

CITY OF LOS ALAMITOS
Council Chamber
3191 Katella Ave., Los Alamitos CA 90720

TRAFFIC COMMISSION AGENDA
REGULAR MEETING

Wednesday, December 10, 2025 – 6:00 PM

NOTICE TO THE PUBLIC - This Agenda contains a brief general description of each item to be considered. Except as provided by law, action or discussion shall not be taken on any item not appearing on the agenda. Supporting documents, including staff reports, are available for review at City Hall in the City Clerk's Office or on the City's website at www.cityoflosalamitos.org once the agenda has been publicly posted.

Each matter on the agenda, no matter how described, shall be deemed to include any appropriate motion, whether to adopt a minute motion, resolution, payment of any bill, approval of any matter or action, or any other action. Items listed as "for information" or "for discussion" may also be the subject of an "action" taken by the City Council at the same meeting.

Agenda-related documents provided to a majority of the City Council after distribution of the Traffic Commission agenda packet (GC §54957.5) will be made available for public inspection at the meeting. Such documents will also be available at the City Clerk's office, 3191 Katella Avenue Los Alamitos, CA 90720.

In compliance with the Americans with Disabilities Act, Assistive Listening headphones are available and can be checked out from the City Clerk. If you need special assistance to participate in this meeting, please contact the City Clerk at (562) 431-3538, ext. 220. Notification at least 42 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting. [28 CFR 35.102.35 ADA Title II]. Language translation services are available for this meeting by calling the City Clerk's Office at least 42 hours in advance.

If you are unable to attend this meeting in person, you may submit comments on any agenda item or on any item not on the agenda by email to cityclerk@cityoflosalamitos.org with the subject line "TRAFFIC COMMISSION PUBLIC COMMENT". Comments received by 3:00 p.m. the day of the meeting will be compiled, provided to the City Council, and made available to the public before the start of the meeting. Staff will not read email comments at the meeting. You may also view the meeting live on local cable channel 3.

If, as an attendee, or a participant at this meeting, you will need special assistance beyond what is normally provided, please contact the City Clerk's Office at (562) 431-3538, extension 220, 48-hours prior to the meeting so that reasonable arrangements may be made.

1. CALL TO ORDER

2. ROLL CALL

Chair Mejia
Vice Chair R. Hill
Commissioner D. Hill
Commissioner Marchese
Commissioner Murphy
Commissioner Patz
Commissioner Rojas

3. PLEDGE OF ALLEGIANCE

4. ORAL COMMUNICATIONS

At this time, any individual in the audience may address the Traffic Commission and speak on any item within the subject matter jurisdiction of the Commission. Please state if you wish to speak on an item on the Agenda. **Remarks are to be limited to not more than three minutes.**

5. CONSENT CALENDAR

All Consent Calendar items may be acted upon by one motion unless a Traffic Commissioner requests separate action on a specific item.

A. Approval of the October 8, 2025 Minutes

Recommendation:

Recieve & File.

6. STAFF REPORTS

7. DISCUSSION

A. Pine Street Project PS&E

Currently, Pine Street serves as the downtown corridor of Los Alamitos, hosting many of our community events. The goal of this project is to revitalize Pine Street to reflect a true main-street atmosphere that supports and enhances the events held along the corridor. The project will transform Pine Street into the City's "Main Street" by creating a walkable, welcoming, and vibrant mixed-use Town Center district.

The proposed complete-street improvements include new sidewalks, ADA enhancements, LED lighting, street furniture, street trees, wayfinding signage, enhanced pedestrian crossings, and an entry plaza with a gateway monument. The corridor will also be designed to allow for temporary closure to traffic for City events, markets, and celebrations—strengthening its role as the heart of downtown Los Alamitos.

In addition, this investment directly supports the City's Economic Development initiatives by creating an attractive and pedestrian-friendly environment that encourages foot traffic, supports local businesses, and invites new commercial opportunities. A revitalized Pine Street will help stimulate business activity, attract visitors, increase storefront visibility, and foster a stronger sense of place—ultimately contributing to the community's long-term economic vitality and growth.

Recommendation:

Receive and File.

B. Traffic Commission Status Log

8. ITEMS FROM THE DEVELOPMENT SERVICES DEPARTMENT

9. TRAFFIC COMMISSION INITIATED BUSINESS

At this time, Commissioners may report on items not included on the agenda, but no such matter may be discussed, nor may any action be taken in which there is interest to the community, except as to provide Staff direction to report back or to place the item on a future agenda.

10. ADJOURNMENT

I hereby certify under penalty of perjury under the laws of the State of California, that the foregoing Agenda was posted at the Los Alamitos City Hall, 3191 Katella Ave. and online at www.cityoflosalamitos.org not less than 72 hours prior to the meeting.



Gabriela Martinez
Department Secretary

MINUTES OF TRAFFIC COMMISSION MEETING OF THE CITY OF LOS ALAMITOS

REGULAR MEETING – October 8, 2025

1. CALL TO ORDER

The Traffic Commission met in Regular Session at 6:01 p.m. on Wednesday, October 8, 2025. Chair Mejia presiding.

2. ROLL CALL

Present: Commissioners: Chair Mejia,
Vice Chair R. Hill
D. Hill, Marchese (late), Murphy (excused),
Patz, and Rojas (late)

Present: Staff: Irving Montenegro Jr., Development Services
Manager
Chris Kelley, City Engineer
Farhad Iranitalab, City Engineer
Gabriela Martinez, Department Secretary

3. PLEDGE OF ALLEGIANCE

Commissioner D. Hill led the Pledge of Allegiance.

4. PRESENTATION

A. Commission Handbook

Development Services Manager Montenegro Jr. shared the PowerPoint presentation on the Commission Handbook.

Traffic Commissioners suggested the following ideas for future Commission meetings:

- To have the meeting agenda displayed on the above-head TV screen for future meetings.
- If projection of the agenda could not be displayed on the above-head TV, then move the portable TV Infront of the Dias for better visibility of the agenda.

Commissioner Rojas joined the Traffic Commission Meeting at 6:07p.m.

5. ORAL COMMUNICATION

Chair Mejia opened oral communications.

Development Services Manager Montenegro Jr. introduced new Development Services Intern Priyal Bhalani.

Development Services Intern Bhalani introduced herself to the Traffic Commission.

Chair Mejia closed oral communications.

6. CONSENT CALENDAR

A. Approval of the August 13, 2025, Traffic Commission Minutes

Motion/Second: Patz/R. Hill

Carried 5/0 (Murphy excused, Marchese absent): The Traffic Commission approved the Regular Meeting Minutes of August 13, 2025.

B. Approval of the September 10, 2025, Traffic Commission Minutes

Motion/Second: Patz/R. Hill

Carried 5/0 (Murphy excused, Marchese absent): The Traffic Commission approved the Regular Meeting Minutes of September 10, 2025.

7. DISCUSSION

A. Traffic Concern - Dropped Through Lane (Los Alamitos Boulevard from Katella Avenue to Florista Street)

Development Services Manager Montenegro Jr. introduced Discussion Item A.

City Engineer Iranitalab shared the staff report with the Traffic Commission.

Traffic Commissioners asked for and received clarification from City Engineers Iranitalab and Kelley regarding the following items:

- The potential installation of bollards (in any variation) to prevent vehicles from cutting through the right-turn lane before Florista Street after the Los Alamitos Boulevard and Katella Avenue intersection
- Extending the transition lane between Katella Avenue and Florista Street.
- Reintroducing high-reflective Botts' dots and adding high-reflective striping paint.
- Adding a right-turn arrow prior to the Florista Avenue driveway.

Chair Mejia asked and received clarification from City Engineer Kelley if photos are taken and saved when new striping projects are done within the city.

Chair Mejia and Commissioner Patz expressed concern after reading online comments from residents who were attributing city changes to the Traffic Commission, even though those changes had not been presented to or approved by the commission.

Commissioner R. Hill made a motion to have the Traffic Engineer examine the merging lane North of Katella Avenue on Los Alamitos Boulevard that impacts the right turn lane before Florista Avenue and bring back the item for further discussion.

Motion/Second: R. Hill/Rojas

Carried 5/0 (Murphy excused, Marchese absent): The Traffic Commission approved the motion to have the Traffic Engineer examine the merging lane North of Katella Avenue on Los Alamitos Boulevard that impacts the right turn lane before Florista Avenue and bring back the item for further discussion.

B. Pavement Markings Modification on Cerritos Avenue West of Humbolt Avenue Intersection

City Engineer Kelley and Iranitalab shared the Staff Report.

Traffic Commissioners received clarification from City Engineers Kelley and Iranitalab in response to the following items:

- Feasibility of creating left-turn pockets for all westbound driveways on Cerritos Avenue.
- Comments and concerns raised by surrounding business owners regarding the proposed modifications.
- Potential safety impacts to the public resulting from the planned roadway changes.
- Confirmation that adequate space would remain to accommodate large vehicles, including 18-wheelers.

Commissioner Marchese arrived in the Traffic Commission meeting at 6:56 pm.

Business owner Seeley took to the podium to advocate for traffic concerns on Discussion Item B. She touched briefly on the following:

- Safety
- Individuals following/not following traffic rules.
- Trusts the city and commission to make the right decision with this item.

President of the Board at We Care Miller took to the podium to also share advocacy for Discussion Item B by speaking on the benefits of restriping to help with traffic safety.

Commissioner Patz made a motion to approve Discussion Item B, Pavement Markings Modification on Cerritos Avenue West of Humbolt Avenue Intersection to reflect the recommendation of the 90 foot taper.

Motion/Second: Patz/R. Hill

Carried 6/0 (Murphy excused): The Traffic Commission approved the motion to the Pavement Markings Modification on Cerritos Avenue West of Humbolt Avenue Intersection to reflect the recommendation of the 90 foot taper.

8. STAFF REPORT

A. Request for Loading/Unloading zone – Rise Up Athletics

Development Services Manager Montenegro Jr. introduced Staff Report.

City Engineer Iranitalab provided his recommendation to the Staff report.

Commissioner Rojas asked for clarification from City Engineer Iranitalab regarding the number of potential parking spaces that could be gained and/or lost.

Rise Up Athletics Owner, Cheryl Vuong took to the podium and advocated for the Request for Loading/Unloading zone and also provided clarification to the Traffic Commission on the following:

- Transition times between classes being held
- The various red zone congestion times
- Various days the addition of the loading/unloading zone would be helpful

City Engineer Iranitalab clarified further the location and length of the requested Loading/Unloading zone and that the already present parking would not be altered.

Development Services Manager Montenegro Jr. shared from previous discussions and experience that taking away parking will always be counter productive and supports City Engineer Iranitalab recommendation to turn the red zone into a white loading/unloading zone.

The Traffic Commissioners shared thoughts and discussed the following:

- Parents choosing to stay longer periods of time should utilize a parking spot.

- Partial conversion of the red zone into a white loading/unloading zone, still leaving 20foot red marking.
- Install additional surrounding signage.
- Start with the zone adjustments before opting to remove parking.

Commissioner Marchese shared with the Commission the importance of signage and would like to see more to help with the changes.

Chair Mejia shared the Commission's main objective is to protect the safety of the patrons and help make loading/unloading a smooth easy process.

Vice Chair R. Hill made motion to add a loading zone from as much of the red curb zone as possible and add one additional car-length space with signage stating Monday-Thursday from 3:30pm - 8pm.

Motion/Second: R. Hill/Rojas

Carried 6/0 (Murphy excused): The Traffic Commission approved the motion to add a loading zone from as much of the red curb zone as possible and add one additional car length space with signage stating Monday-Thursday from 3:30pm - 8pm.

Chair Mejia asked and received clarification from City Engineer Kelley on the timeline for the proposed changes.

B. Bloomfield Avenue ATP Project

Development Services Manager Montenegro Jr. introduced the Staff Report.

City Engineer Kelley shared the Staff Report along with a reference video to demonstrate the operation of a High-Intensity Activated Crosswalk(HAWK) system.

The Traffic Commissioners asked and received clarification from both City Engineers Kelley and Iranitalab on the following:

- The need for a HAWK System.
- The duration of the project and how it will impact the surrounding area.
- The location of the HAWK System.
- Pre-existing conduit systems already in place.
- Advantages of a HAWK System versus a regular crosswalk signal.

This item is Receive & File.

C. Traffic Commission Status Log

Vice Chair R. Hill asked and received clarifications on items E3 & E5 from City Engineer Iranitalab that item E3 has been completed and recommended moving the item to the completed portion of the Traffic Commission Traffic Log. Development Services Manager Montenegro Jr. shared Item E5 is recommended to leave as pending until the construction is complete.

Commissioner D. Hill asked and received clarification on item C3 from Development Services Manager Montenegro Jr. that it is currently pending the presentation to the City Council.

Chair Mejia asked and received clarification on item E1 from City Engineer Kelley that it has been completed and recommended moving the item to the completed portion of the Traffic Commission Traffic Log.

9. ITEMS FROM THE DEVELOPMENT SERVICES DEPARTMENT

Development Services Manager Montenegro Jr. shared the following:

- The last Nites on Pine Event will be taking place on October 9th with a performance from The Emperors.

10. TRAFFIC COMMISSION INITIATED BUSINESS

The Traffic Commission shared the following:

- Los Alamitos Oak Middle School was highlighted on KTLA Channel 5 News for riding your bike or walking to school day.
- Happy to have residents attend and speak at meetings.

11. ADJOURNMENT

The Traffic Commission adjourned the meeting at 8:05 p.m. to November 12, 2025.

Attest:

Javier Mejia, Chair

Gabriela Martinez, Department Secretary

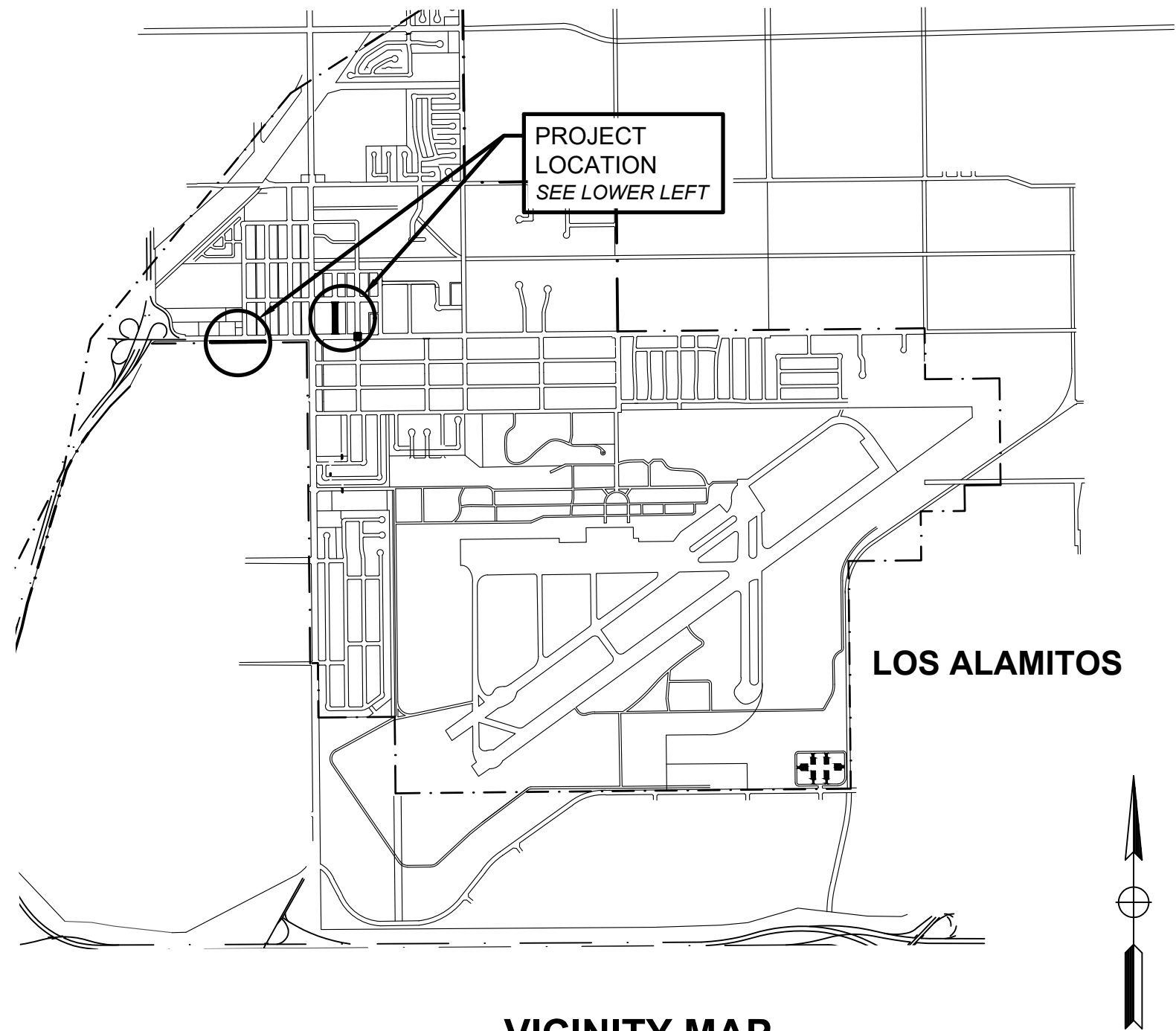
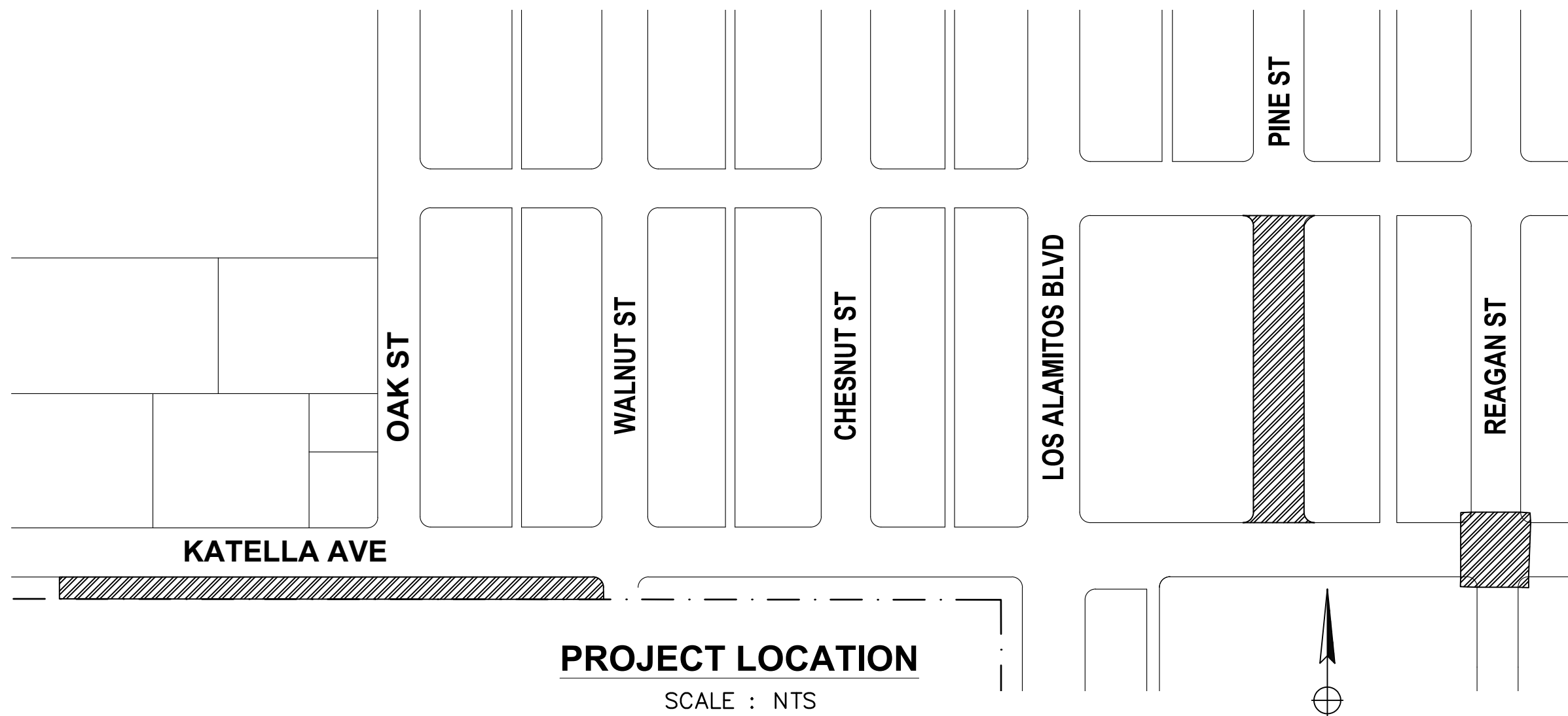
ABBREVIATIONS:

AB	AGGREGATE BASE	MSE	MECHANICALLY STABILIZED EARTH
AC	ASPHALT CONCRETE	NIC	NOT IN CONTRACT
ANG	ANGLE	NTS	NOT TO SCALE
AP	ANGLE POINT	NW	NORTHWEST
ARHM	ASPHALT RUBBER HOT MIX	O.C.	ON CENTER, OWNERS CONDUIT
ASPH	ASPHALT	OG	ORIGINAL GROUND
BEG	BEGIN	PB	PULL BOX
BW	BACK OF WALK	PCC	PORTLAND CEMENT CONCRETE/
CAB	CRUSHED AGGREGATE BASE	P/L	POINT OF COMPOUND CURVATURE
CB	CATCH BASIN	PROP	PROPERTY LINE
CD	CURB DRAIN	PVI	PROPOSED
℄, C/L	CENTER LINE	R/W	RIGHT OF WAY
C&G	CURB & GUTTER	RCP	REINFORCED CONCRETE PIPE
CLR	CLEAR	RT	RIGHT
CONST	CONSTRUCT	RW	RECLAIMED WATER
DET	DETAIL	S	SANITARY SEWER
D/W	DRIVEWAY	SCE	SOUTHERN CALIFORNIA EDISON
E'LY	EASTLY	SE	SOUTHEAST
EG	EDGE OF GUTTER	SF	SQUARE FOOT
ESMT	EASEMENT	SD	STORM DRAIN
EP	EDGE OF PAVEMENT	SMH	SEWER MANHOLE
EL	ELEVATION	STA	STATION
EX\EXIST	EXISTING	STD	STANDARD
FD	FOUND	SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
FF	FINISHED FLOOR	SW	SIDEWALK
FO	FIBER OPTIC CABLE	TBD	TO BE DETERMINED
FS	FINISHED SURFACE	TC	TOP OF CURB
FL	FLOW LINE	TD	TOP OF DITCH
H	HEIGHT	TF	TOP OF FOOTING
HMA	HOT MIX ASPHALT	TLP	TOP OF LEVELING PAD
HP	HINGE POINT	TRANS	TRANSITION
INV	INVERT	TW	TOP OF WALL
JPCP	JOINTED PLAIN CONCRETE PAVEMENT	TYP	TYPICAL
L	LENGTH	UGU	UNDERGROUND UTILITIES
LT	LEFT	VAR	VARIES
LAT	LATERAL	VL	VAULT
LF	LINEAR FOOT	W'LY	WESTLY
LOL	LAYOUT LINE	W	WIDTH, WATER
MAX	MAXIMUM	WM	WATER METER
MBGR	METAL BEAM GUARD RAILING	WV	WATER VALVE
MIN	MINIMUM	Y/C	YELLOW CURB
MH	MANHOLE		



CITY OF LOS ALAMITOS
DEVELOPMENT SERVICES DEPARTMENT

LOS ALAMITOS RE-IMAGINE DOWNTOWN
STREET & BICYCLE CORRIDOR
IMPROVEMENT PROJECT
STPCML-5363(014)
FY 2025



VICINITY MAP

SCALE : NTS

INDEX SHEET

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	NOTES
3	DETAILS
4	TYPICAL SECTIONS
5-6	MEDIAN AND MISCELLANEOUS DETAILS
7	DEMOLITION PLAN
8-9	PLAN AND PROFILE STREET IMPROVEMENTS
10	STORM DRAIN PLAN AND PROFILES
11-12	REAGAN ST CURB RAMP AND MEDIAN DETAILS
13-14	KATELLA AVE BIKE PATH IMPROVEMENTS
15-17	SIGNING AND STRIPING PLANS
18-19	LANDSCAPE CONSTRUCTION PLANS
20-21	IRRIGATION PLAN
23-25	PLANTING PLAN
26-28	CONSTRUCTION DETAILS
29	IRRIGATION DETAILS
30	PLANTING DETAILS

AGENCIES TO BE NOTIFIED:

- CITY ENGINEER
3191 KATELLA AVENUE
LOS ALAMITOS, CA 90720-5600
(562) 431-3538 EXT. 100
- LOS ALAMITOS POLICE DEPARTMENT
3201 KATELLA AVENUE
LOS ALAMITOS, CA 90720
(562) 431-2255
- ORANGE COUNTY FIRE DEPARTMENT
3642 GREEN STREET
LOS ALAMITOS, CA 90720
(562) 431-6026
- LOS ALAMITOS POST OFFICE
10650 REAGAN STREET
LOS ALAMITOS, CA 90720
(562) 431-6547
- ROSSMOOR/LOS ALAMITOS
AREA SEWER DISTRICT
3243 KATELLA AVENUE
LOS ALAMITOS, CA 90720-0542
(562) 431-2223
- LOS ALAMITOS UNIFIED SCHOOL
DISTRICT
10293 BLOOMFIELD STREET
LOS ALAMITOS, CA 90720
(562) 799-4700
- OCTA-BUS STOPS
550 SOUTH MAIN STREET
ORANGE, CA 92668
(714) 560-5912
- CITY OF CYPRESS
5275 ORANGE AVENUE
CYPRESS, CA 90630
(714) 229-6700
- CITY OF LONG BEACH
333 WEST OCEAN BOULEVARD
LONG BEACH CA 90802
(562) 570-6383
- ROSSMOOR COMMUNITY SERVICES
DISTRICT(RCSD)
3001 BLUME DRIVE, ROSSMOOR, CA
90720
(562) 431-0525

UTILITY CONTACTS:

CENCO REFINING CO.	(562) 944-6111
ORANGE COUNTY SANITATION DIST.	(714) 962-2411
PACIFIC BELL	(714) 666-5716
ROSSMOOR/LOS ALAMITOS SEWER DIST.	(562) 431-2223
SOUTHERN CALIFORNIA EDISON CO.	(562) 981-8205
SOUTHERN CALIFORNIA GAS CO.	(714) 634-3133
GOLDEN STATE WATER COMPANY	(562) 907-9200
TIME-WARNER COMMUNICATION	(714) 895-6886
UNDERGROUND SERVICE ALERT	(800) 422-4133
VERIZON	(704) 375-6719

BENCHMARK STATEMENT

ELEVATIONS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), AS DERIVED FROM PUBLISHED ORANGE COUNTY BENCHMARK 1A-122-70. ALL UNITS ARE U.S. SURVEY FEET

REVISIONS

REFERENCES

CITY OF LOS ALAMITOS

LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE
CORRIDOR IMPROVEMENT PROJECT

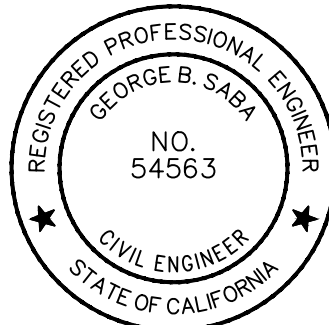
TITLE SHEET

PLAN NO.

SHEET 1 OF 30



Know what's below.
Call before you dig.



DRAWN BY	BR, RM	9/25/2025
CHECKED BY	GS	9/25/2025
DESIGNED BY	BR	9/25/2025
APPROVED	9/25/2025	
City Engineer	Date	

USER: BReyes
DATE: Sep 25, 2025 - 10:39am
FILE: W:\WE-C\Nba_alamitos_city_0113322_-_los_al_pine_street_complete_street_imp\900-PS&E\901-plans\PL-NOTE.dwg

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF LOS ALAMITOS, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2021 EDITION, ORANGE COUNTY PF&RD STANDARD PLANS, LATEST EDITION, AS SPECIFIED, AND SPPWC STANDARD PLANS, LATEST EDITION, AS SPECIFIED.
2. THE CONSTRUCTION AREA SHALL BE PROPERLY POSTED AND LIGHTED IN CONFORMANCE WITH THE STATE OF CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD) AND WATCH BOOK, LATEST EDITION.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND SHALL NOTIFY THE CITY ENGINEER, (562) 431-3538, AT LEAST 24 HOURS PRIOR TO ANY REQUIRED INSPECTIONS.
4. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT. OFF-SITE DISPOSAL OF LANDSCAPE DEBRIS, IRRIGATION MATERIAL, SOIL EXCAVATION MATERIAL, AND UNCLASSIFIED EXCAVATION MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN HIS BID. THE CONTRACTOR SHALL HOLD THE CITY AND ENGINEER HARMLESS AS A RESULT OF ANY CLAIMS ARISING FROM ACTIONS EN-ROUTE TO OR AWAY FROM THE SITE.
5. THE CONTRACTOR SHALL MAKE A PHYSICAL INSPECTION OF THE PROJECT SITE AND REPORT ALL VARIATIONS, INCONSISTENCIES, OR CHANGED CONDITIONS TO THE ENGINEER PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ASSUMPTIONS, REMEDIAL ACTIONS, OR ADAPTATIONS MADE IN THE FIELD WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
6. REPAIR OR REPLACE ALL DAMAGES OR ALTERATIONS TO EXISTING PUBLIC IMPROVEMENTS TO THE SATISFACTION OF THE CITY ENGINEER AT NO COST TO THE CITY.
7. ALL DIMENSIONS SHALL BE VERIFIED BY PLANS OR FIELD INSPECTION. AT NO TIME SHALL ANY DIMENSIONS BE SCALED FROM PLANS. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL VARIATIONS IN DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
8. ALL JOINTS AND JOIN LOCATIONS AND UNDERGROUND UTILITY LOCATIONS SHALL BE FIELD VERIFIED.
9. AT ALL TIMES, CURB FACE DIMENSIONS AND GUTTER AND SWALE GRADES SHALL BE MAINTAINED, UNLESS OTHERWISE NOTED.
10. CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY COMPANIES AND AFFECTED AGENCIES AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
15. ALL PORTLAND CEMENT CONCRETE (PCC) AND ASPHALTIC CONCRETE (AC) SHALL BE REMOVED TO A SAWCUT AND/OR EXISTING CONTROL JOINTS.
16. APPROVAL OF THESE PLANS BY THE CITY OF LOS ALAMITOS DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OR COMPLETENESS OF THE LOCATION OR THE EXISTENCE OR NONEXISTENCE OF ANY UNDERGROUND UTILITY OR SUBSTRUCTURE WITHIN THE LIMITS OF THE PROJECT.

SIGNING AND STRIPING GENERAL NOTES:

1. SIGNING STRIPING, AND LOOP REPLACEMENT AND THE INSTALLATION THEREOF SHALL CONFORM TO THE LATEST CALTRANS STANDARD PLANS AND SPECIFICATIONS, LATEST EDITION, THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), LATEST EDITION, THIS PLAN AND THE SPECIAL PROVISIONS.
2. ALL STRIPING AND MARKINGS SHALL BE INSTALLED AND REMOVED BY THE CONTRACTOR.
3. REMOVAL OF ALL CONFLICTING LINES AND MARKINGS SHALL BE BY GRINDING METHOD AND INCLUDES REMOVAL OF RAISED PAVEMENT MARKERS.
4. ALL LANE STRIPING AT INTERSECTION APPROACHES WITHOUT CROSSWALK OR LIMIT LINES SHALL END 10 FEET FROM THE EXTENSION OF THE INTERSECTION CURB LINES.
5. ALL STRIPING DETAILS AND PAVEMENT LEGENDS SHALL BE THERMOPLASTIC, UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL REPAINT ALL EXISTING CURB MARKING THROUGHOUT PROJECT LIMITS. CURB MARKINGS SHALL BE PAINT, TWO (2) COATS. CONTRACTOR SHALL SCRAPE SPALLED AND CHIPPED CURB MARKING PRIOR TO REPAINTING.
7. NEW SIGNS SHALL BE HIGH INTENSITY SHEETING WITH ANTI-GRAFFITI FILM.
8. ALL SIGNS ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.
9. INSTALL TWO-WAY BLUE REFLECTIVE MARKERS AT EVERY FIRE HYDRANT.

UTILITY AND STRUCTURE NOTICE TO CONTRACTOR:

1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITY LINES EXCEPT AS SHOWN ON THIS PLAN.
2. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS PLAN.
3. ALL KNOWN EXISTENCE AND LOCATION OF ANY AERIAL UTILITIES OR ON GRADE STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THESE LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT.
4. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. THE CITY AND ENGINEER ASSUME NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES, UTILITIES, STRUCTURES, AND IRRIGATION WATER SUPPLY LINES WHOSE LOCATION ARE SHOWN OR NOT SHOWN.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND WATER PURVEYOR COMPANIES PRIOR TO WORK OR EXCAVATION TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES, STRUCTURES, AND LINES AFFECTING THIS WORK, WHETHER OR NOT SHOWN HEREON, AND FOR ANY DAMAGE OCCURRED TO THESE LINES.

CONTRACTOR GENERAL NOTES:

1. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE COMPLETED WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
2. THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH CONSTRUCTION ACTIVITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEARING OF THE PROPOSED WORK AREA, AND RELOCATION COSTS OF ALL EXISTING UTILITIES. CONTRACTOR MUST INFORM CITY OF CONSTRUCTION SCHEDULE AT LEAST TWO WEEKS PRIOR TO BEGINNING OF CONSTRUCTION.
4. NO TRENCHES MAY BE LEFT OPEN OVERNIGHT UNLESS APPROVED BY CITY ENGINEER.
5. IF ANY UTILITIES OR FACILITIES CONFLICT WITH PROPOSED IMPROVEMENTS, ALL WORK SHALL STOP, AND THE CITY ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
6. DRIVEWAY LOCATION INFORMATION IS TO BE FIELD VERIFIED AND APPROVED BY CITY ENGINEER.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL SUBSTRUCTURES WITHIN THE LIMITS OF WORK OF THE PROPOSED IMPROVEMENTS, AND IN THE EVENT OF SUBSTRUCTURE DAMAGE, HE SHALL BEAR THE TOTAL COST OF REPAIR OR REPLACEMENT AT NO ADDITIONAL COST TO THE CONTRACT.
8. THE CONTRACTOR SHALL NOT CONDUCT ANY OPERATIONS OR PERFORM ANY WORK PERTAINING TO THE PROJECT BETWEEN 9:00 P.M. AND 5:00 A.M. ON ANY DAY NOR ON SATURDAYS, SUNDAYS (EXCEPT AT NIGHT) OR HOLIDAYS, AT ANY TIME EXCEPT AS APPROVED BY THE CITY ENGINEER.
9. SEE DEMOLITION PLAN FOR INFORMATION REGARDING EXISTING TREES TO BE PROTECTED IN PLACE AND TO BE REMOVED.
10. THE CONTRACTOR IS ADVISED THAT ALL EXCAVATED MATERIALS SHALL BECOME HIS PROPERTY AND SHALL BE REMOVED FROM THE JOB-SITE UNLESS INSTRUCTED BY THE CITY ENGINEER TO DO OTHERWISE.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL BITUMINOUS PAVEMENT, CONCRETE AND REINFORCEMENT, AND SPOILS NOT NEEDED FOR BACKFILL AS REQUIRED BY THE ENGINEER AND PER SPECIFICATIONS.
12. THE CONTRACTOR SHALL RELOCATE/ADJUST EXISTING UTILITY BOXES, VALVES, AND VAULTS TO GRADE AND THE COSTS ARE TO BE DISTRIBUTED AMONG VARIOUS ITEMS ON THE BID SCHEDULE.
13. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN FOR THE COMPLETION OF THE PROPOSED IMPROVEMENTS PER THE CURRENT CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), SPECIAL PROVISIONS, AND TO THE SATISFACTION OF THE CITY ENGINEER. THE CONTRACTOR WILL BE ALLOWED TO CLOSE LANES WITHIN THE PROJECT AREA ONLY WITHIN THE HOURS STATED IN THE PROJECTS SPECIAL PROVISIONS.
14. THE CONTRACTOR SHALL PROVIDE A 72-HOUR NOTIFICATION TO THE AFFECTED PROPERTIES, POLICE DEPARTMENT, AND FIRE DEPARTMENT IN THE EVENT OF A CHANGE IN STREET CLOSURE TO TRAFFIC AND/OR PUBLIC SAFETY VEHICLES, PARKING RESTRICTIONS, AND ON EACH MONDAY MORNING DURING THE CONSTRUCTION PERIOD.

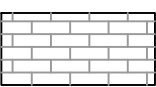
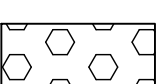
CONTRACTOR GENERAL NOTES (CONTINUED):

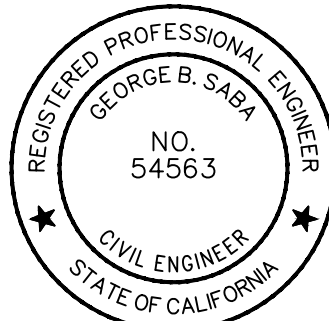
15. CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AT ALL TIMES.
16. RECORD DRAWINGS OF THE COMPLETED PROJECT SHALL BE SUBMITTED FOR APPROVAL BY THE CITY ENGINEER.
17. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (DIG ALERT) AT 811 TWO (2) FULL WORKING DAYS PRIOR TO START OF WORK. CONTRACTOR MUST OBTAIN AND MAINTAIN VALID DIG ALERT REFERENCE NUMBER THROUGH THE DURATION OF THE PROJECT AS NECESSARY FOR CONSTRUCTION. UPON EXPOSING ANY UTILITY'S UNDERGROUND FACILITY THE CONTRACTOR SHALL NOTIFY THAT UTILITY IMMEDIATELY.
18. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY OCCURRED DUE TO THE FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
19. IF REQUIRED, CONTRACTOR SHALL PREPARE A WET WEATHER EROSION CONTROL PLAN DELINEATING BMPs TO BE INSTALLED PER NPDES, SWPPP, SUSMP, AND LID LOCAL, STATE, AND FEDERAL REGULATIONS TO BE APPROVED BY THE CITY ENGINEER PRIOR TO THE START OF CONSTRUCTION.
20. CONTRACTOR SHALL CONTACT USA-811 MINIMUM (2) DAYS TO LOCATE UNDERGROUND UTILITY STRUCTURES PRIOR TO COMMENCING CONSTRUCTION.
21. ANY EXCAVATION OVER FIVE (5') DEEP SHALL REQUIRE A PERMIT FROM THE STATE DEPARTMENT OF INDUSTRIAL SAFETY.

