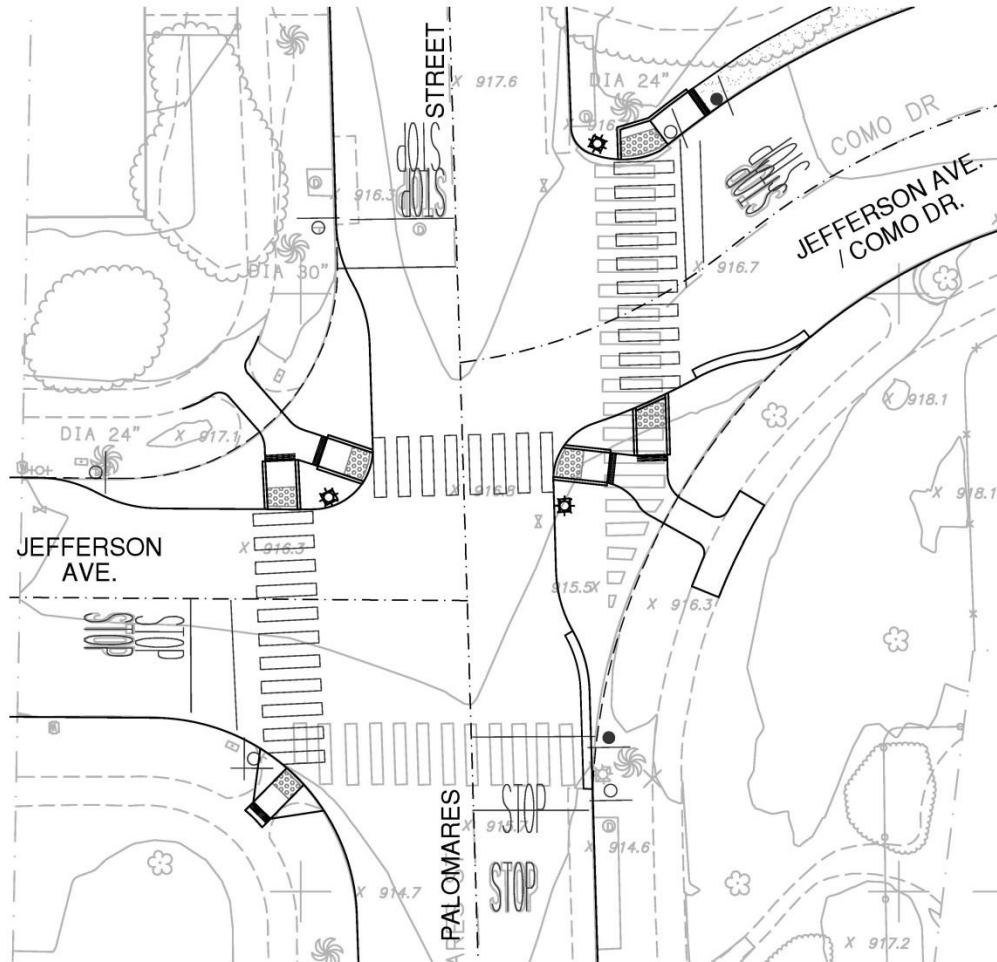


BRICK OPTION

After

Recommended & Alternate 1, Intersection Improvements- Palomares St. & Jefferson Ave./Como Dr.

*** S. X-walk & No Bulb-outs with Potential Alternative 2



Existing – Palomares St. & Jefferson Ave./Como Dr.



Before

Recommended & Alternate 1, Intersection Improvements- Palomares St. & Jefferson Ave./Como Dr.

*** S. X-walk & No Bulb Outs with Potential Alternative 2

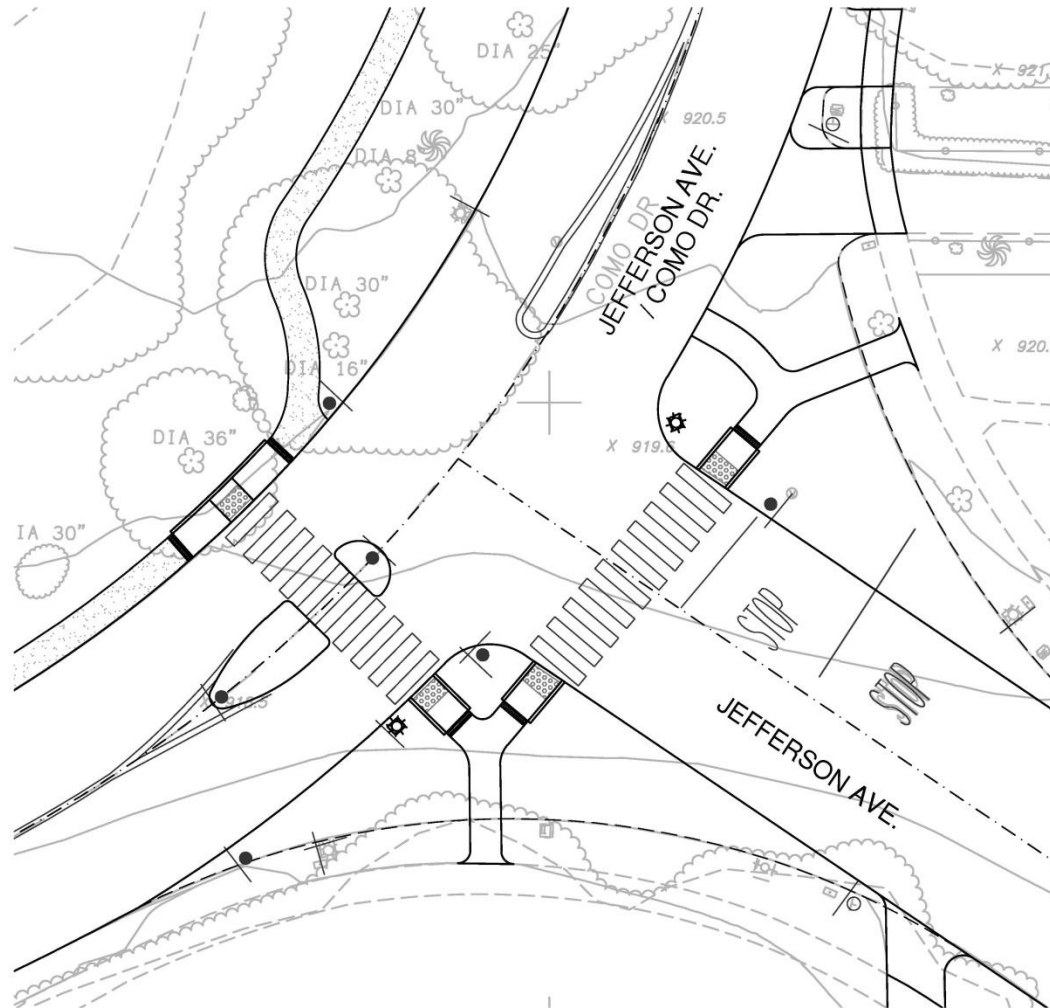


SUCCULENT PLANTING OPTION

After

Intersection Improvements- Jefferson Ave. & Jefferson Ave./Como Dr.

*** Not Included with Potential Alternative 1 & 2



Existing –Jefferson Ave./ Como Dr. & Jefferson Ave.



Before

Renderings –
Jefferson Ave./ Como Dr. & Jefferson Ave.
*** Not Included with Potential Alternative 1 & 2



After

Renderings – Plaza



PLAZA (BEFORE)



PLAZA (AFTER)

Lincoln Park
Berkeley, CA

Renderings – Plaza Planter Wall



PLAZA PLANTER WALL - BEFORE



PLAZA PLANTER WALL - AFTER

- **Improve accessibility to Lincoln Park;**
- **Improve safety at street crossings to and from Lincoln Park;**
- **Materials used for landscaping and pedestrian walkways are consistent with existing material used in the park and surrounding neighborhood (decomposed granite, drought tolerant plants, etc.)**
- **Proposed Alternatives may not be accepted in mediation.**

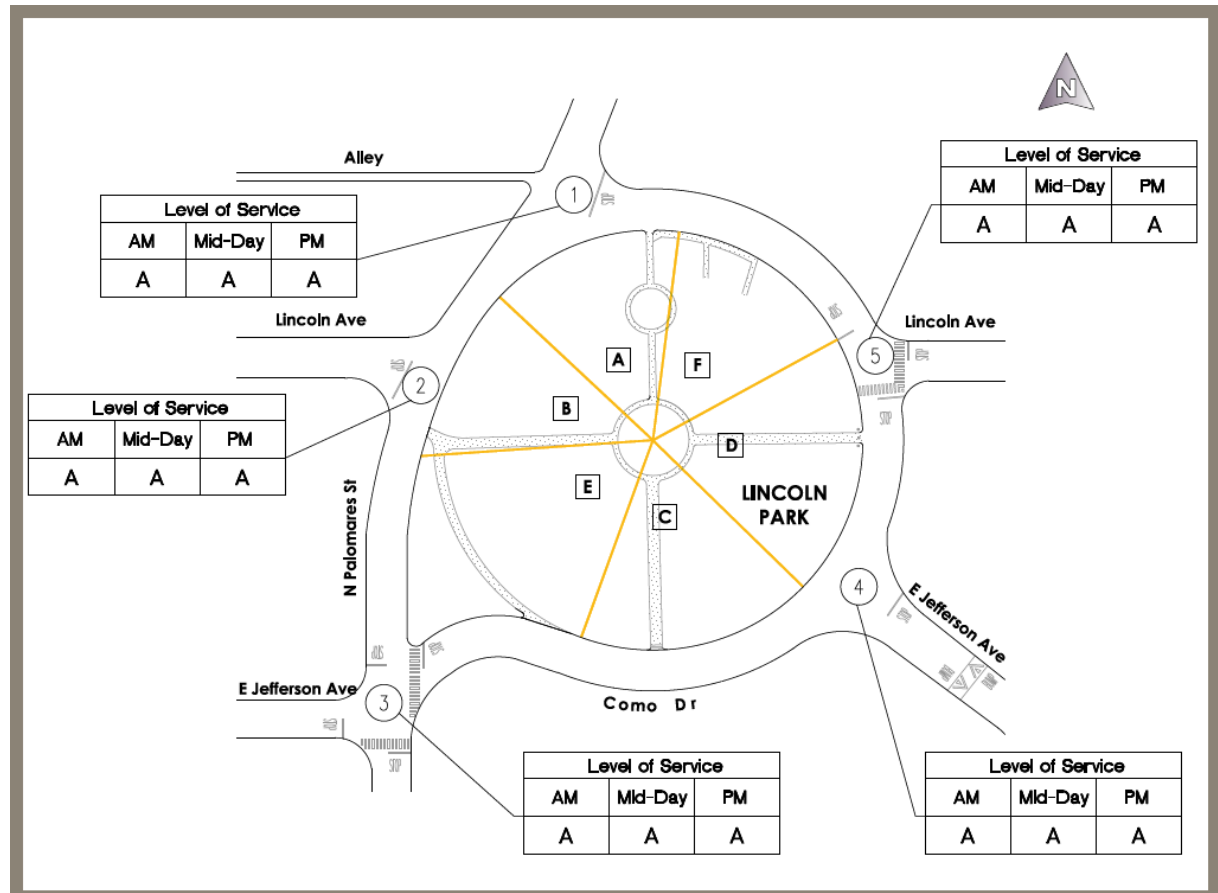
Recommendation

Staff recommends that the Historic Preservation Commission approve Major Certificate of Appropriateness (MAJCOA 5720-2016) to allow the proposed ADA accessibility improvements to Lincoln Park and surrounding street intersections.

Traffic Study

Existing Saturday Peak Hour Intersection Level of Service (LOS)

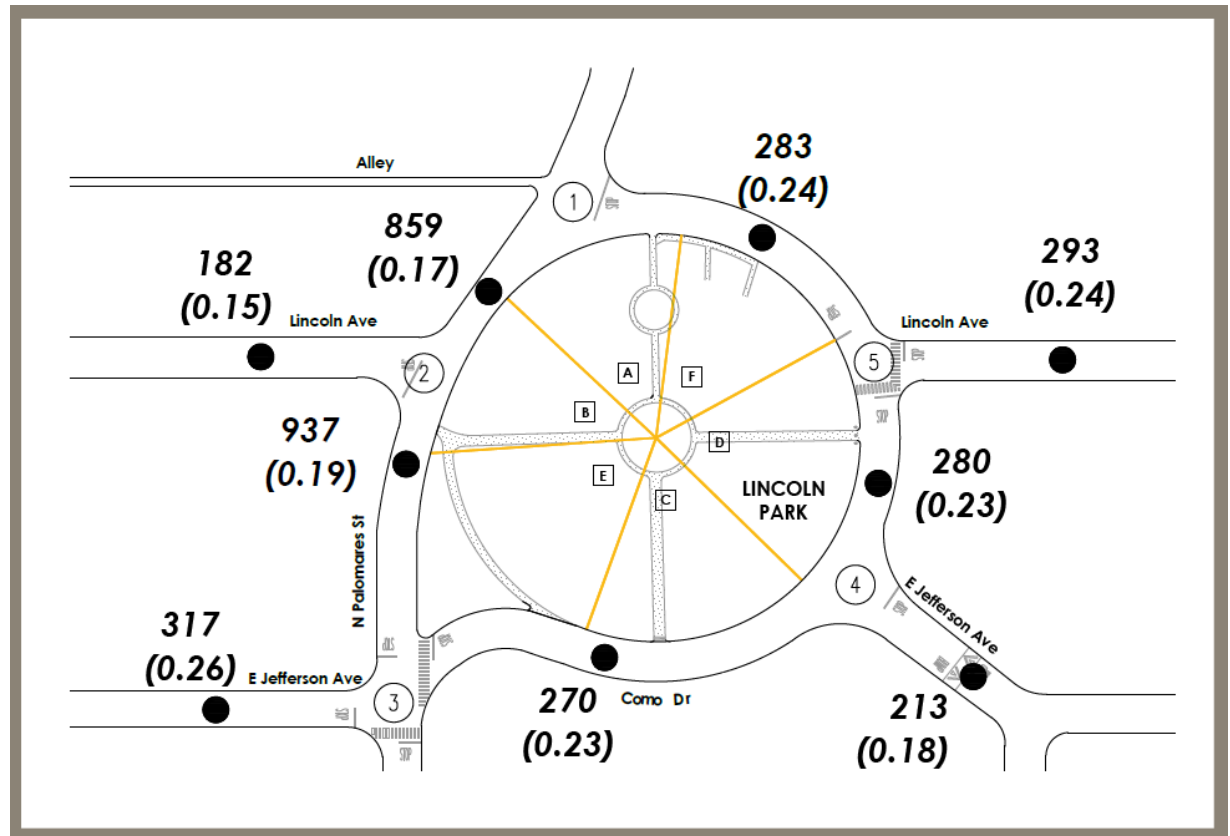
- All intersections exceeding required LOS criteria (LOS D)
- All intersections operating at highly desirable LOS A in peak hours
- Proposed improvements have no significant impact on intersection operation



Traffic Study

Existing Saturday 24-Hour Roadway Volumes and VC Ratios

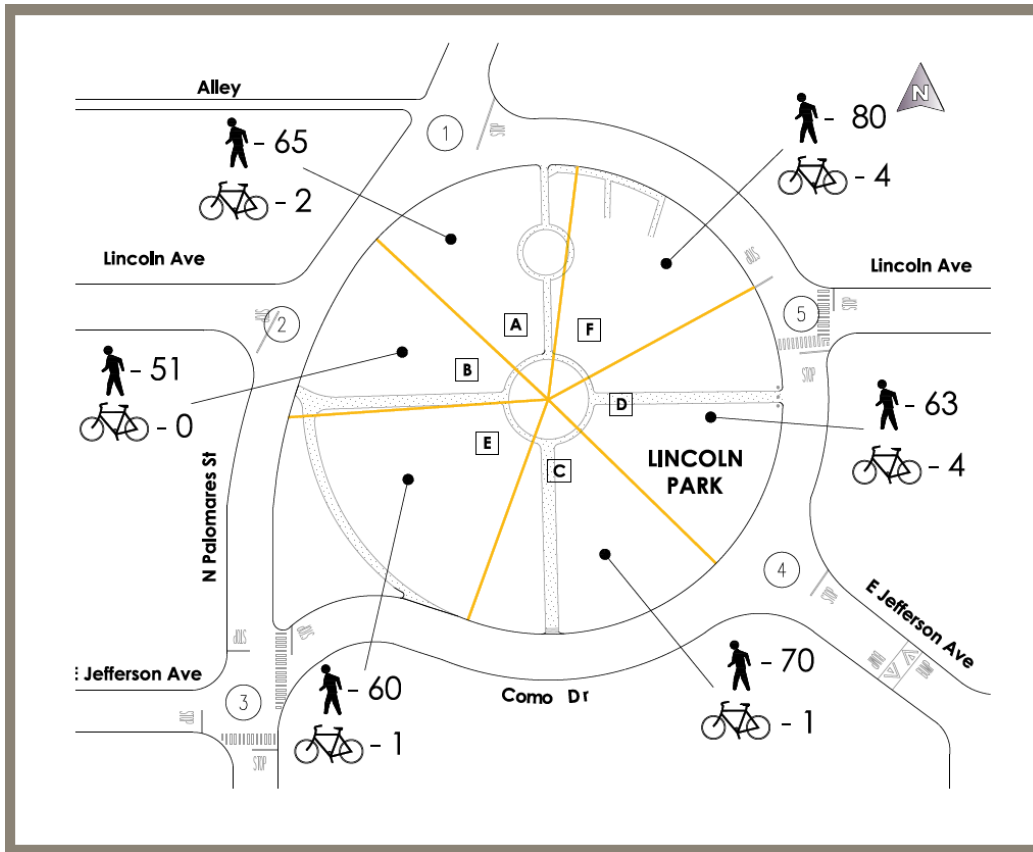
- All roadways operate below 24-hour capacity
- All roadways have LOS A based on 24-hour capacity
- No significant capacity impacts due to proposed improvements



Traffic Study

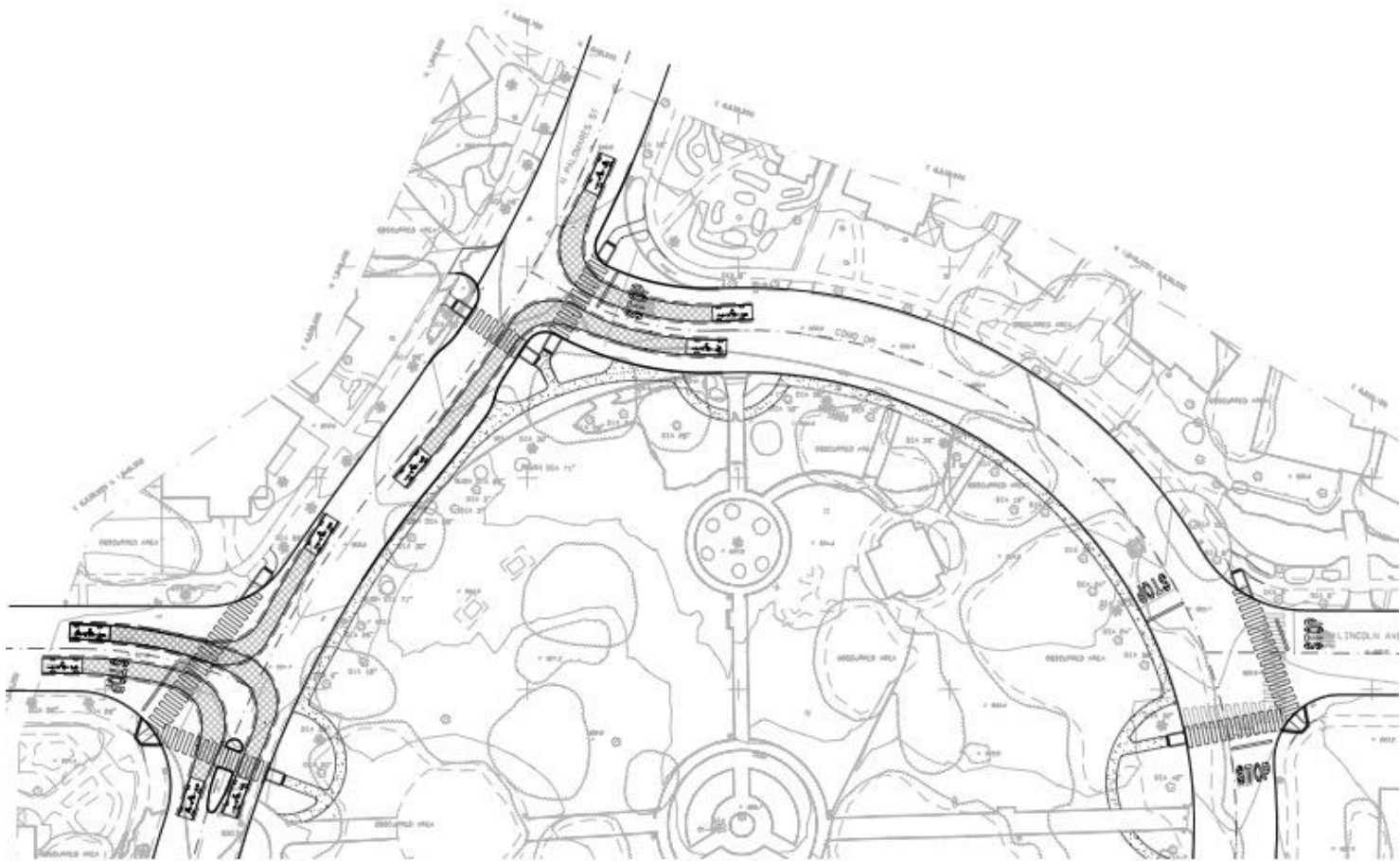
Existing Pedestrian and Bicycle Volumes

Saturday 7am-6pm

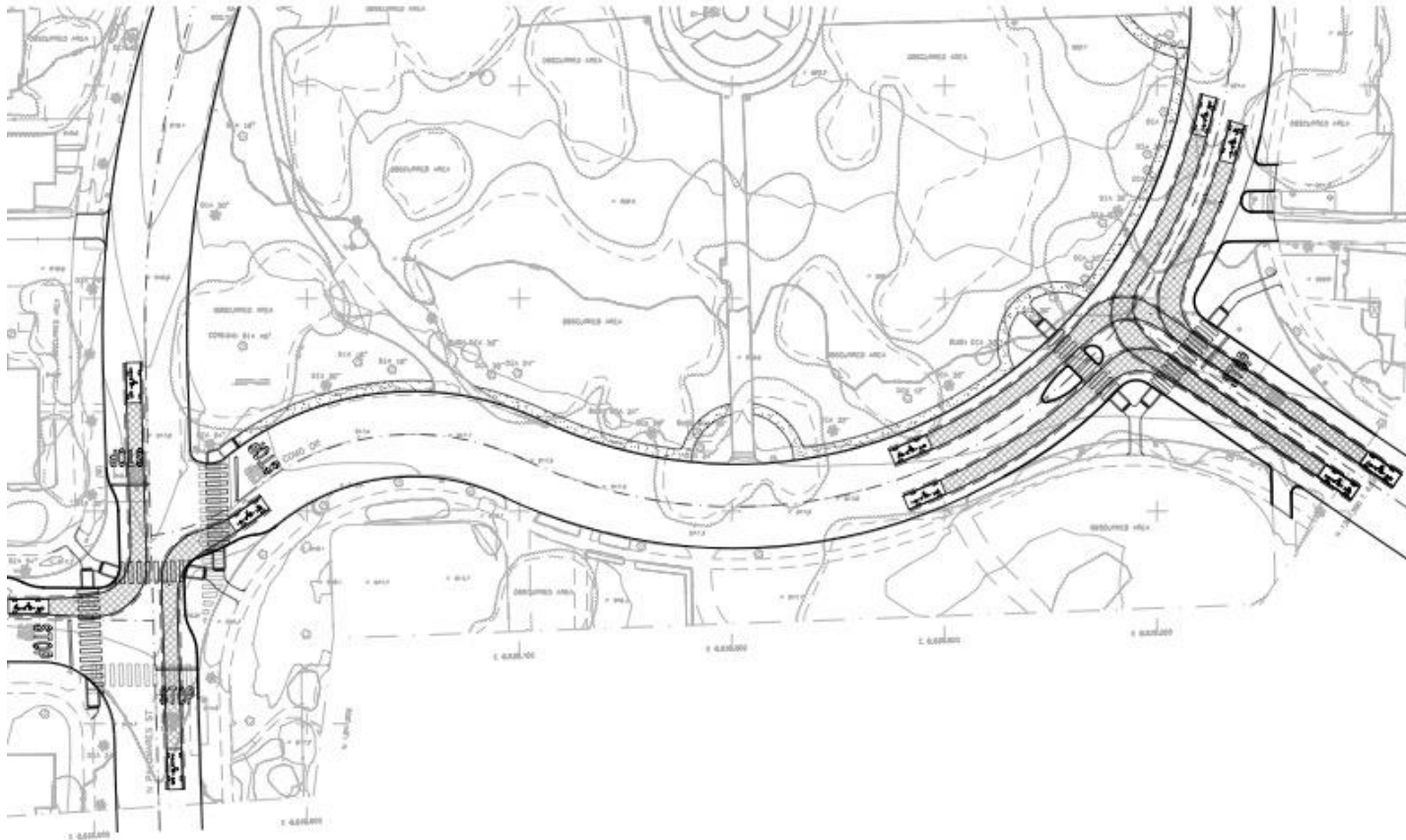


- Over 400 bikes/pedestrians per day
- Bikes/pedestrians uniformly distributed
- Joggers use park perimeter

Turning Movements



Turning Movements





CITY OF POMONA PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION CONSTRUCTION PLANS FOR LINCOLN PARK IMPROVEMENTS PROJECT NO. 428-81055

GENERAL NOTES:

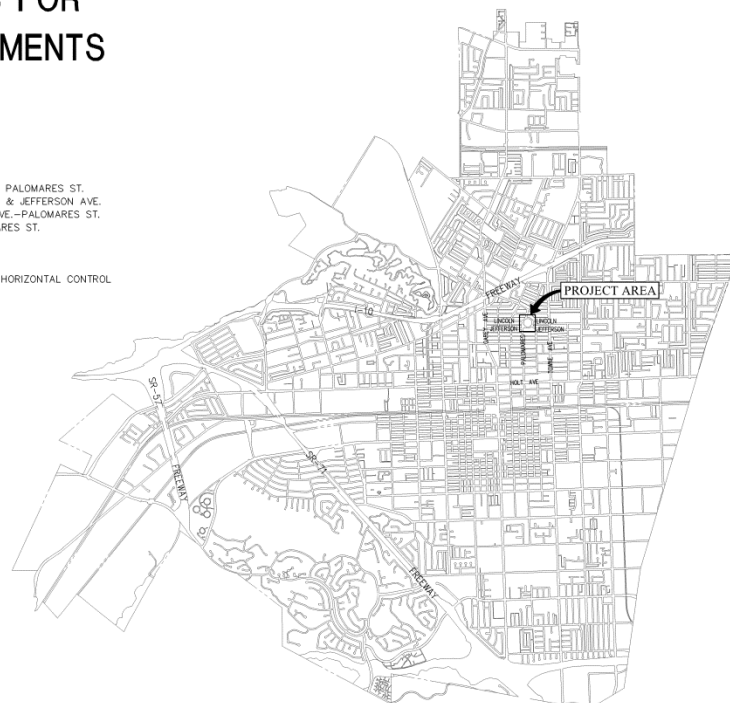
1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE GREENBOOK) STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (A.P.W.A. STANDARDS) AND STANDARDS OF THE CITY OF POMONA PUBLIC WORKS DEPARTMENT.
2. APPLICATION FOR EXCAVATION AND INSPECTION IN CONNECTION WITH WORK SHOWN ON THIS PLAN MUST BE MADE BY THE CONTRACTOR AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO STARTING ANY WORK.
3. WORK IN PUBLIC STREETS ONCE BEGUN SHALL BE PROSECUTED WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND THE TRAVELING PUBLIC.
4. TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE CALIFORNIA MUTCD.
5. CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AT ALL TIMES.
6. CONTRACTOR SHALL PROTECT EXISTING IRRIGATION LINES AND SPRINKLER HEADS BEHIND EXISTING CURB. THE CONTRACTOR SHALL REPLACE ANY DAMAGED LINES AND SPRINKLER HEADS AT HIS OWN EXPENSE.
7. CONTRACTOR SHALL REPLACE TRAFFIC STRIPES, LEGENDS, LOOP DETECTORS AND MARKINGS DAMAGED DURING THE CONSTRUCTION OF THIS PROJECT. TRAFFIC STRIPES, PAYMENT LEGENDS, RAISED PAYMENT MARKINGS AND LOOP DETECTORS SHALL BE PER THE 2010 CALIFORNIA MUTCD, CALTRANS STANDARD PLANS AND CALTRANS STANDARD SPECIFICATIONS 34, 35, AND 36, LATEST EDITION.
8. REFLECTORIZED ASL STRIPES AND LEGENDS, PAYMENT MARKINGS SHALL BE THERMOPLASTIC AND SHALL MATCH CITY STENCILS, OR CALTRANS STANDARDS.
9. TRAFFIC STRIPES AND MARKINGS SHALL BE THERMOPLASTIC.
10. STRIPING SHALL BE CAT-TRACKED AND APPROVED BY THE CITY TRAFFIC ENGINEER PRIOR TO FINAL INSTALLATION.
11. CONTRACTOR SHALL RE-STRIP EXISTING STRIPING, MARKING ALL INTERSECTING AND JOINING STREETS WITHIN 100' OF LIMITS OF PROJECT.
12. TYPE DB 2-WAY BLUE REFLECTIVE MARKERS SHALL BE INSTALLED ADJACENT TO EXISTING FIRE HYDRANTS WITHIN THE LIMITS OF CONSTRUCTION PER STATE AND CITY STANDARDS.
13. AS BUILTS OF THE COMPLETED PROJECT SHALL BE SUBMITTED FOR APPROVAL OF THE CITY ENGINEER.
14. CONTRACTOR SHALL NOTIFY ALL AFFECTED RESIDENCES IN WRITING AT LEAST TWO (2) FULL WORKING DAYS BEFORE ANY START OF CONSTRUCTION AS SPECIFIED.
15. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (UGA ALERT) AT 811, TWO (2) FULL WORKING DAYS PRIOR TO START OF WORK. THE CONTRACTOR MUST OBTAIN AND MAINTAIN VALUE DUG ALERT REFERENCE NUMBER THROUGHOUT THE LIFE OF THE PROJECT AS NECESSARY FOR CONSTRUCTION.
16. CONTRACTOR SHALL PROJECT ALL CENTERLINE SURVEY MONUMENT AND CENTERLINE TIES AS SPECIFIED.
17. EXISTING STRIPES AND MARKINGS TO BE REMOVED SHALL BE DONE BY NET SANDBLASTING.
18. THE LOCATION OF EXISTING UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
19. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES (BMP'S) TO CONTROL EROSION AND SEDIMENT AND PRESERVE WATER QUALITY TO THE MAXIMUM EXTENT POSSIBLE.
20. THE CITY OF POMONA WILL USE CORBELSTONE AND DECOMPOSED GRANITE (DG) WITHIN THE BUILT-OUT AREAS AS AN ALTERNATE LANDSCAPE MATERIAL FOR THE PROJECT IN THE EVENT THAT A RESIDENT DOES NOT REACH AN AGREEMENT WITH THE CITY FOR THEIR REQUESTED LANDSCAPE MATERIAL, OR DOES NOT PROVIDE THE NECESSARY RIGHT OF ENTRY.