CONSTRUCTION NOTES

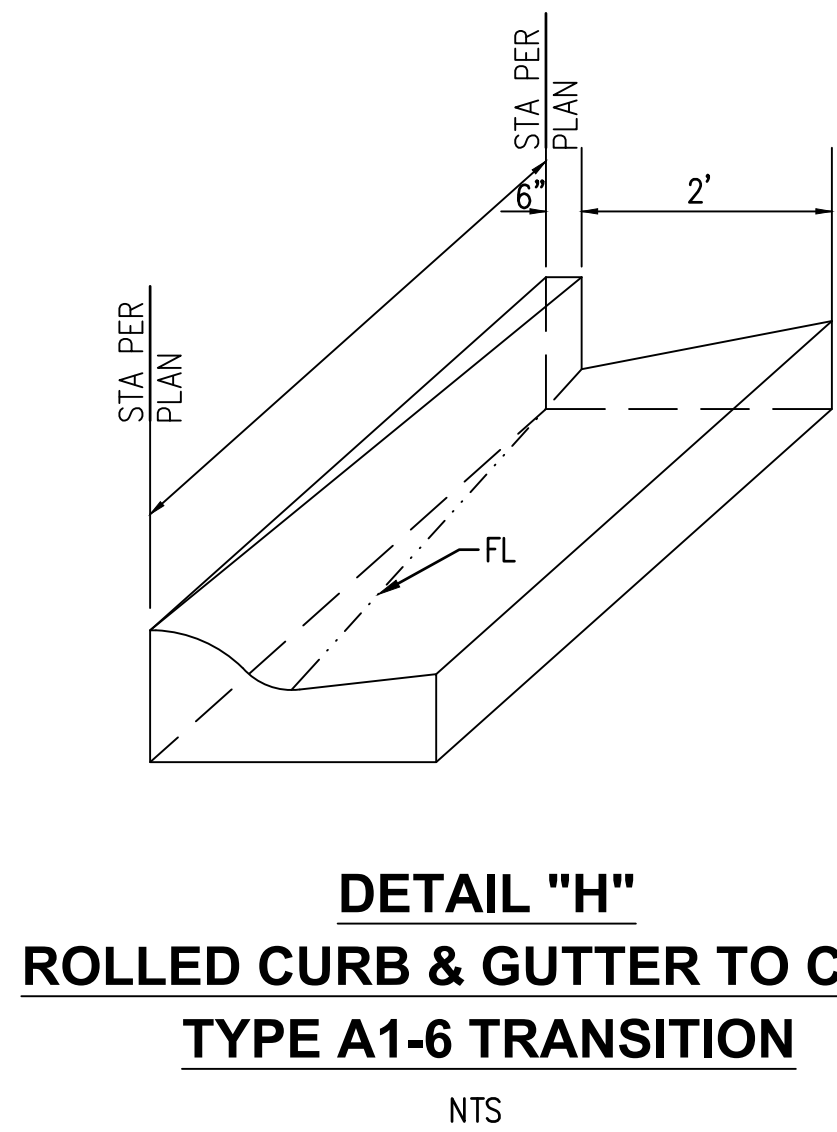
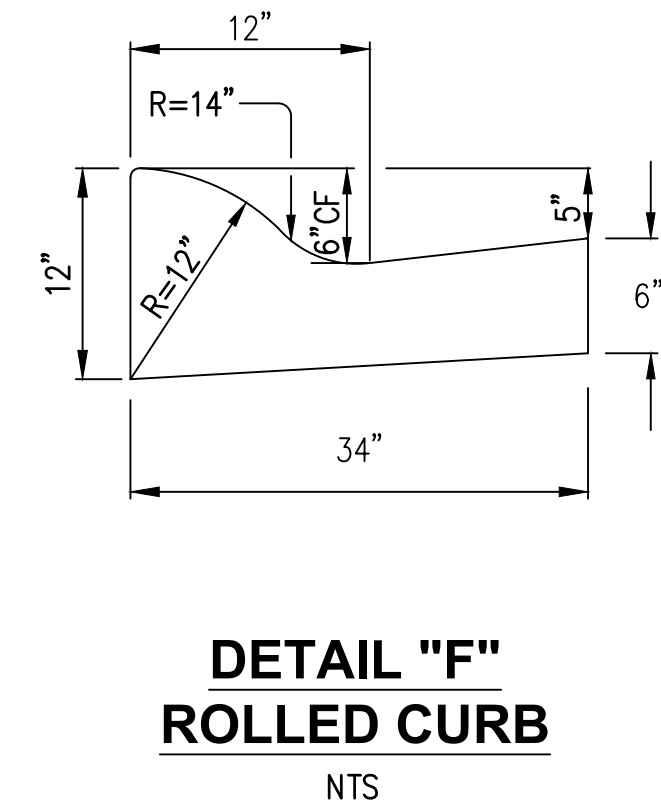
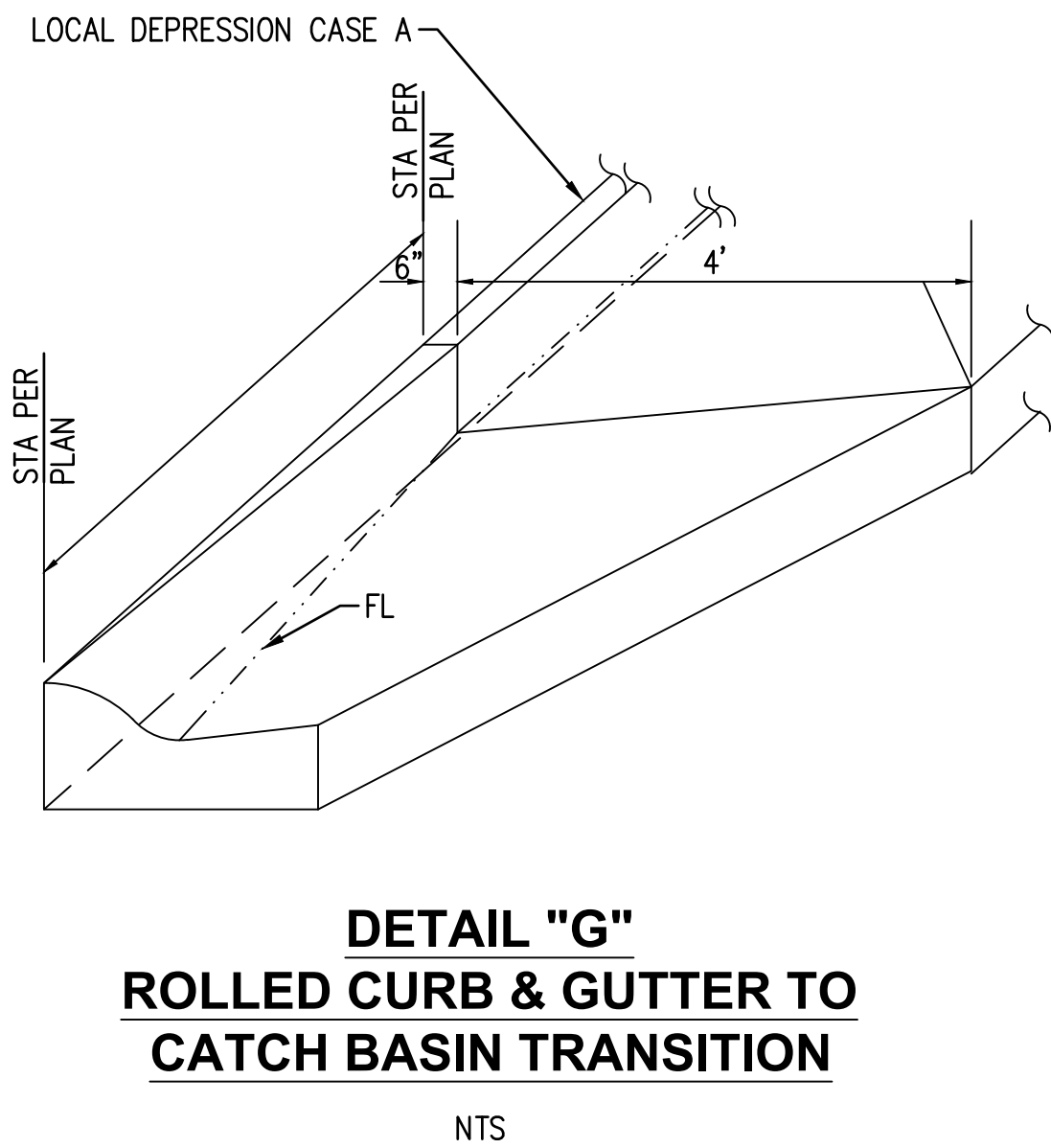
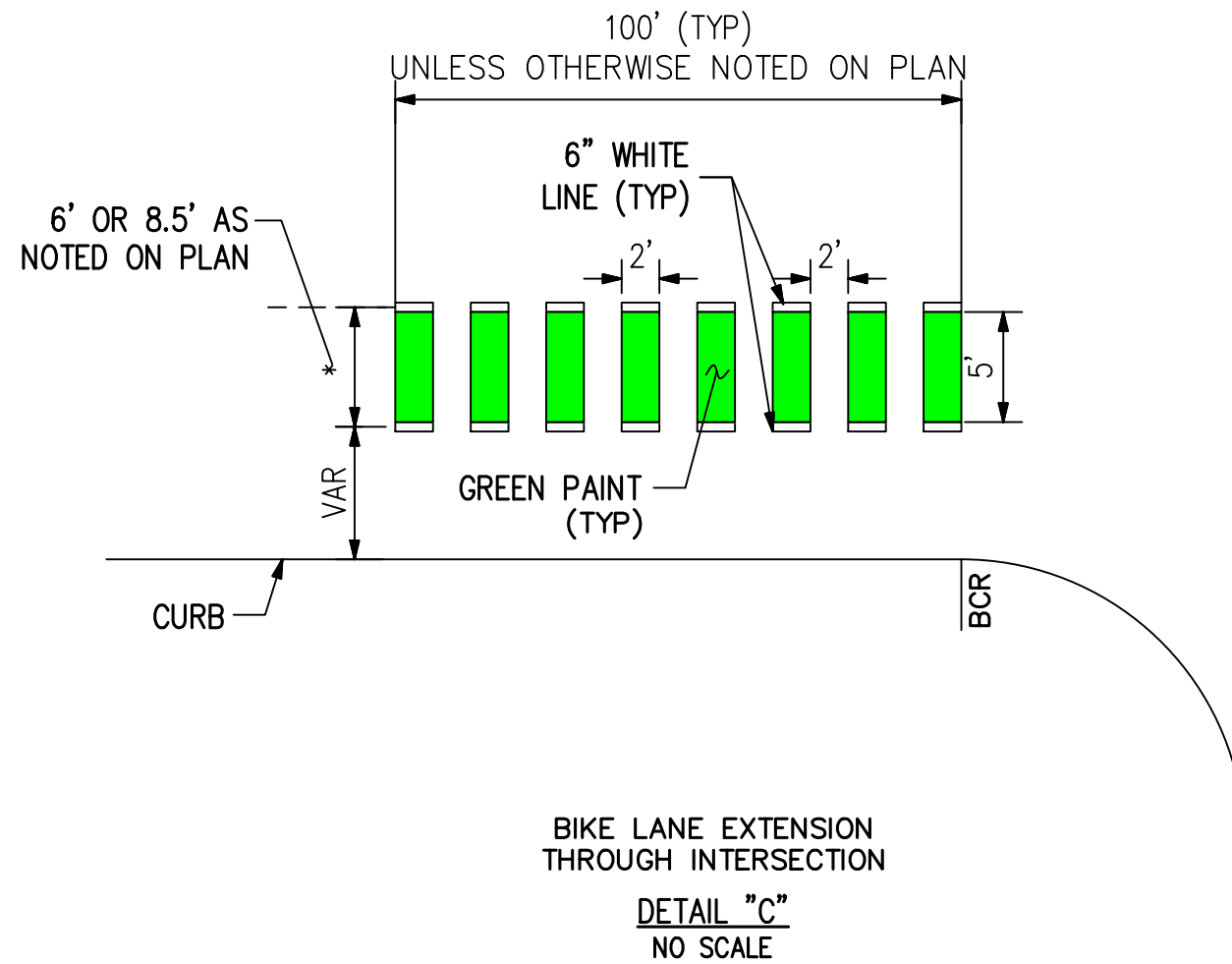
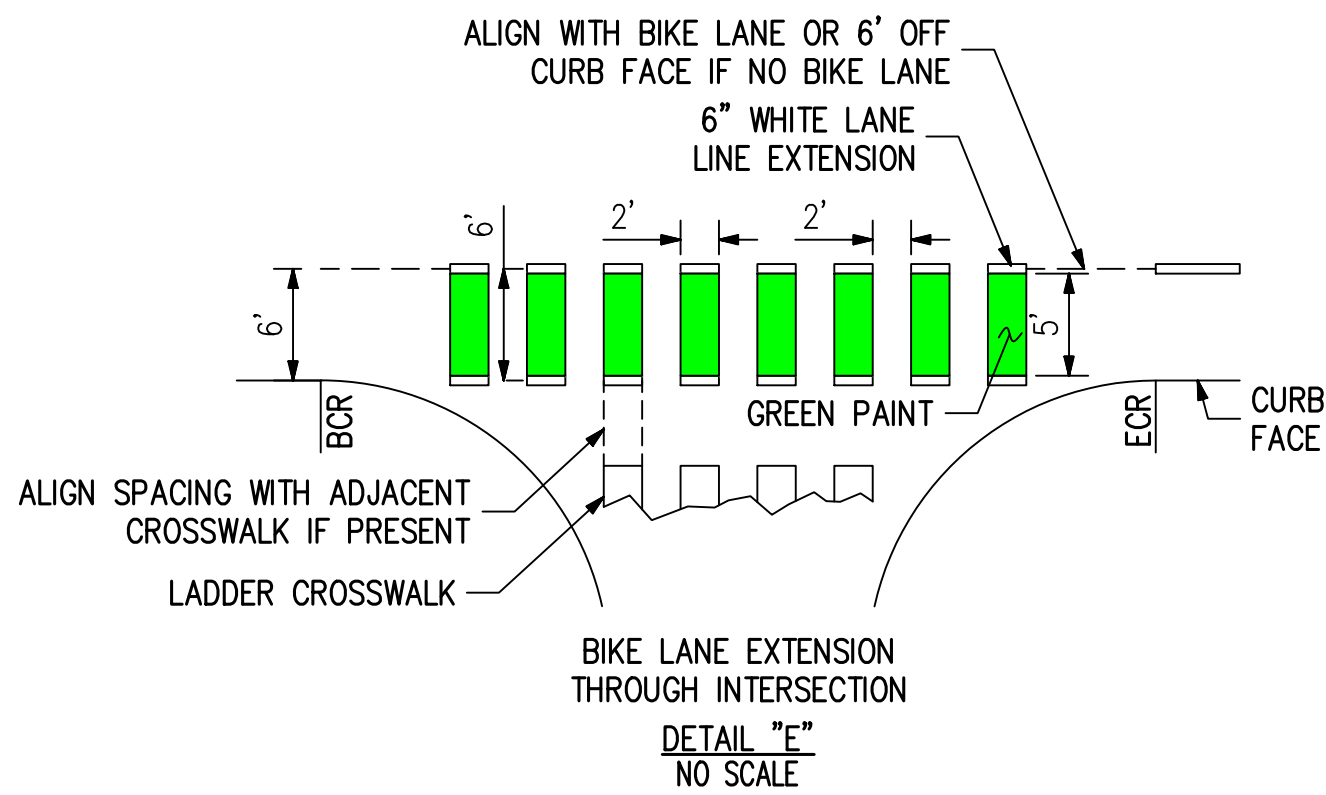
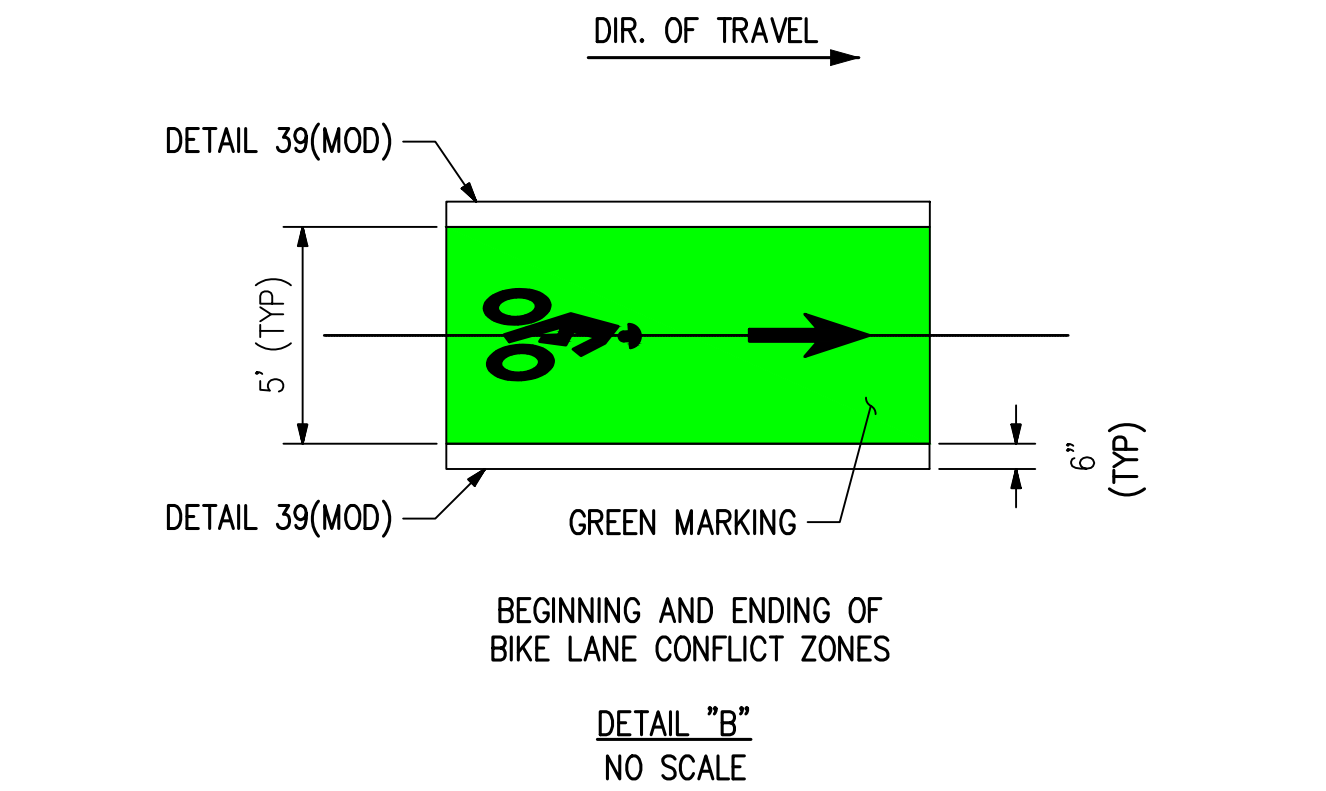
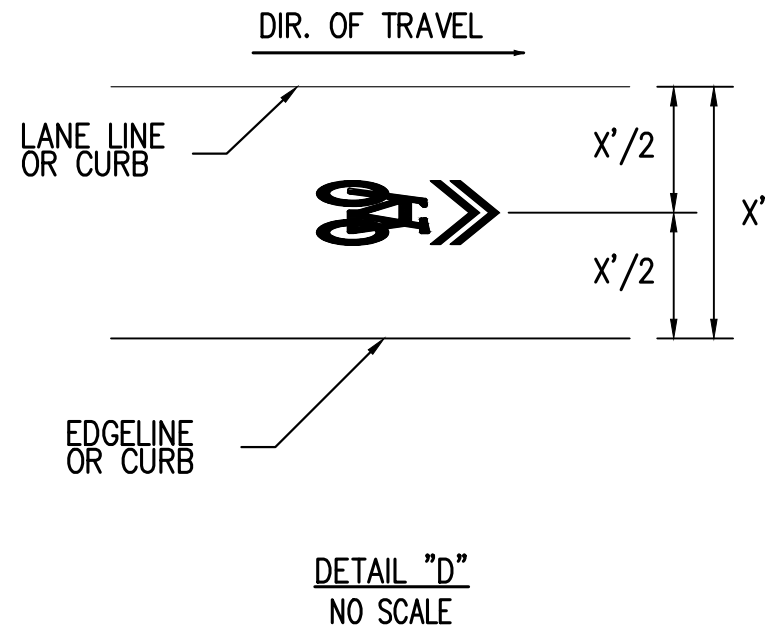
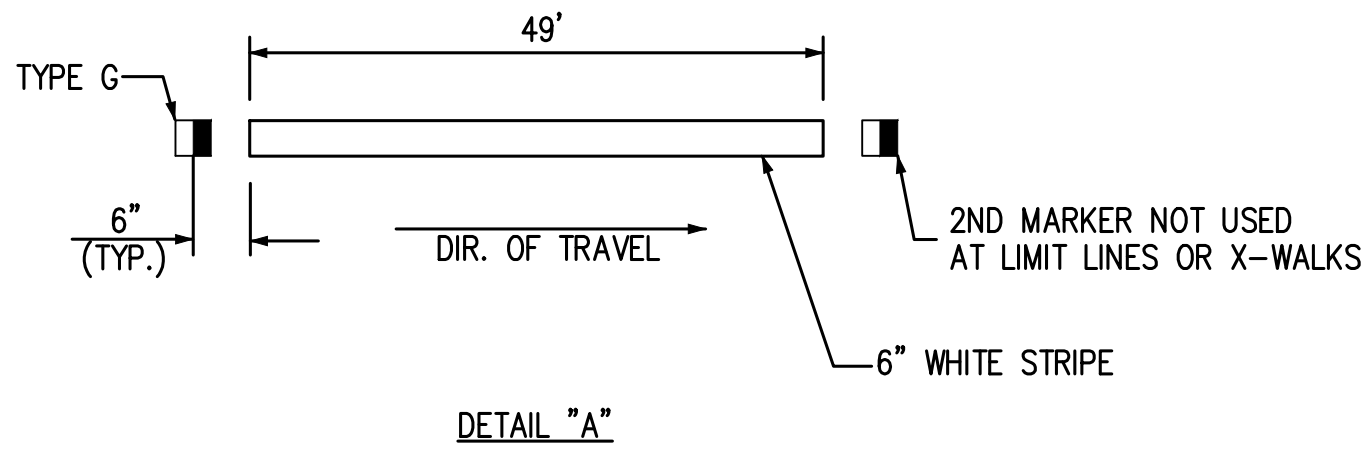
- ① CONSTRUCT 4-INCH AC PAVEMENT OVER 8-INCH CMB OVER 95 PCT COMPACTED NATIVE
- ② FURNISH AND INSTALL PAVERS. SEE PLAN No. CD-1 FOR FOR DETAILS
- ③ CONSTRUCT 4-INCH THICK PCC SIDEWALK PER SPPWC STD PLAN 113-2. FOR ADDITIONAL INFORMATION SEE PLAN No. CD-1.
- ④ CONSTRUCT 6-INCH THICK PCC COMMERCIAL DRIVEWAY APPROACH PER SPPWC STD PLAN 110-2
- ⑤ CONSTRUCT CURB AND GUTTER A2-(MOD) MATCH EXIST CURB HEIGHT & GUTTER WIDTH PER SPPWC STD PLAN 120-3
- ⑥ CONSTRUCT CURB AND GUTTER A2-6 PER SPPWC STD PLAN 120-3
- ⑦ CONSTRUCT A1-6 CURB PER SPPWC STD PLAN 120-3
- ⑧ CONSTRUCT A1-8 CURB PER SPPWC STD PLAN 120-3
- ⑨ CONSTRUCT CURB RAMP PER SPPWC STD PLAN 111-5. CASE AND TYPE PER PLAN
- ⑩ CONSTRUCT LONGITUDINAL GUTTER PER SPPWC STD PLAN 122-3
- ⑪ CONSTRUCT ROLLED CURB & GUTTER TO CURB TYPE A1-6 TRANSITION PER DETAIL "H" ON SHEET No. 3
- ⑫ FURNISH AND INSTALL 24" BOX TREE PLATANUS RACEMOSA – CALIFORNIA SYCAMORE STANDARD TRUNK. SEE DETAIL ON SHEET 13
- ⑬ CONSTRUCT ROLLED CURB PER DETAIL "F" ON SHEET NO. 3
- ⑭ CONSTRUCT CASE 1 MODIFIED CATCH BASIN PER SPPWC No. 314-3, W AND V=PER PLAN
- ⑮ FURNISH AND INSTALL D3000 18-INCH RCP
- ⑯ REMOVE AND CONSTRUCT CURB DRAIN PER SPPWC STD PLAN 150-4
- ⑰ CONSTRUCT LOCAL DEPRESSION PER SPPWC STD PLAN 313-4, CASE E
- ⑱ CONSTRUCT ROLLED CURB & GUTTER TO LOCAL DEPRESSION TRANSITION PER DETAIL "G" ON SHEET NO. 3 AND LOCAL DEPRESSION PER SPPWC STD PLAN 313-4, CASE A
- ⑲ REMOVE AND CONSTRUCT CONCRETE COLLAR PER SPPWC STD PLAN 380-4
- ⑳ BRICK, MORTAR, SEAL, AND PLUG EXISTING CATCH BASIN AND 18" RCP PIPE PER PLAN
- Ⓐ ADJUST TO GRADE (ITEM AS NOTED)
- Ⓟ PROTECT IN PLACE
- Ⓡ REMOVE
- ⓁS SEE LANDSCAPE PLANS

LEGEND

-  CONSTRUCT 4-INCH AC PAVEMENT OVER 8-INCH CMB OVER 95 PCT COMPACTED NATIVE
-  SIDEWALK IMPROVEMENTS
-  FURNISH AND INSTALL PAVERS. SEE PLAN NO. CD-1 FOR FOR DETAILS
-  TRUNCATED DOMES
-  REPLACE DAMAGED EXISTING LAWN/TURF IN KIND DUE TO CONSTRUCTION. RELOCATE, REPAIR AND REPLACE EXISTING CONFLICTING AND DAMAGED IRRIGATION EQUIPMENT DUE TO CONSTRUCTION. ADJUST IRRIGATION SPRINKLERS AND SPRAY COVERAGE TO AVOID OVERSPRAY ONTO ROADWAY AND SIDEWALK

R E V I S I O N S				R E F E R E N C E S			 COMPREHENSIVE INNOVATIVE TRUSTED <table><tr><td colspan="2">DATE</td><td></td></tr><tr><td>DRAWN BY</td><td>BR, RM</td><td>9/25/2025</td></tr><tr><td>CHECKED BY</td><td>GS</td><td>9/25/2025</td></tr><tr><td>DESIGNED BY</td><td>BR</td><td>9/25/2025</td></tr><tr><td colspan="2">APPROVED</td><td>9/25/2025</td></tr><tr><td colspan="2">City Engineer</td><td>Date</td></tr></table>	DATE			DRAWN BY	BR, RM	9/25/2025	CHECKED BY	GS	9/25/2025	DESIGNED BY	BR	9/25/2025	APPROVED		9/25/2025	City Engineer		Date	CITY OF LOS ALAMITOS		PLAN NO.
DATE																												
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NUMBER	DATE	INITIALS		APPV'D		LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT																						
						NOTES																						
								SHEET 2 OF 30																				

USER: BReyes
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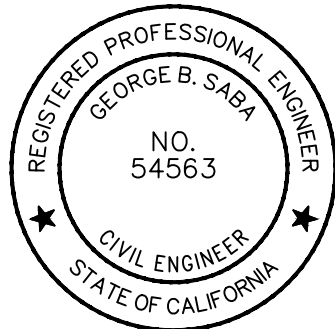
Know what's below.
Call before you dig.

REVISIONS

NUMBER	DATE	INITIALS	

REFERENCES

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CHECKED BY	GS	9/25/2025
DESIGNED BY	BR	9/25/2025
APPROVED	9/25/2025	
City Engineer	Date	

CITY OF LOS ALAMITOS	PLAN NO.
LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT	
DETAILS	SHEET 3 OF 30

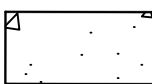
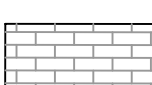
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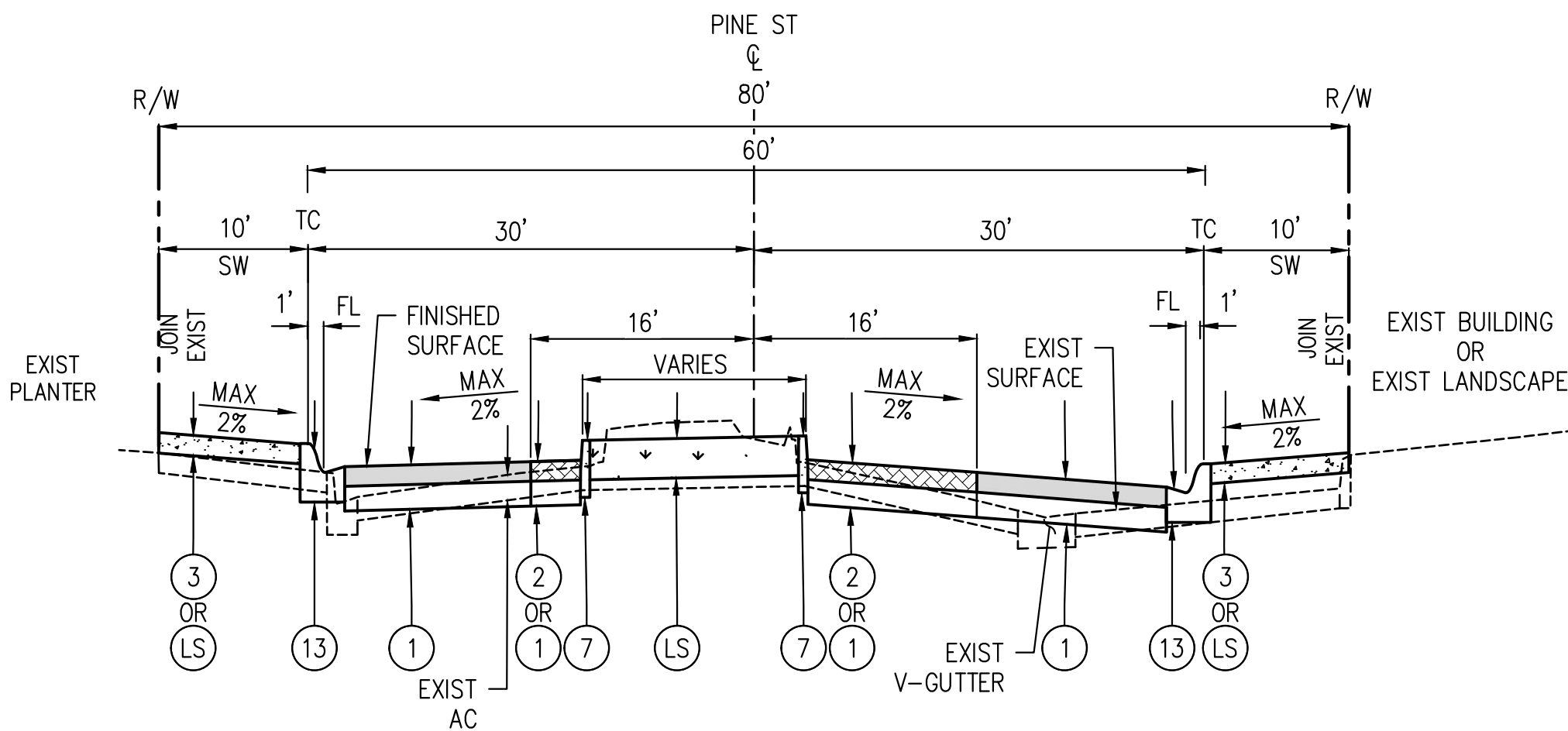
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2. REFER TO SHEET No. 18 TO 19 FOR CONSTRUCTION PLAN

CONSTRUCTION NOTES

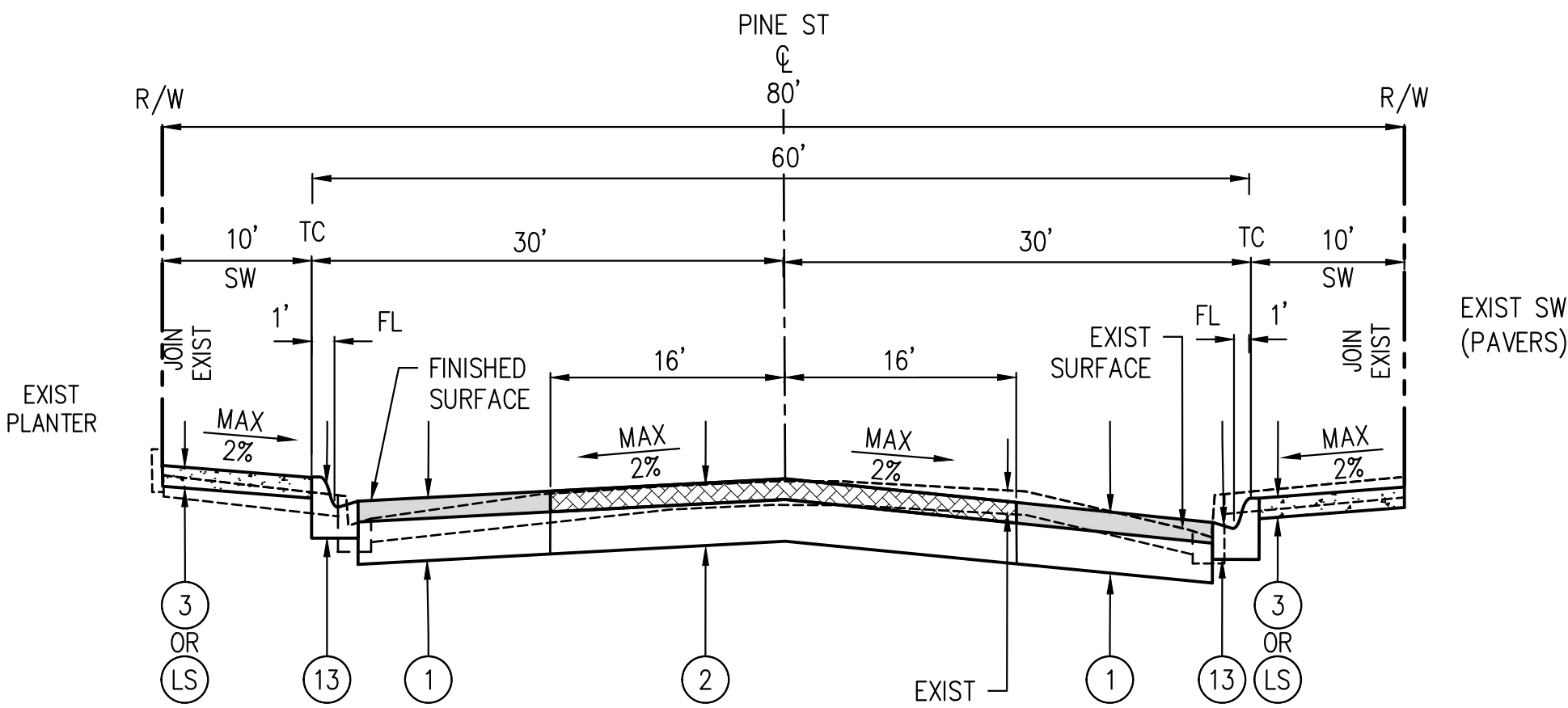
- ① CONSTRUCT 4-INCH AC PAVEMENT OVER 8-INCH CMB OVER 95 PCT COMPACTED NATIVE
- ② FURNISH AND INSTALL PAVERS. SEE PLAN No. CD-1 FOR FOR DETAILS
- ③ CONSTRUCT 4-INCH THICK PCC SIDEWALK PER SPPWC STD PLAN 113-2. FOR ADDITIONAL INFORMATION SEE PLAN No. CD-1.
- ⑦ CONSTRUCT A1-6 CURB PER SPPWC STD PLAN 120-3
- ⑧ CONSTRUCT A1-8 CURB PER SPPWC STD PLAN 120-3
- ⑬ CONSTRUCT ROLLED CURB PER DETAIL "F" ON SHEET NO. 3
- ⑤ SEE LANDSCAPE PLANS

LEGEND

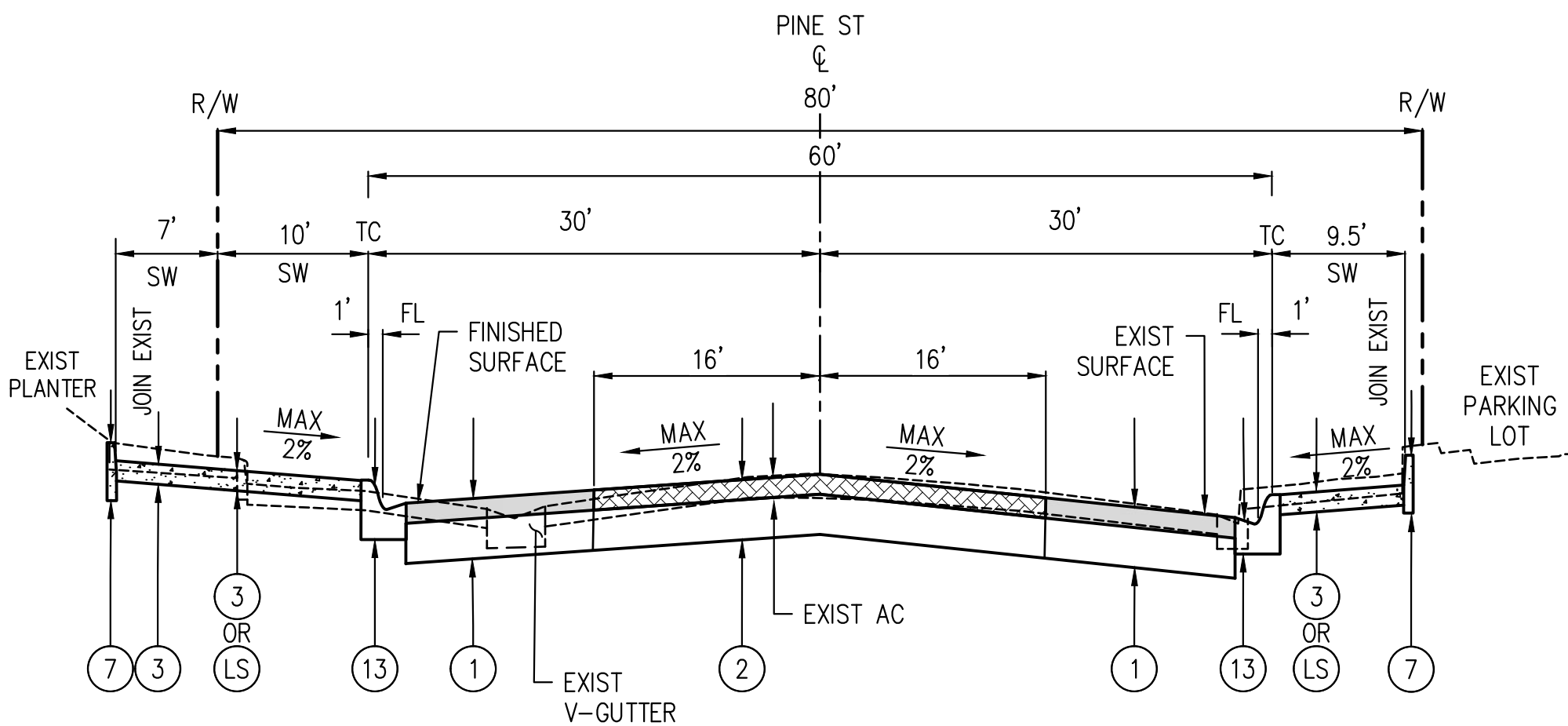
-  CONSTRUCT 4-INCH AC PAVEMENT OVER 8-INCH CMB OVER 95 PCT COMPACTED NATIVE
-  SIDEWALK IMPROVEMENTS
-  FURNISH AND INSTALL PAVERS. SEE PLAN NO. CD-1 FOR FOR DETAILS