ABBREVIATIONS & SYMBOLS

STREET LIGHT	RETAIN.	RETAINING
FIRE HYDRANT	INV.	INVERT
MANHOLE	PROP.	PROPOSED
WATER VALVE	HSRZ	HORIZONTAL
SIN	VERT.	VERTICAL
TREE	EX	EXISTING
SEWER	EXST.	EXISTING
WATER	DWG	DRAWING
STORM DRAIN	DWY	DRIVEWAY
GAS	TEL.	TELEPHONE
GAS VALVE	ELECT.	ELECTRICAL
ELECTRIC PULL BOX	NO.	NUMBER
ELECTRIC VAULT	CONG.	CONCRETE
DETECTOR CHECK	STD.	STANDARD
TELEPHONE	FT.	FEET
STREET LIGHT PULL BOX	ST.	STREET
FIRE HYDRANT	AB	AGGREGATE BASE
VENT PIPE	DEPT.	DEPARTMENT
TRAFFIC LIGHT	PROJ.	PROJECT
TRAFFIC CONTROL PULL BOX	VCP	VITRIFIED CLAY PIPE
WATER METER	ECR	END CURB RADIUS
MAIL BOX	L	LENGTH
PARKWAY DRAIN	BOP	BOTTOM OF PIPE
CATCH BASIN	TOP	TOP OF PIPE
PLASTER	GB	GRADE BRAKE
GATE POST	R/W	RIGHT OF WAY
CURB FACE	BW	BACK OF WALK
MAX. MAXIMUM	PT.	POINT
FINISH SURFACE	FS	CATV
FLOW LINE	FL	LATERAL
TOP OF CURB	JL	JUNCTION STRUCTURE
NORTH EAST CORNER	BC	BEGINNING CURVE
BEIG. BEIG. CURB RADIUS	END OF CURVE	END OF CURVE
HT. HEIGHT	ARMH	ASPHALT RUBBER HOT MIX
REINFORCED CONCRETE PIPE	QD	GAP GRADED
TC. TRAFFIC CONTROL (ABOVE GROUND)		
PSI. POUNDS PER SQUARE INCH		
PCC. PORTLAND CEMENT CONCRETE		

SHEET INDEX

- 1 TITLE SHEET & GENERAL NOTES
- 2 INDEX MAP, TYPICAL SECTIONS AND QUANTITIES
- 3 DETAIL PLAN - INTERSECTION OF LINCOLN AVE./COMO DR. & PALOMARES ST.
- 4 DETAIL PLAN - INTERSECTION OF JEFFERSON AVE./COMO DR. & JEFFERSON AVE.
- 5 DETAIL PLANS - INTERSECTIONS OF COMO DR.-JEFFERSON AVE.-PALOMARES ST.
- 6 DETAIL PLANS - INTERSECTIONS OF LINCOLN AVE. & PALOMARES ST.
- 7 CURB RAMP DETAILS
- 8 CURB RAMP DETAILS
- 9 SIGNING AND STRIPING PLAN
- 10 PAVEMENT REHAB, SIDEWALK & CURB REPAIR AND DG PATH HORIZONTAL CONTROL
- LI-01 IRRIGATION PLAN
- LI-02 SPARE
- LI-03 IRRIGATION LEGEND AND NOTES
- LI-04 IRRIGATION DETAIL
- LP-01 PLANTING REFERENCE PLAN
- LP-02 SPARE
- LP-03 SPARE
- ST-01 SPARE
- ST-02 SPARE
- ST-03 SPARE



VICINITY MAP

N.T.S.

APPROVED BY:	
FIRE DEPARTMENT LEONARD WILSON - (909) 620-2402	SIGNATURE DATE
P/W-PUBLIC SERVICES JERRY TROTT - (909) 620-2402	SIGNATURE DATE
WATER WASTE WATER OPERATIONS RAUL GABRY - (909) 620-2239	SIGNATURE DATE
P/W-TRANSPORTATION & DEVELOPMENT DIVISION BOB CHAN - (909) 620-2206	SIGNATURE DATE
P/W-ENVIRONMENTAL JULIE CARVER - (909) 620-3628 (UNAVAILABLE: MON, WED. 7:30 A.M. TO 11:30 A.M. AT PUBLIC WORKS COUNCIL)	SIGNATURE DATE

ACCEPTED BY	
N.T.S.	
BY: PUBLIC WORKS DIRECTOR	DATE:
RECOMMENDED	
BY: RENE GUERRERO, P.E., REC. NO. 66263, CITY ENGINEER	DATE:

CITY OF POMONA PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION LINCOLN PARK IMPROVEMENTS TITLE SHEET & GENERAL NOTES

SCALE	DESIGNED: <u>AL</u>	Sht. 1
	DRAWN: <u>AL</u>	
	CHECKED: <u>CP</u>	
	REVIEWED: <u>CP</u>	
	REVIEWED (CONST.): <u>CP</u>	17 SHTS



SECTION 05.00 OF THE GOVERNMENT CODE REQUIRES A QUALITY INSPECTION BEFORE ANY WORK BEGINS. A "WARRANTY TO EXISTENCE" WILL BE GIVEN FOR YOUR QUALITY. IF A MAJOR CALL OR INSPECTION SERVICE ALERT TYPICAL FIRST TWO WORKING DAYS BEFORE YOU DO.

CAUTION: REMEMBER THAT THE SEAL CENTER NOTICES ONLY TRAVEL UTILITIES BELONGING TO THE CENTER. THERE COULD BE OTHER UTILITIES PRESENT AT THE WORK SITE. THE CENTER WILL NOTIFY YOU OF HOW THEY WILL NOTIFY.

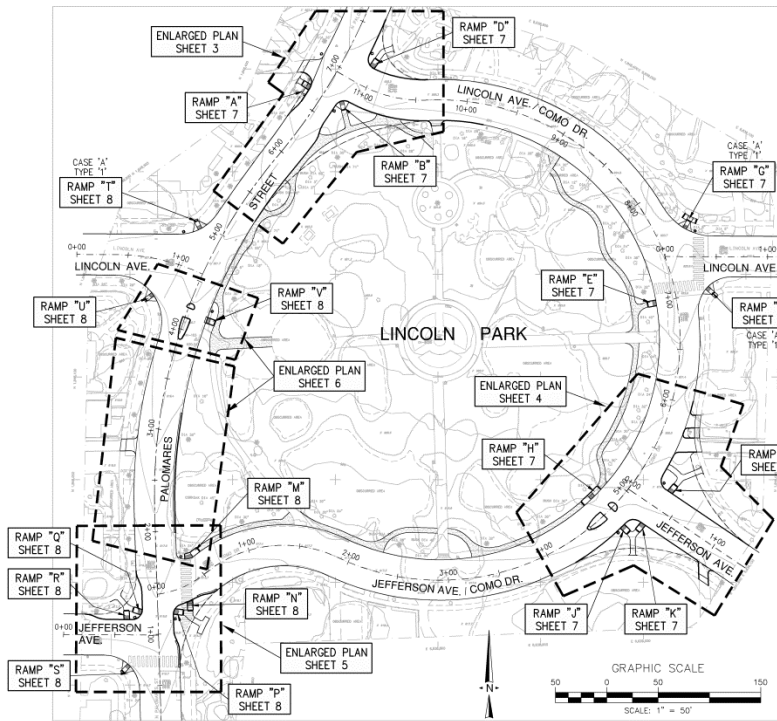


PLANS PREPARED BY:



REVISION	DATE	BY
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Plan Number



PALOMARES ST. - CONSTRUCTION CENTERLINE					
DESCRIPTION	STATION	LENGTH	DELTA OR BEARING	RADIUS	TANGENT
BEGIN ALIGNMENT	0+00.00	221.90	N 01°43'17" W		
BC	2+21.90	372.15	41°48'34"	510.00	194.80
PRC	5+94.05	215.56	21°40'01"	570.00	109.08
END ALIGNMENT	8+09.61				

COMO DR. - CONSTRUCTION CENTERLINE					
DESCRIPTION	STATION	LENGTH	DELTA OR BEARING	RADIUS	TANGENT
PALOMARES ST. (1+36.92) INT.	0+00.00	50.92	32°25'09"	90.00	26.16
PRC	0+50.92	137.15	64°56'39"	121.00	77.00
PRC	1+88.07	849.46	207°59'39"	234.00	936.73
EC	10+37.54	73.98	32°36'25"	130.00	36.02
PALOMARES ST. (6+94.94) INT.	11+32.83	21.31	N 60°03'08" W		

JEFFERSON AVE. (W) - CONSTRUCTION CENTERLINE					
DESCRIPTION	STATION	LENGTH	DELTA OR BEARING	RADIUS	TANGENT
BEGIN ALIGNMENT	0+00.00	92.47	S 89°35'10" E		
PALOMARES ST. (0+99.13) INT.	0+92.47				

LINCOLN AVE. (W) - CONSTRUCTION CENTERLINE					
DESCRIPTION	STATION	LENGTH	DELTA OR BEARING	RADIUS	TANGENT
BEGIN ALIGNMENT	0+00.00	37.89	S 89°48'20" E		
BC	0+37.89	87.38	25°02'01"	200.00	44.40
PALOMARES ST. (4+57.53) INT.	1+25.27				

JEFFERSON AVE. (E) - CONSTRUCTION CENTERLINE					
DESCRIPTION	STATION	LENGTH	DELTA OR BEARING	RADIUS	TANGENT
COMO DR. (5+02.69) INT.	0+00.00	137.30	S 55°57'18" E		
END ALIGNMENT	1+37.30				

LINCOLN AVE. (E) - CONSTRUCTION CENTERLINE					
DESCRIPTION	STATION	LENGTH	DELTA OR BEARING	RADIUS	TANGENT
COMO DR. (7+42.26) INT.	0+00.00	128.79	S 89°47'28" E		
END ALIGNMENT	1+28.79				

CONSTRUCTION NOTES & QUANTITIES

NO.	ITEM	QUANTITY	UNIT
(1)	CONSTRUCT 8" AC PAVEMENT.	5,555	SF
(2)	CONSTRUCT TYPE "A-2" CURB ONLY PER CITY OF POMONA STD. PLAN NO. A-3-64.	1,163	LF
(3)	CONSTRUCT CURB RAMP PER CITY OF POMONA AND MODIFIED APMA STD. PLAN NO. 111-5. (CASE "D", TYPE "1" UNLESS NOTED OTHERWISE).	19	EA
(4)	CONSTRUCT 4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A-7-02.	820	SF
(5)	CONSTRUCT ALLEY INTERSECTION PER CITY OF POMONA STD. PLAN NO. A-5-06 AND DETAIL HEREON.	2	SF
(6)	CONSTRUCT DRIVEWAY APPROACH PER CITY OF POMONA AND MODIFIED APMA STD. PLAN NO. 110-2 AND DETAIL HEREON.	3	EA
(7)	CONSTRUCT 8" CT, 18" CUTTER TYPE "B" INTEGRAL CURB AND GUTTER PER CITY OF POMONA STD. PLAN NO. A-3-64.	166	LF
(8)	SEE LANDSCAPING PLAN.		LS
(9)	CONSTRUCT ALLEY INTERSECTION WITH ASPHALT CONCRETE PER CITY OF POMONA STD. PLAN NO. A-5-06 AND DETAIL HEREON.	1	EA
(10)	CONSTRUCT PARKWAY DRAIN PER CITY OF POMONA AND MODIFIED APMA STD. PLAN NO. 151-2.	60	LF
(21)	CONSTRUCT (3) 3" PVC PIPE CULVERT PER ELEVATIONS SHOWN ON THE PLAN.	1	EA
(22)	CONSTRUCT 12"x12" BROOKS GRATE INLET CATCH BASIN (MODEL 121208) AND 4" PVC PIPE PER PLAN.	1	EA
(23)	ADJUST EXISTING WATER VALVE TO GRADE.	3	EA
(24)	FURNISH AND INSTALL 150W HPS LAMP WITH PHOTOELECTRIC CONTROLS ON 12" TAPERED CONCRETE POLE (TYPE 702-10) AND 8" GLOBE. SEE ELECTRICAL PLANS.	4	EA
(25)	RELOCATE STREET LIGHT POLE AND REPLACE WITH 150W HPS LAMP. SEE ELECTRICAL PLANS.	7	EA
(26)	RELOCATE EX. WATER METER.	1	EA
(27)	CONSTRUCT 4" PVC CURB DRAIN.	1	EA
(28)	SAW CUT, REMOVE DAMAGED SIDEWALK AND RECONSTRUCT 4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A-7-02.	130	SF
(29)	SAW CUT, REMOVE DAMAGED CURB AND RECONSTRUCT TYPE "A-2" CURB PER CITY OF POMONA STD. PLAN NO. A-3-64.	50	LF

DEMOLITION NOTES & QUANTITIES

NO.	ITEM	QUANTITY	UNIT
(1)	PROTECT IN PLACE, ITEM PER PLAN		
(2)	SAW CUT AND REMOVE EXISTING CURB	920	LF
(3)	SAW CUT AND REMOVE EXISTING AC PAVEMENT	14,580	SF
(4)	SAW CUT AND REMOVE EXISTING CONCRETE WALKWAY	450	SF
(5)	REMOVE EXISTING CG PATH	90	SF



NOTICE: AVOIDANCE OF THE UNDERGROUND COULD BE REQUIRED. A QUALITY INVESTIGATION SHOULD BE CONDUCTED BEFORE A TRENCH IS EXCAVATED. CALL 811 TO REPORT ANY DAMAGE TO UNDERGROUND UTILITIES. IF YOU ARE NOT SURE, CALL 811. TWO BUSINESS DAYS BEFORE YOU DIG.

CAUTION: REMEMBER THAT THE USE OF COPIES OF THESE PLANS IS PROHIBITED. THE USER OF THESE COPIES WILL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND UTILITIES. IF YOU ARE NOT SURE, CALL 811. TWO BUSINESS DAYS BEFORE YOU DIG.