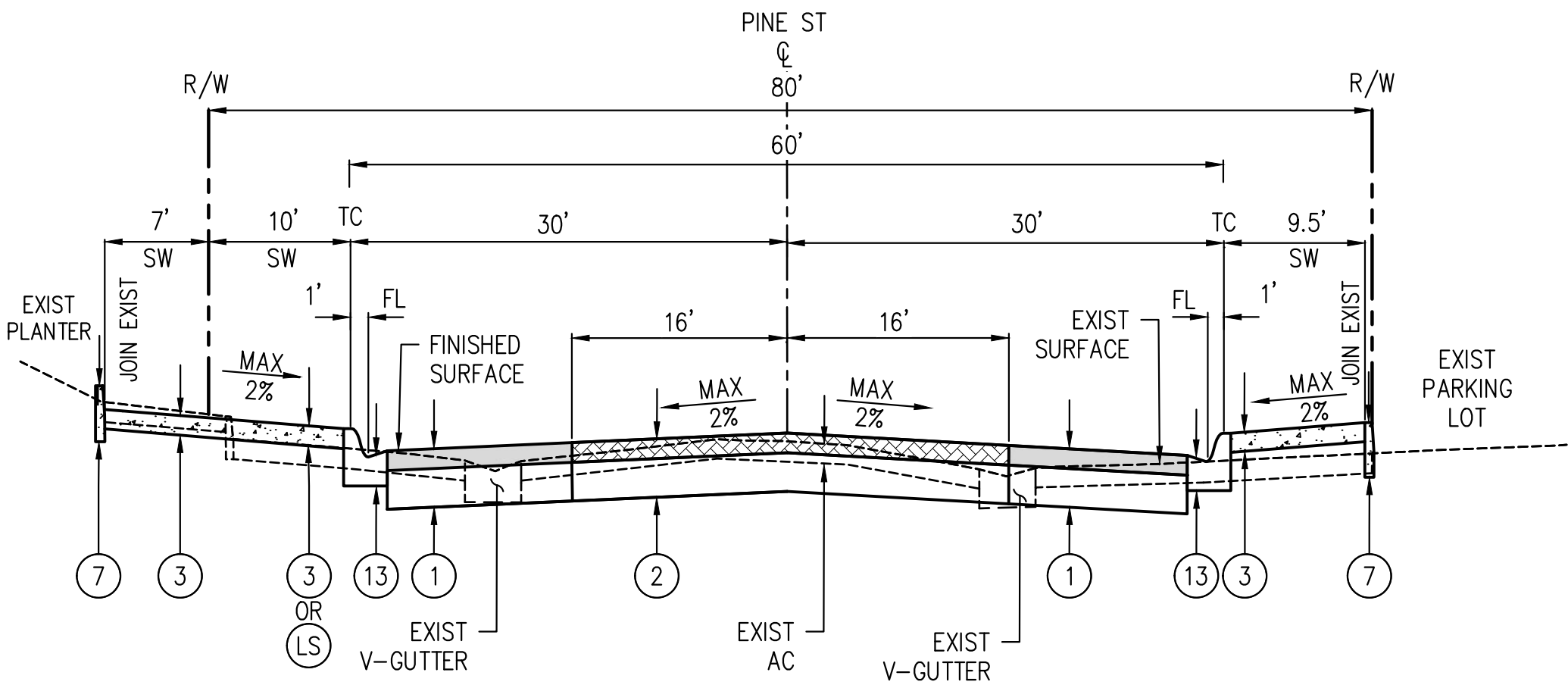
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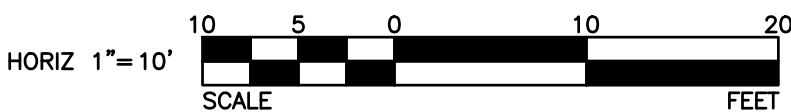
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TYPICAL SECTION
STA 12+67.07 TO 14+67.47
NTS



TYPICAL SECTION
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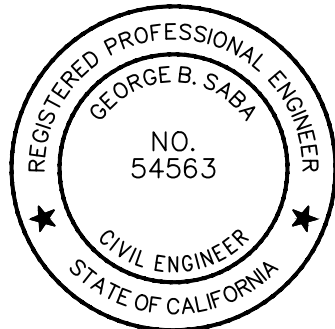


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APPROVED	9/25/2025
City Engineer	Date

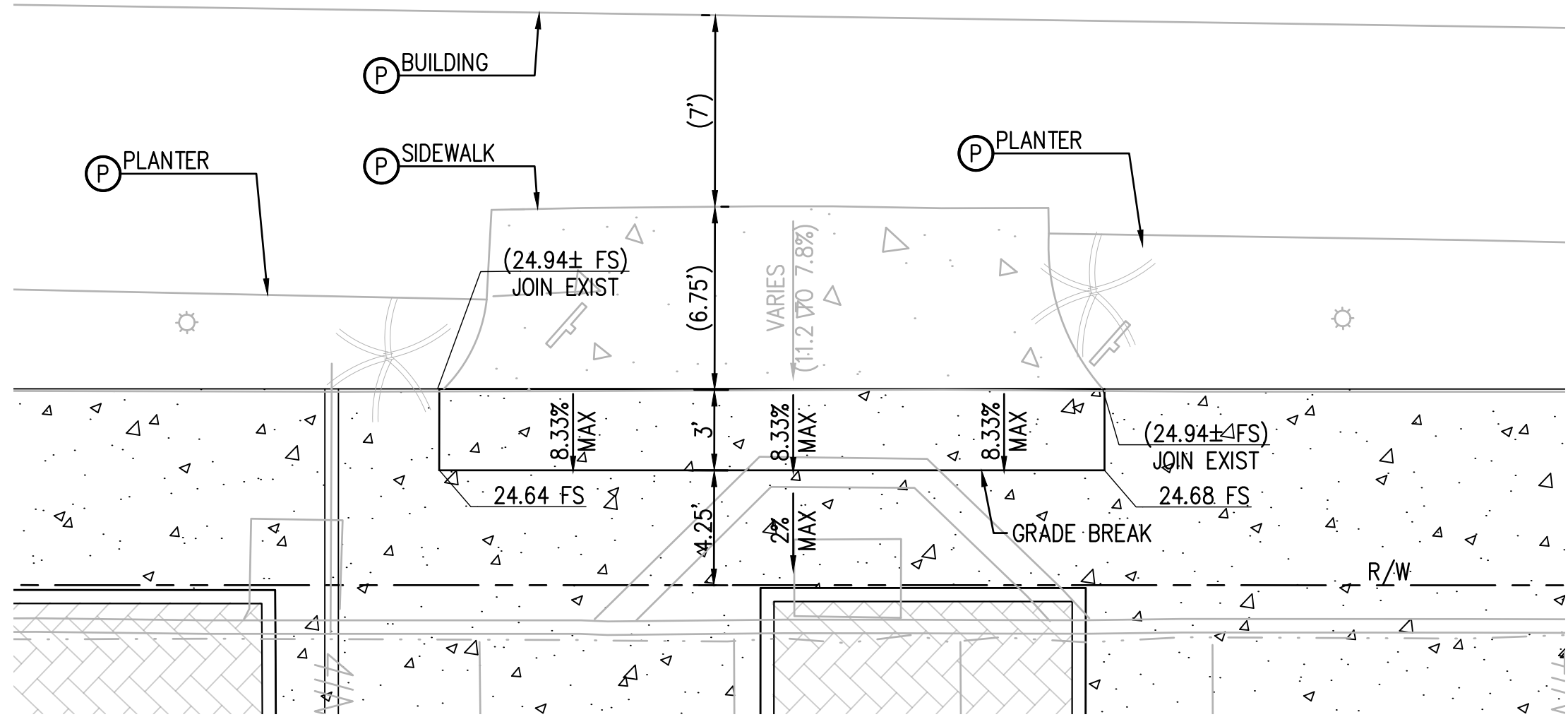
CITY OF LOS ALAMITOS

LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT

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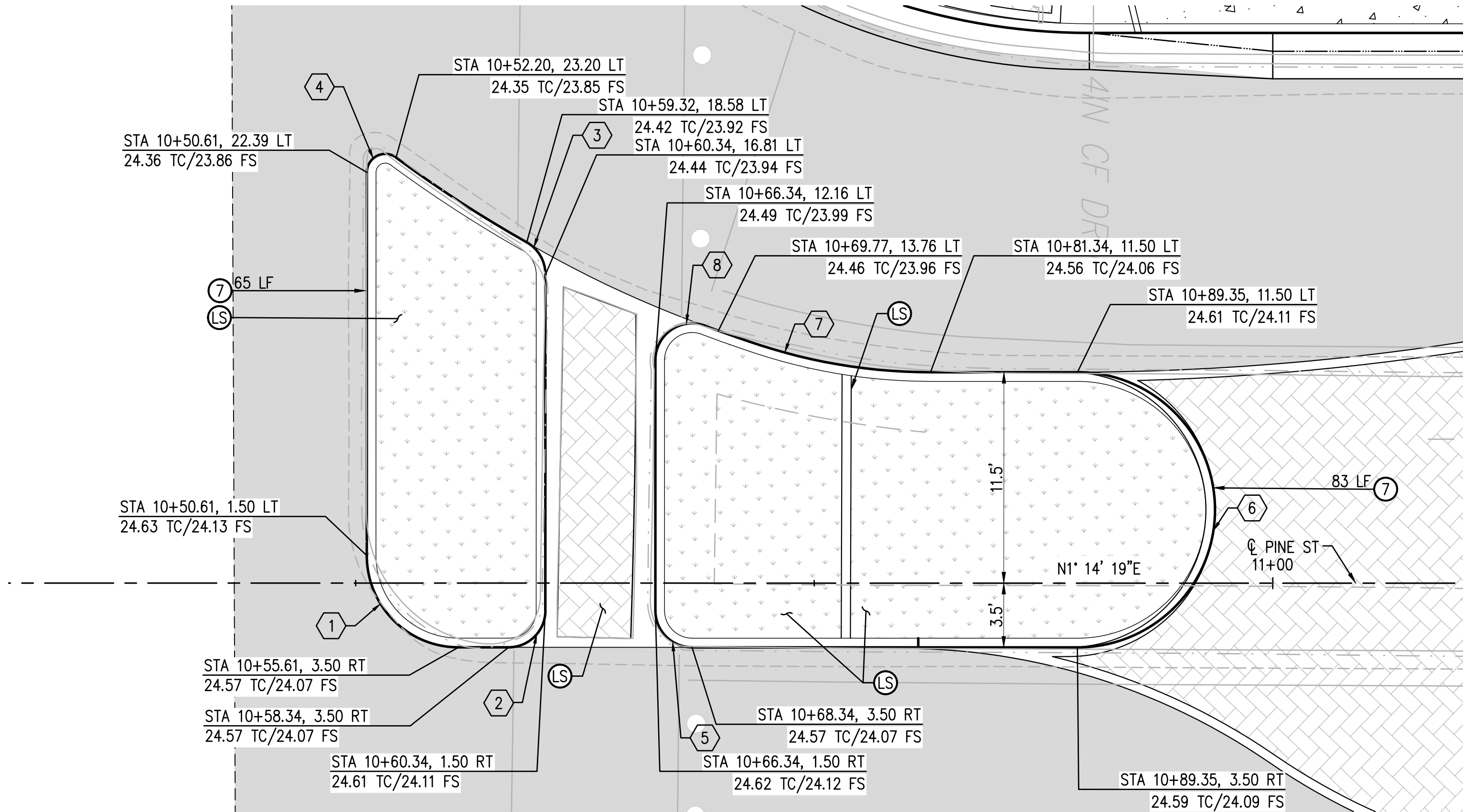
PLAN NO.
SHEET 4 OF 30

USER: BReyes DATE: Sep 25, 2025 - 10:27am FILE: W:\WE-C\Nba alamos city cd\113322 - los al pine street complete street imp\900-PS&E\901-plans\PL-R&MP.dwg



DETAIL "I"
GRADE BREAK DETAIL

SCALE: 1" = 5'



DETAIL "J"
SOUTH MEDIAN ISLAND DETAIL

SCALE: 1" = 5'

NOTES

1. REFER TO SHEET No. 8 TO 9 FOR PLAN AND PROFILE STREET IMPROVEMENTS
2. REFER TO SHEET No. 18 TO 19 FOR LANDSCAPE CONSTRUCTION PLANS

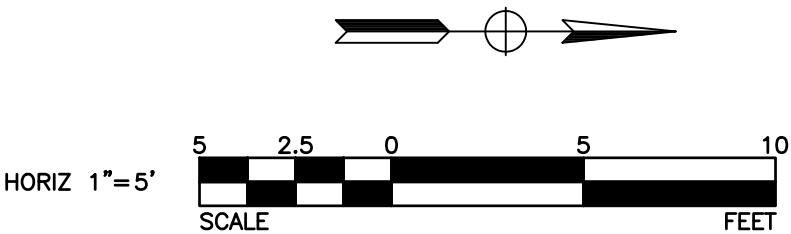
CONSTRUCTION NOTES

- ⑦ CONSTRUCT A1-6 CURB PER SPPWC STD PLAN 120-3
- LS SEE LANDSCAPE PLANS
- P PROTECT IN PLACE

LEGEND

- CONSTRUCT 4-INCH AC PAVEMENT OVER 8-INCH CMB OVER 95 PCT COMPACTED NATIVE
- SIDEWALK IMPROVEMENTS
- FURNISH AND INSTALL PAVERS. SEE PLAN NO. CD-1 FOR FOR DETAILS

CURVE DATA				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
①	7.854'	5.00'	90°00'00"	5.00'
②	3.142'	2.00'	90°00'00"	2.00'
③	2.113'	2.00'	60°31'19"	1.17'
④	2.207'	1.00'	126°25'51"	1.98'
⑤	3.142'	2.00'	90°00'00"	2.00'
⑥	23.562'	7.50'	180°00'00"	INFINITY'
⑦	9.483'	30.00'	18°06'37"	4.78'
⑧	3.864'	2.00'	110°41'00"	2.89'

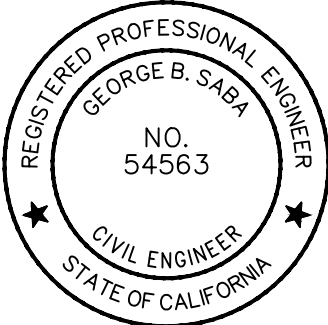


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DESIGNED BY	BR
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CITY OF LOS ALAMITOS

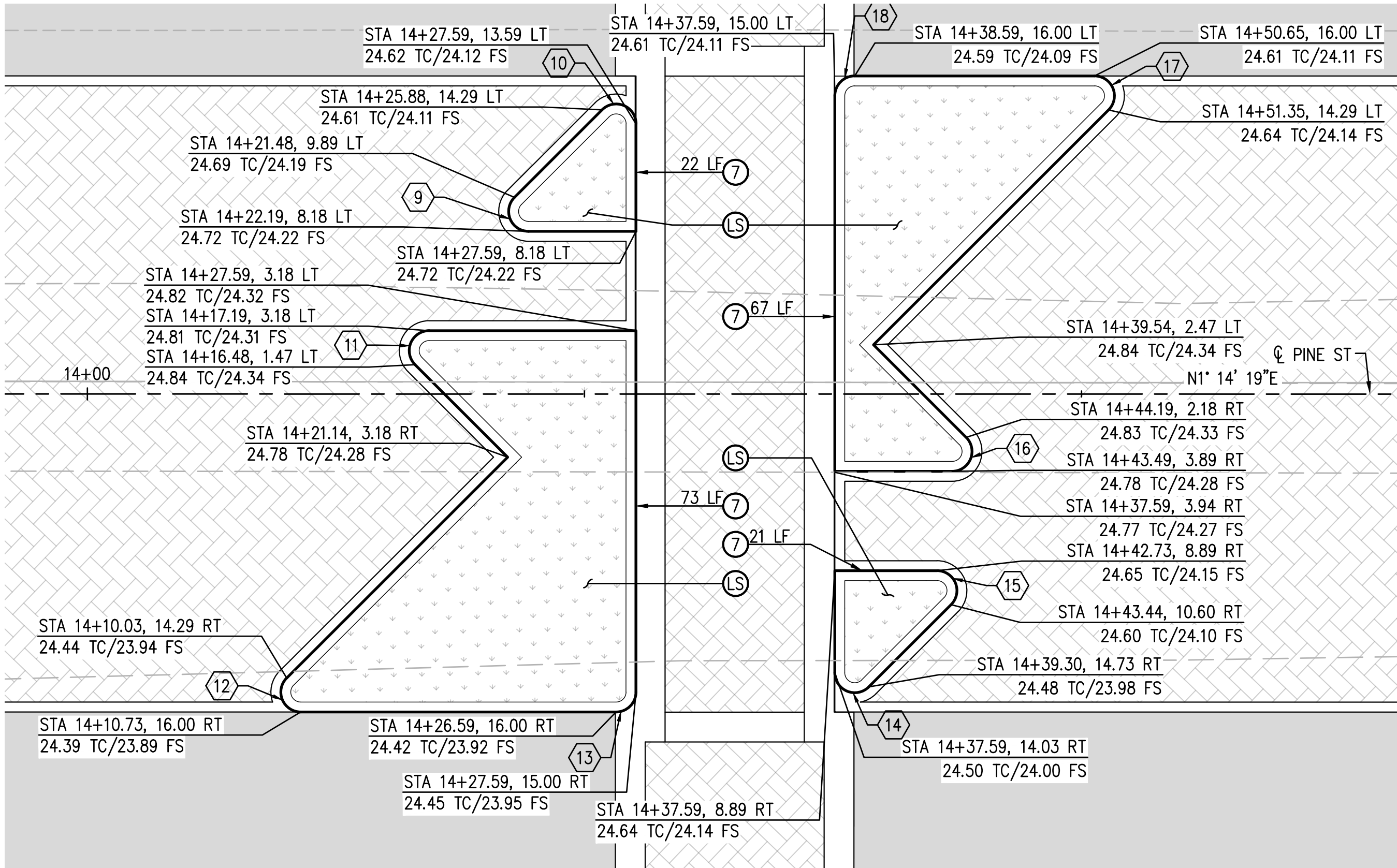
LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT

MEDIAN AND MISCELLANEOUS DETAILS

PLAN NO.

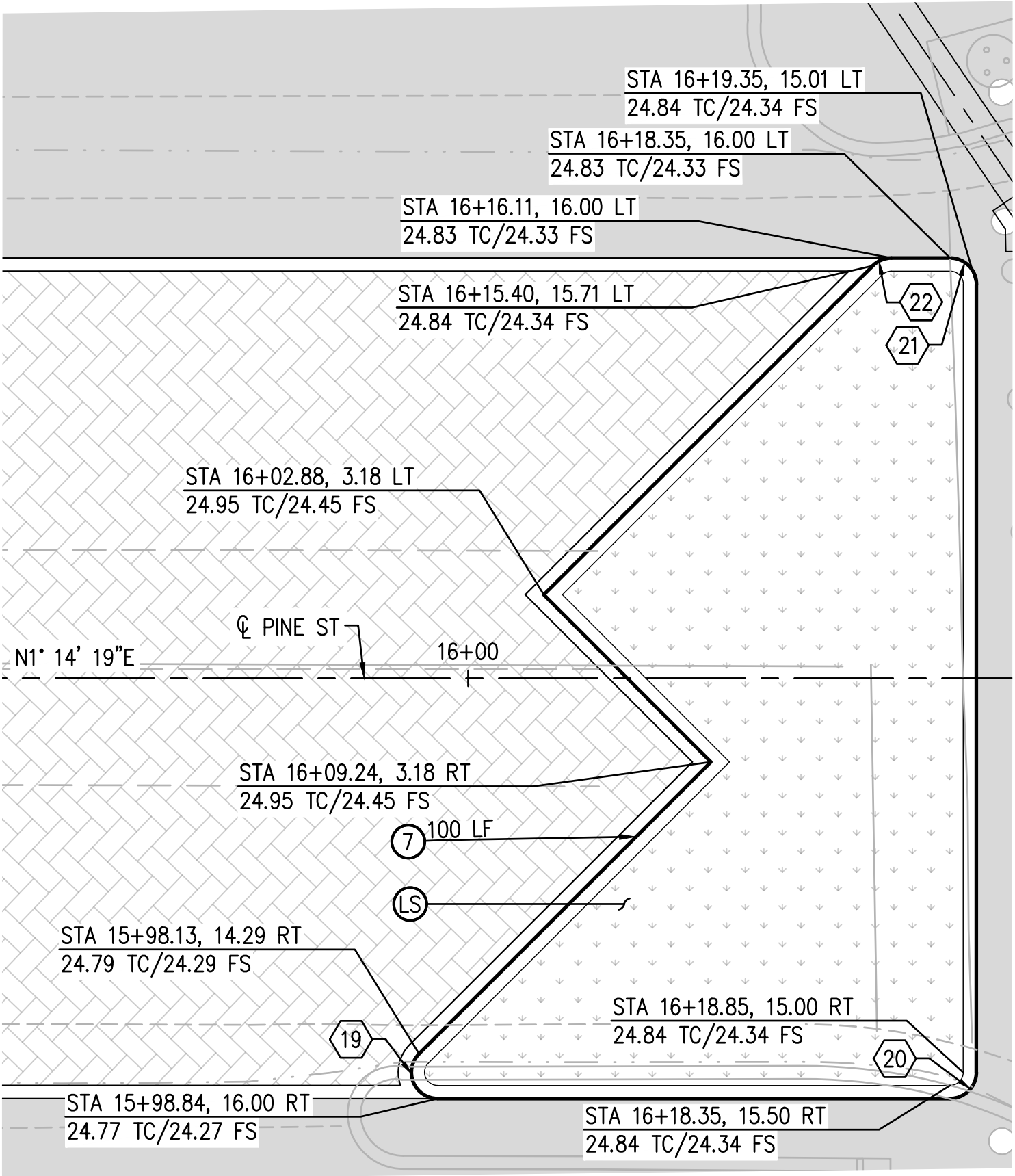
SHEET 5 OF 30





DETAIL "K"
CENTRAL MEDIAN ISLAND DETAIL
SCALE: 1" = 5'

CURVE DATA				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
9	2.36'	1.00'	135°00'00"	2.41'
10	2.36'	1.00'	135°00'00"	2.41'
11	2.36'	1.00'	135°00'00"	2.41'
12	2.36'	1.00'	135°00'00"	2.41'
13	1.57'	1.00'	090°00'00"	1.00'
14	2.36'	1.00'	135°00'00"	2.41'
15	2.36'	1.00'	135°00'00"	2.41'
16	2.36'	1.00'	135°00'00"	2.41'
17	2.36'	1.00'	135°00'00"	2.41'
18	1.57'	1.00'	090°00'00"	1.00'
19	2.36'	1.00'	135°00'00"	2.41'
20	1.57'	1.00'	090°00'00"	1.00'
21	1.57'	1.00'	090°00'00"	1.00'
22	0.79'	1.00'	045°00'00"	0.41'

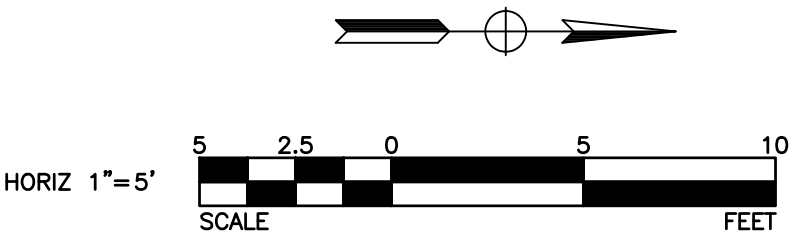


DETAIL "L"
NORTH MEDIAN ISLAND DETAIL
SCALE: 1" = 5'

- NOTES**
- REFER TO SHEET No. 8 TO 9 FOR PLAN AND PROFILE STREET IMPROVEMENTS
 - REFER TO SHEET No. 18 TO 19 FOR LANDSCAPE CONSTRUCTION PLANS

- CONSTRUCTION NOTES**
- 7 CONSTRUCT A1-6 CURB PER SPPWC STD PLAN 120-3
 - LS SEE LANDSCAPE PLANS

- LEGEND**
- CONSTRUCT 4-INCH AC PAVEMENT OVER 8-INCH CMB OVER 95 PCT COMPACTED NATIVE
 - SIDEWALK IMPROVEMENTS
 - FURNISH AND INSTALL PAVERS. SEE PLAN NO. CD-1 FOR FOR DETAILS

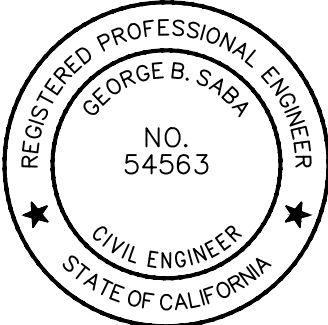


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REFERENCES

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WILLDAN Engineering		DATE
2801 East Kettle Ave, Suite 400, Anaheim, California 92805 714.978-8200 fax 714.978-8209		
DRAWN BY	BR, RM	9/25/2025
CHECKED BY	GS	9/25/2025
DESIGNED BY	BR	9/25/2025
APPROVED	9/25/2025	
City Engineer	Date	

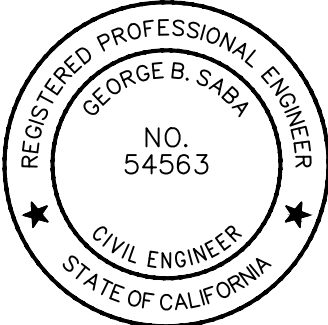
CITY OF LOS ALAMITOS LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT MEDIAN AND MISCELLANEOUS DETAILS	PLAN NO.
	SHEET 6 OF 30

USER: BReyes
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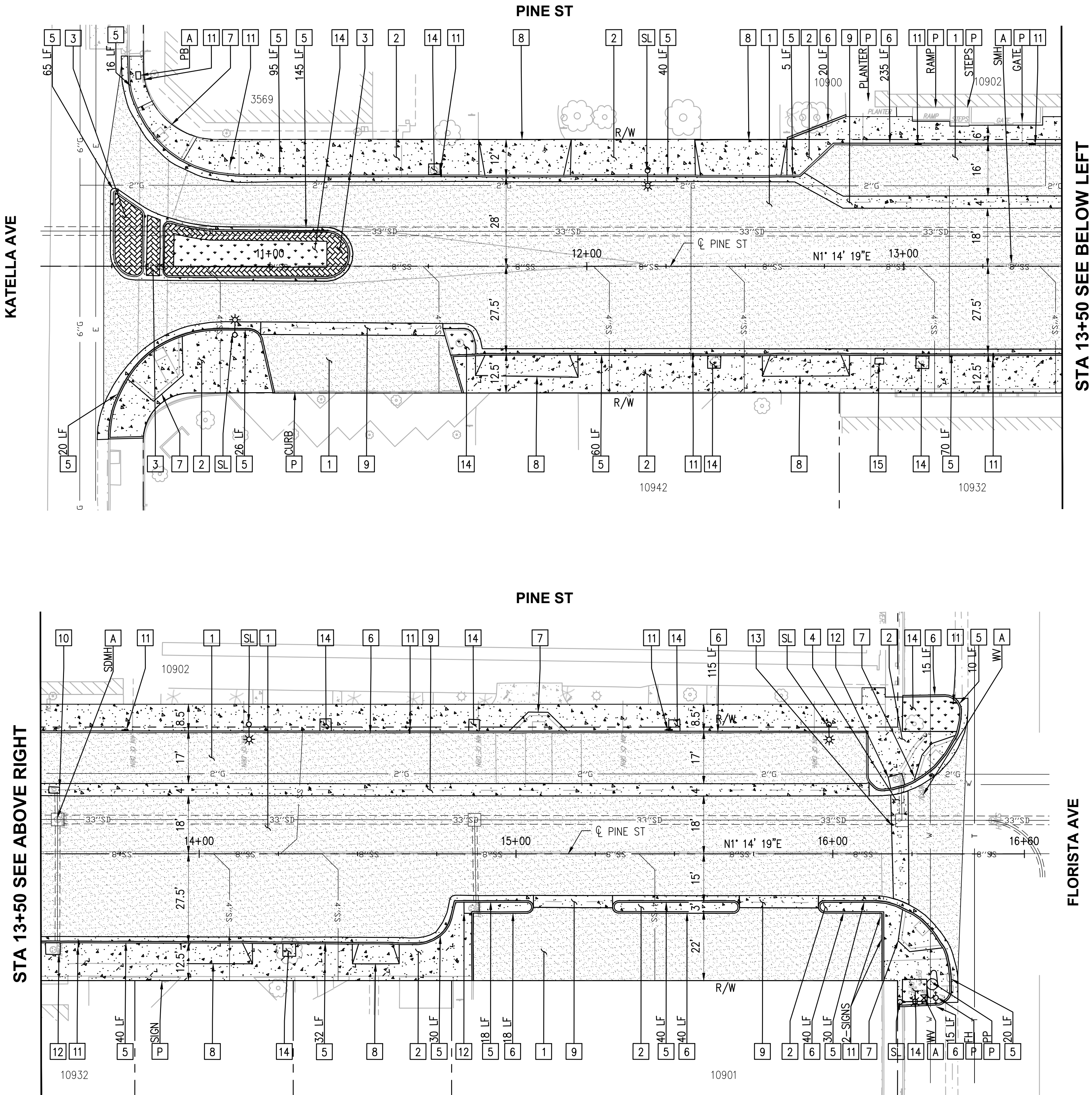
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WILLDAN Engineering 2801 East Katella Ave, Suite 400, Anaheim, California 92806 714.978-8200 fax 714.978-8299		COMPREHENSIVE INNOVATIVE TRUSTED
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APPROVED	9/25/2025 City Engineer Date	

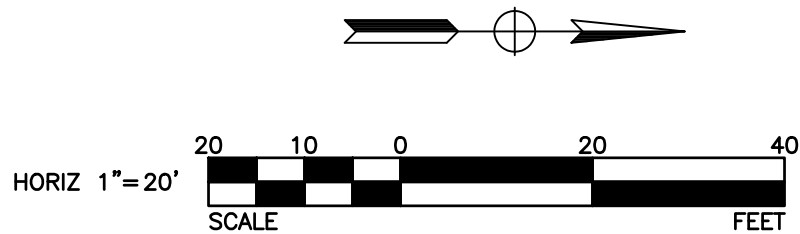
CITY OF LOS ALAMITOS		PLAN NO.
LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT		
DEMOLITION PLAN		SHEET 7 OF 30



- NOTES**
- REFER TO SHEET No. 8 TO 9 FOR PLAN AND PROFILE STREET IMPROVEMENTS
 - REFER TO SHEET No. XX TO XX FOR STREET LIGHTING PLAN

LEGEND		QUANTITY
	REMOVE AC AND BASE MATERIAL	33,854 SF
	REMOVE PCC CONCRETE	14,625 SF
	REMOVE CONCRETE PAVERS	660 SF
	CLEARING AND GRUBBING	830 SF

- DEMOLITION NOTES**
- 1 REMOVE AC AND BASE MATERIAL
 - 2 REMOVE PCC WALKWAY
 - 3 REMOVE CONCRETE PAVERS
 - 4 REMOVE PCC PAVEMENT
 - 5 REMOVE CURB AND GUTTER
 - 6 REMOVE CURB
 - 7 REMOVE CURB RAMP
 - 8 REMOVE DRIVEWAY
 - 9 REMOVE V-GUTTER
 - 10 REMOVE DRAINAGE INLET
 - 11 REMOVE SIGN
 - 12 RELOCATE CATCH BASIN BY OWNER
 - 13 REMOVE BOLLARDS AND BOLLARD STRUCTURE
 - 14 CLEARING AND GRUBBING
 - 15 RELOCATE GAS METER BY OWNER
 - A ADJUST SEE PLANS
 - P PROTECT SEE PLANS
 - SL SEE STREET LIGHTING PLANS



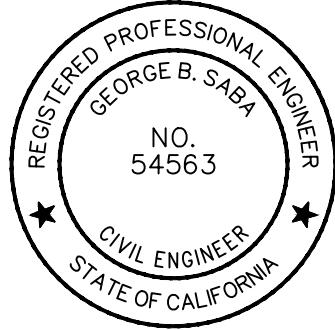
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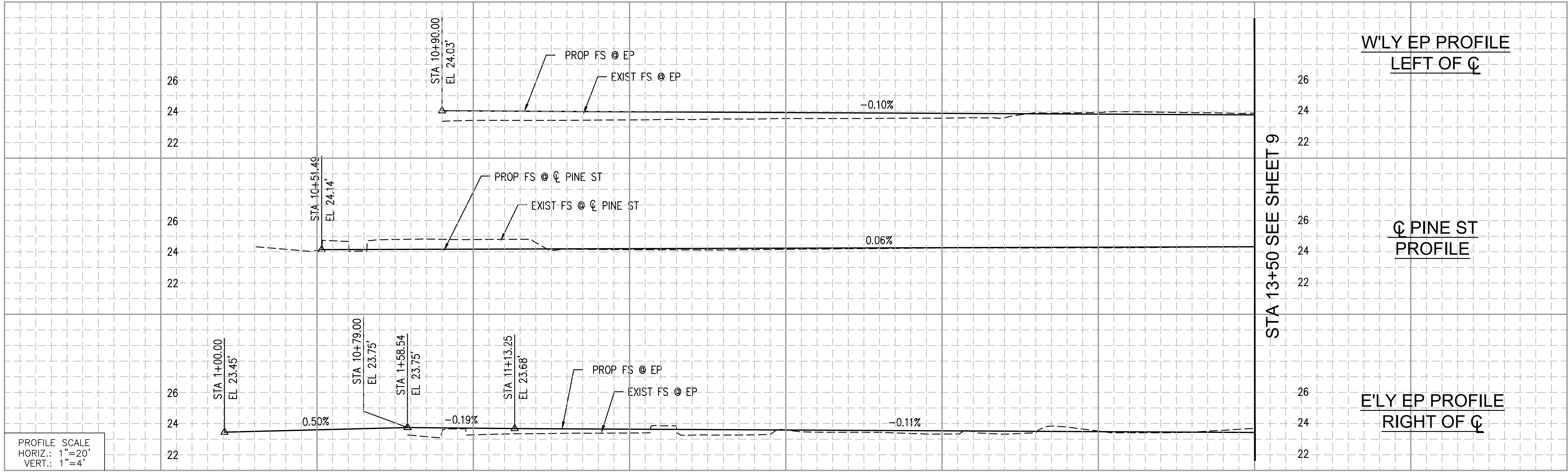
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CHECKED BY	GS	9/25/2025
DESIGNED BY	BR	9/25/2025
APPROVED	9/25/2025 City Engineer Date	

CITY OF LOS ALAMITOS		PLAN NO.
LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT		
PLAN AND PROFILE STREET IMPROVEMENTS		SHEET 8 OF 30



- NOTES
1.

REFER TO SHEET No. 5 TO 6 FOR MEDIAN AND MISCELLANEOUS DETAILS
2.

REFER TO SHEET No. 7 FOR DEMOLITION PLANS
3.

REFER TO SHEET No. 10 FOR STORM DRAIN PLAN AND PROFILES
4.