PLANS PREPARED BY:

Stantec

46 DISCOVERY, SUITE 200 (949) 474-1888 TEL. (949) 201-6882 FAX.
IRVINE, CA 92618

Calvin A. Pinnock
CALVIN A. PINNOCK RCE 386.59 DATE REV DESCRIPTION DATE BY

REVISION	DESCRIPTION
1	
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ACCEPTED BY: _____ DATE: _____

BY: _____ DATE: _____

RECOMMENDED: _____

BY: _____ DATE: _____

CITY OF POMONA

PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

INDEX MAP, TYPICAL SECTIONS & QUANTITIES

SCALE: _____

DESIGNED: _____ SHT. 2

CHECKED: _____ OF

REVIEWED: _____ 17

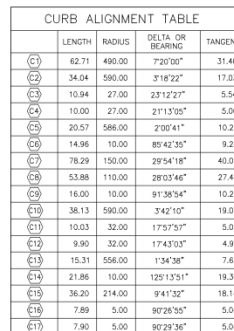
REVIEWED (CONST.): _____

AS SHOWN

Plan Number: _____

- (11) CONSTRUCT "B" AC PAVEMENT.
- (12) CONSTRUCT CURB 7'-2" CURBS ONLY PER CITY OF POMONA STD. PLAN. NO. A-3-64.
- (13) CONSTRUCT CURB RAMP PER CITY OF POMONA AND MODIFIED ASPHALT. A-2-62 AND DETAIL HEREON.
- (14) CONSTRUCT 4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A-7-02.
- (15) CONSTRUCT ALLEY INTERSECTION PER CITY OF POMONA STD. PLAN NO. A-2-62 AND DETAIL HEREON.
- (16) CONSTRUCT DRIVEWAY APPROACH PER CITY OF POMONA AND MODIFIED ASPHALT. STD. PLAN NO. 110-2 AND DETAIL HEREON.
- (18) INSTALL PLANTS SEE LANDSCAPING PLAN.
- (24) FURNISH AND INSTALL 150W HPS LAMP WITH PHOTOELECTRIC CONTROLS ON 10' TAPERED CONCRETE POLE (TYPE 762-10) AND 8" GLOBE.
- (26) RELOCATE STREET LIGHT POLE AND REPLACE WITH 150W HPS LAMP.
- (28) RELOCATE EX. WATER METER.

P	PROTECT IN PLACE, ITEM PER PLAN
1	SAWCUT AND REMOVE EXISTING CURB
2	SAWCUT AND REMOVE EXISTING AC PAVEMENT
3	SAWCUT AND REMOVE EXISTING CONCRETE WALKWAY



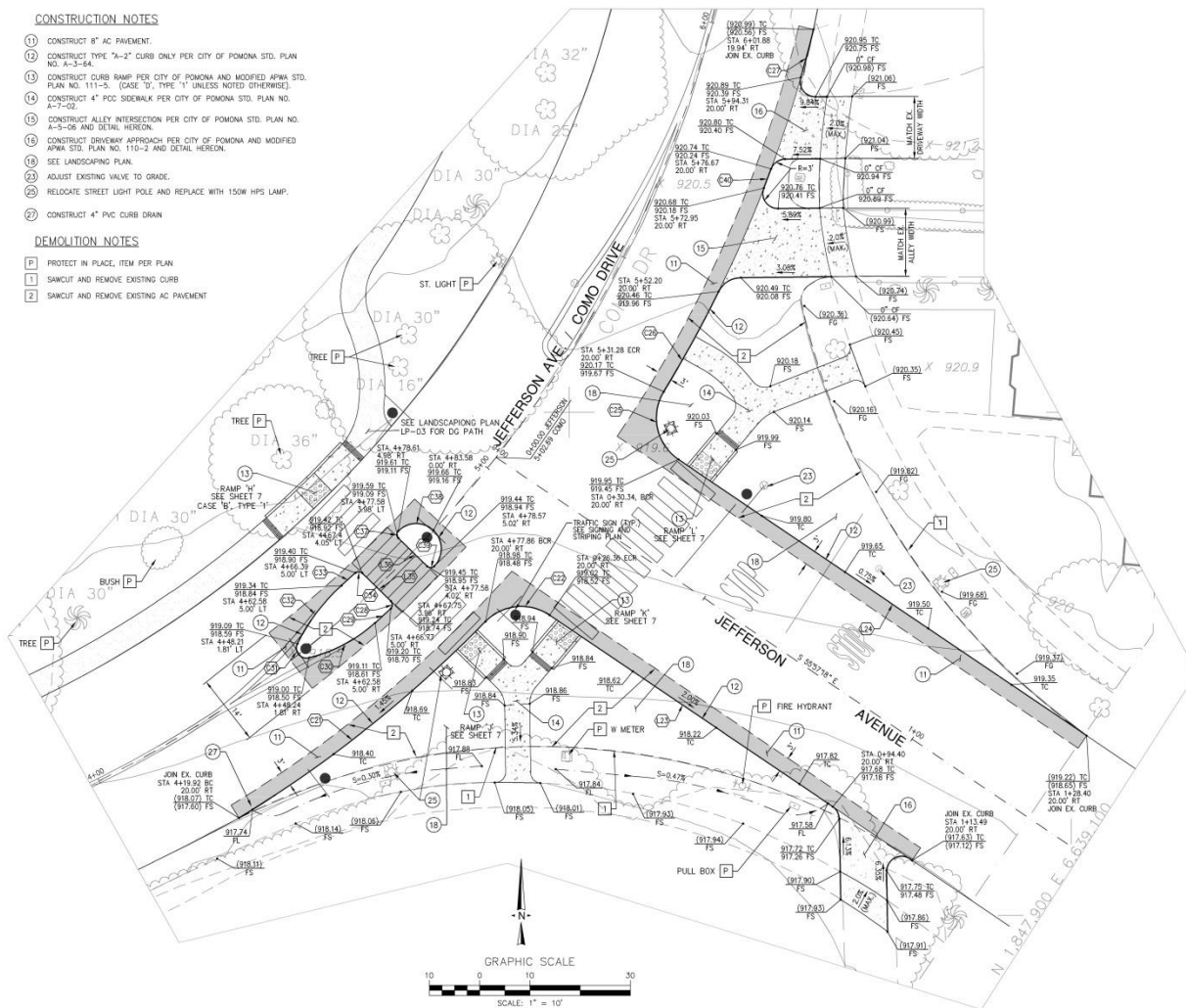
● PROPOSED TRAFFIC SIGNAL. SEE SIGNING AND STRIPING PLAN ON SHEET 9.

FOR PLANTING SEE SHEET LP-02
FOR SIGNING AND STRIPING SEE SHEET 9

ACCEPTED BY _____			
BY: _____	PUBLIC WORKS DIRECTOR _____		DATE: _____
RECOMMENDED _____			
BY: _____	RENE GUERRERO, P.E., RCE NO. 62623, CITY ENGINEER _____		DATE: _____
<p style="text-align: center;">CITY OF POMONA</p> <p style="text-align: center;">PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION</p> <p style="text-align: center;">LINCOLN PARK IMPROVEMENTS</p> <p style="text-align: center;">DETAIL PLAN - INTERSECTION OF LINCOLN AVE. / COMO DR. & PALOMARES ST</p>			
SCALE	DESIGNED: _____ DRAIN: _____ CD _____	SHR. _____ OF _____	
AS SHOWN	REVIEWED: _____ (CONST.) _____	17 _____	

- 11 CONSTRUCT "B" AC PAVEMENT.
- 12 CONSTRUCT TYPE "A-2" CURB ONLY PER CITY OF POMONA STD. PLAN NO. A-3-A-6.
- 13 CONSTRUCT CURB RAMP PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 111-5. (CASE, "D", TYPE "1" UNLESS NOTED OTHERWISE.)
- 14 CONSTRUCT "4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A-7-D-0.
- 15 CONSTRUCT ALLEY INTERSECTION PER CITY OF POMONA STD. PLAN NO. A-0-06 AND DETAIL HEREON.
- 16 CONSTRUCT DRIVEWAY APPROACH PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 110-2 AND DETAIL HEREON.
- 17 SEE LANDSCAPING PLAN.
- 18 ADJUST EXISTING VALVE TO GRADE.
- 19 RELOCATE STREET LIGHT POLE AND REPLACE WITH 150W HPS LAMP.
- 20
- 21
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- 23
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- 26
- 27 CONSTRUCT "4" PVC CURB DRAIN

P	PROTECT IN PLACE, ITEM PER PLAN
1	SAWCUT AND REMOVE EXISTING CURB
2	SAWCUT AND REMOVE EXISTING AC PAVEMENT



CURB ALIGNMENT TABLE				
	LENGTH	RADIUS	DELTA OR BEARING	TANGENT
(21)	62.89	254.00	1°11'13"	31.40
(22)	13.90	10.00	79°39'36"	8.34
(23)	66.04		N 55°57'18" E	
(24)	96.06		N 55°57'18" W	
(25)	12.25	10.00	87°15'21"	9.53
(26)	22.72	254.00	50°28"	11.37
(27)	9.31	10.00	214°09"	4.96
(28)	1.62	1.00	92°38'57"	1.05
(29)	4.28	235.00	1°01'33"	2.14
(30)	15.04	30.56	28°15'18"	7.68
(31)	4.24	2.00	189°16'18"	4.26
(32)	14.59	38.21	1°19'33"SW	7.36
(33)	7.33	229.00	0°56'01"	1.87
(34)	1.52	1.00	87°13'50"	0.95
(35)	8.01		S 45°33'31" E	
(36)	8.01		N 45°33'31" W	
(37)	1.57	1.00	90°07'13"	1.00
(38)	15.69	5.00	179°45'34"	INF.
(39)	1.57	1.00	90°07'13"	1.00
(40)	4.04	254.00	0°34'40"	2.02

● PROPOSED TRAFFIC SIGN. SEE SIGNING AND STRIPING PLAN ON SHEET 9.

FOR PLANTING SEE SHEET LP-02
FOR SIGNING AND STRIPING SEE SHEET 9

ACCEPTED BY

BY: _____ DATE: _____
PUBLIC WORKS DIRECTORBY: RINE GUERRERO, P.E., ICE NO. 66263, CITY ENGINEER DATE: _____

CITY OF POMONA
PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

DETAIL PLAN - INTERSECTION OF
JEFFERSON AVE./COMO DR. & JEFFERSON AVE.

SCALE	DESIGNED: <u>JL</u>	SHT. 4 OF 17 SHTS
	DRAWN: <u>JL</u>	
	CHECKED: <u>CP</u>	
	REVIEWED: _____	
AS SHOWN	REVIEWED (CONST.) _____	

Plot Number

CALL
TOLL FREE

811

Know what's below.
Call two working before you dig.

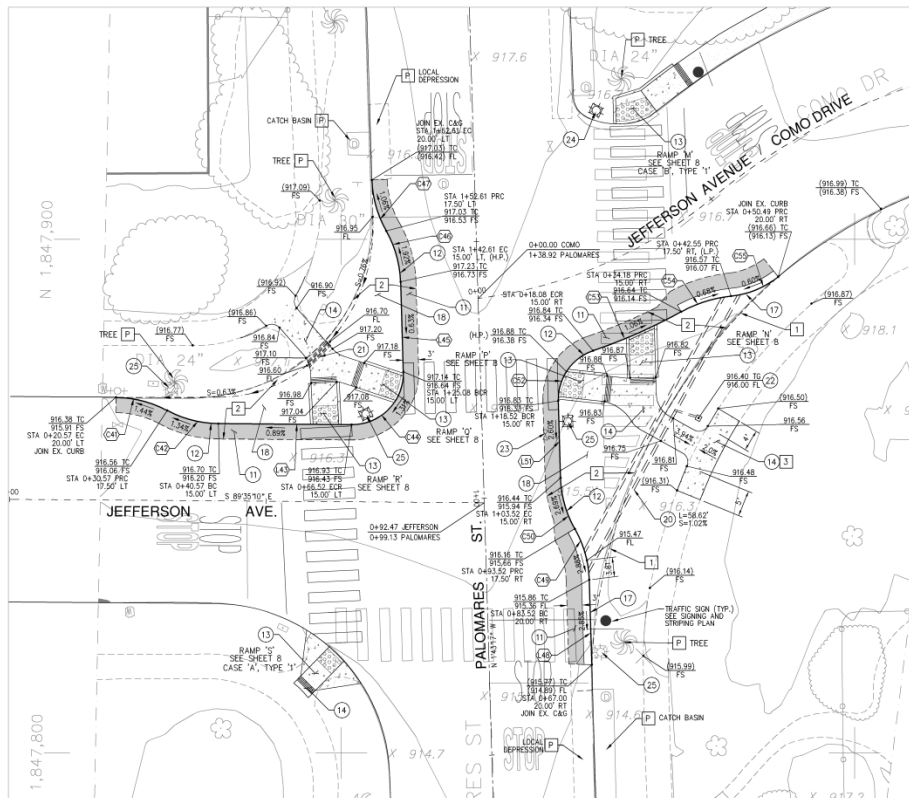
SECTION 429.427 OF THE GOVERNMENT CODE REQUIRES A DIALER IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALED FOR YOUR DIALER ID NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE TWO WORKING DAYS BEFORE YOU DIG.

CAUTION REMEMBER THAT THE USA CENTER NOTIFIED ONLY THOSE UTILITIES BELONGING TO THE CENTER, THERE COULD BE OTHER UTILITIES PRESENT AT THE WORK SITE. THE



PLANS PREPARED BY:		
	Stantec	
46 DISCOVERY, SUITE 250 IRVINE, CA 92615		(949) 474-1620 TEX (949) 261-8432 FAX
<i>Carlos A. Pineda</i>		
CARLOS A. PINEDA	RCE 38639	DATE

△	REVISION		
△			
△			
△			
△			
△			
REV	DESCRIPTION	DATE	BY



CONSTRUCTION NOTES

1. CONSTRUCT 8" AC PAVEMENT.
2. CONSTRUCT TYPE "A-2" CURB ONLY PER CITY OF POMONA STD. PLAN NO. A-3-64.
3. CONSTRUCT CURB RAMP PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 111-5. (CASE "D", TYPE "1" UNLESS NOTED OTHERWISE).
4. CONSTRUCT 4" PVC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A-7-02.
5. CONSTRUCT 8" CP, 18" GUTTER TYPE "B" INTEGRAL CURB AND GUTTER PER CITY OF POMONA STD. PLAN NO. A-3-64.
6. INSTALL PLANTS SEE LANDSCAPING PLAN.
7. CONSTRUCT PARKWAY DRAIN PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 151-2.
8. CONSTRUCT (3) 3" PVC PIPE CULVERT PER ELEVATIONS SHOWN ON THE PLAN.
9. CONSTRUCT 12"x12" BROOKS GRATE INLET CATCH BASIN (MODEL 121208) AND 4" PVC PIPE PER PLAN.
10. ADJUST EXISTING WATER VALVE TO GRADE.
11. FURNISH AND INSTALL 150W HPS LAMP WITH PHOTOELECTRIC CONTROLS ON 10' TAPERED CONCRETE POLE (TYPE 782-10) AND 8" GLOBE.
12. RELOCATE STREET LIGHT POLE AND REPLACE WITH 150W HPS LAMP.

DEMOLITION NOTES

1. PROTECT IN PLACE, ITEM PER PLAN
2. SAWCUT AND REMOVE EXISTING CURB
3. SAWCUT AND REMOVE EXISTING AC PAVEMENT

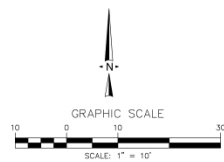
CURB ALIGNMENT TABLE

	LENGTH	RADIUS	DELTA OR BEARING	TANGENT
(C4)	10.41	21.25	28°04'21"	5.31
(C42)	10.41	21.25	28°04'21"	5.31
(C43)	25.95		S 89°35'10" E	
(C44)	16.08	10.00	92°08'07"	10.38
(C45)	17.53		N 1°43'17" W	
(C46)	10.41	21.25	28°04'21"	5.31
(C47)	10.41	21.25	28°04'21"	5.31
(C48)	16.52		N 1°43'17" W	
(C49)	10.41	21.25	28°04'21"	5.31
(C50)	10.41	21.25	28°04'21"	5.31
(C51)	15.00		N 1°43'17" W	
(C52)	12.74	10.00	73°01'22"	7.40
(C53)	18.79	105.00	10°15'04"	9.42
(C54)	10.26	25.51	23°02'24"	5.20
(C55)	10.05	17.67	32°35'15"	5.17

LEGEND

- PROPOSED TRAFFIC SIGN. SEE SIGNING AND STRIPING PLAN ON SHEET 9.

FOR PLANTING SEE SHEET LP-02
FOR SIGNING AND STRIPING SEE SHEET 9



SECTION 46100.01 OF THE GOVERNMENT CODE REQUIRES A QUALITY CONTROL INSPECTION BEFORE OR DURING THE CONSTRUCTION OF ANY PUBLIC WORKS PROJECT. THE CENTER THEREOF SHALL BE OTHER QUALITY INSPECTION AT THE WORK SITE. THE CENTER SHALL INFORM YOU OF WHICH THEY WILL NOTIFY.



PLANS PREPARED BY:
Stantec
46 DISCOVERY SUITE 200 (949) 474-4000 TEL
IRVINE, CA 92618 (949) 261-9822 FAX
Calvin A. Pineda
CALVIN A. PINEDA RCE 38639 DATE REV DESCRIPTION DATE BY

REVISION	

ACCEPTED BY: _____

BY: PUBLIC WORKS DIRECTOR DATE: _____

RECOMMENDED

BY: NINE GUERRERO, P.E., REG. NO. 68243, CITY ENGINEER DATE: _____

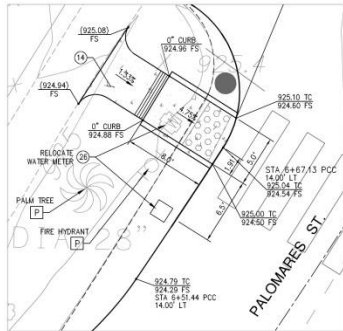
CITY OF POMONA
PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

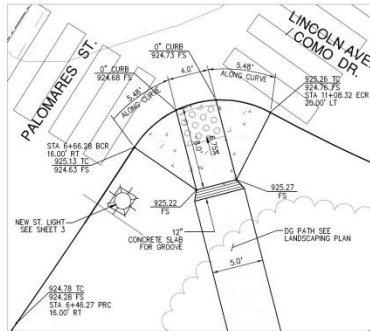
DETAIL PLANS - INTERSECTIONS OF JEFFERSON AVE-COMO DR-PALOMARES AVE

SCALE: DESIGNED: JL SHT: 5
DRAWN: CP OF
CHECKED: CP
REVIEWED: REVISED (CONST.)
AS SHOWN 17 SHITS

Plan Number _____



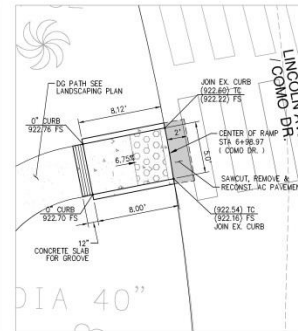
RAMP 'A'
SCALE: 1" = 9'



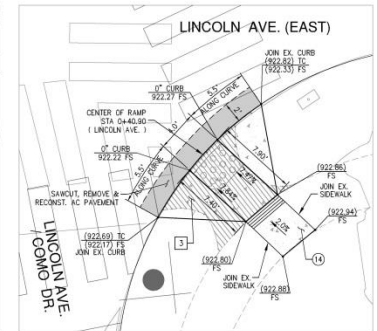
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SCALE: 1" = 9'



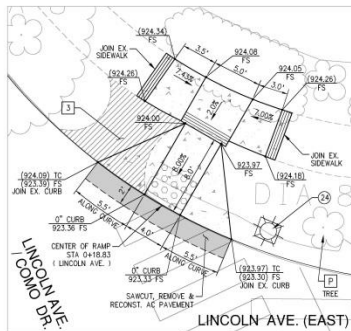
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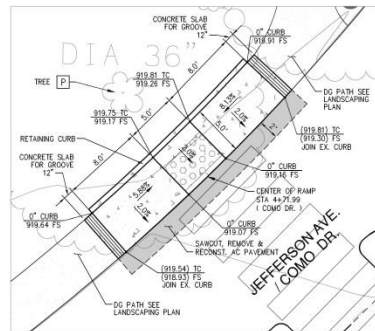
RAMP 'E'
SCALE: 1" = 9'



RAMP 'F'
SCALE: 1" = 9'



RAMP 'G'
SCALE: 1" = 9'



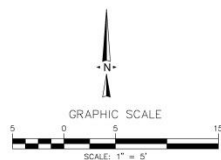
RAMP 'H'
SCALE: 1" = 9'



RAMPS 'J' & 'K'
SCALE: 1" = 9'



RAMP 'L'
SCALE: 1" = 9'



LEGEND

- PROPOSED TRAFFIC SIGN. SEE SIGNING AND STRIPING PLAN ON SHEET 9.

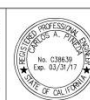
CONSTRUCTION NOTES

- CONSTRUCT 4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A-7-7-02.
- FURNISH AND INSTALL 150W HPS LAMP WITH PHOTOELECTRIC CONTROLS ON 10' TAPERED CONCRETE POLE (TYPE 782-10) AND 8" GLOBE.
- RELOCATE EX. WATER METER.
- SAWCUT AND REMOVE EXISTING CONCRETE WALKWAY.

ACCEPTED BY:	
BY: _____	DATE: _____
PUBLIC WORKS DIRECTOR	
RECOMMENDED	
BY: _____	DATE: _____
RINE GUERRERO, P.E., REG. NO. 66633, CITY ENGINEER	
CITY OF POMONA	
PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION	
LINCOLN PARK IMPROVEMENTS	
DETAIL	
ADA RAMPS	
SCALE: _____	SHT. 7
DESIGNED: _____	OF _____
CHECKED: _____	17 SHTS
REVIEWED: _____	Plan Number _____

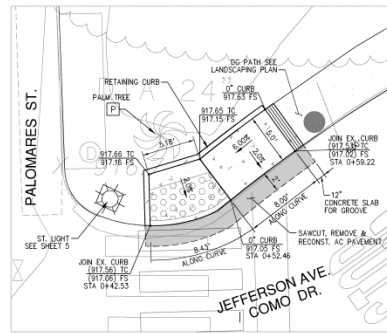


SECTION 404.05 OF THE GOVERNMENT CODE REQUIRES A QUALITY CONTROLLED RANDOM 90 MINUTE REVIEW. A PERMIT TO EXCAVATE SHALL BE ISSUED FOR YOUR QUALITY CONTROL REVIEW. IF THE REVIEWER DETERMINES A VIOLATION, THE CENTER WILL RETURN YOU OF HOW THEY WILL NOTIFY.

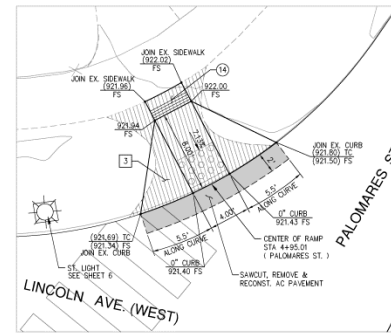


PLANS PREPARED BY:
Stantec
16 DISCOVERY, SUITE 200
IRVINE, CA 92618
(949) 414-1600 TEL
(949) 261-6462 FAX
Calvin A. Patten
CALVIN A. PATTEN RCE 356.39 DATE _____

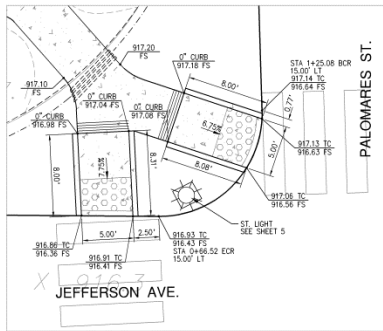
REV	DESCRIPTION	DATE	BY
1	REVISION		
2			
3			
4			
5			



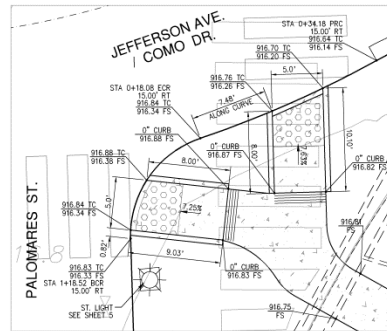
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SCALE: 1" = 9'



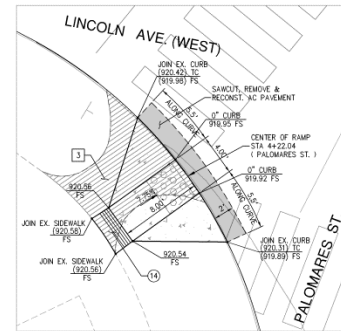
RAMP 'T'
SCALE: 1" = 9'



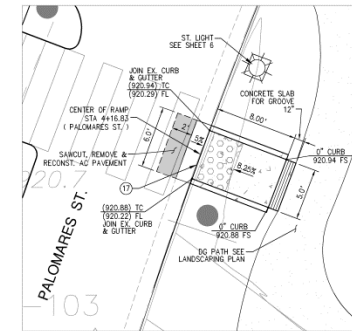
RAMPS 'Q' & 'R'
SCALE: 1" = 9'



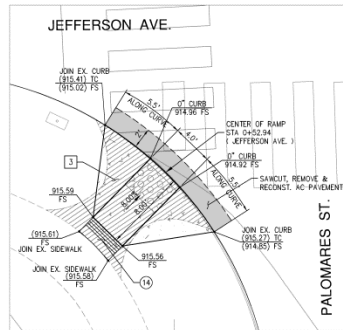
RAMPS 'N' & 'P'
SCALE: 1" = 9'



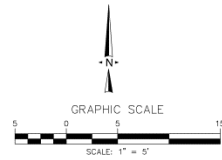
RAMP 'U'
SCALE: 1" = 9'



RAMP 'V'
SCALE: 1" = 9'



RAMP 'S'
SCALE: 1" = 9'



SECTION 404.01 OF THE GOVERNMENT CODE REQUIRES A QUALITY INSPECTION BEFORE OR WHILE REPORTING A PERMIT TO DISCARTER WILL BE ISSUED FOR YOUR INSPECTION TO DETERMINE THE LOCATION OF ALL UTILITIES. PLEASE CALL 811 BEFORE ANY EXCAVATION WORK BEGINS. TWO WORKING DAYS BEFORE YOU DIG.

CAUTION: REMEMBER THAT THE 811 CENTER NOTICES ONLY THOSE UTILITIES BELONGING TO THE CENTER. THERE COULD BE OTHER UTILITIES PRESENT AT THE WORK SITE. THE CENTER WILL INFORM YOU OF WHEN THEY WILL NOTIFY.



PLANS PREPARED BY:
Stantec
40 DISCOVERY, SUITE 200
IRVINE, CA 92618
(949) 474-4303 TEL
(949) 261-4882 FAX

NO.	REVISION	DATE
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LEGEND

● PROPOSED TRAFFIC SIGN. SEE SIGNING AND STRIPING PLAN ON SHEET 9.

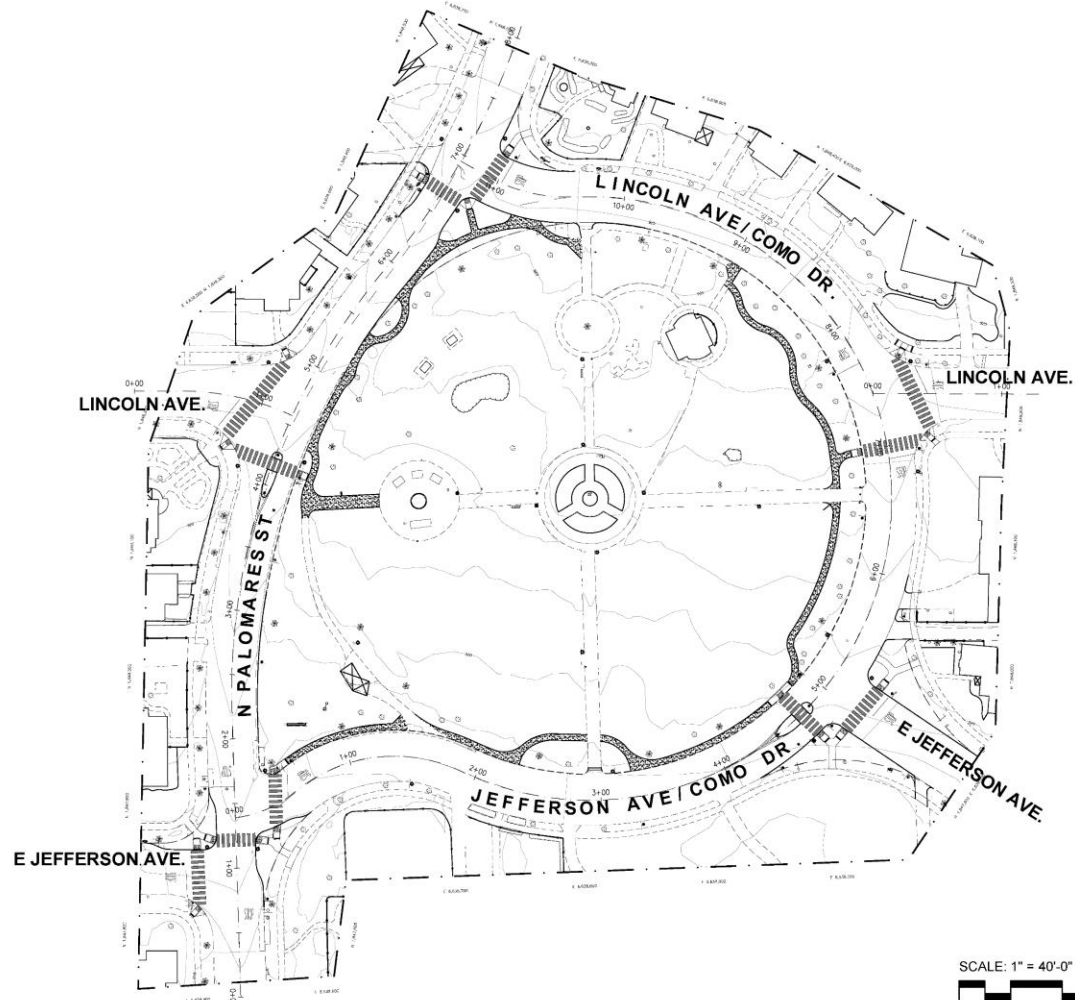
CONSTRUCTION NOTES

- 14. CONSTRUCT 4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A-7-02.
- 17. CONSTRUCT 6" OF 18" OUTER TYPE "B" INTEGRAL CURB AND GUTTER PER CITY OF POMONA STD. PLAN NO. A-3-84.
- 3. SAWCUT AND REMOVE EXISTING CONCRETE WALKWAY

ACCEPTED BY	
BY: _____	DATE: _____
PUBLIC WORKS DIRECTOR	
RECOMMENDED	
BY: _____	DATE: _____
RENE GUERRERO, P.E., REG. NO. 68263, CITY ENGINEER	
CITY OF POMONA	
PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION	
LINCOLN PARK IMPROVEMENTS	
DETAIL	
ADA RAMPS	
SCALE	DESIGNED: <u>AL</u>
	ORIGIN: <u>AL</u>
	CHECKED: <u>CP</u>
	REVIEWED: <u>REVIEWED</u>
AS SHOWN	REVIEWED (CONST.)
SHT: 8	OF 17 SHTS

NOTE:

1. PLAZA - EXISTING IRRIGATION HEADS OPERATED BY VALVE 18 AT OUTER EDGE, PLAZA SHALL REMAIN & BE PROTECTED AND SHALL REMAIN FULLY OPERATIONAL.
2. PROPOSED BULB-OUT IRRIGATION FOR NEW BULB-OUT PLANTING AREAS SHALL BE TIED-INTO HOMEOWNER IRRIGATION SYSTEM.