REFER TO SHEET No. 18 TO 19 FOR LANDSCAPE CONSTRUCTION PLANS
- CONSTRUCTION NOTES
- 1

CONSTRUCT 4-INCH AC PAVEMENT OVER 8-INCH CMB OVER 95 PCT COMPACTED NATIVE
- 2

FURNISH AND INSTALL PAVERS. SEE PLAN No. CD-1 FOR FOR DETAILS
- 3

CONSTRUCT 4-INCH THICK PCC SIDEWALK PER SPPWC STD PLAN 113-2. FOR ADDITIONAL INFORMATION SEE PLAN No. CD-1.
- 4

CONSTRUCT 6-INCH THICK PCC COMMERCIAL DRIVEWAY APPROACH PER SPPWC STD PLAN 110-2
- 5

CONSTRUCT CURB AND GUTTER A2-(MOD) MATCH EXIST CURB HEIGHT & GUTTER WIDTH PER SPPWC STD PLAN 120-3
- 6

CONSTRUCT CURB AND GUTTER A2-6 PER SPPWC STD PLAN 120-3
- 7

CONSTRUCT A1-6 CURB PER SPPWC STD PLAN 120-3
- 9

CONSTRUCT CURB RAMP PER SPPWC STD PLAN 111-5. CASE AND TYPE PER PLAN
- 11

CONSTRUCT ROLLED CURB & GUTTER TO CURB TYPE A1-6 TRANSITION PER DETAIL "H" ON SHEET No. 3
- 13

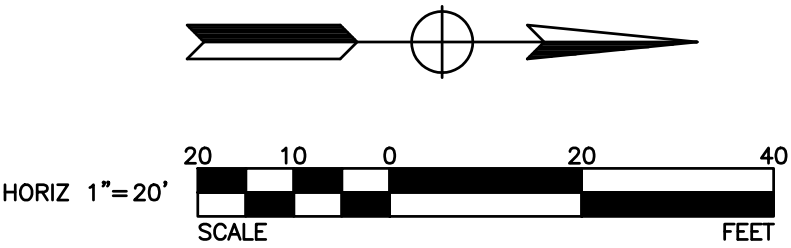
CONSTRUCT ROLLED CURB PER DETAIL "F" ON SHEET NO. 3
- A

ADJUST TO GRADE (ITEM AS NOTED)
- LS

SEE LANDSCAPE PLANS

- LEGEND
- CONSTRUCT 4-INCH AC PAVEMENT OVER 8-INCH CMB OVER 95 PCT COMPACTED NATIVE
- SIDEWALK IMPROVEMENTS
- FURNISH AND INSTALL PAVERS. SEE PLAN NO. CD-1 FOR FOR DETAILS
- TRUNCATED DOMES

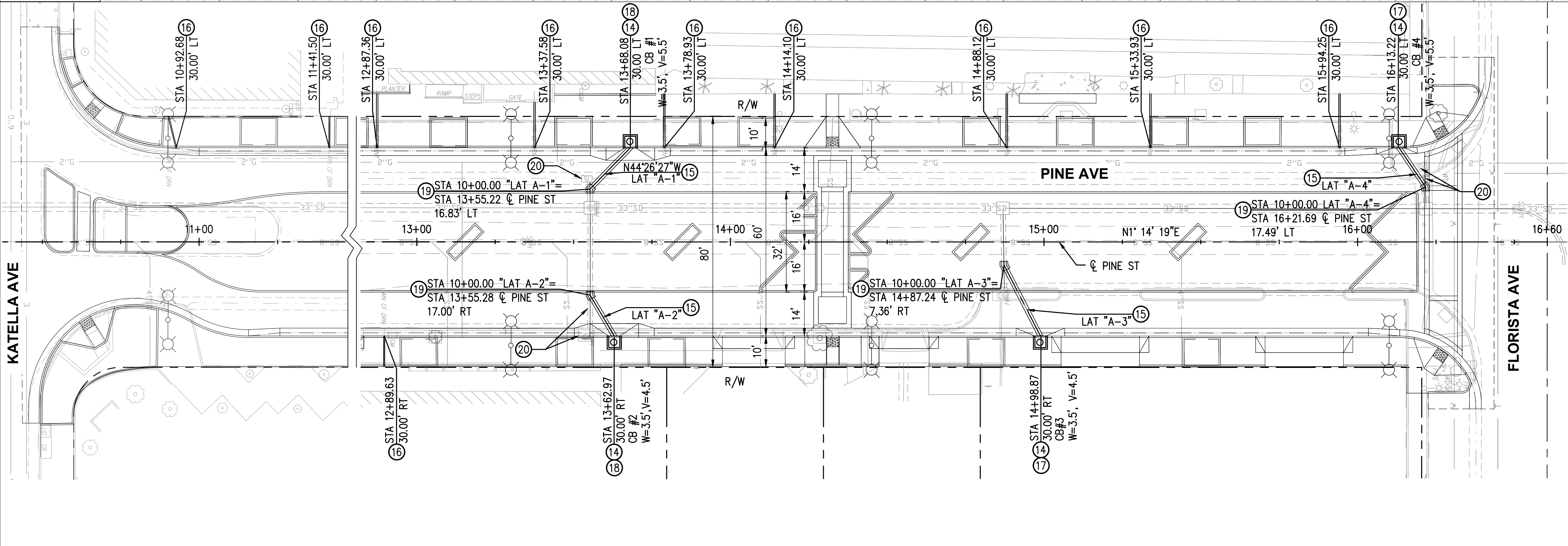
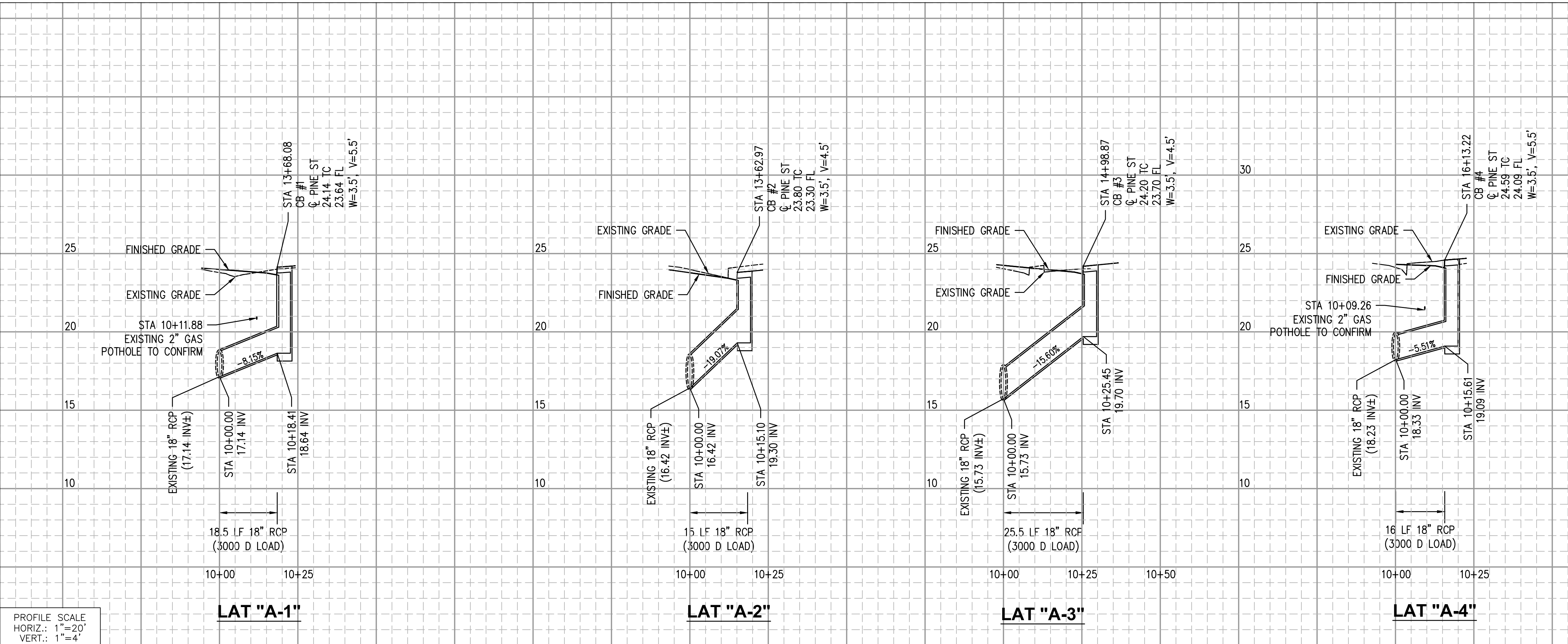
CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
23	47.12'	30.00'	90°00'00"	30.00'
24	19.27'	36.26'	30°26'45"	9.87'
25	19.27'	36.26'	30°26'45"	9.87'
26	54.98'	35.00'	90°00'00"	35.00'
27	25.25'	141.36'	10°14'11"	12.66'
28	25.25'	141.36'	10°14'11"	12.66'
29	21.27'	35.26'	34°33'03"	10.97'
30	21.27'	35.26'	34°33'03"	10.97'
31	23.56'	7.50'	180°00'00"	INFINITY'



75% SUBMITTAL NOT FOR CONSTRUCTION

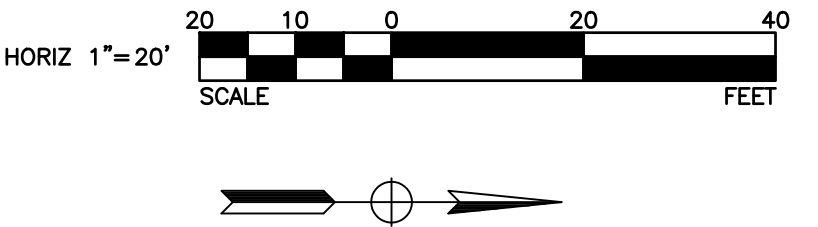
NOTES

1. REFER TO SHEET No. 8 TO 9 FOR PLAN AND PROFILE STREET IMPROVEMENTS
2. CONTRACTOR TO VERIFY ALL EXISTING STORM DRAIN ELEVATIONS PRIOR TO CONSTRUCTION.



CONSTRUCTION NOTES

- (14) CONSTRUCT CASE 1 MODIFIED CATCH BASIN PER SPPWC No. 314-3, W AND V=PER PLAN
(15) FURNISH AND INSTALL D3000 18-INCH RCP
(16) REMOVE AND CONSTRUCT CURB DRAIN PER SPPWC STD PLAN 150-4
(17) CONSTRUCT LOCAL DEPRESSION PER SPPWC STD PLAN 313-4, CASE E
(18) CONSTRUCT ROLLED CURB & GUTTER TO LOCAL DEPRESSION TRANSITION PER DETAIL "G" ON SHEET No. 3 AND LOCAL DEPRESSION PER SPPWC STD PLAN 313-4, CASE A
(19) REMOVE AND CONSTRUCT CONCRETE COLLAR PER SPPWC STD PLAN 380-4
(20) BRICK, MORTAR, SEAL, AND PLUG EXISTING CATCH BASIN AND 18" RCP PIPE PER PLAN



REVISIONS				REFERENCES		DATE		CITY OF LOS ALAMITOS LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT STORM DRAIN PLAN AND PROFILES	PLAN NO.
NUMBER	DATE	INITIALS		APP'V'D					

DRAWN BY	BR, RM	9/24/2025
CHECKED BY	GS	9/24/2025
DESIGNED BY	BR	9/24/2025
APPROVED	City Engineer	9/24/2025

SHEET 10 OF 30

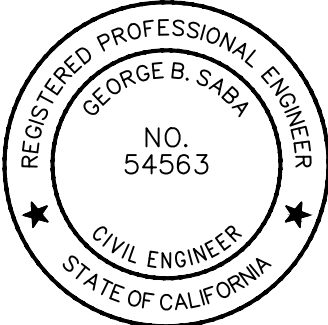
Page 19 of 41

FILE: W:\WE-C\Los Alamitos city of\113731 - Los AL Katella Ave Pmnt Rehab\900-PS&E\001-Plans\PL-RAMP-Reagan.dwg



REVISIONS			
NUMBER	DATE	INITIALS	

REFERENCES	
APPV'D	



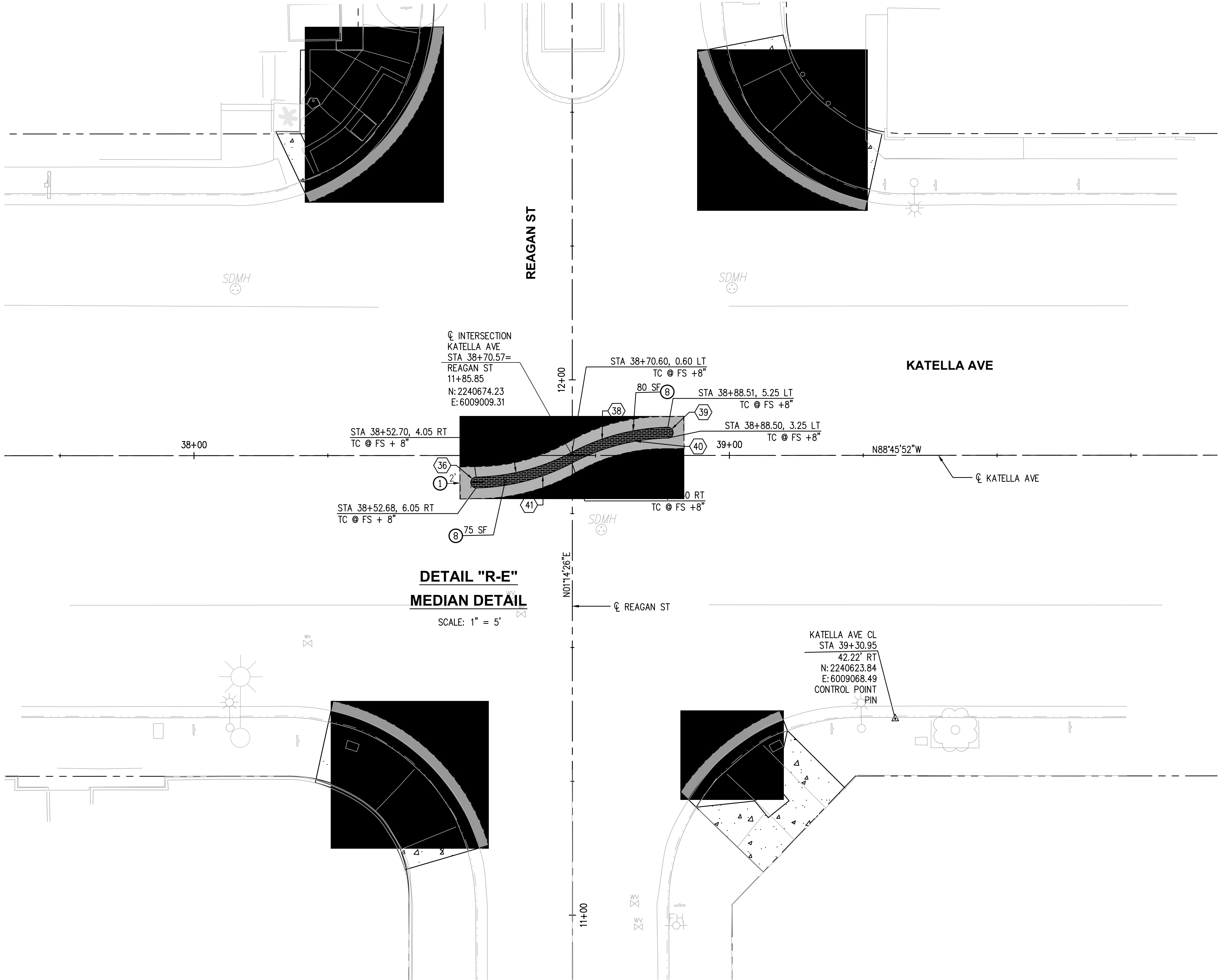
WILLDAN Engineering 2401 East Katella Ave, Suite 400, Anaheim, California 92805 714-978-8200 fax 714-978-8299		COMPREHENSIVE INNOVATIVE TRUSTED
DRAWN BY	BR, RM	9/25/2025
CHECKED BY	GS	9/25/2025
DESIGNED BY	BR	9/25/2025
APPROVED City Engineer		9/25/2025 Date

CITY OF LOS ALAMITOS

LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT

REAGAN ST CURB RAMP AND MEDIAN DETAILS

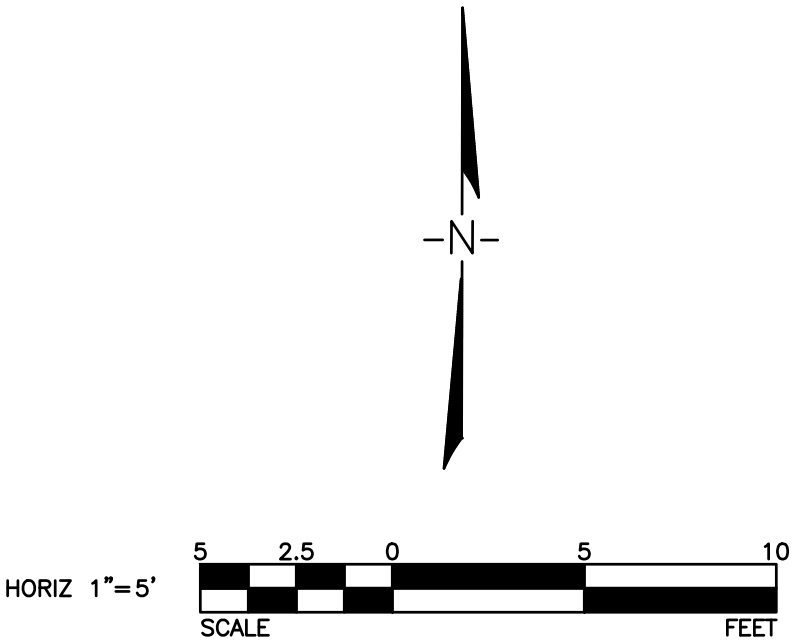
PLAN NO.
SHEET 12 OF 30



- CONSTRUCTION NOTES
- 1 CONSTRUCT 4-INCH AC PAVEMENT OVER 8-INCH CMB OVER 95 PCT COMPACTED NATIVE
 - 2 FURNISH AND INSTALL PAVERS. SEE PLAN No. CD-1 FOR FOR DETAILS
 - 8 CONSTRUCT A1-8 CURB PER SPPWC STD PLAN 120-3

- LEGEND
- CONSTRUCT 4-INCH AC PAVEMENT OVER 8-INCH CMB OVER 95 PCT COMPACTED NATIVE
 - SIDEWALK IMPROVEMENTS
 - FURNISH AND INSTALL PAVERS. SEE PLAN NO. CD-1 FOR FOR DETAILS
 - TRUNCATED DOMES

CURVE DATA				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
36	3.14'	1.00'	180°00'00"	INFINITY'
37	18.67'	40.00'	026°39'38"	9.51'
38	18.67'	40.00'	026°39'09"	9.51'
39	3.16'	1.00'	181°02'27"	110.09'
40	18.67'	40.00'	026°39'09"	9.51'
41	18.67'	40.00'	026°39'09"	9.51'



75% SUBMITTAL NOT FOR CONSTRUCTION

USER: BReyes
DATE: Sep 25, 2025 - 10:36am
FILE: W:\WE-C\Nos alamos: city of\113231 - Los Al Katella Ave Pmt Rehab\900-PS&E\00-Plans\PL-BIKE PATH.dwg
STA 16+25 MATCH LINE
SEE ABOVE RIGHT



REVISIONS			
NUMBER	DATE	INITIALS	

REFERENCES	
APP'V'D	



WILLDAN Engineering 2601 East Katella Ave, Suite 400, Anaheim, California 92806 714-978-8200 fax 714-978-8299		COMPREHENSIVE INNOVATIVE TRUSTED
DRAWN BY	BR, RM	9/25/2025
CHECKED BY	GS	9/25/2025
DESIGNED BY	BR	9/25/2025
APPROVED	9/25/2025 City Engineer Date	

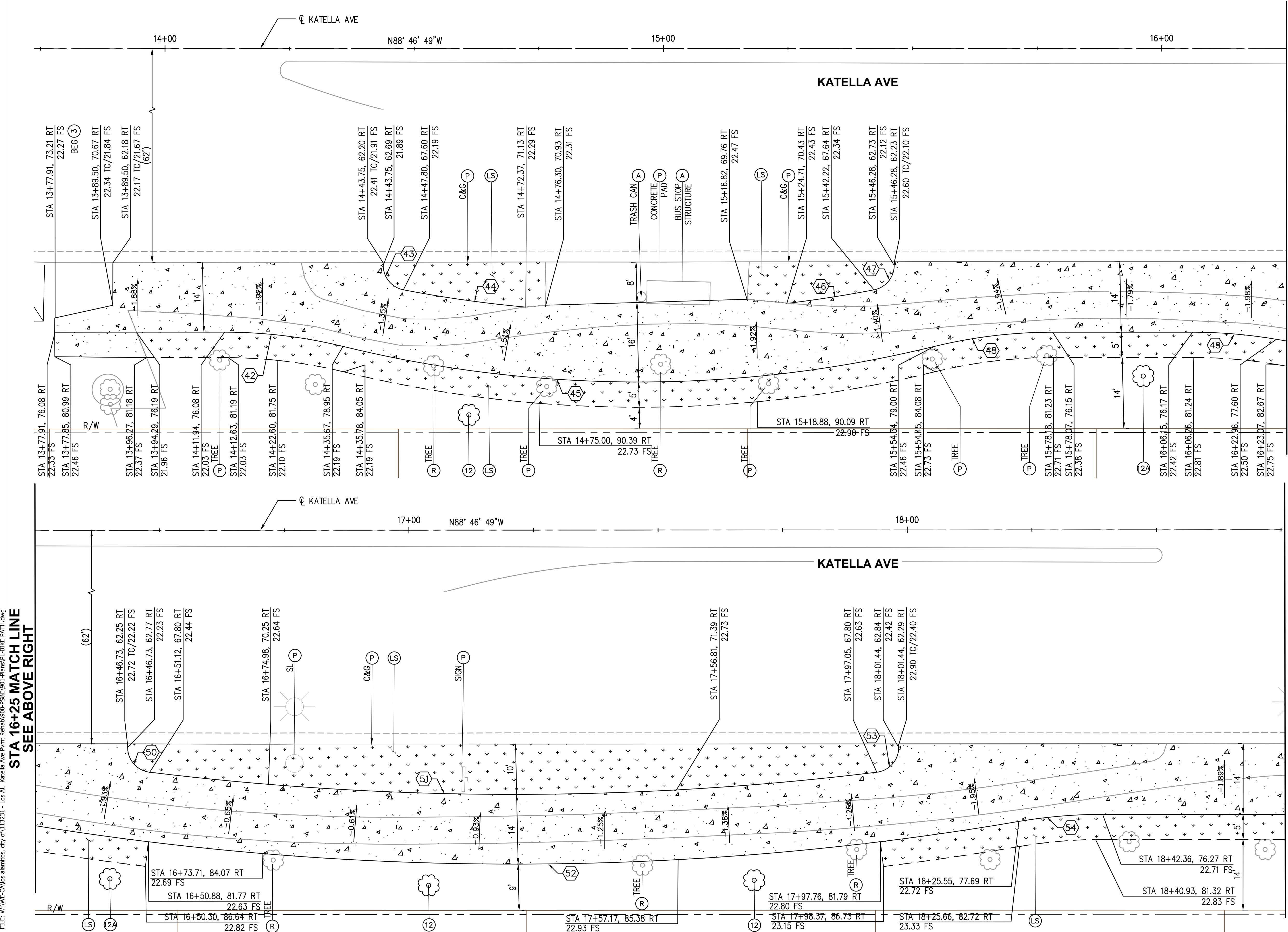
CITY OF LOS ALAMITOS

LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT

KATELLA AVE BIKE PATH IMPROVEMENTS

PLAN NO.

SHEET 13 OF 30



CONSTRUCTION NOTES

3

12

12A

A

P

R

S

CONSTRUCT 4-INCH THICK PCC SIDEWALK PER SPPWC STD PLAN 113-2. FOR ADDITIONAL INFORMATION SEE PLAN No. CD-1.

FURNISH AND INSTALL 24" BOX TREE PLATANUS RACEMOSA – CALIFORNIA SYCA STANDARD TRUNK. SEE DETAIL ON SHEET 13.

FURNISH AND INSTALL 24" BOX TREE JACARANDA MIMOSIFOLIA –JACARANDA STANDARD TRUNK. SEE DETAIL ON SHEET 13.

ADJUST TO GRADE (ITEM AS NOTED)

PROTECT IN PLACE

REMOVE

SEE LANDSCAPE PLANS

LEGEND

PCC IMPROVEMENTS

REPLACE DAMAGED EXISTING LAWN/TURF IN KIND DUE TO CONSTRUCTION. RELOCATE, REPAIR AND REPLACE EXISTING CONFLICTING AND DAMAGED IRRIGATION EQUIPMENT DUE TO CONSTRUCTION. ADJUST IRRIGATION SPRINKLERS AND SPRAY COVERAGE TO AVOID OVERSPRAY ONTO ROADWAY AND SIDEWALK

STA 16+25 MATCH LINE
SEE BELOW LEFT

STA 1875 MATCH LINE
SEE SHEET 14

LODGEPOLE PINE STAKES, 2" DIA. X 10' LONG, 2 REQUIRED

V.I.T. RUBBER CINCH TIE, SECURED TO STAKE WITH GALV. ROOFING NAILS

PLANTING TABLETS AND BACKFILL MIX (SEE SPECS.)

30"

1X ROOTBALL

EXISTING UNDERGROUND UTILITY LINE(S) VERIFY LOCATIONS WITH ENGINEER AND UTILITY

LODGEPOLE PINE STAKE

TREE TRUNK

TREE TIE, NAIL TO STAKE

TREE TIE DETAIL

6" BASIN IN GROUND COVER

FINISH GRADE

PLANTING TABLETS (SEE SPECS.)

PLANTING BACKFILL PUDDLE AND SETTLE TO SET PLANT AT FINISHED GRADE

3X ROOTBALL

NOTE:

IF TREE LOCATION SHOULD BE WITHIN 5 FT. OF MARKED LOCATION FOR POSSIBLE UNDERGROUND UTILITY STRUCTURE BY DIGALERT, CONTRACTOR SHALL MANUALLY EXCAVATE PLANTING HOLE USING HAND SHOVEL. DO NOT USE MECHANICAL DIGGER.

CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA	TANGENT
42	23.962	100.00'	13°43'45"	12.04
43	6.904	5.00'	79°06'54"	4.13
44	24.823	250.00'	5°41'21"	12.42
45	119.809	250.00'	27°27'30"	61.08
46	17.426	250.00'	3°59'37"	8.72
47	6.904	5.00'	79°06'54"	4.13
48	23.962	100.00'	13°43'45"	12.04
49	16.888	100.00'	9°40'35"	8.46
50	7.244	5.00'	83°00'54"	4.42
51	146.292	600.00'	13°58'11"	73.51
52	203.564	600.00'	19°26'20"	102.77
53	7.244	5.00'	83°00'54"	4.42
54	16.888	100.00'	9°40'35"	8.46

HORIZ 1"=10'

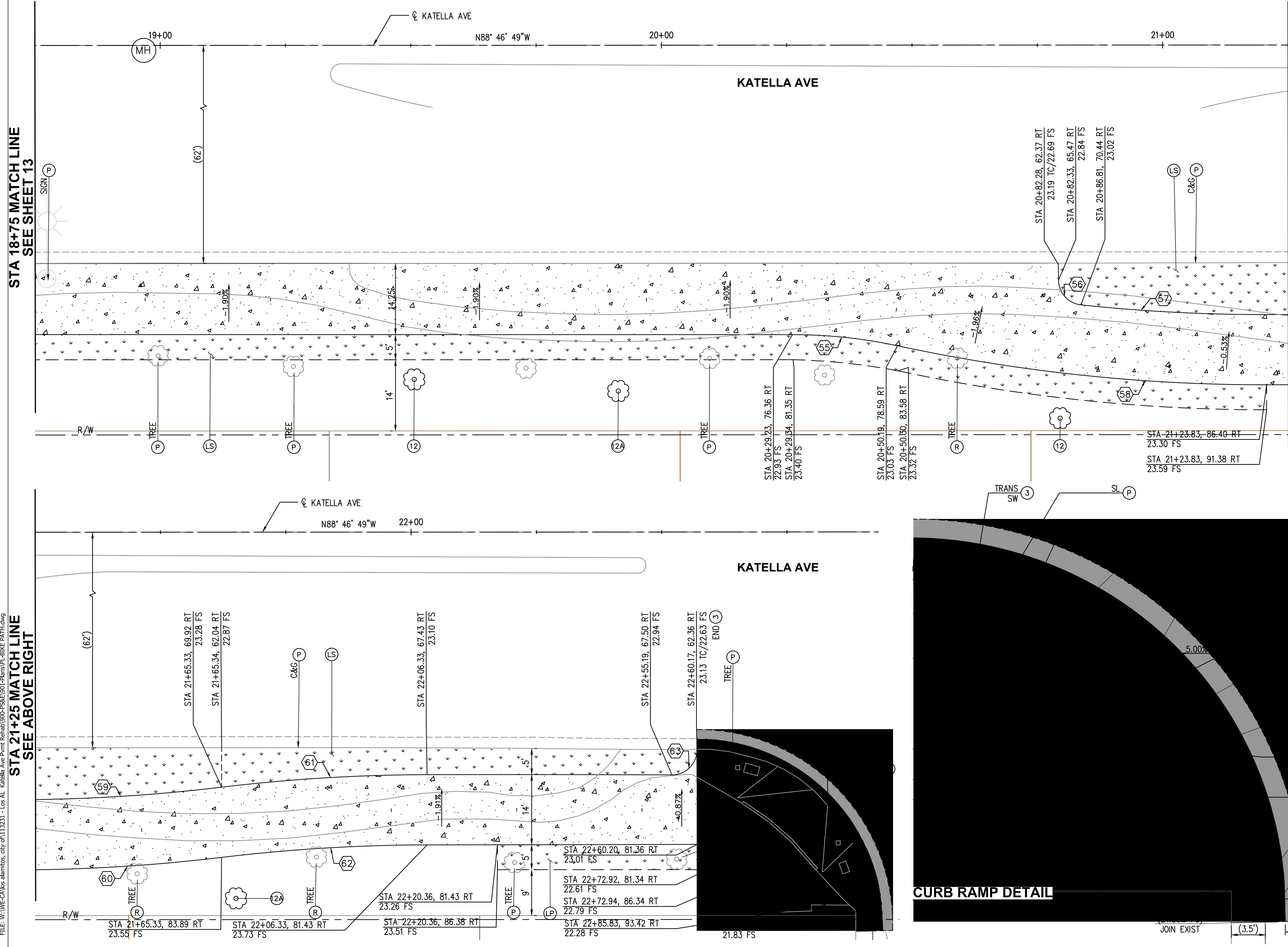
SCALE

10 5 0 10 20 FEET

75% SUBMITTAL NOT FOR CONSTRUCTION

Page 22 of 41

USER: BReyes DATE: Sep 25, 2025 - 10:31am FILE: W:\WE-C\Nos alamos city 0113121 - Los AL Katella Ave Pmt Rehab\900-PS&E\00-Plans\PL-BIKE PATH.dwg



CONSTRUCTION NOTES

- 3 CONSTRUCT 4-INCH THICK PCC SIDEWALK PER SPPWC STD PLAN 113-2. FOR ADDITIONAL INFORMATION SEE PLAN No. CD-1.
- 9 CONSTRUCT CURB RAMP PER SPPWC STD PLAN 111-5. CASE AND TYPE PER PLAN.
- 12 FURNISH AND INSTALL 24" BOX TREE PLATANUS RACEMOSA - CALIFORNIA SYCAMORE STANDARD TRUNK. SEE DETAIL ON SHEET 13.
- 12 FURNISH AND INSTALL 24" BOX TREE JACARANDA MIMOSIFOLIA -JACARANDA STANDARD TRUNK. SEE DETAIL ON SHEET 13.
- A ADJUST TO GRADE (ITEM AS NOTED)
- P PROTECT IN PLACE
- R REMOVE
- S SEE LANDSCAPE PLANS

LEGEND

- PCC IMPROVEMENTS
- REPLACE DAMAGED EXISTING LAWN/TURF IN KIND DUE TO CONSTRUCTION. RELOCATE, REPAIR AND REPLACE EXISTING CONFLICTING AND DAMAGED IRRIGATION EQUIPMENT DUE TO CONSTRUCTION. ADJUST IRRIGATION SPRINKLERS AND SPRAY COVERAGE TO AVOID OVSERSPRAY ONTO ROADWAY AND SIDEWALK
- TRUNCATED DOMES

CURB RAMP DETAIL

TRANS SW 3

SL P

3470 6531 9

SE C

A-A

ET A

RAMP

35'

SL P

PB A

21.71 TC

21.04 FL

21.20 EG

(21.64± TC)

(20.97± FL)

(21.13± EG)

JOIN EXIST

1

3.5'

1.2'

CURVE	LENGTH	RADIUS	DELTA	TANGENT
55	21.121	100.00'	12°06'06"	10.60
56	7.328	5.00'	83°58'12"	4.50
57	37.093	350.00'	6°04'20"	18.56
58	74.181	350.00'	12°08'37"	37.23
59	41.600	350.00'	6°48'38"	20.82
60	41.600	350.00'	6°48'38"	20.82
61	41.101	350.00'	6°43'37"	20.57
62	41.101	350.00'	6°43'37"	20.57
63	8.003	5.00'	91°10'07"	5.13
64	24.775	20.00'	70°58'32"	14.26

HORIZ 1"=10'

SCALE

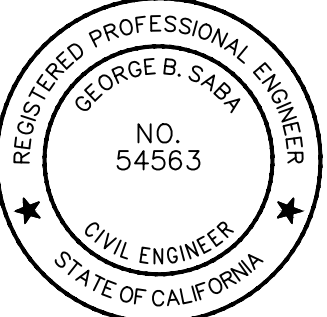
10 5 0 10 20

FEET



Know what's below.
Call before you dig.

REVISIONS				REFERENCES	DATE
NUMBER	DATE	INITIALS		APP'D	





COMPREHENSIVE
INNOVATIVE
TRUSTED

DRAWN BY	BR, RM	9/25/2025
CHECKED BY	GS	9/25/2025
DESIGNED BY	BR	9/25/2025
APPROVED	9/25/2025	
	City Engineer	Date

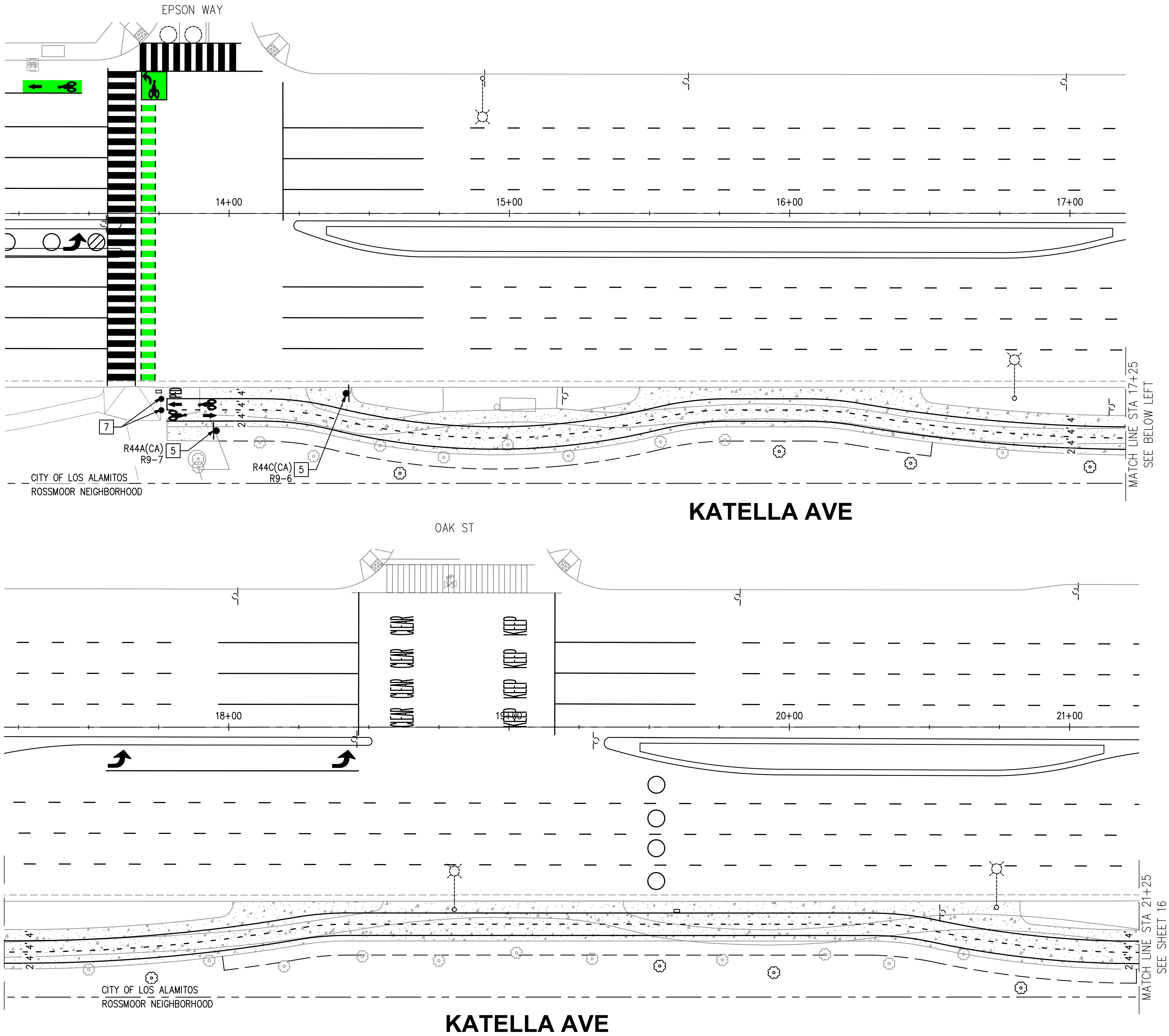
CITY OF LOS ALAMITOS
LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT
KATELLA AVE BIKE PATH IMPROVEMENTS

PLAN NO.

SHEET 14 OF 30

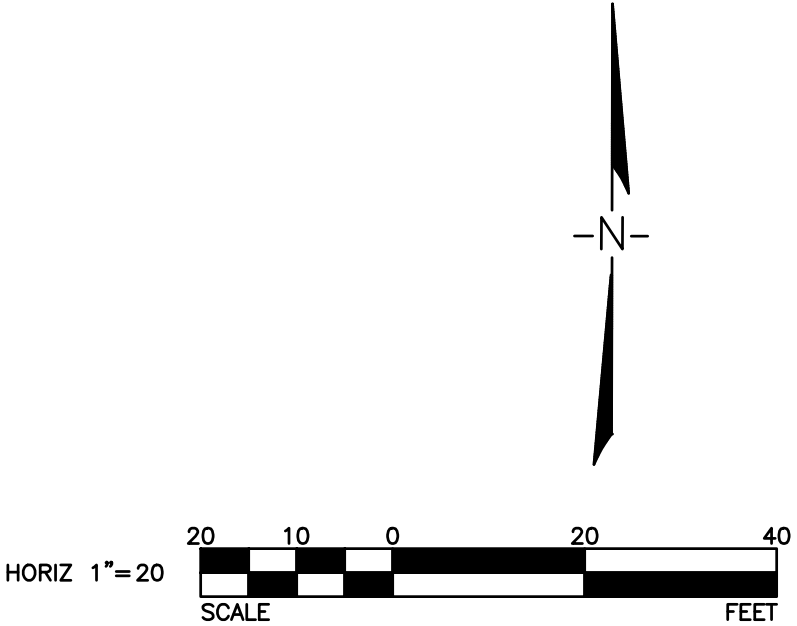
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USER: BReyes
DATE: Sep 25, 2025 - 10:32am



- SIGNING AND STRIPING GENERAL NOTES:
1. SIGNING, STRIPING, LOOP REPLACEMENT AND THE INSTALLATION THEREOF SHALL CONFORM TO CALTRANS STANDARD PLANS AND SPECIFICATIONS, LATEST EDITION, THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), LATEST EDITION, DATED NOVEMBER 2014, THIS PLAN AND THE SPECIAL PROVISIONS.
 2. REMOVAL OF ALL STRIPING AND MARKINGS SHALL BE BY GRINDING METHOD AND INCLUDES REMOVAL OF RAISED PAVEMENT MARKERS.
 3. ALL LANE STRIPING AT INTERSECTION APPROACHES WITHOUT CROSSWALK OR LIMIT LINES SHALL END 10 FEET FROM THE EXTENSION OF THE INTERSECTION CURB LINES.
 4. ALL STRIPING DETAILS AND PAVEMENT LEGENDS SHALL BE THERMOPLASTIC, UNLESS OTHERWISE NOTED.
 5. ALL CROSSWALKS SHALL BE PAINT, 3 COATS.
 6. CONTRACTOR SHALL REPAINT ALL EXISTING CURB MARKINGS THROUGHOUT PROJECT LIMITS. CURB MARKINGS SHALL BE PAINT, 2 COATS.
 7. NEW SIGNS SHALL BE HIGH INTENSITY SHEETING WITH GRAFFITI FILM.
 8. ALL SIGNS ARE EXISTING, UNLESS OTHERWISE NOTED.
 9. INSTALL TWO-WAY BLUE REFLECTIVE MARKER AT EVERY FIRE HYDRANT.
 10. PERFORM PRELIMINARY STRIPING LAYOUT PRIOR TO POSITIONING LOOP DETECTORS AND OBTAIN APPROVAL FOR EXACT LOOP DETECTOR LOCATIONS PRIOR TO FINAL PLACEMENT. UNLESS OTHERWISE NOTED, INDUCTIVE LOOPS SHALL BE (6") DIAMETER TYPE E, CENTERED IN TRAVEL LANE WITH 10' SPACING IN THE DIRECTION OF TRAVEL. LIMIT LINE LOOPS SHALL BE TYPE F BICYCLE LOOP DETECTORS AND PLACED 1' IN ADVANCE OF CROSSWALK OR LIMIT LINE IF NO CROSSWALK.

- SIGNING AND STRIPING CONSTRUCTION NOTES
(THIS SHEET ONLY):
- 1 INSTALL STRIPING DETAIL AND/OR PAVEMENT MARKING AS SHOWN.
 - 2 INSTALL 12" WHITE LIMIT LINE.
 - 3 INSTALL BIKE LANE SYMBOL WITH PERSON AND WITH BIKE LANE ARROW.
 - 4 INSTALL 6" YELLOW SKIP CENTERLINE STRIPE WITH 3' STRIPE LENGTH AND 9' GAPS.
 - 5 INSTALL SIGN(S) AND POST AS NOTED.
 - 6 INSTALL SIGN(S) AS NOTED.
 - 7 INSTALL BOLLARD.