NOTE

1. REFER TO SHEET LI-03 FOR IRRIGATION NOTES AND LEGEND.
2. REFER TO SHEET LI-04 FOR IRRIGATION DETAILS.
3. CONTRACTOR SHALL REVIEW THE EXISTING IRRIGATION SYSTEM DURING BIDDING & PRIOR TO CONSTRUCTION TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER PRIOR TO SUBMITTING THEIR BID & PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL ENSURE THAT ALL RELOCATED SYSTEMS ARE FULLY OPERATIONAL AFTER COMPLETION OF WORK.

ACCEPTED	
DATE: _____	DATE: _____
PUBLIC WORKS SECTION	
RECOMMENDED	
DATE: _____	
CITY OF POMONA PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION	
LINCOLN PARK IMPROVEMENT	
IRRIGATION PLAN	
SCALE: AS SHOWN	DATE: 11/17/17
DESIGNED: LK	BY: LK
DRAWN: TW	BY: TW
CHECKED: JES	BY: JES
SHEET 15 OF 15	

SCALE: 1" = 40'-0"



THIS PLAN PREPARED UNDER THE SUPERVISION OF:

NUVIS
LANDSCAPE
ARCHITECTURE



ATTENTION:
All utilities shown on this plan are based on available records. It will be the sole responsibility of the contractor to verify all existing utilities by contacting utility agencies and to avoid damaging existing utilities during excavation.

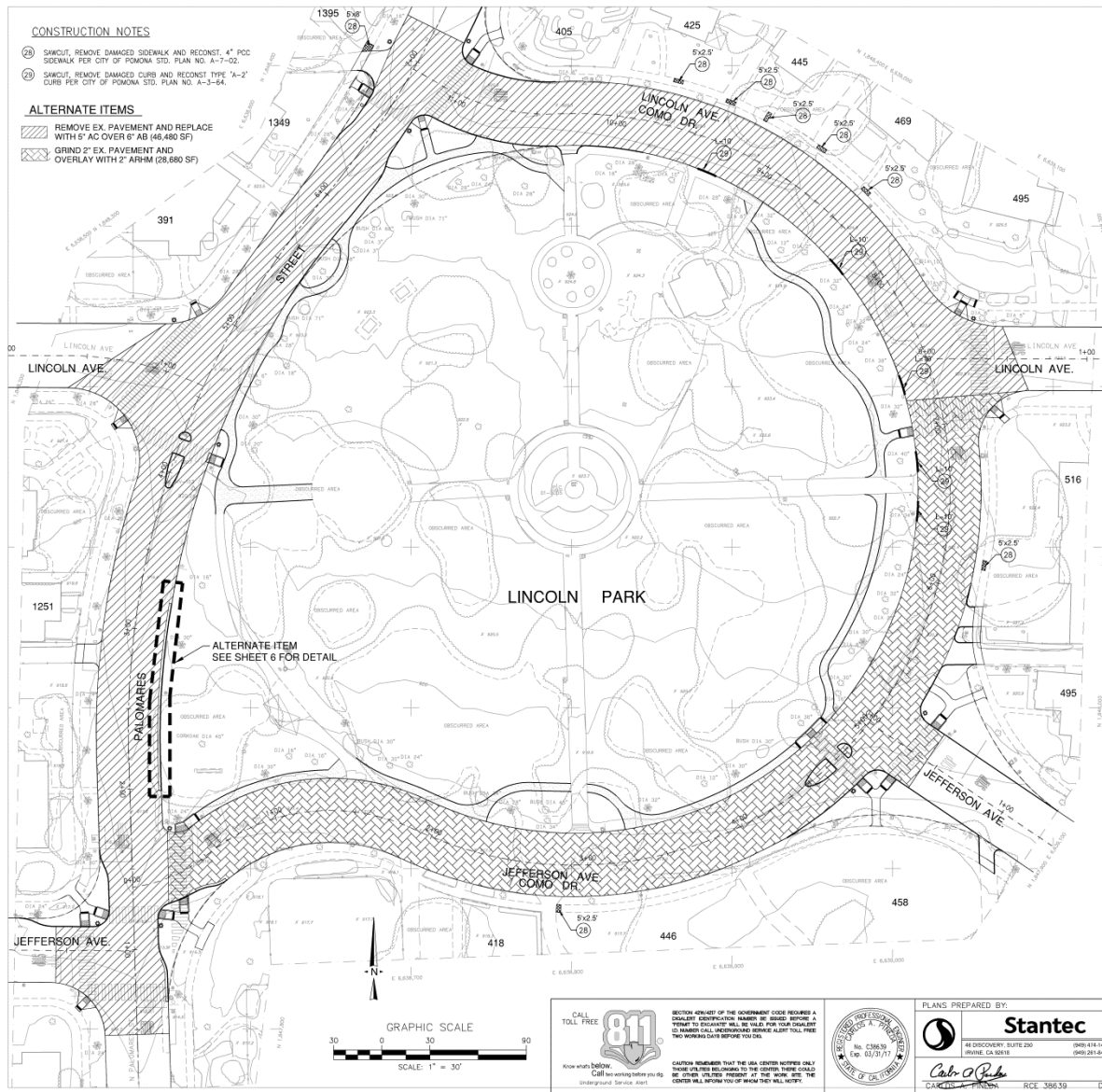
FOR UNDERGROUND SERVICE ALERT CALL: 811

CONSTRUCTION NOTES

- 28 SAWCUT, REMOVE DAMAGED SIDEWALK AND RECONST. 4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A-7-02.
- 29 SAWCUT, REMOVE DAMAGED CURB AND RECONST TYPE "A-2" CURB PER CITY OF POMONA STD. PLAN NO. A-3-04.

ALTERNATE ITEMS

- REMOVE EX. PAVEMENT AND REPLACE WITH 5" AC OVER 6" AS (46,480 SF)
- GRIND 2" EX. PAVEMENT AND OVERLAY WITH 2" ARHM (28,680 SF)



ACCEPTED BY	
BY: _____	DATE: _____
RECOMMENDED	
BY: _____	DATE: _____
CITY OF POMONA PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION	
LINCOLN PARK IMPROVEMENTS	
STREET REHAB, SIDEWALK & CURB REPAIR AND DG PATH HORIZONTAL CONTROL	
SCALE	DESIGNED: _____ DRAWN: _____ CHECKED: _____ REVIEWED (CONST): _____
AS SHOWN	SHT. 10 OF 17 SHOTS



SECTION 404 OF THE GOVERNMENT CODE PROVIDES A LIABILITY EXEMPTION FOR THE USER OF THE 811 SERVICE. THE USER OF THE 811 SERVICE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY WORK DONE BY THE USER OF THE 811 SERVICE. THE USER OF THE 811 SERVICE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY WORK DONE BY THE USER OF THE 811 SERVICE.



PLANS PREPARED BY:
Stantec
14 DISCOVERY, SUITE 200
IRVINE, CA 92618
(949) 414-1400 TEL
(949) 261-4492 FAX
CARRAS, A. PRINCE, RCE 33639 DATE REV DESCRIPTION DATE BY

REV	DESCRIPTION	DATE	BY

IRRIGATION NOTES

- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS, AS DESCRIBED IN THE SPECIFICATIONS, AND IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES.
- DESIGN REFLECTS COMPLIANCE WITH CALIFORNIA STATE ASSEMBLY BILL 325 (AB 325) AND THE STATE'S MODEL ORDINANCE AND/OR THE LOCAL GOVERNING AGENCIES' ADOPTED WATER EFFICIENT LANDSCAPE ORDINANCE.
- DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENTS NECESSARY TO CONFORM TO ACTUAL FIELD CONDITIONS.
- CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST ALL HEADS FOR OPTIMUM PERFORMANCE IN ACCORDANCE WITH THE SPECIFICATIONS AND TO PREVENT OVERSPRAY ONTO HARDSCAPE AREAS OR STRUCTURAL ELEMENTS. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT ACTUAL SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. COSTS INCURRED DUE TO ANY ADJUSTMENTS FOR 100% COVERAGE, INCLUDING THOSE REQUESTED BY THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- SYSTEM DESIGN IS BASED ON A MINIMUM OPERATING PRESSURE (P.S.I.) AND A MAXIMUM DEMAND (G.P.M.) AS SHOWN AT EACH POINT OF CONNECTION ON THE DRAWINGS. CONTRACTOR SHALL VERIFY PRESSURE AND DEMAND AT EACH POINT OF CONNECTION PRIOR TO COMMENCING INSTALLATION AND SUBMIT SUCH IN WRITING TO THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE. IF ANY DISCREPANCIES EXIST, THEY SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE.
- EQUIPMENT SHOWN IN HARDSCAPE AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED WHENEVER POSSIBLE WITHIN PLANTED AREAS A REASONABLE, REACHABLE DISTANCE FROM HARDSCAPE OR TURF AREAS.
- UNLESS OTHERWISE NOTED ON THE DRAWINGS, CONTRACTOR SHALL INSTALL WIRE AND PIPE UNDER HARDSCAPE AREAS IN P.V.C. SCHEDULE 40 SLEEVES TO BE PLACED PRIOR TO INSTALLING HARDSCAPE IN ACCORDANCE WITH APPLICABLE CODES.
- WHEREVER POSSIBLE, CONTROL WIRES SHALL OCCUPY THE SAME TRENCH AS PIPES.
- EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT ELECTRICAL WIRING.
- SPLICING OF 24 VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. CONTRACTOR TO LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPICE AND EVERY 100' ON CENTER ALONG WIRE RUN. TAPE WIRE BUNDLES 10" ON CENTER. NO TAPING WILL BE PERMITTED INSIDE SLEEVES.
- WIRE CONNECTORS SHALL BE SCOTCH DRY OR APPROVED EQUAL.
- CONTROL VALVES SHALL BE SIZED AS DESIGNATED ON THE DRAWINGS AND SHALL BE INSTALLED IN VALVE BOXES AS INDICATED IN THE DETAILS. BOXES SHALL BE SET FLUSH WITH THE FINISH GRADE OR SURFACE AND PERMANENTLY MARKED WITH THE LETTERS R.C.V.
- FINAL LOCATION FOR BACKFLOW PREVENTION DEVICES SHALL BE APPROVED BY THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLING. CONTRACTOR SHALL NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICES.
- CONTRACTOR SHALL INSTALL ANTI-DRAIN CHECK VALVES AS NECESSARY TO PREVENT LOW HEAD DRAINAGE.
- ALL IRRIGATION HEADS ADJACENT TO HARDSCAPE SHALL BE POP-UP STYLE.
- IRRIGATION HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNATED ON THE PLANS.
- BUBBLERS SHALL BE LOCATED ON THE UPHILL SIDE OF TREES.

VALVE LOCATION NOTE

ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS ON THESE DRAWINGS ARE APPROXIMATE. THE LANDSCAPE CONTRACTOR SHALL STAKE OUT EACH ELEMENT OF CONTROL VALVE AND ISOLATION VALVE LOCATION FOR REVIEW AND APPROVAL BY ENGINEER PRIOR TO INSTALLATION OF ALL VALVES. FINAL LOCATION AND EXACT POSITIONING FOR ELECTRIC CONTROL VALVES AND ISOLATION VALVES SHALL BE DETERMINED BY THE ENGINEER. MINOR MODIFICATIONS OF ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS AS REQUESTED BY THE ENGINEER SHALL BE PROVIDED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. FAILURE TO OBTAIN ENGINEER'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE ENGINEER DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE OWNER. IN GENERAL, OTHERWISE DIRECTED BY ENGINEER, ALL VALVES SHALL BE INSTALLED ONE FOOT FROM EDGE OF HARDSCAPE, WALK OR CURB IN SHRUB PLANTING AREAS.

PRESSURE LOSS CALCULATIONS

WATER PRESSURE CALCULATIONS			
POC NUMBER	X	POC SIZE	X
HYDRAULIC GRADE LINE	-	POC ELEVATION	-
ELEVATION DIFFERENCE	-	MINIMUM STATIC WATER PRESSURE	-
REMOTE CONTROL VALVE #	X	REMOTE CONTROL VALVE SIZE	X
R.C.V. DEMAND (GPM)	X	TOTAL DEMAND (GPM)	X
HIGHEST HEAD ELEVATION	-	STATIC PRESSURE AT R.C.V.	-
SIZE	DESCRIPTION	PSI LOSS	
"X"	SERVICE LINE	1	X PSI
"X"	WATER METER	2	X PSI
"X"	BACKFLOW PREVENTER	3	X PSI
"X"	ISOLATION VALVES	4	X PSI
"X"	MASTER CONTROL VALVE	5	X PSI
"X"	XXX FEET OF MAINLINE TYPE CLASS 315	6	X PSI
"X"	FEET OF MAINLINE TYPE	7	X PSI
"X"	REMOTE CONTROL VALVE	8	X PSI
10%	LATERAL LINE LOSS	9	X PSI
10%	FITTING LOSS	10	X PSI
5	FT. OF ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD)	11	0.0 PSI
TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #11)		12	0.0 PSI
PRESSURE REQUIRED AT HEAD		13	30.0 PSI
TOTAL PRESSURE REQUIRED (SUM OF #12 AND #13)		14	30.0 PSI
STATIC WATER PRESSURE (FROM ABOVE)		15	14.0 PSI
RESIDUAL PRESSURE (SUBTRACT #14 FROM #15)		16	#VALUET PSI
SET PIV OR MOV AT (#14 PLUS 10 PSI)		17	0.0 PSI
PRESSURE LOSS IF REQUIRED (#14 + 20 PSI)		18	0.0 PSI



Know what's below.
Call before you dig.

ATTENTION:
All utilities shown on this plan are based on available records. It shall be the sole responsibility of the contractor to verify all existing utilities by contacting utility agencies and to avoid damaging existing utilities during excavation.