REVISIONS			
NUMBER	DATE	INITIALS	

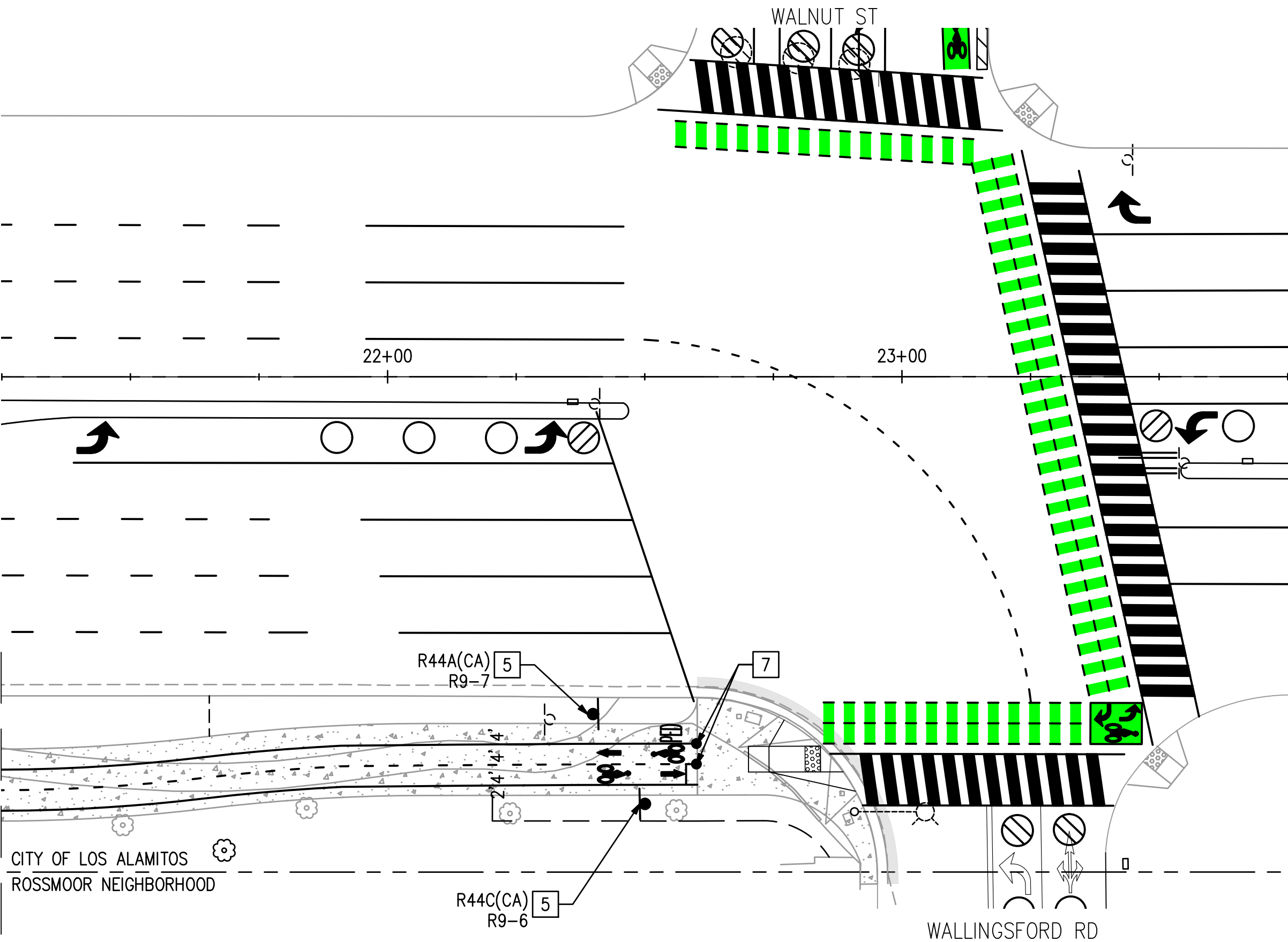
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APPV'D	



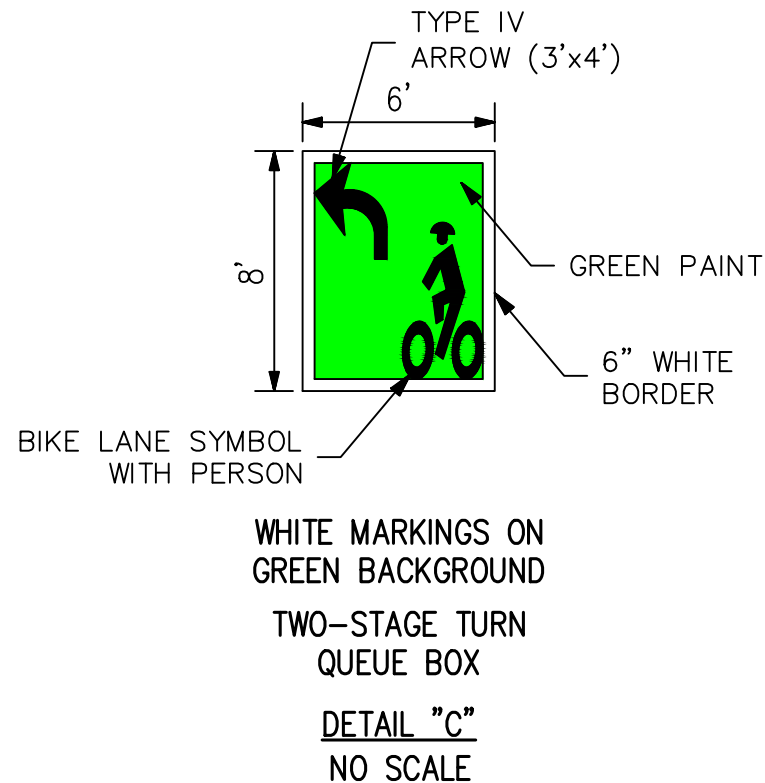
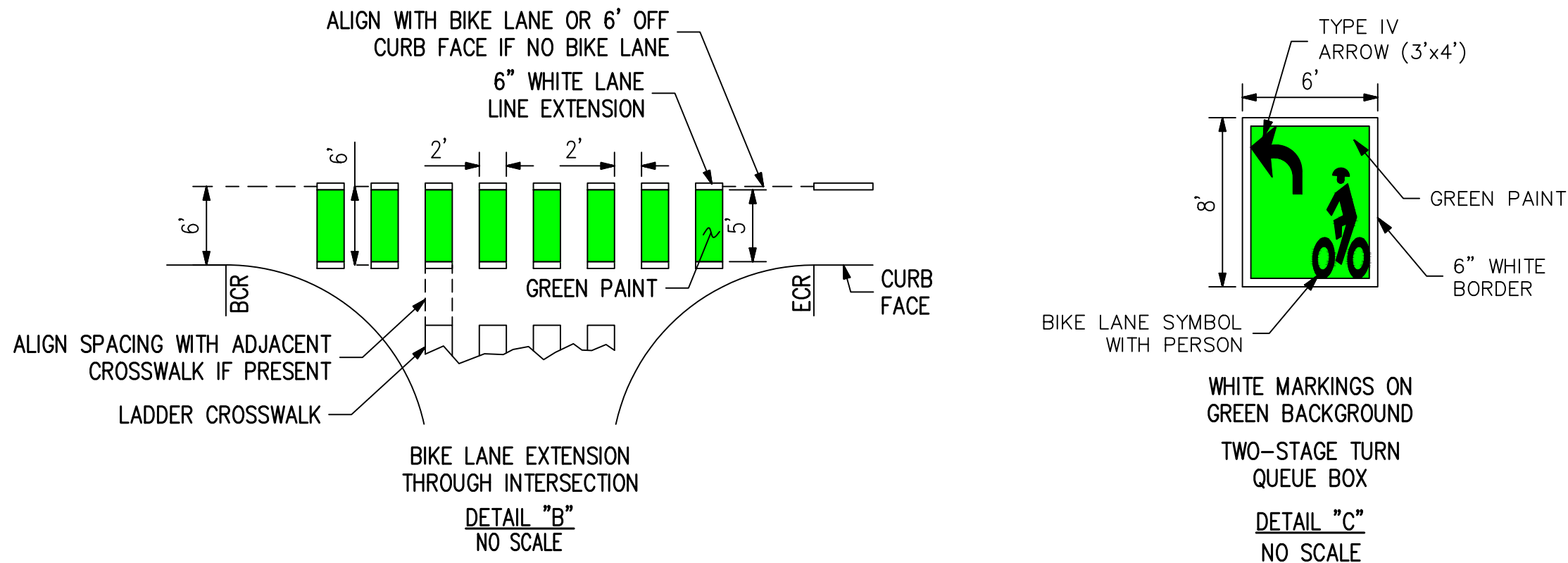
WILLDAN Engineering 2601 East Katella Ave, Suite 450, Anaheim, California 92806 714-978-8200 fax 714-978-8299		DATE
DRAWN BY	MT	9/24/2025
CHECKED BY	FI	9/24/2025
DESIGNED BY	MT/FI	9/24/2025
APPROVED City Engineer		9/24/2025 Date

CITY OF LOS ALAMITOS	PLAN NO.
LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT CLASS I BIKE PATH PLAN FROM EPSON WAY TO STA 21+25	
	SHEET 15 OF 30

MATCH LINE STA 21+25
SEE SHEET 15



KATELLA AVE

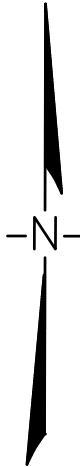
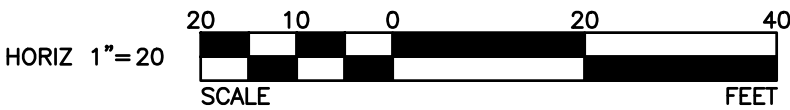


SIGNING AND STRIPING GENERAL NOTES:

1. SIGNING, STRIPING, LOOP REPLACEMENT AND THE INSTALLATION THEREOF SHALL CONFORM TO CALTRANS STANDARD PLANS AND SPECIFICATIONS, LATEST EDITION, THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), LATEST EDITION, DATED NOVEMBER 2014, THIS PLAN AND THE SPECIAL PROVISIONS.
2. REMOVAL OF ALL STRIPING AND MARKINGS SHALL BE BY GRINDING METHOD AND INCLUDES REMOVAL OF RAISED PAVEMENT MARKERS.
3. ALL LANE STRIPING AT INTERSECTION APPROACHES WITHOUT CROSSWALK OR LIMIT LINES SHALL END 10 FEET FROM THE EXTENSION OF THE INTERSECTION CURB LINES.
4. ALL STRIPING DETAILS AND PAVEMENT LEGENDS SHALL BE THERMOPLASTIC, UNLESS OTHERWISE NOTED.
5. ALL CROSSWALKS SHALL BE PAINT, 3 COATS.
6. CONTRACTOR SHALL REPAINT ALL EXISTING CURB MARKINGS THROUGHOUT PROJECT LIMITS. CURB MARKINGS SHALL BE PAINT, 2 COATS.
7. NEW SIGNS SHALL BE HIGH INTENSITY SHEETING WITH GRAFFITI FILM.
8. ALL SIGNS ARE EXISTING, UNLESS OTHERWISE NOTED.
9. INSTALL TWO-WAY BLUE REFLECTIVE MARKER AT EVERY FIRE HYDRANT.
10. PERFORM PRELIMINARY STRIPING LAYOUT PRIOR TO POSITIONING LOOP DETECTORS AND OBTAIN APPROVAL FOR EXACT LOOP DETECTOR LOCATIONS PRIOR TO FINAL PLACEMENT. UNLESS OTHERWISE NOTED, INDUCTIVE LOOPS SHALL BE (6") DIAMETER TYPE E, CENTERED IN TRAVEL LANE WITH 10' SPACING IN THE DIRECTION OF TRAVEL. LIMIT LINE LOOPS SHALL BE TYPE F BICYCLE LOOP DETECTORS AND PLACED 1' IN ADVANCE OF CROSSWALK OR LIMIT LINE IF NO CROSSWALK.

SIGNING AND STRIPING CONSTRUCTION NOTES (THIS SHEET ONLY):

1. INSTALL STRIPING DETAIL AND/OR PAVEMENT MARKING AS SHOWN.
2. INSTALL 12" WHITE LIMIT LINE.
3. INSTALL BIKE LANE SYMBOL WITH PERSON AND WITH BIKE LANE ARROW.
4. INSTALL 6" YELLOW SKIP CENTERLINE STRIPE WITH 3' STRIPE LENGTH AND 9' GAPS.
5. INSTALL SIGN(S) AND POST AS NOTED.
6. INSTALL SIGN(S) AS NOTED.
7. INSTALL BOLLARD.



NUMBER	DATE	INITIALS

REVISIONS

REFERENCES

APP'D



COMPREHENSIVE
INNOVATIVE
TRUSTED

DRAWN BY	MT	DATE
CHECKED BY	FI	9/24/2025
DESIGNED BY	MT/FI	9/24/2025
APPROVED	City Engineer	9/24/2025

CITY OF LOS ALAMITOS	PLAN NO.
LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT	
CLASS I BIKE PATH PLAN	
FROM STA 21+25 TO WALNUT ST	SHEET 16 OF 30

FILE: W:\WE-CAL\los alamitos\city of\113322 - los al\pine street complete\imp\900-PS&E\901-plans\PL-SIGNAL-01.dwg

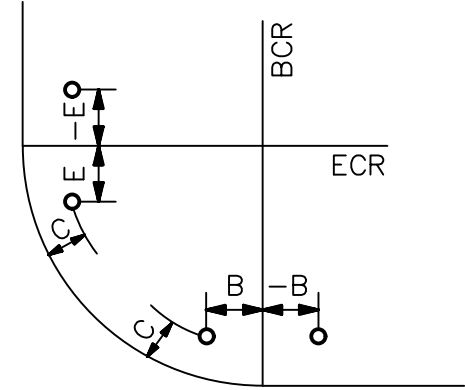
USER: BReyes
DATE: Sep 25, 2025 - 10:33am

■ POLE SCHEDULE															
No.	STANDARD			LUM LED*	VEHICLE SIGNAL MOUNTING		PED SIGNAL	APS PPB			LED I.I.S.N.S. (POLE MOUNT)	LED I.I.S.N.S. (MAST ARM MOUNT)	POLE LOCATION (SEE POLE LOC DETAIL)		
	TYPE	SIG. M.A.	LUM. M.A.		MAST ARM	POLE	MTG.	ø	QUAD	ARROW			E	B	C
(A)	26-4-100	40'	15'	200W	MAS-3A, MAS-3A	SV-1-T	SP-1-T	4	W	LT	REAGAN ST	Ped Xing	-	-	-
(B)	15TS	-	15'	200W	-	-	SP-1-T	4	W	RT	-	-	-	-	-
(C)	26-4-100	15'	15'	200W	MAS-3A, MAS-3A	SV-1-T	-	-	-	-	REAGAN ST	Ped Xing	-	-	-

■ ALL EQUIPMENT IS NEW.
* LED LUMINAIRE EQUIVALENT TO THE HPSV WATTAGE SHOWN.

PHASE DIAGRAM			
	←		↕
	→		↕
Ø1	Ø2	Ø3	Ø4
Ø5	Ø6	Ø7	Ø8

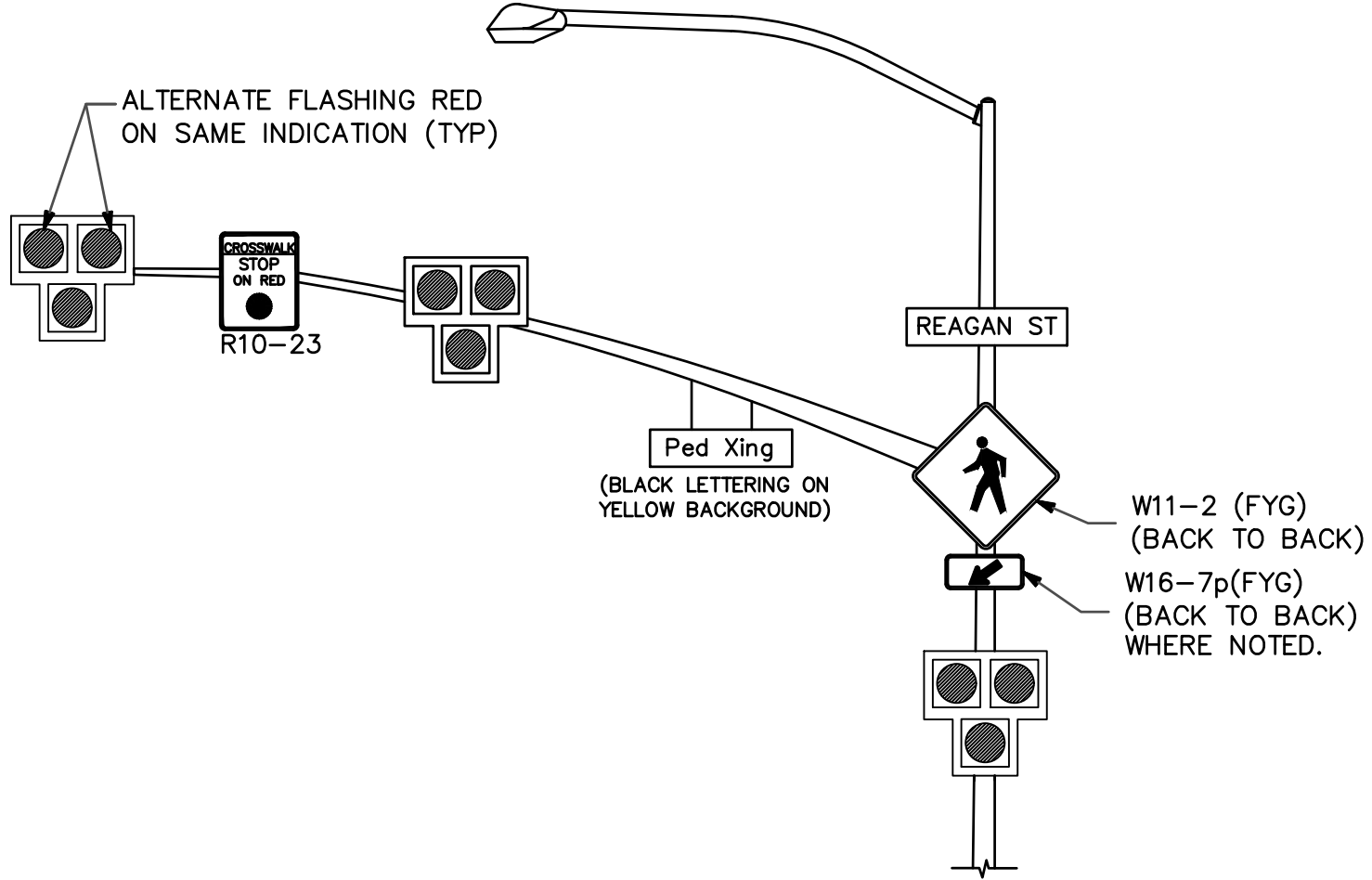
DEMAND SEQUENCE									
AT REST	PED ACTUATION (STAGE 1)	PED ACTUATION (STAGE 2)	PED CROSSING	CLEARANCE					
← Ø2 Ø2 →	← Ø2 Ø2 →	← Ø2 Ø2 →	← Ø2 Ø2 →	← Ø2 Ø2 →	← Ø2 Ø2 →	← Ø2 Ø2 →	← Ø2 Ø2 →	← Ø2 Ø2 →	← Ø2 Ø2 →
ALL DARK	DON'T WALK	FLASHING YELLOW	DON'T WALK	STEADY YELLOW	DON'T WALK	STEADY RED	WALK	FLASHING RED	FLASH DON'T WALK



POLE LOCATION DETAIL

CONDUCTOR SCHEDULE			
AWG	CIRCUIT	RUN	
12/2	POLE (A)	Δ	Δ
12/2	POLE (B)	-	-
12/2	TOTAL	-	-
#10	LUMINAIRE	-	-
TYPE B	Ø2 DETECTOR	-	-
DLC		-	-
CONDUIT SIZE	2-3"	3"	
% FILL	-	-	

▲ ALL CONDUCTORS AND CONDUITS ARE NEW



TYPICAL POLE LAYOUT
N.T.S.

REAGAN ST

KATELLA AVE

PEDESTRIAN HYBRID SIGNAL GENERAL NOTES:

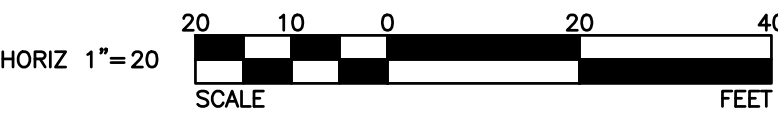
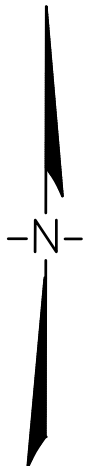
- TRAFFIC SIGNAL POLES FOR PEDESTRIAN HYBRID SIGNAL (HAWK) SYSTEM, HIGHWAY LIGHTING EQUIPMENT, SIGNING AND STRIPING, AND THE INSTALLATION THEREOF SHALL CONFORM TO CALTRANS REVISED STANDARD PLANS AND SPECIFICATIONS, DATED 2023, THE 2014 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), LATEST EDITION, THIS PLAN AND THE SPECIAL PROVISIONS.
- SIGNAL, LIGHTING, AND ELECTRICAL SYSTEMS SHALL CONFORM TO THE PROJECT TECHNICAL SPECIFICATIONS.
- ALL MATERIALS AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- OBTAIN APPROVAL FOR EXACT SIGNAL EQUIPMENT LOCATIONS WITH THE ENGINEER IN THE FIELD PRIOR TO THE FINAL PLACEMENT.
- CONDUIT SHALL BE MIN. 2" IN SIZE AND SCH 80 PVC, UNLESS SHOWN OTHERWISE.
- PULL BOXES SHALL BE #5 "CHRISTY" OR APPROVED EQUAL WITH FIBERLYTE LIDS, UNLESS OTHERWISE NOTED.
- CONDUCTOR SCHEDULE IS PROVIDED AS AN INSTALLATION GUIDE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CORRECT CONDUCTORS REQUIRED FOR THE INTENDED OPERATION.
- VEHICLE INDICATIONS SHALL BE 12" LIGHT EMITTING DIODE (LED) RED, AND LED YELLOW PER THE SPECIAL PROVISIONS.
- PEDESTRIAN INDICATIONS SHALL BE LED COUNTDOWN PEDESTRIAN HEADS PER THE SPECIAL PROVISIONS.
- ALL PEDESTRIAN PUSH BUTTONS AND SIGNS SHALL BE AUDIBLE PEDESTRIAN SIGNAL, APS (2" BUTTON) AND R10-3b PEDESTRIAN PUSH BUTTON SIGN. PUSH BUTTONS SHALL BE POLARA INS OR CITY APPROVED EQUAL.
- ALL WIRING SHALL BE MARKED (TAGGED) WITHIN THE CONTROLLER CABINET FOR PHASE IDENTIFICATION. ALL SIGNAL CABLES IN PULL BOXES SHALL BE MARKED AS TO WHICH POLE No. THEY TERMINATE.
- LOCATION OF UNDERGROUND FACILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL POT HOLE TO DETERMINE THE EXACT LOCATION AND VERIFY ALL CONDITIONS ON THE JOBSITE PRIOR TO ORDERING POLES.
- THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO AVOID DAMAGING EXISTING UTILITIES BY LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION. HAND DIG FOUNDATIONS UNTIL CLEAR OF OBSTRUCTION. COORDINATE POLE INSTALLATION WITH OVERHEAD UTILITY AND SUBSTRUCTURE OWNERS. CONTACT UNDERGROUND SERVICE ALERT BY DIALING 811, 48 HOURS PRIOR TO CONSTRUCTION.
- ANY MODIFICATION OF OR CHANGES TO APPROVED PLANS MUST BE APPROVED BY THE CITY ENGINEER.
- CONDUIT ROUTINGS SHOWN ARE SCHEMATIC ONLY. ACTUAL ROUTINGS SHALL BE BY THE MOST DIRECT PATH POSSIBLE THAT DOES NOT PRODUCT THE CONFLICTED IDENTIFIED HEREIN.
- THE CONTRACTOR SHALL MAINTAIN PROPER ADA CLEARANCES AROUND ALL NEW POLES, CABINETS, OR ANY OTHER ABOVE-GROUND EQUIPMENT TO BE INSTALLED AS PART OF THIS PROJECT. ALL NEW POLES, CONDUIT, AND PULL BOXES SHALL BE INSTALLED OUTSIDE OF CURB RAMPS.
- ALL STRIPING DETAILS, PAVEMENT MARKINGS AND CROSSWALKS SHALL BE THERMOPLASTIC.
- REMOVAL OF CONFLICTING STRIPING SHALL BE BY GRINDING METHOD. STRIPING REMOVALS SHALL INCLUDE REMOVAL OF RAISED PAVEMENT MARKERS.
- ALL SALVAGED EQUIPMENT SHALL BE DELIVERED TO THE CITY MAINTENANCE YARD AS DIRECTED BY THE ENGINEER IN THE FIELD.

CONSTRUCTION NOTES (THIS SHEET ONLY):

- INSTALL TYPE 2070E CONTROLLER ASSEMBLY COMPLETE IN TYPE 332L CABINET WITH 2033 BITRANS PROGRAM AND AUXILIARY EQUIPMENT AS NECESSARY TO PROVIDE THE OPERATION SHOWN. INSTALL RACK MOUNT ICCU C2 UNIT, POWER SUPPLY AND INTERCONNECT BOARD FOR 2-WIRE APS SYSTEM. INSTALL BATTERY BACKUP SYSTEM COMPLETE IN SEPARATE CABINET, MOUNTED TO THE SIDE OF THE CONTROLLER CABINET. CONNECT BATTERY BACKUP SYSTEM TO TRAFFIC SIGNAL CONTROLLER CABINET PER MANUFACTURER'S SPECIFICATIONS.
- INSTALL 120/240 1P IN EXISTING TYPE-III BF ELECTRICAL SERVICE ENCLOSURE WITH 100AMP METER, PROVIDE 1-50AMP BREAKER FOR METERED SIGNAL, 1-30AMP BREAKER FOR UNMETERED SAFETY LIGHTING.
- REMOVE EXISTING POLE AND FOUNDATION COMPLETE.
- REMOVE CONFLICTING STRIPING.
- INSTALL 12" THERMOPLASTIC WHITE LIMIT LINE.
- REMOVE SIGN(S) AS NOTED.
- INSTALL SIGN(S) AS NOTED.

LEGEND:

— PROPOSED RED-CURB



REVISIONS

NUMBER	DATE	INITIALS	

REFERENCES

APPV'D



DATE	
DRAWN BY	BR, RM
CHECKED BY	BS
DESIGNED BY	BR/FI
APPROVED	9/24/2025
City Engineer	Date

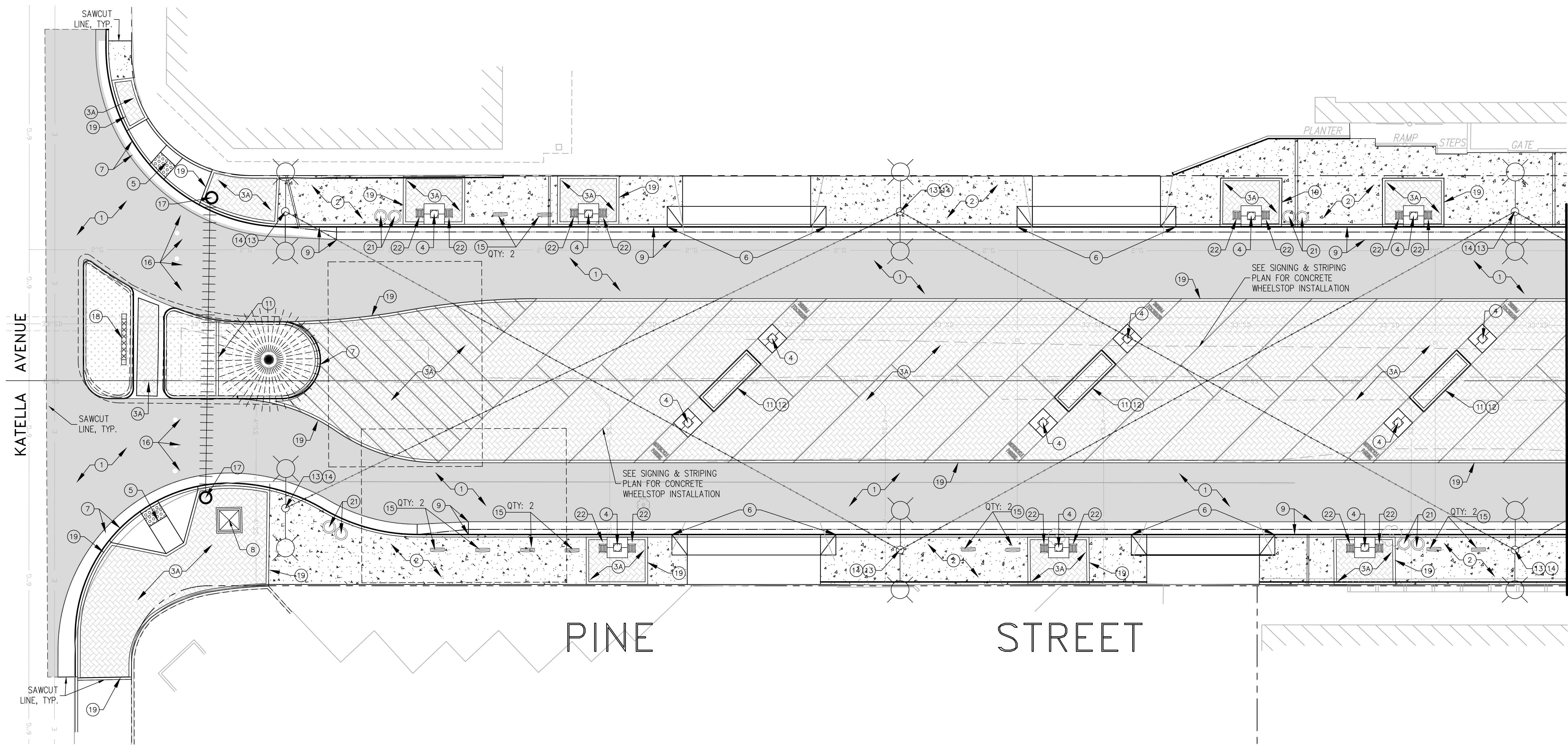
CITY OF LOS ALAMITOS
LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE
CORRIDOR IMPROVEMENT PROJECT
PEDESTRIAN HYBRID SIGNAL (HAWK) INSTALLATION PLAN
KATELLA AVE AT REAGAN ST

PLAN NO.

SHEET 17 OF 30

75% SUBMITTAL NOT FOR CONSTRUCTION

USER: BReyes
DATE: Sep 25, 2025 - 10:23am
FILE: W:\WE-C\Nos alamos: city of\113322 - los al pine street complete street imp\900-PSCE\901-plans\PL-L5-01.dwg



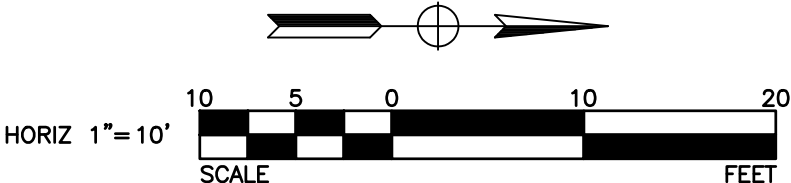
CONSTRUCTION NOTES

- ① AC PAVEMENT. SEE CIVIL ENGINEERING PLANS.
- ② CONSTRUCT 4-INCH THICK PCC SIDEWALK. SEE DETAIL 1, PLAN NO. CD-1 AND CIVIL ENGINEERING PLANS FOR ADDITIONAL INFORMATION.
- FURNISH AND INSTALL CERAMIC BASED PERVIOUS PAVER
PATTERN: HERRINGBONE
PATTERN: PARQUET
PAVER: PER DETAIL
SEE DETAIL 2, PLAN NO. CD-1.
- ④ CONSTRUCT, FURNISH, AND INSTALL TREE WELL, GRATE, AND OUTDOOR ELECTRICAL RECEPTACLE. SEE DETAIL 3, PLAN NO. CD-1.
- ⑤ PEDESTRIAN CURB RAMP. SEE CIVIL ENGINEERING PLANS.
- ⑥ PCC COMMERCIAL DRIVEWAY. SEE CIVIL SITE PLANS FOR ELEVATIONS AND CONSTRUCTION INFORMATION.
- ⑦ PCC CURB AND GUTTER. SEE CIVIL ENGINEERING PLANS.
- ⑧ STORM DRAIN CATCH BASIN. SEE CIVIL ENGINEERING PLANS.
- ⑨ ROLLED CURB GUTTER. SEE CIVIL ENGINEERING PLANS.
- ⑩ FURNISH AND INSTALL ENTRY MONUMENT SIGN. SEE DETAIL 5, PLAN NO. CD-1.
- ⑪ CONSTRUCT 6-INCH WIDE RAISED PCC CURB. SEE DETAIL 3, PLAN NO. CD-1.

- ⑫ FURNISH AND INSTALL SKATEBOARD DETERRENT. SEE DETAIL 2, PLAN NO. CD-2.
- ⑬ PEDESTRIAN PATH LIGHT. SEE ELECTRICAL PLANS.
- ⑭ LED STRING LIGHTS. SEE ELECTRICAL PLANS AND SEE DETAIL NO. 3, PLAN NO. CD-2.
- ⑮ FURNISH AND INSTALL PREFABRICATED BIKE RACK. SEE DETAIL 4, PLAN NO. CD-2.
- ⑯ FURNISH AND INSTALL REMOVABLE BOLLARD. SEE DETAIL 5, PLAN NO. CD-2.
- ⑰ FURNISH AND INSTALL OVERHEAD STREET BANNER. SEE DETAIL 1, PLAN NO. CD-3.
- ⑱ FURNISH AND INSTALL ALUMINUM TRUSS ASSEMBLY COMPLETE. SEE DETAIL 2, PLAN NO. CD-3.
- ⑲ CONSTRUCT 6-INCH WIDE PCC BAND. SEE DETAIL 1, PLAN NO. CD-2.
- ⑳ CONSTRUCT 1.5-INCH WIDE PCC BAND. SEE DETAIL 1, PLAN NO. CD-2.
- ㉑ FURNISH AND INSTALL PRECAST CONCRETE 2-BIN TRASH/RECYCLE STATION. SEE DETAIL 4, PLAN NO. CD-2.
- ㉒ FURNISH AND INSTALL PRECAST CONCRETE BENCH. SEE DETAIL 5, PLAN NO. CD-3.

GENERAL NOTES:

- PRIOR TO START OF HARDSCAPE CONSTRUCTION WORK, CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE ENGINEER FOR REVIEW AND APPROVAL:
 - MANUFACTURER'S CUT SHEETS OF CONCRETE PAVERS, COLOR CHARTS, PRINTED PATTERN SAMPLES AND (1) SAMPLE OF PAVERS.
 - THREE COPIES OF THE MANUFACTURER'S PRINTED INSTRUCTIONS, BULLETINS, AND SPECIFICATIONS OF CONCRETE COLORS.
 - (1) 2' X 2' SQUARE CONCRETE PAVER MOCK -UP SAMPLE
- CONCRETE PAVERS SHALL BE INSTALLED/ CONSTRUCTED IN THE LOCATIONS SHOWN ON THE PLANS, AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER. WORK NOT CONFORMING TO COLOR AND FINISH, APPEARANCE OR OTHERWISE NOT COMPLYING WITH THE TECHNICAL SPECIFICATIONS SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE CITY



REVISIONS

NUMBER	DATE	INITIALS

REFERENCES

APP'V'D



DATE
DRAWN BY JV/BN 9/24/2025
CHECKED BY JH/BN 9/24/2025
DESIGNED BY JV/BN 9/24/2025
APPROVED City Engineer 9/24/2025 Date

CITY OF LOS ALAMITOS

LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT

LANDSCAPE CONSTRUCTION PLAN

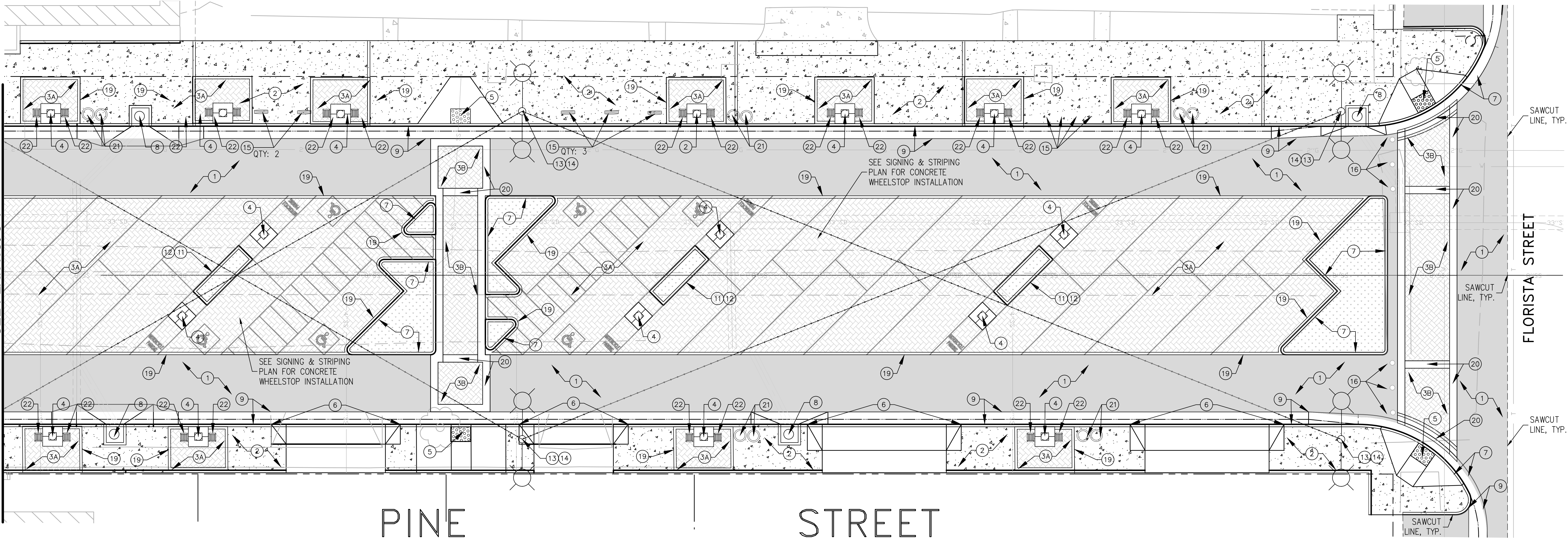
PLAN NO.

C-1

SHEET 18 OF 30

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MATCH LINE
SEE PLAN NO. C-1



FLORISTA STREET

PINE STREET

- ① AC PAVEMENT. SEE CIVIL ENGINEERING PLANS.
- ② CONSTRUCT 4-INCH THICK PCC SIDEWALK. SEE DETAIL 1, PLAN NO. CD-1 AND CIVIL ENGINEERING PLANS FOR ADDITIONAL INFORMATION.
- FURNISH AND INSTALL CERAMIC BASED PERVIOUS PAVER
PATTERN: HERRINGBONE
PATTERN: PARQUET
PAVER: PER DETAIL
SEE DETAIL 2, PLAN NO. CD-1.
- ④ CONSTRUCT, FURNISH, AND INSTALL TREE WELL, GRATE, AND OUTDOOR ELECTRICAL RECEPTACLE. SEE DETAIL 3, PLAN NO. CD-1.
- ⑤ PEDESTRIAN CURB RAMP. SEE CIVIL ENGINEERING PLANS.

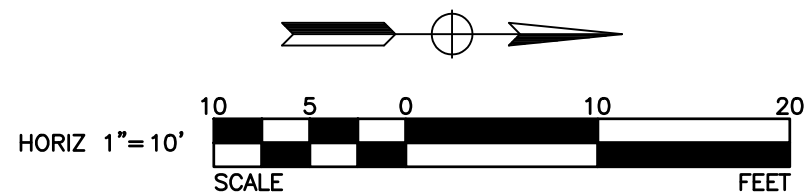
- ⑥ PCC COMMERCIAL DRIVEWAY. SEE CIVIL SITE PLANS FOR ELEVATIONS AND CONSTRUCTION INFORMATION.
- ⑦ PCC CURB AND GUTTER. SEE CIVIL ENGINEERING PLANS.
- ⑧ STORM DRAIN CATCH BASIN. SEE CIVIL ENGINEERING PLANS.
- ⑨ ROLLED CURB GUTTER. SEE CIVIL ENGINEERING PLANS.
- ⑩ FURNISH AND INSTALL ENTRY MONUMENT SIGN. SEE DETAIL 5, PLAN NO. CD-1.
- ⑪ CONSTRUCT 6-INCH WIDE RAISED PCC CURB. SEE DETAIL 3, PLAN NO. CD-1.

- ⑫ FURNISH AND INSTALL SKATEBOARD DETERRENT. SEE DETAIL 2, PLAN NO. CD-2.
- ⑬ PEDESTRIAN PATH LIGHT. SEE ELECTRICAL PLANS.
- ⑭ LED STRING LIGHTS. SEE ELECTRICAL PLANS AND SEE DETAIL NO. 3, PLAN NO. CD-2.
- ⑮ FURNISH AND INSTALL PREFABRICATED BIKE RACK. SEE DETAIL 4, PLAN NO. CD-2.
- ⑯ FURNISH AND INSTALL REMOVABLE BOLLARD. SEE DETAIL 5, PLAN NO. CD-2.
- ⑰ FURNISH AND INSTALL OVERHEAD STREET BANNER. SEE DETAIL 1, PLAN NO. CD-3.

- ⑱ FURNISH AND INSTALL ALUMINUM TRUSS ASSEMBLY COMPLETE. SEE DETAIL 2, PLAN NO. CD-3.
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- ㉑ FURNISH AND INSTALL PRECAST CONCRETE 2-BIN TRASH/RECYCLE STATION. SEE DETAIL 4, PLAN NO. CD-2.
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GENERAL NOTES:

- PRIOR TO START OF HARDSCAPE CONSTRUCTION WORK, CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE ENGINEER FOR REVIEW AND APPROVAL:
 - MANUFACTURER'S CUT SHEETS OF CONCRETE PAVERS, COLOR CHARTS, PRINTED PATTERN SAMPLES AND (1) SAMPLE OF PAVERS.
 - THREE COPIES OF THE MANUFACTURER'S PRINTED INSTRUCTIONS, BULLETINS, AND SPECIFICATIONS OF CONCRETE COLORS.
 - (1) 2' X 2' SQUARE CONCRETE PAVER MOCK -UP SAMPLE
- CONCRETE PAVERS SHALL BE INSTALLED/ CONSTRUCTED IN THE LOCATIONS SHOWN ON THE PLANS, AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER. WORK NOT CONFORMING TO COLOR AND FINISH, APPEARANCE OR OTHERWISE NOT COMPLYING WITH THE TECHNICAL SPECIFICATIONS SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE CITY



REVISIONS

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REFERENCES

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DESIGNED BY JV/BN 9/24/2025
APPROVED City Engineer 9/24/2025 Date

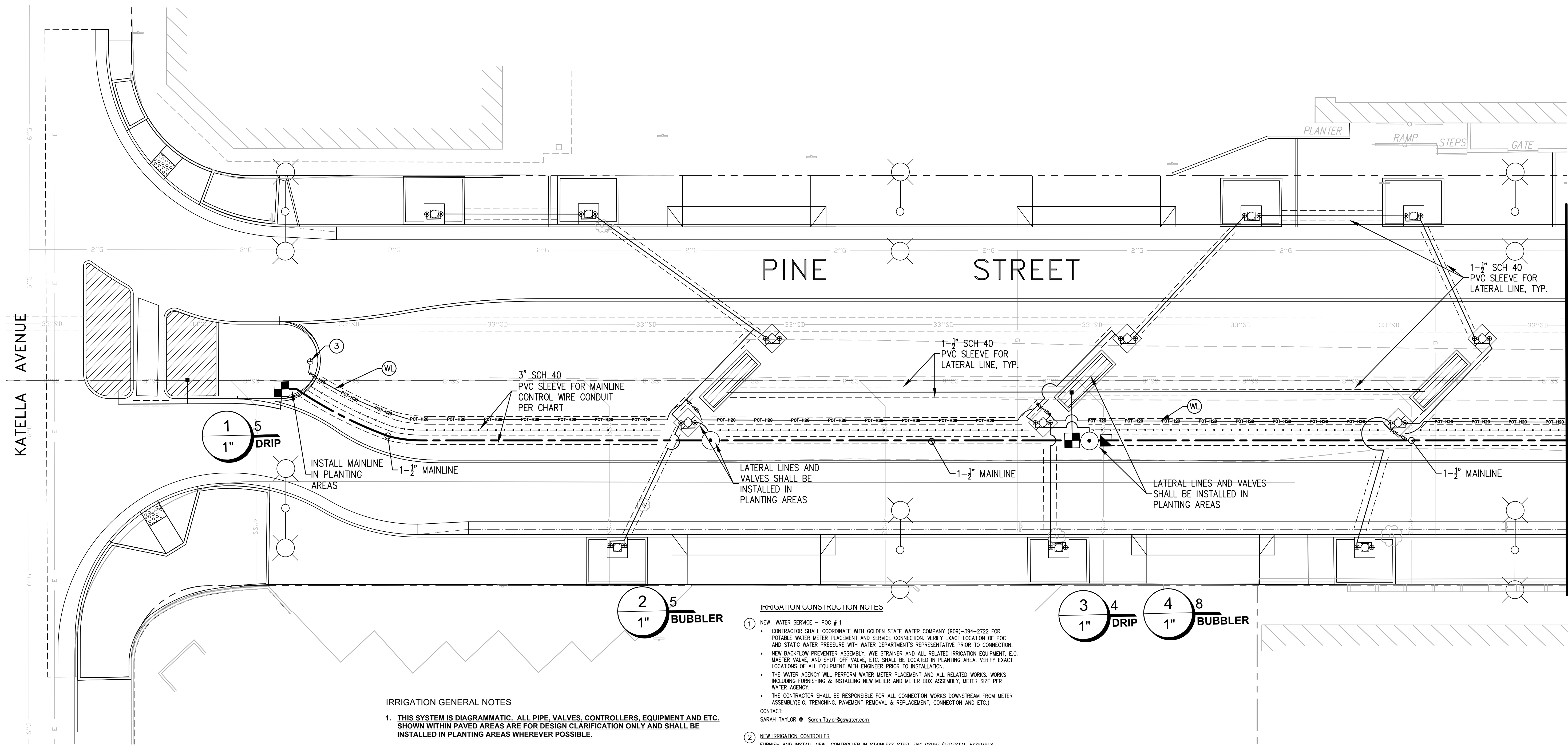
CITY OF LOS ALAMITOS
LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE
CORRIDOR IMPROVEMENT PROJECT
LANDSCAPE CONSTRUCTION PLAN

PLAN NO.

C-2

SHEET 19 OF 30

USER: BReyes
DATE: Sep 25, 2025 - 10:33am
FILE: W:\WE-C\Los Alamitos city of\113222 - los al pine street complete street imp\900-PS&E\901-plans\PL-LS-02_Irrigation.dwg



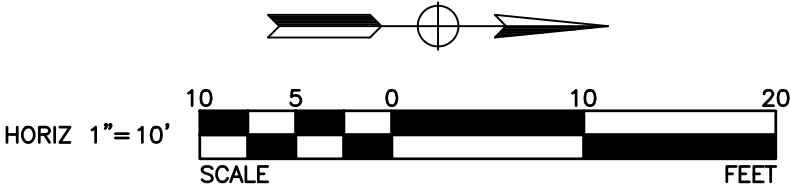
IRRIGATION GENERAL NOTES

- THIS SYSTEM IS DIAGRAMMATIC. ALL PIPE, VALVES, CONTROLLERS, EQUIPMENT AND ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE.**
- CONTRACTOR SHALL CONTACT CITY LANDSCAPE MAINTENANCE SUPERVISOR TO VERIFY ALL EXISTING IRRIGATION EQUIPMENT LOCATIONS AND CURRENT CONDITIONS PRIOR TO COMMENCING IRRIGATION INSTALLATION.
- DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS INDICATED ON THE DRAWING WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR GRADE DIFFERENCES EXIST AND SHOULD BE BROUGHT TO THE ATTENTION OF THE CITY ENGINEER. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR MUST ASSUME FULL RESPONSIBILITY FOR REVISIONS NECESSARY. NOTIFY THE CITY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS.
- CONTRACTOR SHALL NOT LOCATE ANY ITEMS WHERE IT IS OBVIOUS THAT THEY ARE IN DIRECT CONFLICT WITH UNDERGROUND UTILITIES, STRUCTURES, PERMANENT IMPROVEMENTS OR PEDESTRIAN AND VEHICULAR SAFETY CONSIDERATIONS.
- SYSTEM DESIGN IS BASED ON MINIMUM OPERATING PRESSURE SHOWN AT POC LOCATION WITH MAXIMUM GPM DEMAND SPECIFIED. IRRIGATION CONTRACTOR SHALL VERIFY ALL PRESSURES ON SITE PRIOR TO CONSTRUCTION AND GIVEN TO IN WRITING TO THE CITY ENGINEER.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF CURBS, ETC. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS FOR LOCATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADS, PAVING AND STRUCTURES DURING BIDDING AND CONSTRUCTION PERIOD.
- CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORKS. THE LOCATIONS OF UTILITIES, STRUCTURES AND SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE CITY ENGINEER.
- ALL IRRIGATION CONSTRUCTION AND MATERIALS SHALL BE INSTALLED PER THE MANUFACTURE'S SPECIFICATIONS AT THE LOCATIONS AS SHOWN ON PLANS AND ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOCAL AND REGIONAL GOVERNING CODES. VERIFY LOCATIONS OF ALL IRRIGATION EQUIPMENT WITH CITY ENGINEER PRIOR TO INSTALLATION.
- ALL IRRIGATION PIPES AND CONDUITS RUN UNDER PAVING SHALL BE INSTALLED INSIDE SLEEVES AS SHOWN ON PLAN. INSTALLATION OF PIPE SLEEVING AND CONDUIT SHALL BE DONE BY BORING OR TRENCHING WHEREVER POSSIBLE.
- COORDINATE WITH PLANTING PLANS FOR EXACT LOCATION OF TREES FOR INSTALLATION OF ROOT ZONE WATERING SYSTEM.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT AS SHOWN ON THE DETAILS AND IN SPECIFICATIONS. CONTRACTOR SHALL PROVIDE ADDITIONAL (3) PILOT WIRES AND (1) PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAINLINE TO THE LAST RCV ON EACH OF EVERY LEG OF MAINLINE. LABEL SPARE WIRES AT BOTH ENDS.
- INSTALL ALL QUICK COUPLER VALVES AS SHOWN ON DETAILS. QUICK COUPLER VALVE SHALL BE INSTALLED WITHIN 18" OF HARDSCAPE. CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS.

IRRIGATION CONSTRUCTION NOTES

- NEW WATER SERVICE - POC #1**
 - CONTRACTOR SHALL COORDINATE WITH GOLDEN STATE WATER COMPANY (909)-394-2722 FOR POTABLE WATER METER PLACEMENT AND SERVICE CONNECTION. VERIFY EXACT LOCATION OF POC AND STATIC WATER PRESSURE WITH WATER DEPARTMENT'S REPRESENTATIVE PRIOR TO CONNECTION.
 - NEW BACKFLOW PREVENTER ASSEMBLY, WYE STRAINER AND ALL RELATED IRRIGATION EQUIPMENT, E.G. MASTER VALVE, AND SHUT-OFF VALVE, ETC. SHALL BE LOCATED IN PLANTING AREA. VERIFY EXACT LOCATIONS OF ALL EQUIPMENT WITH ENGINEER PRIOR TO INSTALLATION.
 - THE WATER AGENCY WILL PERFORM WATER METER PLACEMENT AND ALL RELATED WORKS. WORKS INCLUDING FURNISHING & INSTALLING NEW METER AND METER BOX ASSEMBLY, METER SIZE PER WATER AGENCY.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONNECTION WORKS DOWNSTREAM FROM METER ASSEMBLY (E.G. TRENCHING, PAVEMENT REMOVAL & REPLACEMENT, CONNECTION AND ETC.)
- NEW IRRIGATION CONTROLLER**
 - FURNISH AND INSTALL NEW CONTROLLER IN STAINLESS STEEL ENCLOSURE/PEDESTAL ASSEMBLY. IRRIGATION CONTROLLER ASSEMBLY SHALL INCLUDE:
 - CONTROLLER COMPONENTS:
 - (1) RAIN BIRD ESPLXME2-PRO
 - CAPACITY: 12 STATION
 - (1) WIRELESS CELLULAR INTERFACE FOR 5 YEAR CELLULAR SERVICE
 - (1) RAIN SENSOR IN ENCLOSURE
 - (1) FLOW SENSOR WITH WIRES
 - (1) VIT STRONGBOX QUICKPAD
 - ELECTRICAL FEED POINT SHALL BE FROM NEW ELECTRICAL METER PEDESTAL. SEE ELECTRICAL SITE PLAN FOR LOCATION AND COMPLETE INFORMATION. IRRIGATION ASSEMBLY CONTROLLER ARE AVAILABLE AND MAY BE ASSEMBLED BY ITS-IMPERIAL TECHNICAL SERVICES. CONTACT DARYL GREEN @ GREEN PRODUCT SALES (949)584-711 ggs10@earthlink.net FOR PURCHASING AND TECHNICAL ASSISTANCE.
- FURNISH AND INSTALL WATER HOSE BIB**
 - CONNECT WATER LINE DOWNSTREAM FROM WYE STRAINER.
 - FURNISH AND INSTALL BRASS GATE VALVE-HOSE BIB ASSEMBLY. SEE DETAIL 2, PLAN NO. IP-4.
- POTABLE WATER SUPPLY LINE**
 - FURNISH AND INSTALL 1-INCH SCH 40 PVC POTABLE WATER LINE HOUSED IN 2" SCH 40 PVC SLEEVE FOR NEW HOSE BIB.
 - CONNECT NEW WATER LINE TO NEW IRRIGATION MAINLINE SEE NOTE NO. 3 ABOVE.

SEE DWG. NO. IP-2 FOR WATER POINT OF CONNECTION (POC) AND IRRIGATION SCHEDULE.
SEE DWG. NO. IP-3 FOR IRRIGATION LEGEND, NOTES AND DETAILS.



KATELLA AVENUE

PINE STREET

MATCH LINE
SEE PLAN NO. IP-2



REVISIONS			
NUMBER	DATE	INITIALS	

REFERENCES

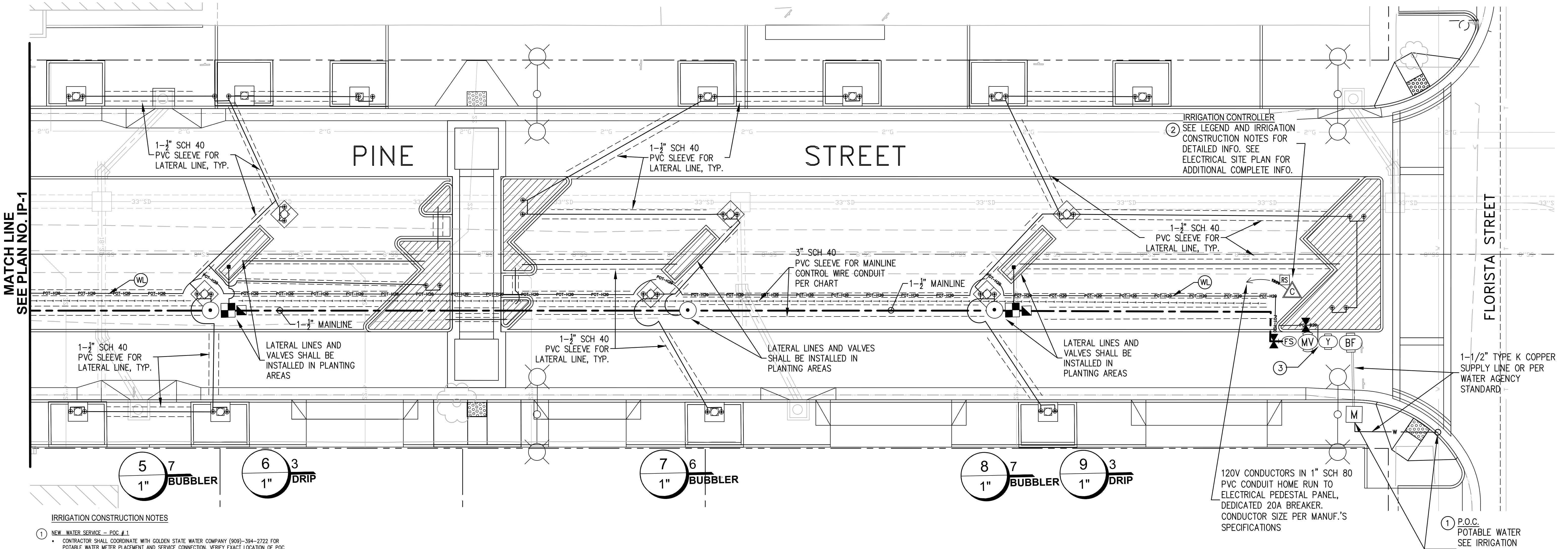
APPV'D



DATE	
DRAWN BY	JV/BN
CHECKED BY	JH/BN
DESIGNED BY	JV/BN
APPROVED	9/24/2025
City Engineer	Date

CITY OF LOS ALAMITOS
LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE
CORRIDOR IMPROVEMENT PROJECT
IRRIGATION PLAN

PLAN NO.
IP-1
SHEET 20 OF 30



IRRIGATION CONSTRUCTION NOTES

1. NEW WATER SERVICE - POC #1
- CONTRACTOR SHALL COORDINATE WITH GOLDEN STATE WATER COMPANY (909) 394-2722 FOR POTABLE WATER METER PLACEMENT AND SERVICE CONNECTION. VERIFY EXACT LOCATION OF POC AND STATIC WATER PRESSURE WITH WATER DEPARTMENT'S REPRESENTATIVE PRIOR TO CONNECTION.
 - NEW BACKFLOW PREVENTER ASSEMBLY, WYE STRAINER AND ALL RELATED IRRIGATION EQUIPMENT, E.G. MASTER VALVE, AND SHUT-OFF VALVE, ETC. SHALL BE LOCATED IN PLANTING AREA. VERIFY EXACT LOCATIONS OF ALL EQUIPMENT WITH ENGINEER PRIOR TO INSTALLATION.
 - THE WATER AGENCY WILL PERFORM WATER METER PLACEMENT AND ALL RELATED WORKS, WORKS INCLUDING FURNISHING & INSTALLING NEW METER AND METER BOX ASSEMBLY, METER SIZE PER WATER AGENCY.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONNECTION WORKS DOWNSTREAM FROM METER ASSEMBLY (E.G. TRENCHING, PAVEMENT REMOVAL & REPLACEMENT, CONNECTION AND ETC.)
- CONTACT:
SARAH TAYLOR @ Sarah.Taylor@gswater.com
2. NEW IRRIGATION CONTROLLER
- FURNISH AND INSTALL NEW CONTROLLER IN STAINLESS STEEL ENCLOSURE/PEDESTAL ASSEMBLY. IRRIGATION CONTROLLER ASSEMBLY SHALL INCLUDE CONTROLLER COMPONENTS:
- (1) RAIN BIRD ESPLUME2-PRO CAPACITY: 12 STATION
 - (1) WIRELESS CELLULAR INTERFACE FOR 5 YEAR CELLULAR SERVICE
 - (1) RAIN SENSOR IN ENCLOSURE
 - (1) FLOW SENSOR WITH WIRES
 - (1) MT STRONGBOX QUICKROAD
- ELECTRICAL FEED POINT SHALL BE FROM NEW ELECTRICAL METER PEDESTAL. SEE ELECTRICAL SITE PLAN FOR LOCATION AND COMPLETE INFORMATION. IRRIGATION ASSEMBLY CONTROLLER ARE AVAILABLE AND MAY BE ASSEMBLED BY ITS-IMPERIAL TECHNICAL SERVICES. CONTACT DARYL GREEN @ GREEN PRODUCT SALES (949)584-7111 gds10@earthlink.net FOR PURCHASING AND TECHNICAL ASSISTANCE.
3. FURNISH AND INSTALL WATER HOSE BIB
- CONNECT WATER LINE DOWNSTREAM FROM WYE STRAINER.
 - FURNISH AND INSTALL BRASS GATE VALVE-HOSE BIB ASSEMBLY.
- SEE DETAIL 2, PLAN NO. IP-4.
- WL POTABLE WATER SUPPLY LINE
- FURNISH AND INSTALL 1-INCH SCH 40 PVC POTABLE WATER LINE HOUSED IN 2" SCH 40 PVC SLEEVE FOR NEW HOSE BIB.
 - CONNECT NEW WATER LINE TO NEW IRRIGATION MAINLINE SEE NOTE NO. 3 ABOVE.

IRRIGATION SCHEDULE

Valve Data					
Sta. #	GPM	in/hr.*	Planting	Exp	Aspect
1	5	0.19	Shrub	Sun	Flat
2	5	N/A	Tree	Sun	Flat
3	4	0.19	Shrub	Sun	Flat
4	8	N/A	Tree	Sun	Flat
5	7	N/A	Tree	Sun	Flat
6	3	0.19	Shrub	Sun	Flat
7	6	N/A	Tree	Sun	Flat
8	7	N/A	Tree	Sun	Flat
9	3	0.19	Shrub	Sun	Flat

in/hr* - App. Rate shown for information only.
Data represents average rate for each valve/station.

Month																																						
Jan			Feb			Mar			Apr			May			Jun			Jul			Aug			Sep			Oct			Nov			Dec			Totals:		
6	1	4.3	8	1	4.3	8	1	4.3	8	1	4.3	8	1	4.3	10	1	4.3	15	2	8.6	15	2	8.6	12	2	8.6	12	2	8.6	8	1	4.3	6	1	4.3	5,977 Gallons		
3	1	4.3	3	1	4.3	3	1	4.3	5	1	4.3	5	1	4.3	5	1	4.3	5	2	8.6	8	2	8.6	8	2	8.6	8	2	8.6	5	1	4.3	3	1	4.3	3,182 Gallons		
6	1	4.3	8	1	4.3	8	1	4.3	8	1	4.3	8	1	4.3	10	1	4.3	15	2	8.6	15	2	8.6	12	2	8.6	12	2	8.6	8	1	4.3	6	1	4.3	4,782 Gallons		
3	1	4.3	3	1	4.3	3	1	4.3	5	1	4.3	5	1	4.3	5	1	4.3	5	2	8.6	8	2	8.6	8	2	8.6	8	2	8.6	5	1	4.3	3	1	4.3	5,091 Gallons		
3	1	4.3	3	1	4.3	3	1	4.3	5	1	4.3	5	1	4.3	5	1	4.3	5	2	8.6	8	2	8.6	8	2	8.6	8	2	8.6	5	1	4.3	3	1	4.3	4,455 Gallons		
6	1	4.3	8	1	4.3	8	1	4.3	8	1	4.3	8	1	4.3	10	1	4.3	15	2	8.6	15	2	8.6	12	2	8.6	12	2	8.6	8	1	4.3	6	1	4.3	3,586 Gallons		
3	1	4.3	3	1	4.3	3	1	4.3	5	1	4.3	5	1	4.3	5	1	4.3	5	2	8.6	8	2	8.6	8	2	8.6	8	2	8.6	5	1	4.3	3	1	4.3	3,818 Gallons		
3	1	4.3	3	1	4.3	3	1	4.3	3	1	4.3	5	1	4.3	5	1	4.3	5	2	8.6	8	2	8.6	8	2	8.6	8	2	8.6	5	1	4.3	3	1	4.3	4,455 Gallons		
6	1	4.3	8	1	4.3	8	1	4.3	8	1	4.3	8	1	4.3	10	1	4.3	15	2	8.6	15	2	8.6	12	2	8.6	12	2	8.6	8	1	4.3	6	1	4.3	3,586 Gallons		
																																	0 Gallons					

Key

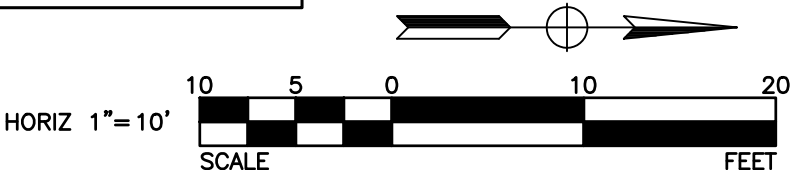
Minutes per Run Cycles/Durations per Month

3	1	4.3
---	---	-----

Runs per Cycle/Duration

Irrigation System Yearly Totals: 38,932 Gallons
5,204.84 C.Ft.

SEE DWG. NO. IP-3 FOR IRRIGATION LEGEND, NOTES AND DETAILS.



REVISIONS

NUMBER	DATE	INITIALS

REFERENCES

APP'V'D



DATE	
DRAWN BY	JV/BN
CHECKED BY	JH/BN
DESIGNED BY	JV/BN
APPROVED	9/24/2025
City Engineer	Date

CITY OF LOS ALAMITOS

LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT

IRRIGATION PLAN

PLAN NO.

IP-2

SHEET 21 OF 30

USER: BReyes
DATE: Sep 25, 2025 - 10:23am
FILE: W:\WE-C\Nlos alamitos city of\11322 - los al pine street complete street imp\900-PS&E\901-plans\PL-L5-02_Irrigation.dwg

IRRIGATION LEGEND

SYM	DESCRIPTION	MANUF.	MODEL	REMARKS	DET.	DWG. NO.
M	POTABLE WATER METER	PER UTILITY	PER UTILITY	SEE IRRIGATION CONSTRUCTION NOTE NO. 1	—	—
△	IRRIGATION CONTROLLER ASSEMBLY	RAIN BIRD	ESPLXME2—PRO	IRRIGATION CONTROLLER SEE IRRIGATION CONSTRUCTION NOTE NO. 2	15	CD—4
RS	RAIN SENSOR	RAIN BIRD	WR2—48	RAIN SENSOR INSTALLED IN VANDAL PROOF ENCLOSURE. MOUNT ENCLOSURE ON IRRIGATION CONTROLLER PEDESTAL	15	CD—4
c	CONTROL WIRE CONDUIT	APPROVED	SCH. 80 PVC	SIZE AS REQUIRED	12	CD—4
BF	BACKFLOW PREVENTER ASSEMBLY	FEBCO	825YA	BACKFLOW PREVENTER DEVICE IN ENCLOSURE SIZE PER PLAN.	2	CD—4
Y	WYE STRAINER	WILKINS	SXL SERIES	WYE STRAINER ASSEMBLY — LINE SIZE. INSTALLED IN VALVE BOX	3	CD—4
MV	MASTER VALVE	GRISWOLD	2000 SERIES	NORMALLY CLOSED MASTER VALVE — LINE SIZE	1	CD—4
FS	FLOW SENSOR	CST	FM—1B	1" FLOW SENSOR	1	CD—4
⚡	GATE VALVE	HAMMOND	IB646 SERIES	LINE SIZE	4	CD—4
■	DRIP CONTROL ZONE KIT	RAIN BIRD	XCZ—100—PRB—COM	• RAIN BIRD PESB SERIES: VALVE • QUICK CHECK BASKET FILTER WITH PRESSURE REGULATOR • PVC BALL VALVE = RCV SIZE	14	CD—4
⊙	REMOTE CONTROL VALVE	RAIN BIRD	PESB	SIZE NOTED ON PLAN	7	CD—4
▣	QUICK COUPLER	HUNTER	HQ—33DLRC	(3/4")	6	CD—4
P	CONTROL WIRE PULL BOX NOT SHOWN ON PLAN	APPROVED	—	INSTALL PULL BOX AT LOCATIONS WHERE WIRE RUN CHANGES DIRECTION, T—SPlicing, AND BEFORE ENTERING THE CONTROL CABINET. LOCATE PULL BOX IN PLANTING AREA, WHEREVER POSSIBLE	13	CD—4
—	IRRIGATION MAINLINE(b)	APPROVED	CLASS 315 PVC: 2" OR GREATER SCH. 40 PVC: 1.5" OR SMALLER	SIZE AS NOTED ON PLAN	12	CD—4
—	IRRIGATION LATERAL(b)	APPROVED	SCH. 40 PVC	PVC LATERAL AND PVC HEADER FOR DRIP IRRIGATION SHALL BE 3/4" MIN.	12	CD—4
---	IRRIGATION SLEEVE	APPROVED	SCH. 80 PVC	SLEEVE = 2X SIZE OF PIPE OR AS NOTED ON PLAN	12	CD—4

REFERENCE EVAPOTRANSPIRATION (Eto):			47.4				
HYDROZONE	PLANT FACTOR*	IRRIGATION METHOD**	IRRIGATION EFFICIENCY (IE)	ETAF (PF/IE)	AREA (S.F.)	ETAF X AREA	ESTIMATED TOTAL WATER USE (ETWU)
CONTROLLER A							
DRIP	0.3	D	0.81	0.37	1,190	441	12,952
RZWS	0.3	B	0.81	0.37	70	26	762
TOTAL					1,260	441	12,952
SPECIAL LANDSCAPE AREAS (PARK SETTING USING PARTIAL RECYCLED WATER SOURCE)							
A	—	D	—	1.00	0	0	0
TOTAL					0	0	0
TOTAL LANDSCAPE AREA					1,260		
ESTIMATED TOTAL WATER USE							12,952
MAXIMUM ANNUAL WATER ALLOWANCE							37,029
ETAF (LA)	ETAF (SLA)	ETAFXLA	ETAFXSLA				
0.45	0.55	567	0				

**IRRIGATION METHOD
MS = MICROSPRAY
S = SPRAY
R = ROTOR
B = BUBBLER
D = DRIP
RO = ROTARY

*PLANT FACTOR
HW = HIGH WATER USE PLANTS — WULCOLS = 0.7—1
MW = MEDIUM WATER USE PLANTS — WULCOLS = 0.4—0.6
LW = LOW WATER USE PLANTS — WULCOLS = 0—0.3

WULCOLS
WATER USE CLASSIFICATIONS OF LANDSCAPE SPECIES
WULCOLS III, AUGUST 2000
UNIVERSITY OF CALIFORNIA COOPERATIVES EXTENSIONS
CALIFORNIA DEPARTMENT OF WATER RESOURCES

MAXIMUM APPLIED WATER ALLOWANCE (MAWA)
FORMULA: (Eto)(0.62)[(ETAFxAREA)+(1—ETAFxSLA)]

MAWA = MAXIMUM APPLIED WATER ALLOWANCE (GALLONS PER YEAR)
PF = PLANT FACTOR
Eto = REFERENCE EVAPOTRANSPIRATION (INCHES PER YEAR)
IE = IRRIGATION EFFICIENCY (0.75—SPRAY, 0.81—DRIP)
0.62 = CONVERSION FACTOR (TO GALLON PER SQUARE FOOT)
SLA = PORTION OF THE LANDSCAPE AREA IDENTIFIED AS SPECIAL LANDSCAPE AREA (SQUARE FEET)
ETAF = PF/IE

MAWA = 37,029 GALLONS

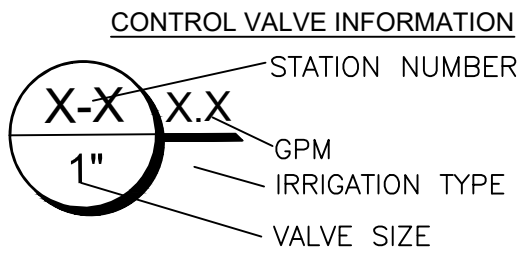
ESTIMATED TOTAL WATER USE (ETWU)
FORMULA: ETWU = (Eto)(0.62)*ETAF+AREA

ETWU = ESTIMATED TOTAL WATER USE PER YEAR (GALLONS PER YEAR)

ETWU= 12,952 GALLONS

SYM	DESCRIPTION	MANF.	BODY	NOZ.	PSI	RAD	GPM	DET.	DWG. NO.
⊕	ROOT ZONE WATERING SYSTEM	HUNTER	RZWS—36—50—CV	PCB	25	—	0.5	9	CD—4
▨	LANDSCAPE DRIPPERLINE(i)	NETAFIM	TLCV4—12 SERIES Techline Dripperline	—	25	—	0.4 GPH/ EMITTER	8,11, 13	CD—4

(i) IRRIGATION SYSTEM SHALL BE INSTALLED COMPLETE INCLUDING LINE FLUSHING VALVE AND OPERATION INDICATOR PER DETAILS. PVC HEADER SHALL BE 3/4" SCH 40 PVC PIPE. TECHLINE DRIPPER LINE SPACING @ 12" TO 14" O.C. SPACE 2"—4" FROM EDGE OF CURB OR PAVEMENT. INSTALL OPERATION INDICATOR PER DETAIL AND FLUSH VALVE AT LOW POINT.



IRRIGATION GENERAL NOTES

- THIS SYSTEM IS DIAGRAMMATIC. ALL PIPE, VALVES, CONTROLLERS, EQUIPMENT AND ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE.**
- CONTRACTOR SHALL CONTACT CITY LANDSCAPE MAINTENANCE SUPERVISOR TO VERIFY ALL EXISTING IRRIGATION EQUIPMENT LOCATIONS AND CURRENT CONDITIONS PRIOR TO COMMENCING IRRIGATION INSTALLATION.
- DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS INDICATED ON THE DRAWING WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR GRADE DIFFERENCES EXIST AND SHOULD BE BROUGHT TO THE ATTENTION OF THE CITY ENGINEER. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR MUST ASSUME FULL RESPONSIBILITY FOR REVISIONS NECESSARY. NOTIFY THE CITY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS.
- CONTRACTOR SHALL NOT LOCATE ANY ITEMS WHERE IT IS OBVIOUS THAT THEY ARE IN DIRECT CONFLICT WITH UNDERGROUND UTILITIES, STRUCTURES, PERMANENT IMPROVEMENTS OR PEDESTRIAN AND VEHICULAR SAFETY CONSIDERATIONS.
- SYSTEM DESIGN IS BASED ON MINIMUM OPERATING PRESSURE SHOWN AT POC LOCATION WITH MAXIMUM GPM DEMAND SPECIFIED. IRRIGATION CONTRACTOR SHALL VERIFY ALL PRESSURES ON SITE PRIOR TO CONSTRUCTION AND GIVEN TO IN WRITING TO THE CITY ENGINEER.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF CURBS, ETC. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB—CONTRACTORS FOR LOCATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADS, PAVING AND STRUCTURES DURING BIDDING AND CONSTRUCTION PERIOD.
- CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORKS. THE LOCATIONS OF UTILITIES, STRUCTURES AND SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE CITY ENGINEER.
- ALL IRRIGATION CONSTRUCTION AND MATERIALS SHALL BE INSTALLED PER THE MANUFACTURE'S SPECIFICATIONS AT THE LOCATIONS AS SHOWN ON PLANS AND ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOCAL AND REGIONAL GOVERNING CODES. VERIFY LOCATIONS OF ALL IRRIGATION EQUIPMENT WITH CITY ENGINEER PRIOR TO INSTALLATION.
- ALL IRRIGATION PIPES AND CONDUITS RUN UNDER PAVING SHALL BE INSTALLED INSIDE SLEEVES AS SHOWN ON PLAN. INSTALLATION OF PIPE SLEEVING AND CONDUIT SHALL BE DONE BY BORING OR TRENCHING WHEREVER POSSIBLE.
- COORDINATE WITH PLANTING PLANS FOR EXACT LOCATION OF TREES FOR INSTALLATION OF ROOT ZONE WATERING SYSTEM.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT AS SHOWN ON THE DETAILS AND IN SPECIFICATIONS. CONTRACTOR SHALL PROVIDE ADDITIONAL (3) PILOT WIRES AND (1) PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAINLINE TO THE LAST RCV ON EACH OF EVERY LEG OF MAINLINE. LABEL SPARE WIRES AT BOTH ENDS.
- INSTALL ALL QUICK COUPLER VALVES AS SHOWN ON DETAILS. QUICK COUPLER VALVE SHALL BE INSTALLED WITHIN 18" OF HARDSCAPE.
- CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS.

IRRIGATION CONSTRUCTION NOTES

- NEW WATER SERVICE — POC # 1**
 - CONTRACTOR SHALL COORDINATE WITH GOLDEN STATE WATER COMPANY (909)—394—2722 FOR POTABLE WATER METER PLACEMENT AND SERVICE CONNECTION. VERIFY EXACT LOCATION OF POC AND STATIC WATER PRESSURE WITH WATER DEPARTMENT'S REPRESENTATIVE PRIOR TO CONNECTION.
 - NEW BACKFLOW PREVENTER ASSEMBLY, WYE STRAINER AND ALL RELATED IRRIGATION EQUIPMENT, E.G. MASTER VALVE, AND SHUT—OFF VALVE, ETC. SHALL BE LOCATED IN PLANTING AREA. VERIFY EXACT LOCATIONS OF ALL EQUIPMENT WITH ENGINEER PRIOR TO INSTALLATION.
 - THE WATER AGENCY WILL PERFORM WATER METER PLACEMENT AND ALL RELATED WORKS. WORKS INCLUDING FURNISHING & INSTALLING NEW METER AND METER BOX ASSEMBLY, METER SIZE PER WATER AGENCY.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONNECTION WORKS DOWNSTREAM FROM METER ASSEMBLY(E.G. TRENCHING, PAVEMENT REMOVAL & REPLACEMENT, CONNECTION AND ETC.)
- NEW IRRIGATION CONTROLLER**

FURNISH AND INSTALL NEW CONTROLLER IN STAINLESS STEEL ENCLOSURE/PEDESTAL ASSEMBLY. IRRIGATION CONTROLLER ASSEMBLY SHALL INCLUDE

CONTROLLER COMPONENTS

 - (1) RAIN BIRD ESPLXME2—PRO
CAPACITY: 12 STATION
 - (1) WIRELESS CELLULAR INTERFACE FOR 5 YEAR CELLULAR SERVICE
 - (1) RAIN SENSOR IN ENCLOSURE
 - (1) FLOW SENSOR WITH WIRES
 - (1) VIT STRONGBOX QUICKPAD

ELECTRICAL FEED POINT SHALL BE FROM NEW ELECTRICAL METER PEDESTAL. SEE ELECTRICAL SITE PLAN FOR LOCATION AND COMPLETE INFORMATION. IRRIGATION ASSEMBLY CONTROLLER ARE AVAILABLE AND MAY BE ASSEMBLED BY ITS—IMPERIAL TECHNICAL SERVICES. CONTACT DARYL GREEN @ GREEN PRODUCT SALES (949)584—711 gps10@earthlink.net FOR PURCHASING AND TECHNICAL ASSISTANCE.
- FURNISH AND INSTALL WATER HOSE BIB**
 - CONNECT WATER LINE DOWNSTREAM FROM WYE STRAINER.
 - FURNISH AND INSTALL BRASS GATE VALVE—HOSE BIB ASSEMBLY. SEE DETAIL 2, PLAN NO. IP—4.
- POTABLE WATER SUPPLY LINE**
 - FURNISH AND INSTALL 1—INCH SCH 40 PVC POTABLE WATER LINE HOUSED IN 2" SCH 40 PVC SLEEVE FOR NEW HOSE BIB.
 - CONNECT NEW WATER LINE TO NEW IRRIGATION MAINLINE SEE NOTE NO. 3 ABOVE.