FOR UNDERGROUND SERVICE ALERT CALL: 811

DIAPHRANE PLAN NOTES

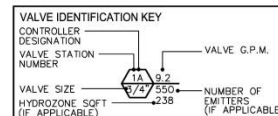
- PLANS ARE DIAGRAMMATIC. INSTALL DIAPHRANE AND COMPONENTS PER MANUFACTURERS INSTRUCTIONS AND INSTALLATION DETAILS.
- INSTALL DIAPHRANE A MAXIMUM OF 18" APART WITH EMITTERS TRIANGULARLY SPACED. INSTALL 2" FROM PERIMETER OF PLANTED AREA. THERE SHOULD BE A MINIMUM OF TWO DIAPHRANE LATERALS IN EACH PLANTED AREA. DIAPHRANE SHALL BE INSTALLED AT A CONSISTENT DEPTH THROUGHOUT THE CIRCUIT.
- PLACE AIR/VACUUM RELIEF VALVES AT THE HIGHEST POINTS OF EACH ZONE AND JUST BELOW CHECK VALVES ON SLOPES. INSTALL ONE AIR/VACUUM RELIEF VALVE FOR EVERY 1125' OF TOTAL DIAPHRANE PER ZONE.
- PLACE FLUSH VALVES AT THE HYDRAULIC CENTER OF THE EXHAUST HEADER OR AT LOW POINT ON SLOPES.
- INSTALL IN-LINE CHECK VALVES ON SLOPES GREATER THAN 3% AND WHERE LOW-LINE DRAINAGE COULD CAUSE VENT AREAS IN THE LOWEST AREAS OF AN IRRIGATION ZONE. CHECK VALVES SHALL BE PLACED EVERY 4-5 FEET BETWEEN DIAPHRANE LATERALS AND BEFORE THE FLUSH VALVE.
- ON ALL SLOPES AND MOUNDS, PLACE THE DIAPHRANE LATERALS PARALLEL TO THE SLOPE CONTOUR WHERE POSSIBLE. INCREASE THE LATERAL SPACING BY 25% ON THE LOWER ONE-THIRD OF THE SLOPE TO AVOID EXCESS DRAINAGE.
- PVC SUPPLY AND FLUSH LINE SIZING GUIDE (ALL SUPPLY AND FLUSH LINES SHALL BE THE SAME SIZE FOR THE ENTIRE ZONE):
• 0.8 GPM - 3/4"
• 8.1-15 GPM - 1"
• 15.1-25 GPM - 1 1/4"
- FITTINGS SHALL BE OF THE SAME MANUFACTURER AS DIAPHRANE.
- THOROUGHLY FLUSH EACH INSTALLATION SEGMENT TO ENSURE NO DEBRIS CONTAMINATION OCCURS.
- RUN THE DIAPHRANE SYSTEM EVERY DAY OR EVERY OTHER DAY TO ESTABLISH PLANT MATERIAL. MAINTAIN A CONSISTENT MOISTURE BALANCE IN THE SOIL. IT IS IMPORTANT TO KEEP THE SOIL MOIST WITHOUT SATURATION.

WATER EFFICIENT LANDSCAPE CALCULATIONS

PROJECT NAME:	NAME OF PROJECT				
PART ONE:	MAXIMUM APPLIED WATER ALLOWANCE (MAWA)				
	MAWA = (Eto) (D) (LA) (0.62)				
	MAWA = (Eto) (0.62) [(D) x LA] + (0.3 x SLA)				
	YEARLY Eto				
	CONVERSION FACTOR				
	ET ADJUSTMENT FACTOR				
	TOTAL LANDSCAPE AREA (LA in S.F.)				
	ET ADJUSTMENT FACTOR FOR SPECIAL LANDSCAPE AREA				
	TOTAL SPECIAL LANDSCAPE AREA (SLA in S.F.)				
	MAWA GAL/YR.				
PART TWO:	ESTIMATED TOTAL WATER USE (ETWU)				
	ETWU = (Eto) (MAWA) (PF) (0.62) (IE)				
	ETWU = (Eto) (0.62) (PF x MA + IE) x SLA				
	PLANT WATER USE TYPE				
	HYDROZONE AREA (HA in S.F.)				
	PLANT FACTOR (PF)				
	IRRIGATION EFFICIENCY (IE)				
	ELWU (GAL/YR.)				
	IRRIGATION METHOD	LOW	0	0.0	0.00
	SUB-SURFACE (SHRUB)	LOW	0	0.0	0.00
DRIP (SHRUB)	LOW	0	0.0	0.00	
DRIP (SHRUB)	MEDIUM	0	0.0	0.00	
SPRAY (LAWN)	HIGH	0	0.0	0.00	
WATER FEATURE	HIGH	0	0.0	0.00	
TOTAL		0		ETWU GAL/YR.	
PART THREE:	HYDROZONE INFORMATION TABLE				
	HYDROZONE PLANT WATER USE TYPE				
	ZONE OR VALVES				
	IRRIGATION METHOD				
	HYDROZONE AREA (S.F.)				
	% OF LANDSCAPE AREA				
	LOW	DRIP	0	0.00	0.00
	MODERATE	DRIP	0	0.00	0.00
	HIGH	POOL	0	0.00	0.00
	TOTAL				0.00

IRRIGATION MATERIAL LEGEND

SYMBOL	MANUFACTURER	MODEL NO. / DESCRIPTION	DETAIL
	RAIN BIRD	XFS-06-12 SUBSURFACE DRIP TUBING (COPPER EXTERIOR COLOR) WITH 0.60 GPH, PRESSURE COMPENSATING EMITTERS INTERNALLY INSTALLED IN THE DRIP TUBING AT 12" O.C. SPACING. DRIP TUBING SHALL BE EQUIPPED WITH COPPER CHIP TECHNOLOGY TO PREVENT ROOT INTRUSION INTO THE DRIP EMITTER. DRIP TUBING SHALL BE INSTALLED 2" BELOW FINISHED SOIL GRADE (NOT COUNTING MULCH) AND IN PARALLEL ROWS A MAXIMUM OF 16" ON CENTER. THE PERIMETER ROW OF DRIP TUBING SHALL BE INSTALLED A MAXIMUM OF 4" FROM THE EDGE OF ANY HARDSCAPE OR TURF EDGE. ALL SUBSEQUENT INTERIOR ROWS SHALL BE ADJUSTED TO PROVIDE AN EVEN SPACING ACROSS THE PLANTER WITHOUT EXCEEDING 16" MAXIMUM SPACING. INSTALL 9" PVC COATED GALVANIZED TUBING STAKES A MAXIMUM OF FIVE (5) FEET ON CENTER ALONG THE LENGTH OF THE TUBING. TUBING STAKES SHALL BE MODEL #G0T5140900 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684. THE HATCH PATTERN SYMBOLS ON THE PLANS REPRESENT THE APPROXIMATE DIRECTION AND SPACING OF THE DRIP TUBING ROWS. SEE ACTUAL SPACING REQUIREMENTS ABOVE AND IN DETAILS.	B/F SHT. L-03
NO SYMBOL	RAIN BIRD	CONNECTION BETWEEN XFS DRIP TUBING AND PVC SUPPLY AND DISCHARGE HEADERS SHALL BE MADE USING XFS DRIP LINE BARBED FITTINGS, SCH. 40 PVC THREADED FITTINGS, SCH. 80 NIPPLES AND FLEXIBLE NIPPLES. WHEN THE CONNECTION IS AT THE END RUN OF THE TUBING USE A 1/2" SCH. 40 PVC THREADED 90° ELBOW, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MPT X FPT FLEXIBLE NIPPLE, AND A XFF-MA-050 17mm BARB X 1/2" MPT ADAPTER FITTING. WHEN THE CONNECTION IS IN THE MIDDLE OF THE TUBING RUN USE A 1/2" SCH. 40 PVC THREADED TEE FITTING, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MPT X FPT FLEXIBLE NIPPLE, AND TWO (2) XFF-MA-050 17mm BARB X 1/2" MPT ADAPTERS. ALL END RUNS OF TUBING SHALL BE CONNECTED WITH A PVC DISCHARGE HEADER. FLEXIBLE NIPPLES SHALL BE MODEL #GFM050600 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684.	
NO SYMBOL	RAIN BIRD	XF SERIES 17mm BARBED FITTINGS FOR ALL CONNECTIONS BETWEEN DRIP TUBING (TUBING-TO-TUBING ONLY). ALL BARBED DRIP TUBING FITTINGS SHALL BE INSTALLED USING A FITNS=TOOL FOR PROPER INSERTION OF THE FITTING INTO THE TUBING. NO HEATING OF TUBING SHALL BE ALLOWED.	
AS APPROVED		PVC SUPPLY AND DISCHARGE HEADERS SHALL BE PVC LATERAL LINE PIPE (AS SHOWN BELOW), 1 1/4" MINIMUM SIZE WITH SCH. 40 PVC FITTINGS.	B/F SHT. L-03
	GPH IRRIG. / RAIN BIRD	GPH DRIP FLUSH / INDICATOR NOZZLE, ORANGE IN COLOR, INSTALLED ONTO A RAIN BIRD 1812 12" POP-UP SPRINKLER BODY. THE FLUSH NOZZLE SHALL BE ORIENTED TO SEND FLUSH WATER INTO THE PLANTER AREA AND CLOSED FOR NORMAL OPERATION OF THE DRIP SYSTEM.	G SHT. L-03
	RAIN BIRD	ARV500 AIR/VACUUM RELIEF VALVE INSTALLED WITH A XFD-TFA-075 BARB X BARB X 3/4" FPT TEE FITTING AND A AND A 3/4" X 1/2" SCH. 40 PVC THREADED REDUCER BUSHING. INSTALL AIR RELIEF ASSEMBLY AT THE HIGH POINT OF EACH PLANTER. SEE PLANS FOR APPROXIMATE LOCATION AND QUANTITY OF ARV'S PER DRIP ZONE. USING AN AIR RELIEF LATERAL, CONSTRUCTED OF XFD "BLANK" XF TUBING, CONNECT AIR RELIEF VALVE TO ALL DRIP LINE LATERALS WITHIN THE ELEVATED AREA. MULTIPLE ARV'S MAY BE REQUIRED PER DRIP TUBING ZONE. SEE PLANS. INSTALL INSIDE A 7" ROUND VALVE BOX.	I SHT. L-03
	RAIN BIRD	XXX-PEB PLASTIC DRIP REMOTE CONTROL VALVE, SIZE AS SHOWN (17"). INSTALL A DISC FILTER AND AN INLINE PRESSURE REGULATOR ON THE DOWNSTREAM SIDE OF EACH DRIP REMOTE CONTROL VALVE (DRCV). INSTALL 1" DRCV'S INSTALL A RAIN BIRD LCRBY-1000 DISC FILTER AND A SENNINGER 1" PWR-40-MF PRESSURE REGULATOR. FOR THE DRCV ASSEMBLY INSTALL A NDS 314BC RECTANGULAR VALVE BOX. INSTALL 2-WIRE DECODER COMPATIBLE WITH DISTRICT CONTROLLER.	H SHT. L-03
AS APPROVED		PVC PIPE 1" - 1 1/2" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES INSTALLED 12" BELOW FINISHED GRADE	G SHT. L-03
AS APPROVED		CL-315 PVC MAINLINE PIPE - 2" AND LARGER SCH 40 PVC PURPLE PIPE MAINLINE PIPE - 1 1/2" AND SMALLER . 2" DIA. OR SMALLER -18" MIN. COVER. ALL MAINLINE TO BE INSTALLED WITH TRACER WIRE. ALL MAINLINE SHALL BE PURPLE.	G SHT. L-03
AS APPROVED		PVC PIPE SCH. 40 AS SLEEPING, 2 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED (2" MINIMUM SIZE) INSTALL ALL PIPE AND WIRE UNDER PAVING, HARDSCAPE, ETC. (OR AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE) INSIDE SLEEVES. SLEEVES UNDER PEDESTAL PAVING SHALL BE INSTALLED 24" BELOW FINISHED GRADE. ALL MAINLINE SLEEVES ARE TO BE CONSIDERED EXISTING VERIFY LOCATION IN FIELD.	D SHT. L-03
NO SYMBOL	AS APPROVED	ALL SOLVENT WELD CONNECTIONS FOR BOTH MAINLINE AND LATERAL LINE SHALL BE MADE USING THE TWO-STEP PROCESS OF PRIMER AND SOLVENT CEMENT. PRIMER SHALL BE LOW VOC "PURPLE PRIMER". MAINLINE SOLVENT CEMENT SHALL BE WELD-ON 711 PVC INDUSTRIAL GRADE CEMENT. LATERAL LINE SOLVENT CEMENT SHALL BE WELD-ON 711 PVC INDUSTRIAL GRADE CEMENT. USE DAUBERS SIZED AT LEAST ONE-HALF THE SIZE OF THE LARGEST PIPE BEING JOINED. ALL SOLVENT CEMENTED JOINTS SHALL BE MADE PER THE PIPE AND FITTING MANUFACTURER'S RECOMMENDATIONS.	
	NDS	1-1/4" MINIMUM SCH. 40 PVC ELECTRICAL CONDUIT FOR 2-WIRE SYSTEM WITH ELECTRICAL SWEEPS. PROVIDE PULL BOXES PER PLAN.	
	NDS	NDS 312BC ROUND SPICE BOX FOR LOW VOLTAGE CONTROL WIRE.	
NO SYMBOL	3M	DBR/Y-6 DIRECT BURIAL (I.L. APPROVED) WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE SPLICES AND CONNECTIONS	A SHT. L-03
NO SYMBOL	NDS	ALL VALVE BOXES SHALL BE NDS SERIES, PLASTIC TYPE WITH OVERLAPPING LIDS. VALVE BOX BODIES SHALL BE PURPLE IN COLOR. LIDS FOR BOXES SHALL BE PURPLE LIDS. ALL BOXES SHALL BE SECURED WITH A RAIN BIRD VB-LOCK-P PENTA HEAD BOLT, WASHER AND CLIP.	J SHT. L-03



ACCEPTED _____ DATE: _____

BY: PUBLIC WORKS DIRECTOR

RECOMMENDED _____ DATE: _____

BY: RENE GUERRERO, P.E., RCE NO. 66263, CITY ENGINEER

CITY OF POMONA
PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION
LINCOLN PARK IMPROVEMENT

IRRIGATION LEGEND AND NOTES

SCALE: AS SHOWN

DESIGNED: _____ SHT. L-03

DRAWN: _____

CHECKED: _____

REVIEWED: _____

17 SHTS

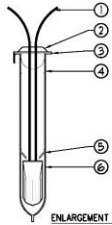
PLANS PREPARED UNDER THE SUPERVISION OF:

ROBERT STONE, RLA 1891 DATE: _____



NOTES:
1. KIT SHALL INCLUDE A SCOTCHLOK Y SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PREFILLED WITH GEL.
2. DIRECT BURY SPRUCE KIT SHALL BE USED TO ELECTRICALLY CONNECT 2-3 #14 OR TWO (2) #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION.