IRRIGATION DESIGN CRITERIA:	
NAME OF WATER SUPPLIER: GOLDEN STATE WATER COMPANY	
STATIC WATER PRESSURE — POTABLE @ POC: 70 PSI	
CONTACT: (909) 394—2272	
MAX. FLOW (GPM) AT STATION A—1: 4	
CONTRACTOR SHALL VERIFY STATIC WATER PRESSURE WITH WATER DEPT. PRIOR TO INSTALLATION. IF DIFFERENT FROM PSI NOTED ABOVE, CONTRACTOR SHALL NOTIFY ENGINEER FOR INSTRUCTIONS. FAILURE TO DO SO WILL RESULT IN CONTRACTOR BEING RESPONSIBLE FOR CHANGES THAT MAY OCCUR.	

PIPING SIZES:		
MINIMUM PIPE SIZE SHALL BE ¾". FOR ALL PIPE SIZES NOT SHOWN USE THE FOLLOWING GUIDELINES:		
G.P.M. DEMAND	PIPE SIZE	TYPE
— 0—8	¾"	SCH. 40
— 8—12	1"	SCH. 40
— 13—22	1½"	SCH. 40
— 23—30	1½"	SCH. 40
— 31—50	2"	CLASS 315
— 51—70	2½"	CLASS 315

IRRIGATION CONTROL WIRE SIZING TABLE	
CONDUIT SIZE	MAX. NO. OF WIRES # 14 AWG
½"	2
¾"	4
1"	6
1½"	10
1½"	14
2"	25

LANDSCAPE AND IRRIGATION MAINTENANCE SCHEDULE (SECTION 492.11)*

- LANDSCAPE SHALL BE MAINTAINED TO ENSURE WATER USE EFFICIENCY.
- A REGULAR MAINTENANCE SCHEDULE SHALL BE SUBMITTED WITH THE CERTIFICATE OF COMPLETION.
- REGULAR MAINTENANCE SCHEDULE SHALL INCLUDE:
 - ROUTINE INSPECTION
 - ADJUSTMENT AND REPAIR OF IRRIGATION SYSTEM AND ITS COMPONENTS
 - REPLENISHING MULCH
 - FERTILIZING
 - PRUNING
 - WEEDING
- IN ALL LANDSCAPE AREAS, AND REMOVING ANY OBSTRUCTION TO EMISSION DEVICES.
- OPERATION OF SYSTEM IS ALLOWED FOR AUDITING AND SYSTEM MAINTENANCE.
- REPAIR OF ALL IRRIGATION EQUIPMENT SHALL BE DONE WITH THE ORIGINALLY INSTALLED COMPONENTS OR THEIR EQUIVALENTS.

IRRIGATION AUDIT/IRRIGATION WATER USE ANALYSIS (SECTION 492.12)*

- ALL IRRIGATION AUDIT SHALL BE CONDUCTED BY A CERTIFIED IRRIGATION AUDITOR.
- NEW CONSTRUCTION AND REHABILITATED LANDSCAPE PROJECTS INSTALLED AFTER DEC. 1, 2015: CONTRACTOR SHALL SUBMIT AN IRRIGATION AUDIT REPORT WITH THE CERTIFICATE OF COMPLETION TO THE LOCAL AGENCY THAT MAY INCLUDE: INSPECTION, SYSTEM TUNE—UP, SYSTEM TEST WITH DISTRIBUTION UNIFORMITY, REPORTING SYSTEM LEAK AND RUN—OFF THAT CAUSE OVERLAND FLOW, AND PREPARATION OF AN IRRIGATION SCHEDULE.
- LOCAL AGENCY SHALL ADMINISTER PROGRAMS TO INCLUDE IRRIGATION SURVEYS FOR COMPLIANCE WITH MAWA.

PROJECT INFORMATION (SECTION 492.3(1))*

DATE: 4/25/2025

PROJECT APPLICANT: CITY OF LOS ALAMITOS

PROJECT LOCATIONS: PINE STREET

TOTAL LANDSCAPED AND IRRIGATION AREA: 1,460 S.F. MWEL0 EXEMPT

PROJECT TYPE: PUBLIC AGENCY

WATER SUPPLY: DOMESTIC

WATER AGENCY: GOLDEN STATE WATER COMPANY

PROJECT APPLICANT CONTACT: CITY OF LOS ALAMITOS, DEPT. OF PUBLIC WORKS

"I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENT PACKAGE"

4/5/2024

LANDSCAPE ARCHITECT DATE

EXISTING REMOTE CONTROL VALVE VERIFICATION NOTES

- PRIOR TO COMMENCING IRRIGATION INSTALLATION AND MODIFICATION WORK, THE CONTRACTOR SHALL CONDUCT A SYSTEM WIDE ASSESSMENT TO SEE IF THE SYSTEM IS OPERATING 100% CAPACITY.
- CONTRACTOR SHALL VERIFY WHICH VALVE IS OPERATING THE SPRINKLERS IN THE AFFECTED MEDIAN. THAT VALVE SHALL BE REMOVED AND REPLACED WITH NEW DRIP ZONE VALVE.

SOIL MANAGEMENT REPORT (SECTION 492.5)*

- PRIOR TO INSTALLATION OF PLANTING MATERIAL, THE CONTRACTOR SHALL PERFORM SOIL TEST ANALYSIS OF PLANTING AREAS. SOIL ANALYSIS SHALL INCLUDE:
 - SOIL TEXTURE
 - INFILTRATION RATE
 - pH
 - TOTAL SOLUBLE SALTS
 - PERCENT ORGANIC MATTER
 - SOIL AMENDMENT RECOMMENDATIONS
- SOIL SAMPLES SHALL BE DELIVERED TO AND TEST SHALL BE CONDUCTED BY A CERTIFIED SOIL LABORATORY.
- CONTRACTOR SUBMIT SOIL ANALYSIS REPORT TO THE CITY AS PART OF THE CERTIFICATE OF COMPLETION.
- CONTRACTOR SHALL SUBMIT DOCUMENTATION VERIFYING IMPLEMENTATION OF SOIL ANALYSIS REPORT RECOMMENDATIONS TO THE CITY AS PART OF THE CERTIFICATE OF COMPLETION.

* REFERENCE:
CALIFORNIA CODE OF REGULATION — TITLE 23: WATER
DIVISION 2: DEPARTMENT OF WATER RESOURCES
CHAPTER 2.7. MODEL WATER EFFICIENT LANDSCAPE ORDINANCE



Know what's below.
Call before you dig.

REVISIONS

NUMBER	DATE	INITIALS

REFERENCES

APPV'D



DRAWN BY JV/BN
CHECKED BY JH/BN
DESIGNED BY JV/BN

APPROVED
City Engineer

DATE
9/24/2025
9/24/2025
9/24/2025
9/24/2025

CITY OF LOS ALAMITOS

LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT

IRRIGATION LEGEND AND NOTES

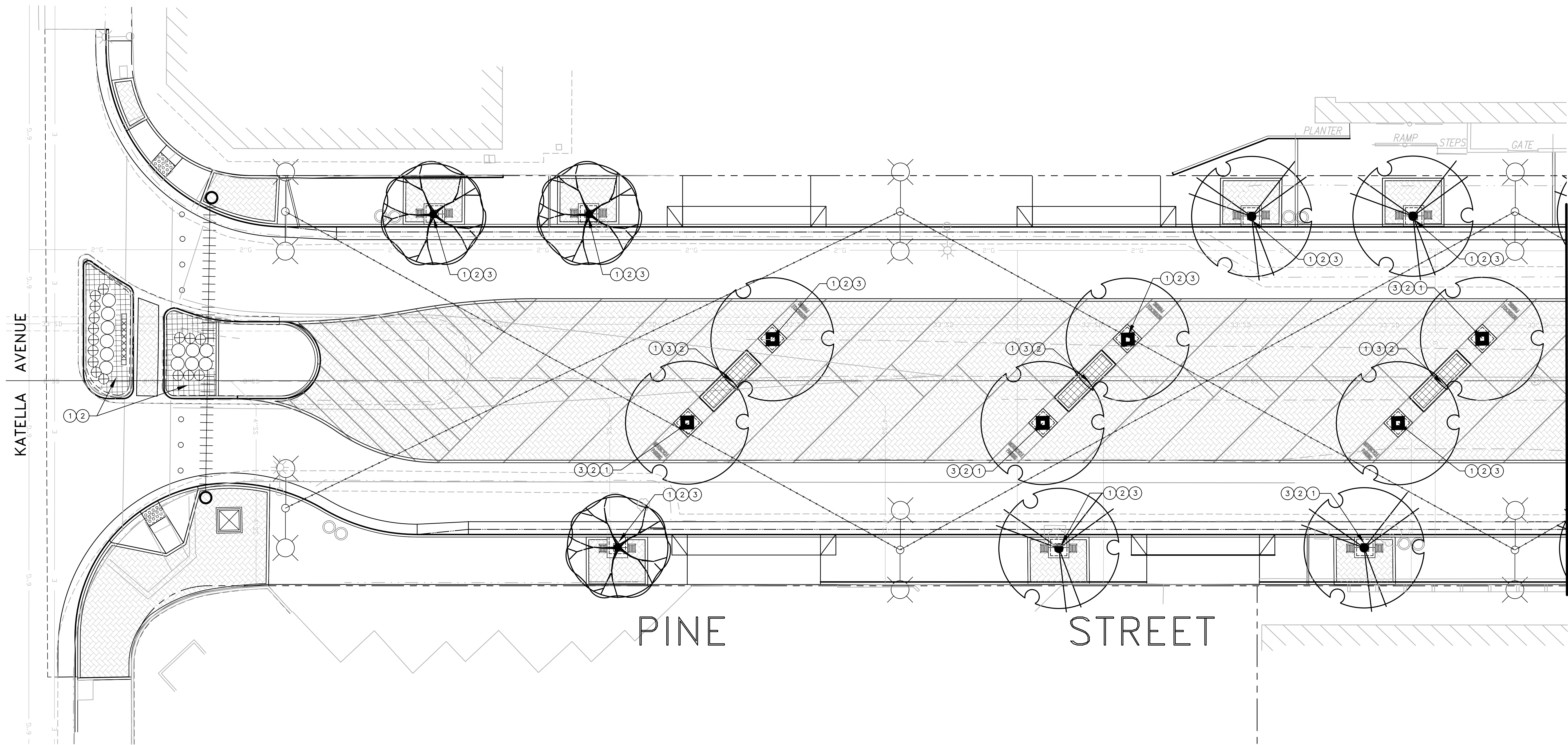
PLAN NO.

IP-3

SHEET 22 OF 30

FILE: W:\WE-C\Los Alamitos city of\11322 - Los Al Pine Street Complete Street Imp\900-PSCE\901-plans\PL-L5-03_Planting.dwg

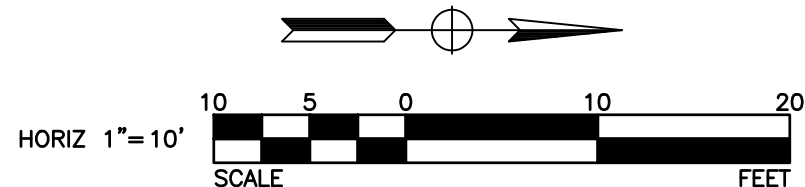
USER: BReyes
DATE: Sep 25, 2025 - 10:32am



MATCH LINE
SEE PLAN NO. PP-2

LANDSCAPE CONSTRUCTION NOTE

- 1 FURNISH AND INSTALL 3-INCH LAYER OF SHREDDED REDWOOD MULCH. SEE GENERAL NOTE NO. 5.
- 2 FURNISH AND INSTALL CLASS "A" TOP SOIL AS BACKFILL TO 2" BELOW TOP OF CURB. SEE DETAIL1, PLAN NO. CD-5.
- 3 FURNISH AND INSTALL ROOT CONTROL BARRIER. SEE DETAIL 1, PLAN NO. CD-X5.



REVISIONS			
NUMBER	DATE	INITIALS	

REFERENCES	
APPV'D	



WILLDAN Engineering		DATE
2001 East Katella Ave. Suite 400, Anaheim, California 92805 714.978-8200 fax 714.978-8299		
DRAWN BY	JV/BN	9/24/2025
CHECKED BY	JH/BN	9/24/2025
DESIGNED BY	JV/BN	9/24/2025
APPROVED		9/24/2025
City Engineer		Date

CITY OF LOS ALAMITOS	
LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT	
PLANTING PLAN	

PLAN NO.
PP-1
SHEET 23 OF 30

75% SUBMITTAL NOT FOR CONSTRUCTION

PLANTING LEGEND

TREES

SYM	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	REMARKS	DET.	PLAN	HT. SP.	WUCOLS
	LAGERSTOREMIA X FAURIEI 'TUSCARORA'	RED CREPE MYRTLE	24" BOX	12	STANDARD	1	CD-5	15'-25' 15'-25'	L
	CERCIS CANDADENSIS 'FOREST PANSY'	EASTERN REDBUD	24" BOX	9	STANDARD	1	CD-5	20'-25' 20'-25'	L
	TABEBUIA IMPETGINOSA	PINK TRUMPET TREE	24" BOX	11	STANDARD	1	CD-5	20'-30' 20'-30'	M

SHRUBS

SYM	BOTANICAL NAME	COMMON NAME	SIZE	QTY	REMARKS	DET.	PLAN	HT. SP.	WUCOLS
	AGIZANTHOS 'BIG RED'	BIG RED KANGAROO PAW	5 GAL.	36	SPACING PER PLAN	2	CD-5	1'-2' 2'-3'	L
	ALOE STRIATA (ii)	CORAL AGAVE	5 GAL.	70	SPACING PER PLAN	2	CD-5	2'-3' 1'-2'	L
	CALLISTEMON CITRINUS 'LITTLE JOHN'	DWARF BOTTLEBRUSH	5 GAL.	33	SPACING PER PLAN	2	CD-5	3'-4' 2'-3'	L

GROUNDCOVERS

	DROSANTHEMUM FLORIBUNDUM	ROSEA ICE PLANT	1 GAL.	188	SPACING @ 18" O.C.	2	PP-1	1' 2'	L
--	--------------------------	-----------------	--------	-----	--------------------	---	------	----------	---

WUCOLS: WATER USE CLASSIFICATIONS OF LANDSCAPE SPECIES (ii) ATTRACTS BUTTERFLIES, HUMMING BIRDS AND POLLINATORS.
H: HIGH M: MODERATE L: LOW

LANDSCAPE CONSTRUCTION NOTE

- 1
- FURNISH AND INSTALL 3-INCH LAYER OF SHREDDED REDWOOD MULCH. SEE GENERAL NOTE NO. 5.
- 2
- FURNISH AND INSTALL CLASS "A" TOP SOIL AS BACKFILL TO 2" BELOW TOP OF CURB. SEE DETAIL1, PLAN NO. CD-5.
- 3
- FURNISH AND INSTALL ROOT CONTROL BARRIER. SEE DETAIL 1, PLAN NO. CD-X5.

GENERAL NOTES:

1.
- CONTRACTOR SHALL CHALK LAYOUT SHRUB MASSES, AND GROUNDCOVERS WITHIN THE PLANTING AREAS AND VERIFY WITH ENGINEER PRIOR TO INSTALLATION.
2.
- QUANTITIES SHOWN ON LEGEND ARE FOR CONVENIENCE ONLY, CONTRACTOR SHALL VERIFY EXACT QUANTITY OF EACH SHRUB & GROUNDCOVER SPECIES WITH ENGINEER PRIOR TO COMMENCING PLANTING INSTALLATION.
3.
- ALL PLANTING BACKFILL AMENDMENTS SHALL BE SUPPLEMENTED WITH "TRI-C HUMATE PLUS" AND "MYCO PAK" MANUFACTURED BY TRI-C (800) 927-3311 <https://www.tri-corganics.com/contact> BACKFILL MIXTURE SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS.
4.
- CONTRACTOR SHALL FURNISH AND INSTALL 3-INCH LAYER OF REDWOOD CHIPS (LARGE GRIND) AS TOP DRESS IN PLANTING AREAS AS INDICATED ON THE PLAN AND WITHIN THE FENCED FRUIT TREE GROVE. REDWOOD CHIPS AVAILABLE THROUGH RECYCLED WOOD PRODUCTS. (877)GROW RWP hank@rwpmulch.com

TREES, SHRUBS AND GROUNDCOVER PROCUREMENT

WITHIN 15 CALENDAR DAYS OF THE AWARD OF CONTRACT, CONTRACTOR SHALL CONDUCT A PLANT AVAILABILITY SEARCH TO DETERMINE THE PLANT SPECIES, CONTAINER SIZE, AND QUANTITY AS SHOWN ON THE LEGEND WILL BE AVAILABLE AT THE TIME OF PLANT INSTALLATION.

IF NOT AVAILABLE FOR PROCUREMENT, CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACT GROW, AT THE CONTRACTOR'S EXPENSE, ALL THE PLANTS LISTED ON THE PLANTING LEGEND. CONTRACTOR SHALL PROVIDE TO THE CITY AN INVOICE OF ALL THE LISTED PLANTS THAT WILL BE CONTRACT GROWN AND/OR RESERVED. THE PROCUREMENT INVOICE STATEMENT SHALL BE SUBMITTED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL WITHIN 15 DAYS OF AWARD OF CONTRACT.



REVISIONS

NUMBER	DATE	INITIALS	

REFERENCES

APPV'D



DRAWN BY JV/BN
CHECKED BY JH/BN
DESIGNED BY JV/BN

APPROVED
City Engineer

DATE

9/24/2025
9/24/2025
9/24/2025

9/24/2025
Date

CITY OF LOS ALAMITOS

LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT

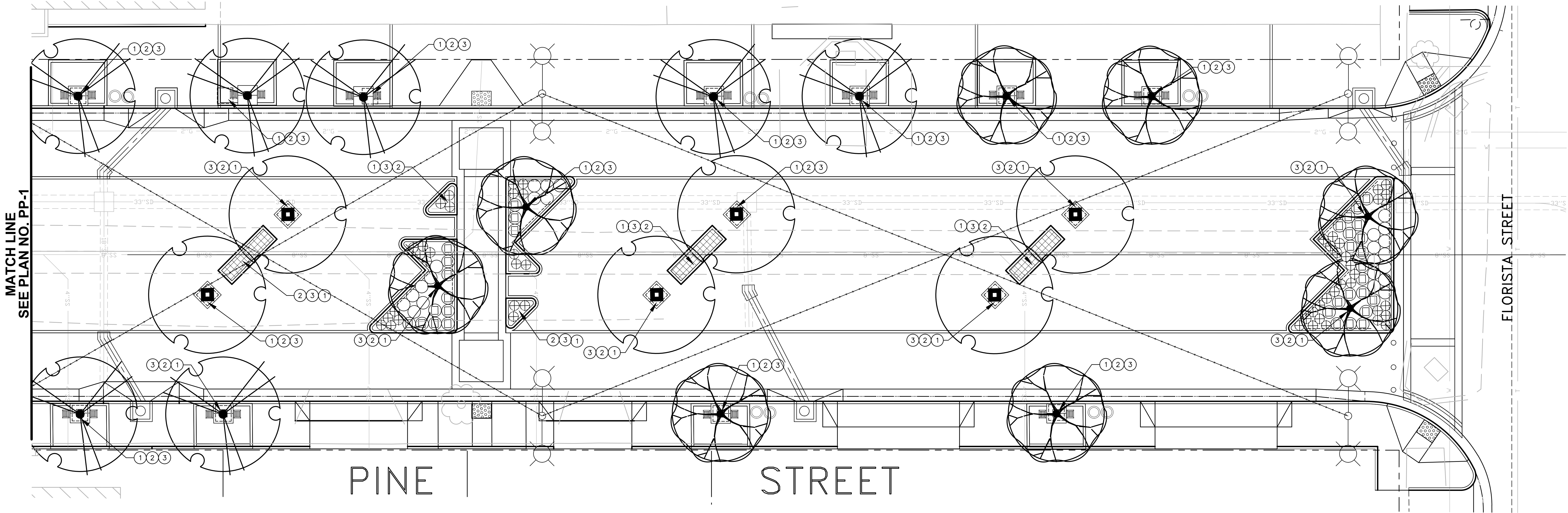
PLANTING LEGEND AND NOTES

PLAN NO.

PP-3

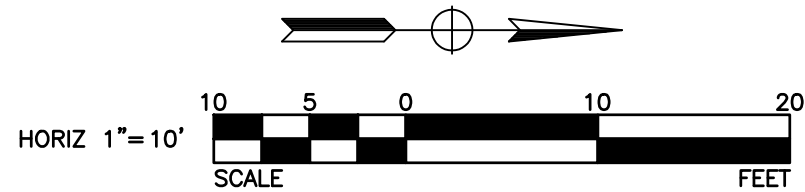
SHEET 24 OF 30

USER: BReyes
DATE: Sep 25, 2025 - 10:37am
FILE: W:\WE-C\Los Alamitos\city of 113322 - los al pine street complete street imp\900-PSCE\901-plans\PL-L5-03_Planting.dwg



LANDSCAPE CONSTRUCTION NOTE

- 1 FURNISH AND INSTALL 3-INCH LAYER OF SHREDDED REDWOOD MULCH. SEE GENERAL NOTE NO. 5.
- 2 FURNISH AND INSTALL CLASS "A" TOP SOIL AS BACKFILL TO 2" BELOW TOP OF CURB. SEE DETAIL1, PLAN NO. CD-5.
- 3 FURNISH AND INSTALL ROOT CONTROL BARRIER. SEE DETAIL 1, PLAN NO. CD-X5.



REVISIONS			
NUMBER	DATE	INITIALS	

REFERENCES	
APPV'D	



WILLDAN Engineering		DATE
2801 East Kettleby Ave, Suite 400, Anaheim, California 92805 714-978-8200 fax 714-978-8299		
DRAWN BY	JV/BN	9/24/2025
CHECKED BY	JH/BN	9/24/2025
DESIGNED BY	JV/BN	9/24/2025
APPROVED		9/24/2025
City Engineer		Date

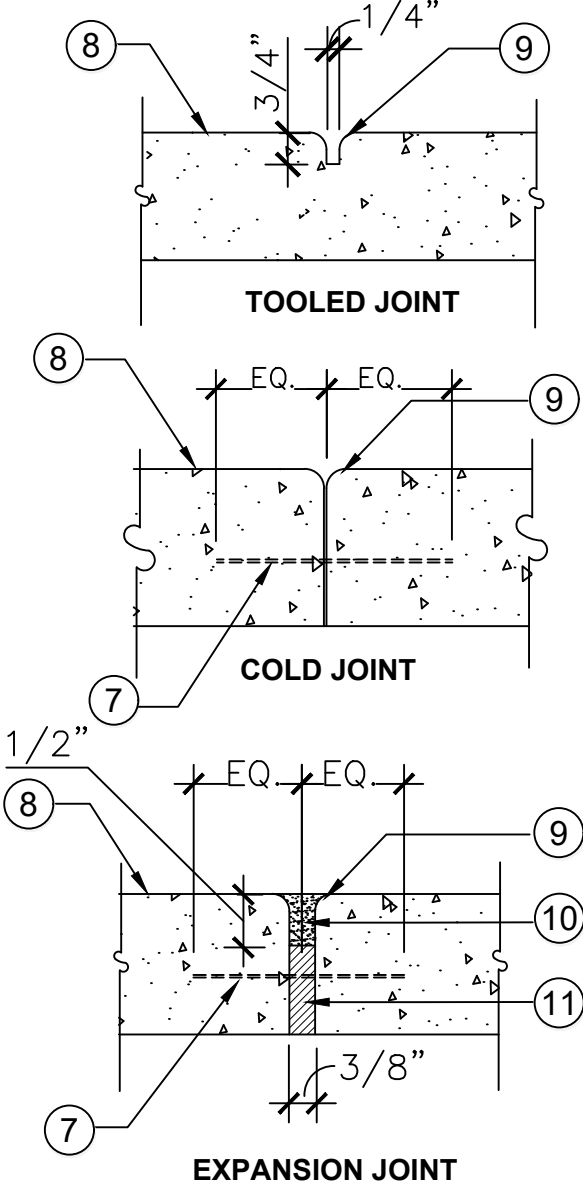
CITY OF LOS ALAMITOS	
LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT	
PLANTING PLAN	

PLAN NO.
PP-2
SHEET 25 OF 30

75% SUBMITTAL NOT FOR CONSTRUCTION

NOTE:

TOP DRESS SEALANT WITH SILICA SAND. SEALANT AND SAND COLOR TO MATCH ADJACENT CONCRETE COLOR.

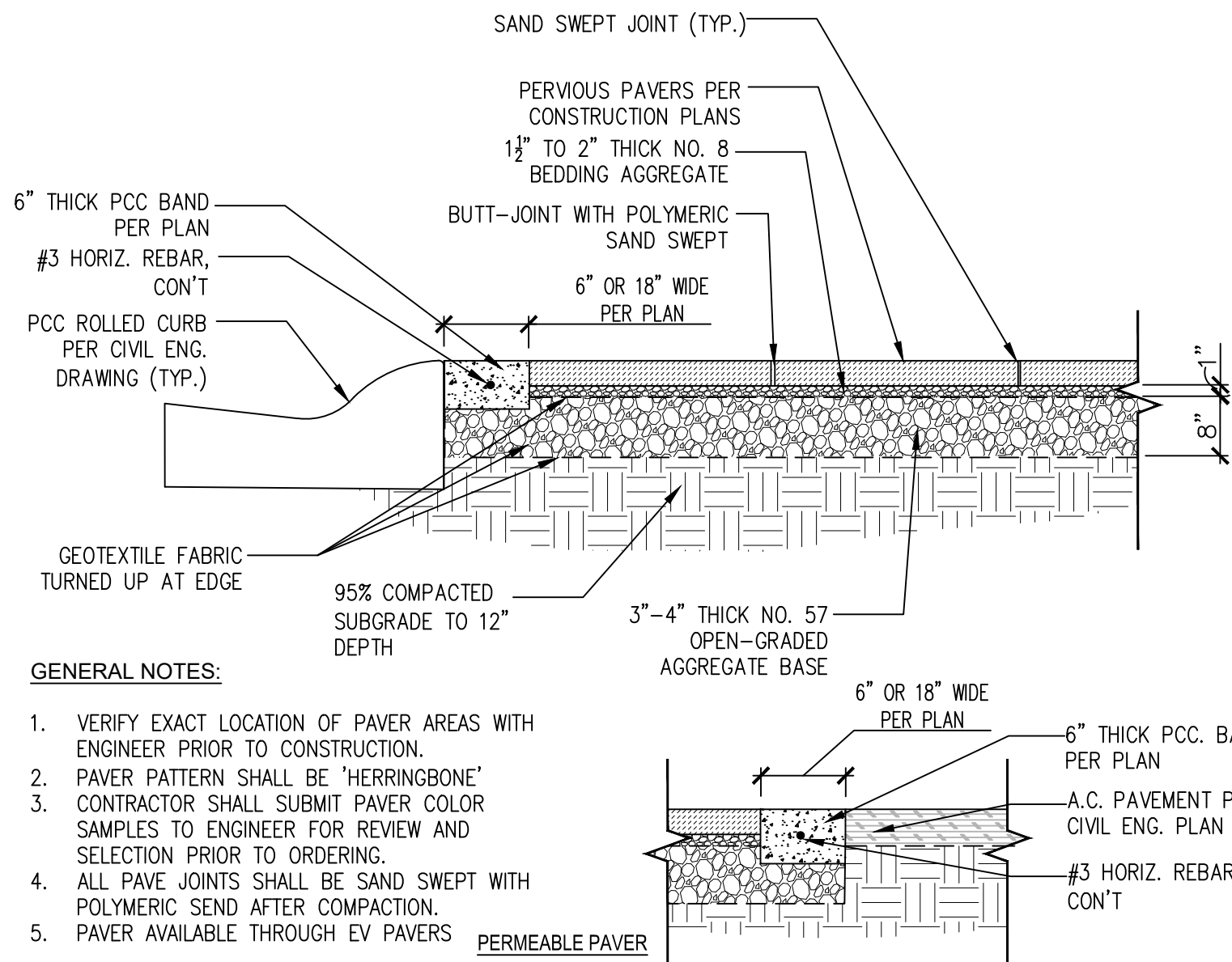


- ① 1/4" RADIUS TYP.
- ② PCC PAVING/WALKWAY
- ③ 95% COMPACTED SUBGRADE
- ④ FINISH GRADE
- ⑤ THICKENED EDGE AT TURF/PLANTING AREA
- ⑥ #4 REBAR @ 12" O.C EACH WAY
- ⑦ 9" SPEED DOWEL @ 24" O.C.
- ⑧ FINISH SURFACE

GENERAL NOTES:

1. PCC SHALL BE PER SPECIFICATIONS.
2. PCC FINISH TEXTURE SHALL BE MEDIUM BROOM.
3. PCC COLOR SHALL BE NATURAL GRAY OR INTEGRAL COLOR STAMP CONCRETE AT LOCATION INDICATED ON CONSTRUCTION PLAN.
4. CONSTRUCT TOOLED JOINT @ 6' O.C AND EXPANSION JOINT @ 12' O.C.
5. SEE HORIZONTAL CONTROL, GRADING AND DRAINAGE PLAN FOR ADDITIONAL INFO. OF SIDEWALK AND PCC PAVING. PRIOR TO START OF HARDSCAPE / CONCRETE CONSTRUCTION WORK, CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE ENGINEER FOR APPROVAL:
 - MANUFACTURER'S CUT SHEETS OF PCC COLOR CHARTS AND PRINTED PATTERN SAMPLES.
 - (1) 2 FT. X 2 FT. SQUARE PCC MOCK-UP OF:
 - INTEGRAL COLOR, STAMPED CONCRETE
6. THE FINISHED CONCRETE SAMPLE SHALL REFLECT THE PERSONNEL, PROCEDURES, AND MATERIALS TO BE USED.
7. JOINTS SHALL BE VERIFIED WITH ENGINEER PRIOR TO POURING.
8. PPC FOR WALKWAY, INTEGRAL COLOR, STAMPED CONCRETE PAVING , GENERAL PAVING AND SHELTER PAD SHALL BE PER SPECIFICATION.

- ⑨ 1/4" RADIUS
- ⑩ JOINT SEALANT – PER SPECIFICATIONS
- ⑪ JOINT FILLER – POLYSTYRENE
- ⑫ #4 REBAR @ 24" O.C.
- ⑬ EXISTING SIDEWALK OR NEW PO
WALKING PATH



GENERAL NOTES:

1. VERIFY EXACT LOCATION OF PAVEMENT AREAS WITH ENGINEER PRIOR TO CONSTRUCTION.
2. PAVEMENT PATTERN SHALL BE "HERRINGBONE"
3. CONTRACTOR SHALL SUBMIT PAVEMENT COLOR SAMPLES TO ENGINEER FOR REVIEW AND SELECTION PRIOR TO ORDERING.
4. ALL PAVEMENT JOINTS SHALL BE SAND SWEEPED WITH POLYMERIC SEAL AFTER COMPACTION.
5. PAVEMENT AVAILABLE THROUGH EV PAVEMENT PERMITS

CONTACT:
EV MATERIALS CORPORATION
CHARLEY YANG
www.evmaterials.com
Cell: 949-293-4134
charleyyang@gmail.com

PAVER:
4"X8"
COLOR:
20% GRAY
30% RED
50% BROWN

- ① 1/4" RADIUS TYP.
- ② PCC CURB. STANDARD GRAY COLOR AND MEDIUM BROOM FINISH
- ③ #3 REBAR, CON'T
- ④ FINISH GRADE
- ⑤ 95% COMPACTED SUBGRADE
- ⑥ CLASS A/C TOPSOIL
- ⑦ FINISH SURFACE
- ⑧ CONCRETE PAVERS. SEE DETAIL NO. 2

GENERAL NOTES:

1. DETAILS SHOWN ARE TO ILLUSTRATE THE INTENDED DESIGN ONLY. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS AND SUBMITTALS AS FACED TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING.
2. VERIFY EXACT LOCATION OF SIGN FOOTING AND SIGN FACING DIRECTION WITH ENGINEER PRIOR TO INSTALLATION.
3. CONTRACTOR TO FIELD LOCATE AND PERFORMING POTHOLES, IF NECESSARY, TO VERIFY ANY POTENTIAL CONFLICT WITH EXISTING UNDERGROUND UTILITY STRUCTURES PRIOR TO INSTALLATION.
4. PCC FOR ENTRY MONUMENT SIGN CONCRETE BASE AND FOOTING SHALL BE CLASS 330-C-23 (560-C-3250) WITH MAX. 4" SLUMP.

SIGN INSTALLATION NOTES - CONTRACTOR'S RESPONSIBILITIES:

1. CONTRACTOR SHALL COORDINATE WITH SOUTH COAST LIGHTING & DESIGN TO OBTAIN SHOP DRAWINGS OF ENTRANCE MONUMENT SIGN FOR CITY REVIEW SUBMITTAL, SHIPPING AND DELIVERY SCHEDULING, INCLUDING ALL NECESSARY EQUIPMENT NEEDED FOR LIFTING AND/OR HAULING, ANCHORING TEMPLATE AND TECHNICAL ASSISTANCE FOR INSTALLATION OF SIGN.
2. CONTRACTOR SHALL FURNISH SHOP DRAWINGS OF A COMPLETE SIGN ASSEMBLY AS SHOWN INCLUDING FOOTING DESIGN AND STRUCTURAL FOOTING CALCULATIONS FROM A CALIFORNIA REGISTERED CIVIL ENGINEER. FOOTING DESIGN SHALL MEET CITY'S REQUIRED 130 MPH WIND LOAD. SUBMIT DRAWINGS AND CALCULATIONS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CITY PERMIT APPLICATION, PLAN CHECK SUBMITTAL TO BUILDING DEPT., OBTAIN PLAN APPROVAL, OBTAIN PERMIT, AND SCHEDULE FOR INSPECTION FROM BUILDING DEPT. THE CITY WILL PAID FOR PERMIT FEE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CAMERA-READY ARTWORK AND APPURTENANCES OF CITY LOGO TO SUBMIT TO SIGN FABRICATOR AS REQUESTED. COORDINATE WITH ENGINEER FOR ADDITIONAL INFORMATION PRIOR TO ORDERING.
5. CONTRACTOR SHALL:
 - CONSTRUCT CONCRETE FOOTING AND BASE, COMPLETE PER DETAIL AND/OR ENGINEER'S RECOMMENDATIONS.
 - UNLOAD AND ANCHOR SIGN ONTO FOOTING.
 - APPLY CLEAR ANTI-GRAFFITI COATING ON ALL EXPOSED SURFACES OF SIGN.
 - ANTI-GRAFFITI COATING SHALL BE PER SPECIFICATIONS. COATING APPLICATION SHALL BE PER MANUFACTURER'S SPECIFICATIONS/Written INSTRUCTIONS.
 - APPLY PAINT COLOR AS SHOWN

MANUFACTURER: SOUTH COAST LIGHTING & DESIGN
CONTACT: KEVIN SAKOMOTO
PHONE: (949) 689-6609
EMAIL: kevins@southcoastlighting.com

PCC SIDEWALK

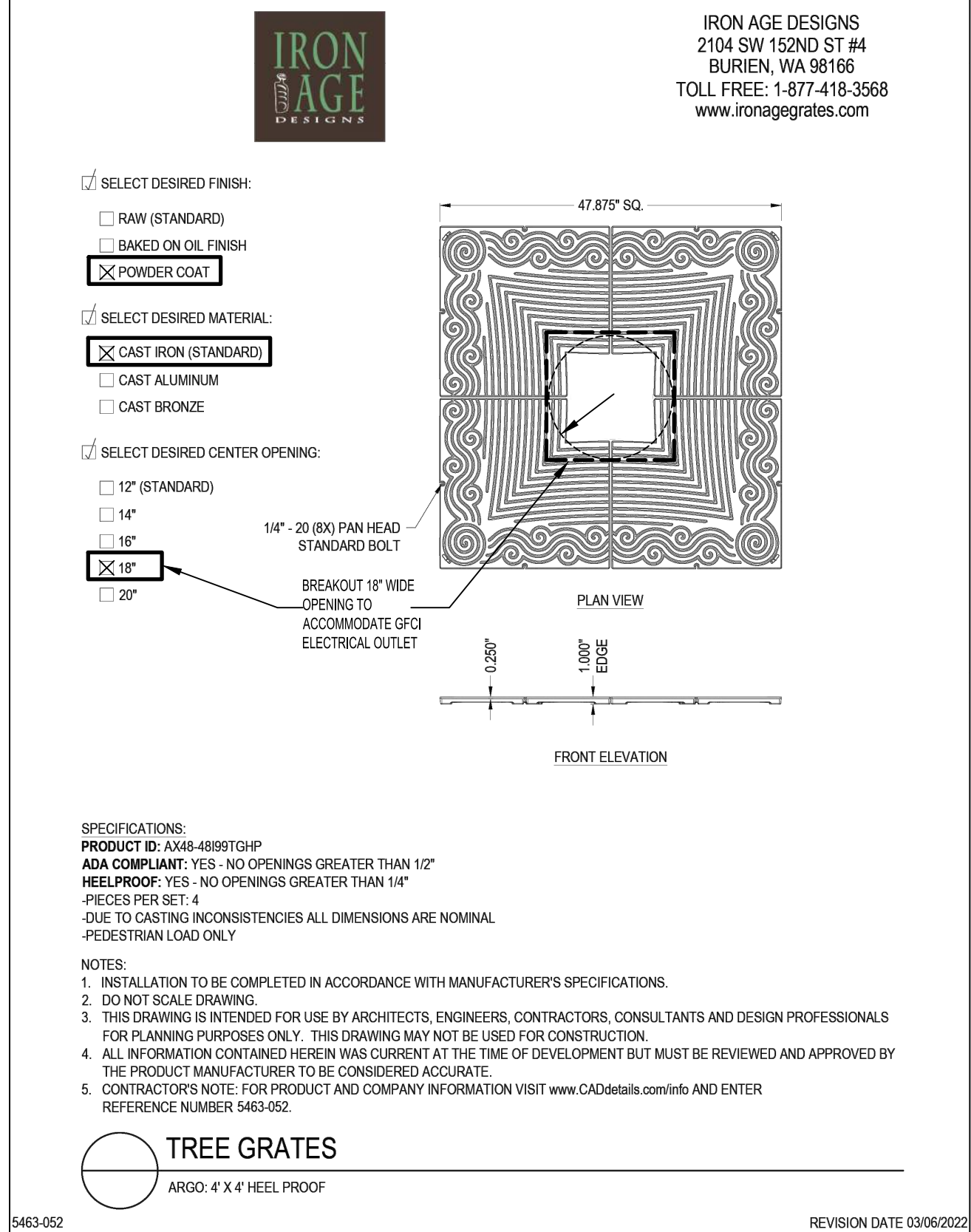
NTS

PERVIOUS PAVERS

NTS

6-INCH WIDE PCC CURB

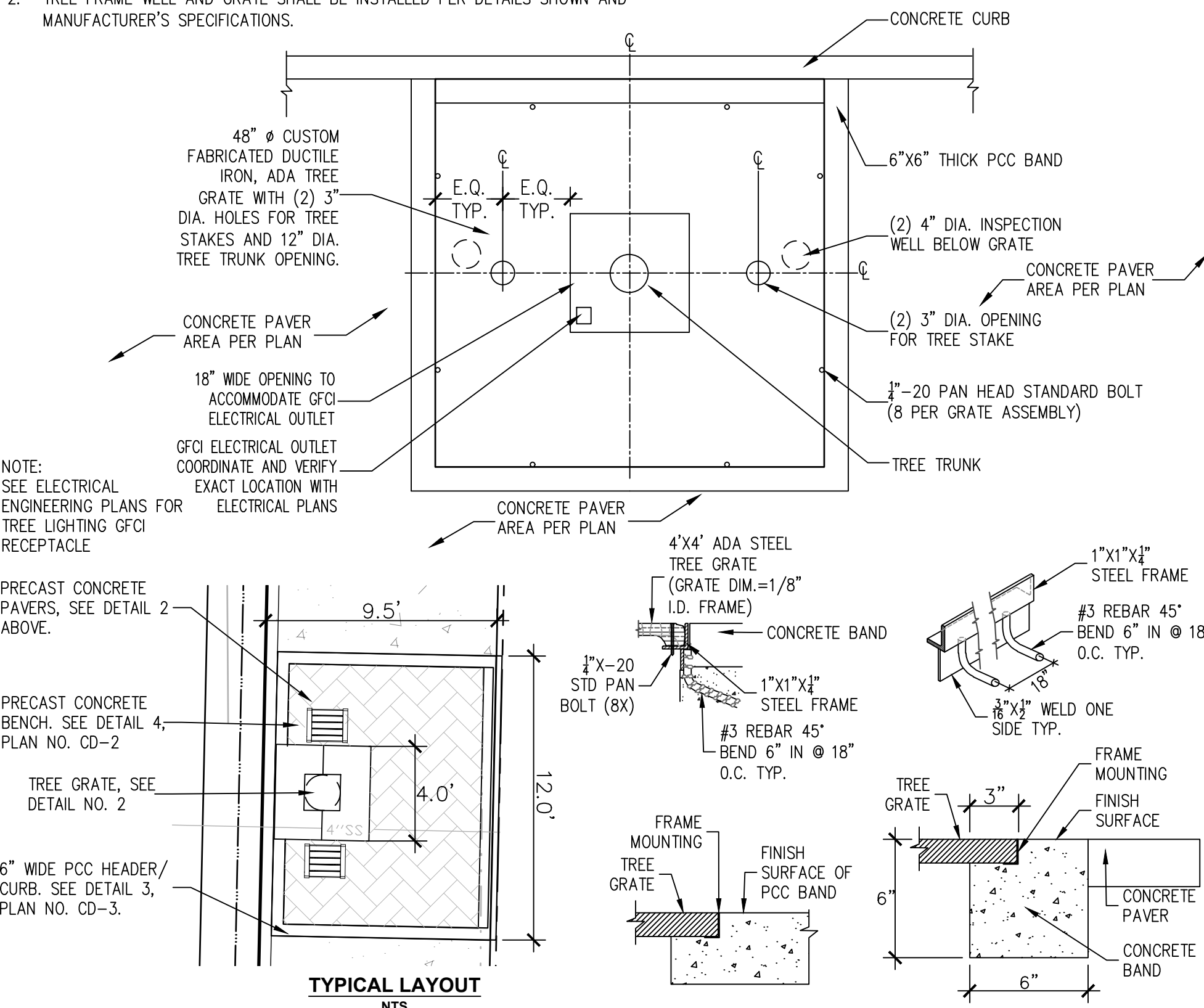
NTS



GENERAL NOTES:

1. TREE GRATE DETAILS SHOWN ARE FOR ILLUSTRATE DESIGN INTENT ONLY. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO PURCHASING.
2. TREE FRAME WELL AND GRATE SHALL BE INSTALLED PER DETAILS SHOWN AND MANUFACTURER'S SPECIFICATIONS.