- ① LOW VOLTAGE WIRES, THREE (3) MAXIMUM
- ② WIRES PASS THROUGH GROOVES IN TUBE LID TO ALLOW LID TO CLOSE
- ③ CLOSE TUBE LID AFTER WIRE IS INSERTED INTO TUBE
- ④ POLY TUBE PRE-FILLED WITH WATERPROOF GEL
- ⑤ LOCK TABS PREVENT WIRE REMOVAL ONCE CONNECTOR IS INSERTED
- ⑥ SCOTCHLOK ELECTRICAL SPRING CONNECTOR. WIRES SHALL BE PRE-STRIPPED OF 1/2" OF THE INSULATION PRIOR TO INSERTION INTO THE CONNECTOR. TWIST CONNECTOR ONTO WIRES TO SEAT FIRMLY. SCOTCHLOK CONNECTOR AND WIRES INSERTED INTO TUBE UNTIL THE CONNECTOR PASSES LOCK TABS



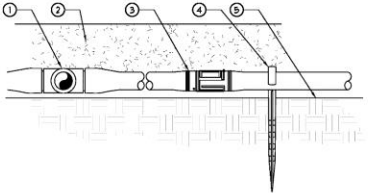
ENLARGEMENT

A TYPICAL WIRE CONNECTION

SCALE: NTS

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- ① TEE
- ② TOP OF MULCH
- ③ PRESSURE-COMPENSATING IN-LINE EMITTER TUBING PER LEGEND. INSTALL AT 2" DEPTH MAX.
- ④ THE DOWN STAKE
- ⑤ FINISH GRADE



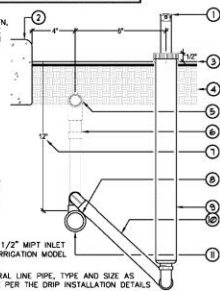
B DRIPLINE INSTALLATION

SCALE: NTS

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NOTES:
INSTALL INDICATOR HEAD 10" FROM THE EDGE OF PAVING OR THE PLANTER EDGE.
INSTALL ORANGE COLORED INDICATOR NOZZLE ON POP-UP HEAD AND ADJUST TO FULLY CLOSED.

- ① POP-UP INDICATOR HEAD, WITH A GPH IRRIGATION DRIP FLUSH NOZZLE. MODEL #202N. ORANGE COLORED NOZZLE TO REMAIN IN THE CLOSED POSITION DURING SYSTEM OPERATION AND OPENED FOR SYSTEM FLUSHING. DIRECT FLUSH STRAIGHT INTO PLANTER.
- ② INSTALL POP-UP INDICATOR HEAD 10" OFF OF PAVEMENT OR THE EDGE OF PLANTED AREA SERVED BY DRIP TUBING.
- ③ INSTALL POP-UP INDICATOR HEAD 1/2" ABOVE FINISHED GRADE IN SHRUB AND GROUND COVER AREAS.
- ④ UNDISTURBED SOIL.
- ⑤ SUBSURFACE DRIP TUBING, DEPTH AS SHOWN ON LEGEND AND DETAIL.
- ⑥ DRIP CONNECTION ASSEMBLY, SEE DRIP TUBING CONNECTION DETAIL.
- ⑦ DISCHARGE HEADER SHALL BE INSTALLED 12" BELOW FINISHED SOIL GRADE, TYPICAL.
- ⑧ SOH 40 PVC 5/8" X 1/2" FITTING, LATERAL X LATERAL X 1/2" SIZE WITH TIGHT THREADS.
- ⑨ RAIN BIRD #12, 1/2" POP-UP HEAD.
- ⑩ PRE-ASSEMBLED POLY. TUBING JOINT, 1/2" MPT INLET AND OUTLET WITH A 12" LAY LENGTH, GPH IRRIGATION MODEL #202N2.
- ⑪ DRIP SYSTEM DISCHARGE HEADER, PVC LATERAL LINE PIPE, TYPE AND SIZE AS SHOWN ON LEGEND, OR 1 1/4" MINIMUM SIZE PER THE DRIP INSTALLATION DETAILS.



C DRIP FLUSH INDICATOR HEAD

SCALE: NTS

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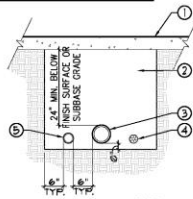


ATTENTION:
All utilities shown on this plan are based on available records. It shall be the sole responsibility of the contractor to verify all existing utilities by contacting utility agencies and to avoid contacting existing utilities during excavation.

FOR UNDERGROUND SERVICE ALERT CALL: 811

NOTES:
1. FINISH SURFACE, REFER TO CONSTRUCTION PLAN.
2. CLEAN SAND BACKFILL MINIMUM BOX COMPACTON.
3. PRESSURE MAINLINE IN SCHEDULE 40 SLEEVE - SIZE SLEEVE TWICE DIAMETER OF PRESSURE SUPPLY LINE.
4. CONTROL WIRES IN SLEEVE - SIZE PER PLAN. INSTALL ADJACENT TO PRESSURE SUPPLY LINE.
5. NON-PRESSURE LATERAL LINE IN SLEEVE TWICE DIAMETER OF LATERAL LINE.

- ① FINISH SURFACE, REFER TO CONSTRUCTION PLAN
- ② CLEAN SAND BACKFILL MINIMUM BOX COMPACTON
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- ⑤ NON-PRESSURE LATERAL LINE IN SLEEVE TWICE DIAMETER OF LATERAL LINE



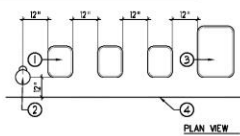
SECTION

D TYPICAL SLEEVING

SCALE: 3/4"=1'-0"

NOTES:
1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 2" ABOVE FINISH GRADE OR MULCH COVER IN GROUND-COVER/SHRUB AREA AND 1" ABOVE FINISH GRADE IN TURF AREA.
3. SET RVC AND VALVE BOX ASSEMBLY IN GROUND-COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUND-COVER DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. BRAND VALVE BOX WITH CONTROLLER LETTER AND VALVE NUMBER USING 1 1/2" - 2" LETTERING.

- ① TYPICAL 16"x21" RECTANGULAR VALVE BOX
- ② TYPICAL QUICK COUPLING VALVE
- ③ TYPICAL 19"x26" OR LARGER VALVE BOX
- ④ EDGE OF LAWN, WALK, FENCE, CURB, ETC.



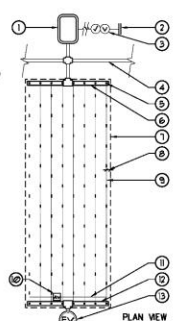
PLAN VIEW

E VALVE BOX INSTALLATION

SCALE: 1/2"=1'-0"

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- ① REMOTE CONTROL VALVE WITH FILTER AND PRESSURE REGULATOR. REFER TO LEGEND AND PLANS FOR SPECIFICATIONS.
- ② POINT OF CONNECTION, REFER TO PLANS.
- ③ BACKFLOW PREVENTER, REFER TO LEGEND AND PLANS FOR SPECIFICATIONS.
- ④ LATERAL LINE TO NEXT PLANTER BED.
- ⑤ MANHOLE-TO-ELBOW CONNECTION.
- ⑥ PVC SUPPLY MANHOLE.
- ⑦ AREA PERIMETER.
- ⑧ PERIMETER LATERALS 2" TO 4" FROM EDGE.
- ⑨ DRIPLINE.
- ⑩ AIR/VACUUM RELIEF VALVE (PLUMBED TO TUBING AT EACH HIGH POINT) REFER TO LEGEND FOR SPECIFICATIONS.
- ⑪ AIR RELIEF LATERAL BLANK TUBING CENTERED ON MOUND OR BERM.
- ⑫ PVC FLUSH MANHOLE.
- ⑬ AUTOMATIC FLUSH VALVE PLUMBED TO TUBING. REFER TO LEGEND FOR SPECIFICATIONS.



PLAN VIEW

F END FEE INLINE DRIP

SCALE: NTS

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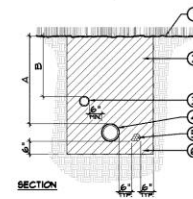


PLANS PREPARED UNDER THE SUPERVISION OF:

ROBERT S. STONE
R E A 12591
C.E.P.

NOTES:
1. FINISH GRADE, REFER TO CONSTRUCTION PLAN.
2. CLEAN BACKFILL - 30% COMPACTION REQUIRED.
3. NON-PRESSURE LATERAL LINE. SNAKE PIPE IN TRENCH.
4. PRESSURE SUPPLY LINE. SNAKE PIPE IN TRENCH.
5. CONTROL WIRES - BUNDLE AND TAPE AT 10" O.C. AND INSTALL ADJACENT TO PRESSURE SUPPLY LINE.

- ① FINISH GRADE, REFER TO CONSTRUCTION PLAN
- ② CLEAN BACKFILL - 30% COMPACTION REQUIRED
- ③ NON-PRESSURE LATERAL LINE. SNAKE PIPE IN TRENCH
- ④ PRESSURE SUPPLY LINE. SNAKE PIPE IN TRENCH
- ⑤ CONTROL WIRES - BUNDLE AND TAPE AT 10" O.C. AND INSTALL ADJACENT TO PRESSURE SUPPLY LINE



SECTION

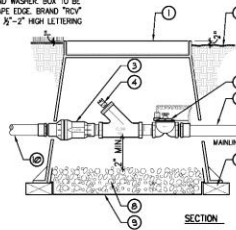
G TYPICAL TRENCHING

SCALE: 3/4"=1'-0"

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NOTES:
1. FINISH GRADE: 1" BELOW FINISH SURFACE ADJACENT TO TURF AND 2" BELOW ADJACENT TO NON-TURF AREAS.

- ① PLASTIC RECTANGULAR 'JUMBO' VALVE BOX WITH BOLT DOWN COVER. USE STAINLESS BOLT, NUT, AND WASHER BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. BRAND 'TODY' AND CONTROL STATION # ONTO LID. 1/2" - 2" HIGH LETTERING.
- ② FINISH GRADE
- ③ PRESSURE REGULATOR, REFER TO LEGEND
- ④ WYE FILTER, REFER TO LEGEND
- ⑤ R.C.V., REFER TO LEGEND
- ⑥ PVC MAINLINE
- ⑦ BRICK SUPPORT(S)
- ⑧ 2" WASHED CRUSHED GRAVEL
- ⑨ LANDSCAPE FABRIC TO COVER BOTTOM AND ALL SIDES OF VALVE BOX
- ⑩ PVC TO DRIP SYSTEM



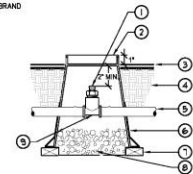
SECTION

H DRIP RVC ASSEMBLY

SCALE: NTS

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- ① AIR / VACUUM RELIEF VALVE, INSTALL AT THE HIGH POINT OF THE SYSTEM
- ② PLASTIC ROUND VALVE BOX, 7" SIZE, HEAT BRAND "TODY" ONTO LID.



I DRIP AIR RELIEF VALVE

SCALE: NTS

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ACCEPTED
BY: _____ DATE: _____
RECOMMENDED
BY: _____ DATE: _____
CITY OF POMONA
PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION
LINCOLN PARK IMPROVEMENT

IRRIGATION DETAILS

SCALE: AS SHOWN
DESIGNED: J.A.
CHECKED: M.
REVIEWED: SS
SHEET: 17 OF 17
DATE: 12/09/16

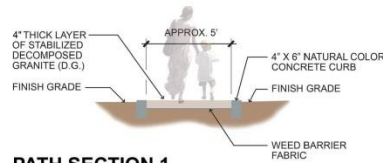
EXISTING PLANT LEGEND

BOTANICAL NAME	COMMON NAME
1 ABELIA GRANDIFLORA	GLOSSY ABELIA
2 CAMELLIA SPP.	CAMELLIA
3 CINNAMOMUM CAMPHORA	CAMPHOR TREE
4 CUPANOPSIS ANACARDIOIDES	CARROTWOOD
5 FELICIA SELLOWIANA	PINEAPPLE GUAVA
6 FRAXINUS SPP.	ASH
7 JUNIPERUS SPP.	JUNIPER
8 LAGERSTROEMIA SPP.	CRAPPE MYRTLE
9 PITTOSPORUM TOBIRA	MOCK ORANGE
10 PITTOSPORUM TOBIRA VARIEGATA	MOCK ORANGE
11 PLATANUS RACEMOSA	CALIFORNIA SYCAMORE
12 PYRUS SPP.	EVERGREEN PEAR
13 QUERCUS AGRIFOLIA	COAST LIVE OAK
14 QUERCUS SUBER	CORK OAK
15 RHAPHIOLEPIS SPP.	INDIAN HAWTHORN
16 VACCINIUM SPP.	BLUEBERRIES
17 WASHINGTONIA SPP.	FAN PALM
18 LAURUS NOBILIS	SWEET BAY

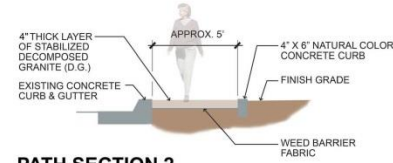
CONSTRUCTION LEGEND

- A** 5' WIDE DECOMPOSED GRANITE PATH. REFER TO SECTIONS HEREON.
- B** EXISTING TREES & SHRUBS SHALL REMAIN & BE PROTECTED. #S DENOTE PLANT MATERIAL PER PLANT LEGEND HEREON.
- C** MEDIAN WITH PAINTED CROSS WALK, RUNNING FROM PARK TO RESIDENTIAL SIDE OF STREET.
- D** DENOTES PROPOSED BULB-OUT.
- E** EXISTING PLANTER WALL SHALL REMAIN, BE PROTECTED & REPAIRED.
- F** EXISTING TOT LOT AND PLAY EQUIPMENT SHALL REMAIN & BE PROTECTED.
- G** EXISTING RESTROOM BUILDING SHALL REMAIN & BE PROTECTED.
- H** EXISTING SHADE STRUCTURE SHALL REMAIN & BE PROTECTED.
- I** EXISTING PLAZA SHALL BE REFURBISHED:
 - RESURFACING FOR ADA ACCESSIBILITY.
 - EXISTING CONCRETE MOSAIC PAVING TO BE REMOVED AND REPLACED WITH STABILIZED D.G.
 - MOSAIC BAND TO BE RESET AT BASE OF TREE PLANTER SHALL BE SET IN STABILIZED DECOMPOSED GRANITE (D.G.)
 - EXISTING BBQ'S, TRASH RECEPTACLES, & THREE (3) EXISTING PICNIC TABLES SHALL REMAIN & BE PROTECTED. ONE (1) NEW ADA PICNIC TABLE SHALL BE INCLUDED IN PLAZA.
- J** NEW TURF AREA
- K** SUCCULENT PLANTING AREA
- L** RECYCLED BRICK PAVING

SITE LAYOUT PLAN LINCOLN PARK CITY OF POMONA, CA



PATH SECTION 1



PATH SECTION 2



VIEW LEGEND

- 1** COMO DR. & N. PALOMARES ST.
- 2** COMO DR. & E. JEFFERSON AVE.
- 3** N PALOMARES ST. & E. JEFFERSON AVE.
- 4** N. PALOMARES ST. & LINCOLN AVE.

NOTE:
1. VIEWS CORRESPOND TO STREET VIEW PERSPECTIVE DESIGN SIMULATIONS.
2. PROPOSED BULB-OUT IRRIGATION FOR NEW BULB-OUT PLANTING AREAS SHALL BE TIED-INTO HOMEOWNER IRRIGATION SYSTEM.



NOTE

- 1. REFER TO SHEET LP-03 FOR COMPLETE PLANT LIST, NOTES AND DETAILS.

ACCEPTED	
BY: _____	DATE: _____
PUBLIC WORKS DIRECTOR	
RECOMMENDED	
BY: _____	DATE: _____
RICH GUERRERO, P.E., RCE NO. 00626, CITY ENGINEER	
CITY OF POMONA	
PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION	
LINCOLN PARK IMPROVEMENT	
LANDSCAPE SITE PLAN	
SCALE: AS SHOWN	DESIGNED: TM CHECKED: TM REVIEWED: RS
SHT. LP-01	OF 17 SHEETS



PLANS PREPARED UNDER THE SUPERVISION OF:

ROBERT STONE RLA 1891 DATE



REVISIONS	DATE	INITIALS



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FOR UNDERGROUND SERVICE ALERT CALL: 811