MANUFACTURER: IRON AGE DESIGNS
PHONE: (888) 460-7275
EMAIL: SALES@PARKPACIFIC.COM



TREE WELL GRATE

INTS

ENTRY MONUMENT SIGN

NTS



Know what's **below**.
Call before you dig.

R E V I S I O N S				R E F E R E N C E S	
NUMBER	DATE	INITIALS		APPV'D	



DRAWN BY	JV/BN	9/24/2025
CHECKED BY	JH/BN	9/24/2025
DESIGNED BY	JV/BN	9/24/2025
APPROVED _____		9/24/2025
City Engineer		Date

CITY OF LOS ALAMITOS

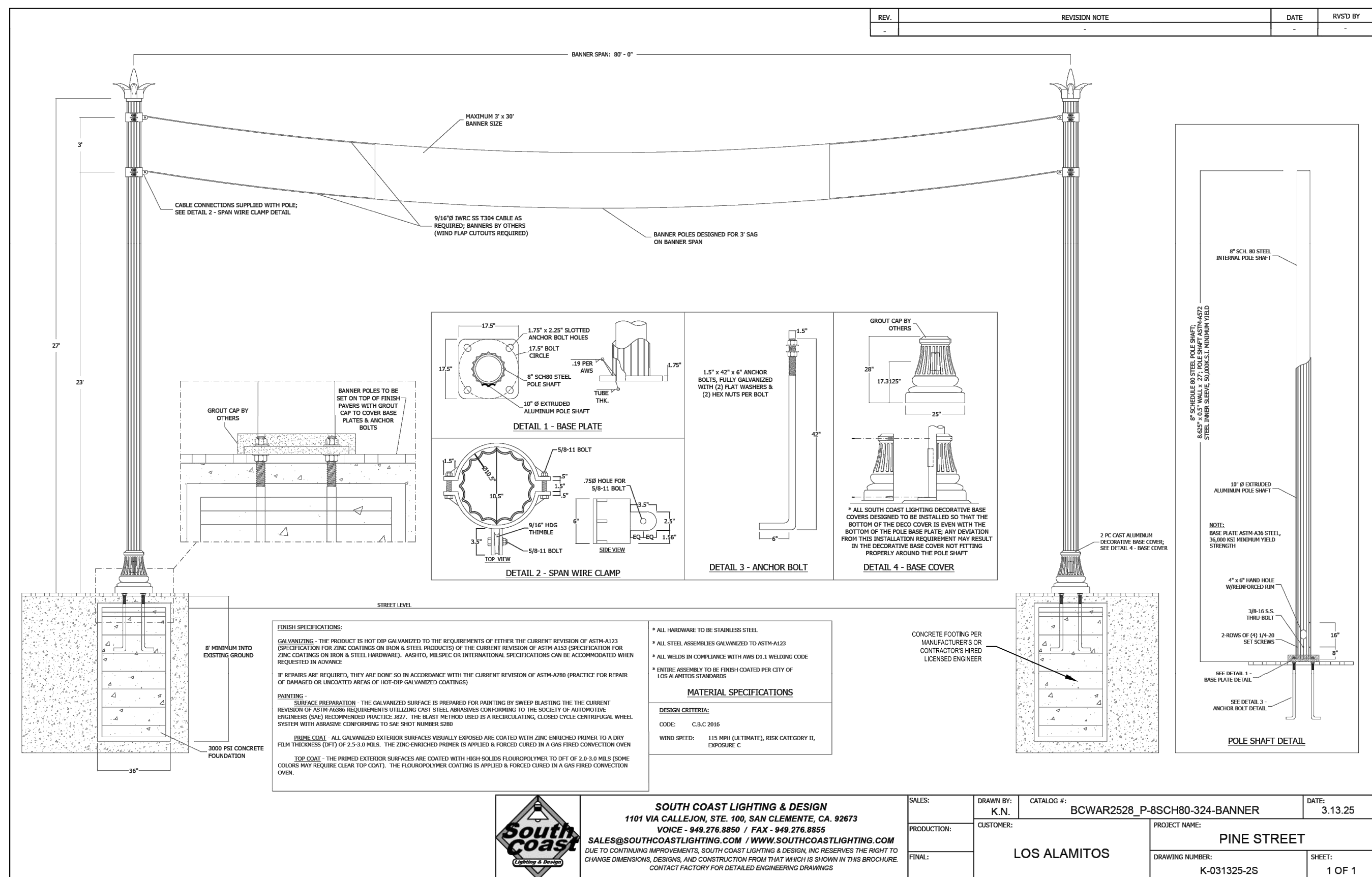
**LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE
CORRIDOR IMPROVEMENT PROJECT**

CONSTRUCTION DETAILS

PLAN NO.

CD-1

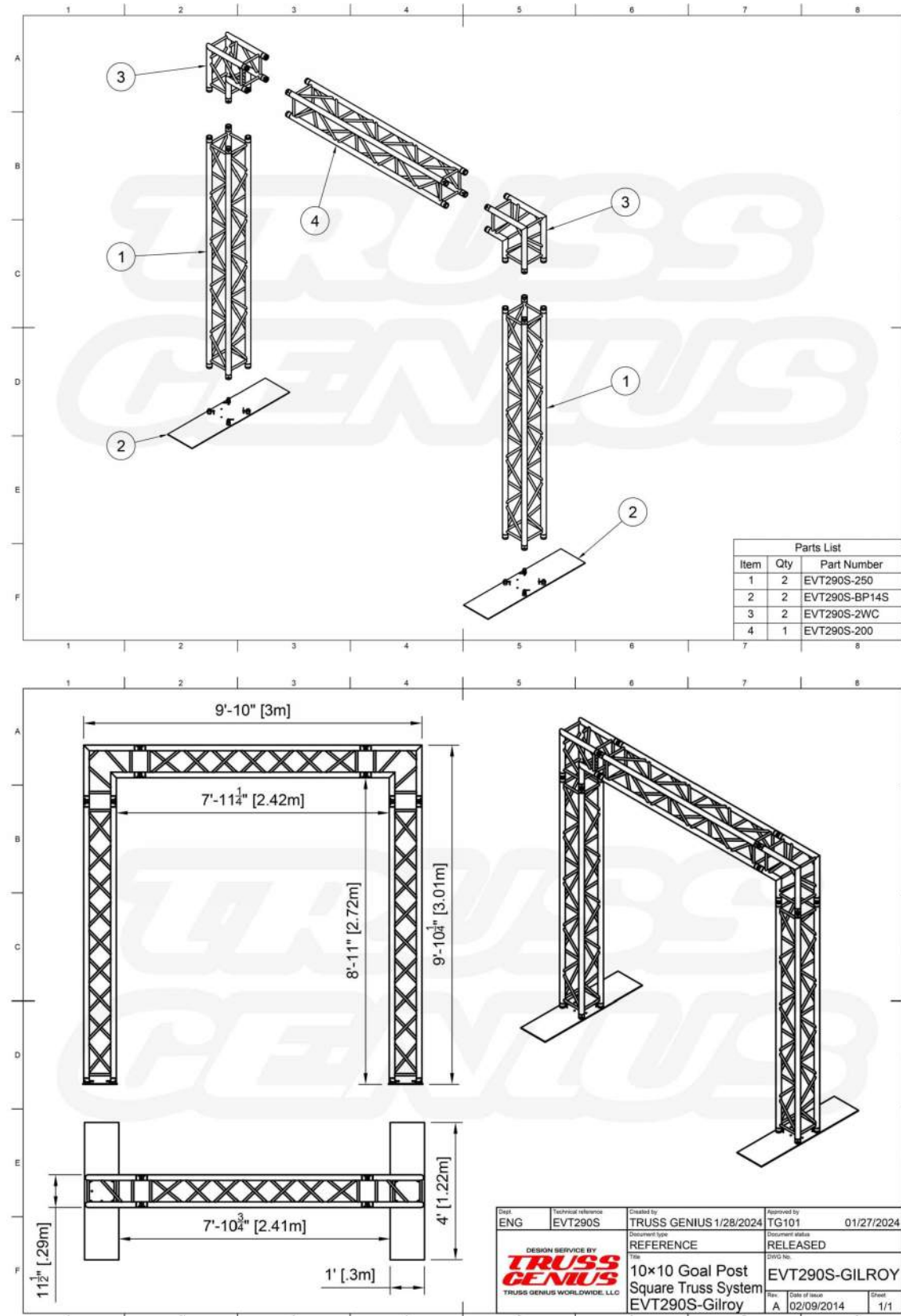
SHEET 26 OF 30



GENERAL NOTE

1. MANUFACTURER'S ELEVATIONS, DETAILS AND NOTES SHOWN WERE OBTAINED FROM THE MANUFACTURER'S REPRESENTATIVE PROVIDED FOR ILLUSTRATIVE AND INFORMATION PURPOSE ONLY.
2. CONTRACTOR SHALL CONTACT THE MANUFACTURER'S REPRESENTATIVE FOR COORDINATION, INFORMATION EXCHANGING, PRICING AND ORDERING, AND TO OBTAIN OFFICIAL SHOP DRAWINGS OF BANNER POLE.
3. CONTRACTOR SHALL FURNISH AND SUBMIT SHOP DRAWINGS OF A COMPLETE BANNER POLE ASSEMBLY AS SHOWN INCLUDING FOOTING DESIGN AND STRUCTURAL FOOTING CALCULATIONS FROM A CALIFORNIA REGISTERED CIVIL ENGINEER.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CITY PERMIT APPLICATION, PLAN CHECK SUBMITTAL TO BUILDING DEPT., OBTAIN PLAN APPROVAL, OBTAIN PERMIT, AND SCHEDULE FOR INSPECTION FROM BUILDING DEPT. THE CITY WILL PAID FOR PERMIT FEE.
5. CONTRACTOR SHALL COORDINATE AND MAKE ARRANGEMENT FOR DELIVERY, TEMPORARY STORAGE AND INSTALLATION OF THE BANNER POLE ASSEMBLY USING LIFTING VEHICLE/Crane WITH THE CITY'S ENGINEER AND MANUFACTURER'S REPRESENTATIVE.
6. CONTRACTOR SHALL REFER TO CIVIL ENG. PLANS FOR THE COORDINATION OF THE CONSTRUCTION OF PCC SIDEWALK AND CONSTRUCTION OF THE BANNER POLE FOOTING/FOUNDATION PRIOR TO INSTALLATION.
7. DUE TO THE COMPLEXITY OF THE BANNER POLE INSTALLATION AND RELATED APPURTENANCES, THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH THE MANUFACTURER'S SALE REPRESENTATIVE AND THE CITY'S REPRESENTATIVE 10 WORKING DAYS AFTER AWARD OF THE CONTRACT DATE FOR ANY SPECIFIC TECHNICAL ASSISTANCE AND TO RESOLVE ANY ADDITIONAL RELATED ISSUE TO ACHIEVE A COMPLETE SUCCESSFUL INSTALLATION.
8. CONTRACTOR SHALL FIELD LOCATE AND PERFORMING POTHOLES, IF NECESSARY, TO VERIFY ANY POTENTIAL CONFLICT WITH EXISTING UNDERGROUND UTILITY STRUCTURES PRIOR TO INSTALLATION.

MANUFACTURER: SOUTH COAST
LIGHTING & DESIGN
CONTACT: KEVIN SAKOMOTO
PHONE: (949)689-6609
EMAIL: kevins@southcoastlighting.com

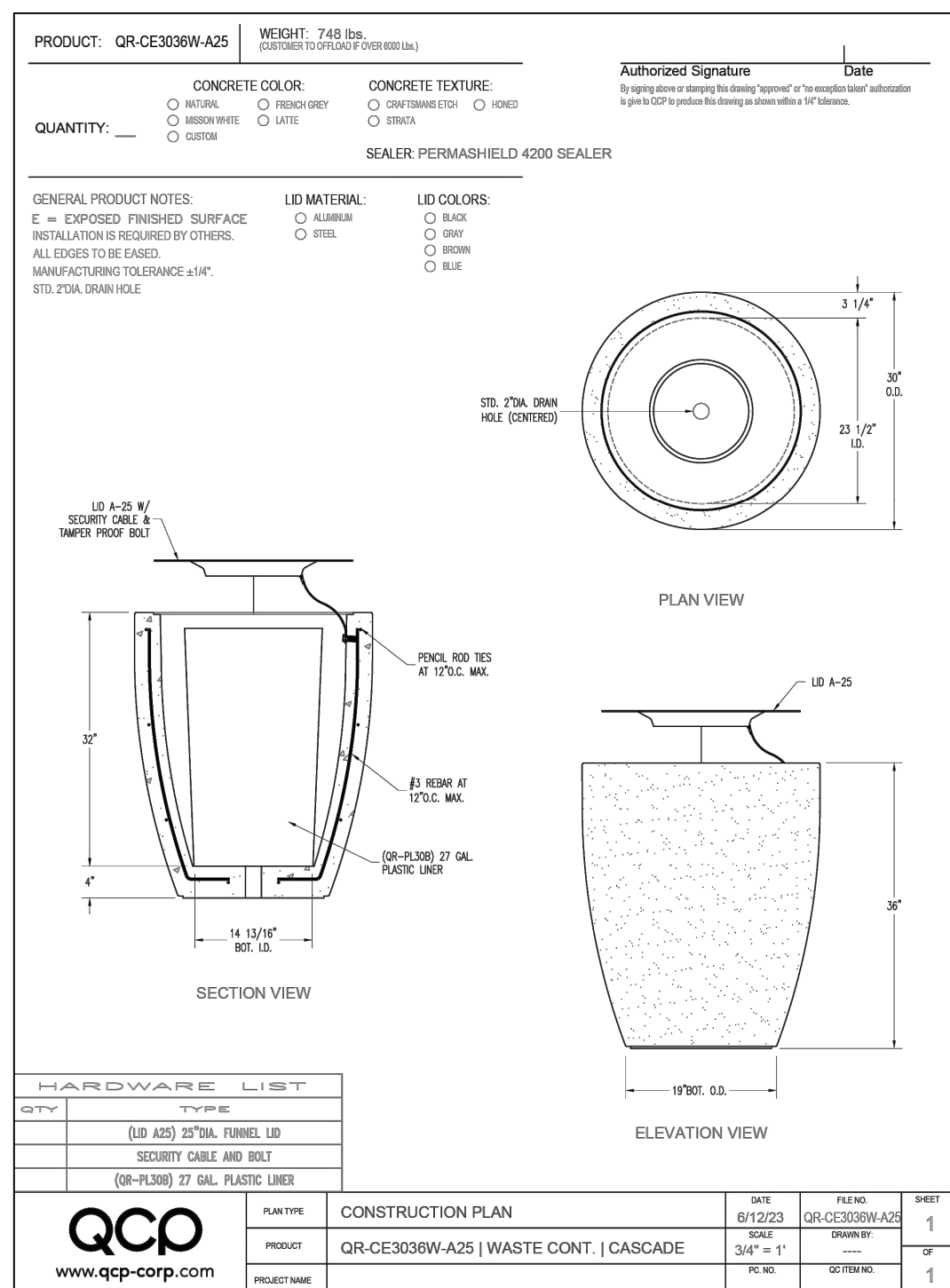


GENERAL NOTE

1. MANUFACTURER'S ELEVATIONS, DETAILS AND NOTES SHOWN WERE OBTAINED FROM THE MANUFACTURER'S REPRESENTATIVE PROVIDED FOR ILLUSTRATIVE AND INFORMATION PURPOSE ONLY.
2. CONTRACTOR SHALL CONTACT THE MANUFACTURER'S REPRESENTATIVE FOR COORDINATION, INFORMATION EXCHANGING, PRICING AND ORDERING, AND TO OBTAIN OFFICIAL SHOP DRAWINGS OF TRUSS SYSTEM.
3. CONTRACTOR SHALL FURNISH AND SUBMIT SHOP DRAWINGS OF A COMPLETE TRUSS ASSEMBLY AS SHOWN INCLUDING FOOTING DESIGN AND **STRUCTURAL FOOTING CALCULATIONS** FROM A CALIFORNIA REGISTERED CIVIL ENGINEER.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CITY PERMIT APPLICATION, PLAN CHECK SUBMITTAL TO BUILDING DEPT., OBTAIN PLAN APPROVAL, OBTAIN PERMIT, AND SCHEDULE FOR INSPECTION FROM BUILDING DEPT. THE CITY WILL PAID FOR PERMIT FEE.
5. CONTRACTOR SHALL FIELD LOCATE AND PERFORMING POTHOLOGING, IF NECESSARY, TO VERIFY ANY POTENTIAL CONFLICT WITH EXISTING UNDERGROUND UTILITY STRUCTURES PRIOR TO INSTALLATION.

MANUFACTURER: TRUSS GENIUS
CONTACT:
PHONE: 1(800)376-1460
EMAIL: infor@trussgenius.com

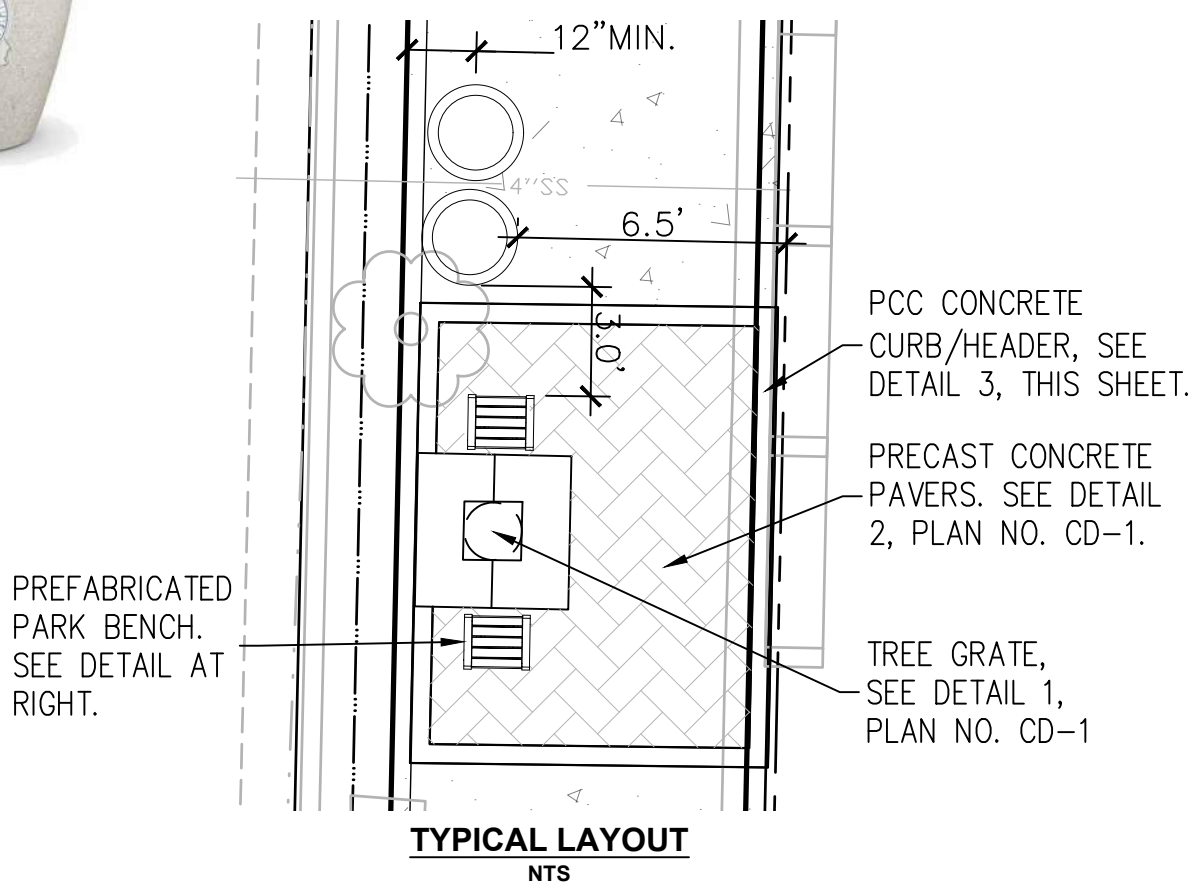
1	OVERHEAD STREET BANNER
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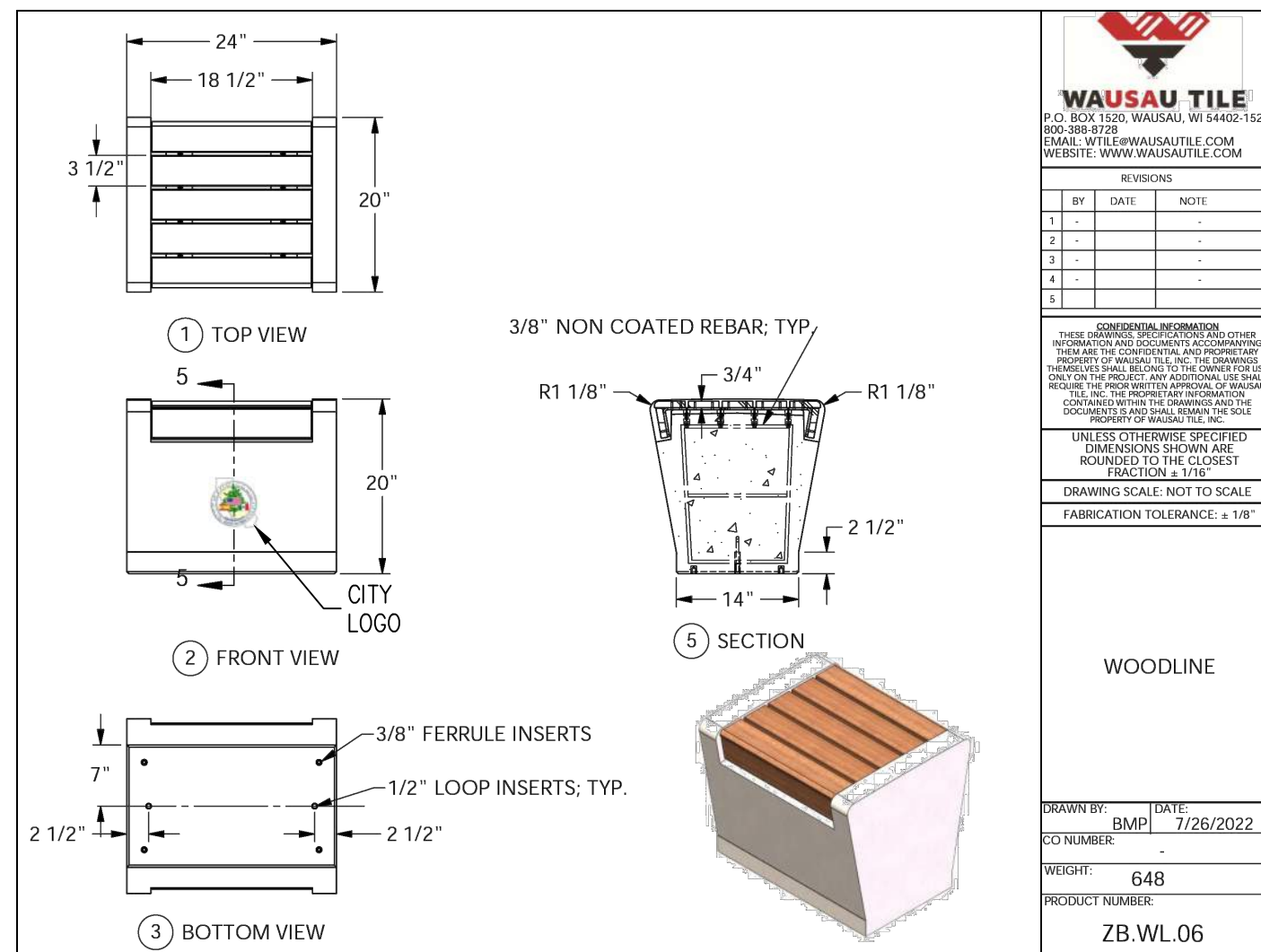
GENERAL NOTES

- | | | |
|------------------|--|--|
| 1. | DETAILS SHOWN ARE FOR ILLUSTRATION OF THE DESIGN INTENT ONLY. | MANUFACTURER: QCP
BIKE RACK MODEL: QR-CIRQ-BR |
| 2. | SUBMIT MANUFACTURER'S CUT SHEETS AND COLOR & FINISH SURFACE CHART TO ENGINEER FOR REVIEW & SELECTION PRIOR TO CONSTRUCTION. | CONCRETE COLOR: NATURAL
CONTACT:
QCP CORP.
PHONE: (866) 703-3434
EMAIL: SALES@QCP-CORP.COM |
| 3. | VERIFY EXACT LOCATION WITH ENGINEER PRIOR TO INSTALLATION. | |
| CITY LOGO | | |
| 1. | CONTRACTOR SHALL COORDINATE WITH ENGINEER FOR HIGH RESOLUTION GRAPHIC IMAGE FILE OF THE CITY LOGO. | |
| 2. | CONTRACTOR SHALL CONTACT AND COORDINATE WITH PRECAST CONCRETE TRASH RECEPTACLE MANUFACTURER FOR INSTALLATION AND APPLICATION OF CITY LOGO IMAGE ON THE BIKE RACK AS SHOWN. | |
| 3. | CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING HIGH RESOLUTION GRAPHIC OF CITY LOGO TO THE PRECAST CONCRETE TRASH RECEPTACLE MANUFACTURER AS REQUIRED AND/OR REQUESTED. | |

MANUFACTURER: QCP
BIKE RACK MODEL: QR-CIRQ-BR
CONCRETE COLOR: NATURAL
CONTACT:
QCP CORP.
PHONE: (866) 703-3434
EMAIL: SALES@QCP-CORP.COM



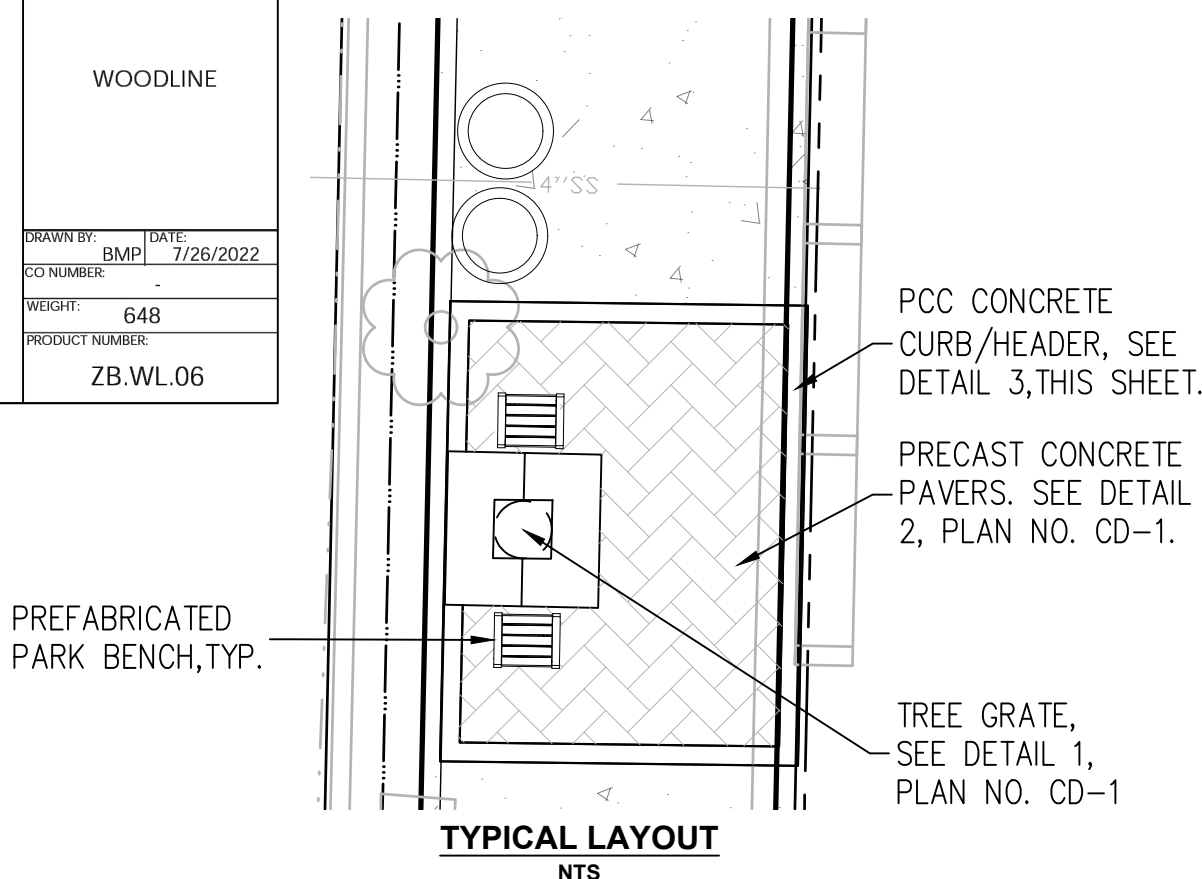
NTS 2 ALUMINUM TRUSS SYSTEM



GENERAL NOTES

1. DETAILS SHOWN ARE FOR ILLUSTRATION OF THE DESIGN INTENT ONLY.
2. SUBMIT MANUFACTURER'S CUT SHEETS & FINISH SURFACE AND COLOR CHART TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
3. VERIFY EXACT LOCATION WITH ENGINEER PRIOR TO INSTALLATION.
4. BENCH ASSEMBLY SHALL FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. CONTRACTOR SHALL PROVIDE ADDITIONAL HARDWARE AND ANCHOR BENCH TO CONCRETE SLAB PER MANUFACTURER'S SPECIFICATIONS.

MANUFACTURER: WASAUTILE
BENCH MODEL: ZB.WL.06
CONTACT:
GINGER WELLS
PHONE: (714)-307-3030
EMAIL: ginger.wtile@gmail.com



3	RESERVED
---	----------

3	RESERVED	NTS
---	----------	-----

3	RESERVED	NTS	4	PRECAST CONCRETE TRASH/RECYCLE BIN
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3	RESERVED	NTS	4	PRECAST CONCRETE TRASH/RECYCLE BIN	NTS
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3	RESERVED	NTS	4	PRECAST CONCRETE TRASH/RECYCLE BIN	NTS
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3	RESERVED	NTS	4	PRECAST CONCRETE TRASH/RECYCLE BIN	NTS
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R E V I S I O N S				R E F E R E N C E S
NUMBER	DATE	INITIALS		APPV'D



DRAWN BY	JV/BN	9/24/2025
CHECKED BY	JH/BN	9/24/2025
DESIGNED BY	JV/BN	9/24/2025
APPROVED _____		9/24/2025
City Engineer		Date

CITY OF LOS ALAMITOS

**LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE
CORRIDOR IMPROVEMENT PROJECT**

CONSTRUCTION DETAILS

PLAN NO.	CD-3
SHEET 28 OF 30	

USER: BReyes
DATE: Sep 25, 2025 - 10:33am
FILE: W:\WE-C\Los Alamitos\city of\113322 - los al pine street complete street\mp\900-PS&E\901-plans\PL-LS-01_Details.dwg

1 TREE CROWN

2 THICKENED EDGE PCC SLAB (SIDEWALK) OR ROLL CURB

3 CLASS A TOPSOIL BACKFILL, 24" DEPTH

4 TREE TIE 8" FROM TOP (V.I.T. CINCH TIE)

5 TREE STAKE

6 LOWER SCAFFOLD BRANCHES

7 PLANTING BACKFILL

8 FINISH GRADE

9 PLANS PLANTING TABLET

10 METAL TREE GRATE ASSEMBLY, WHERE OCCURS, PER DETAIL 4, CD-1

11 24" ROOT CONTROL BARRIER, ALL SIDES

12 6"x6" CONCRETE HEADER

13 4" DIA. X 24" PERF. PVC PIPE (2 PER TREE WELL) FILL WITH NO. 2 GRAVEL -WRAP PIPE W/ BLACK FILTER FABRIC

14 3" LAYER OF SHREDDED WOOD MULCH

15 EXISTING UNDERGROUND UTILITY LINE(S) VERIFY LOCATIONS WITH ENGINEER AND UTILITY REPRESENTATIVE(S) PRIOR TO EXCAVATION

TRIM BELOW CROWN 60" ± 2"

FROM TOP

18"

MIN. 12"

FLUSH

ROOT BALL

CONTAINER DIAMETER

2 X CONTAINER DIAMETER

TREE WELL, SIZE PER PLAN

NO. 2 GRAVEL

FILTER FABRIC

WATER RELIEVING HOLE SEE WATER PERCOLATION TEST NOTES

36"

OR AS NEEDED THROUGH HARD PAN

TO BREAK THROUGH HARD PAN

12" DIA.

GENERAL NOTES

- CONTRACTOR SHALL VERIFY WITH ENGINEER FOR APPROVAL, EXACT LOCATION ALL NEW TREE WELLS, PRIOR TO CONSTRUCTION.
- IF TREE LOCATION SHOULD BE WITHIN 5 FT. OF MARKED LOCATION FOR POSSIBLE UNDERGROUND UTILITY STRUCTURE BY DIGALERT, CONTRACTOR SHALL MANUALLY EXCAVATE PLANTING HOLE USING HAND SHOVEL. DO NOT USE MECHANICAL DIGGER. REFER TO IRRIGATION PLAN FOR THE INSTALLATION OF RZWS ASSEMBLY. INSTALL ±12" FROM TREE TRUNK.

WATER PERCOLATION TEST NOTES:

- CONTRACTOR SHALL PERFORM WATER PERCOLATION TEST AT EACH OF THE TREE PLANTING LOCATION AFTER PLANTING HOLE HAS BEEN EXCAVATED TO DETERMINE WATER PERCOLATION RATE AT THAT LOCATION.
- IF THE WATER PERCOLATION RATE IS ABNORMAL (VERY SLOW DRAINAGE: 0.2 TO 0.4 INCH PER HOUR) DUE TO HEAVY CLAY CONTENT OR COMPACTED NATIVE SOIL, CONTRACTOR SHALL DRILL/BORE A 12" DIA. HOLE FILLED WITH NO. 2 GRAVELS AND WRAPPED WITH FILTER FABRIC, SEE DETAIL, TO ALLEVIATE POTENTIAL WATER RETENTION. VERIFY WITH CITY ENGINEER PRIOR TO BORING HOLE.

1 LOCATE PLANTS WITH AN EQUAL ON-CENTER SPACING AS INDICATED ON THE DRAWINGS.

2 15" SPACING ALONG WALKS OR WALL EDGES.

3 PAVING OR R/W SHOWING PLANTING AREA LIMIT.

TYPICAL GROUNDCOVER LAYOUT PLAN

NOTES:

- ALIGN PLANT SPACING ROW LAYOUT PARALLEL TO WALK OR FENCE.
- DO NOT APPLY PLANTING TABLET TO AGAVE SPECIES.

SHRUB

MULCH (3" LAYER)

FINISH GRADE

PLANTING TABLET

PLANTING BACKFILL

SOIL

NOTE:

LOCATE PLANTS SPACING AS INDICATED ON THE DRAWINGS.

2X DIA. CONTAINER

1	TREE PLANTING IN TREE WELL & MEDIAN ISLAND	NTS	2	SHRUB AND GROUNDCOVER PLANTING	NTS
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REVISIONS				REFERENCES
NUMBER	DATE	INITIALS		APPV'D

DRAWN BY	JV/BN	9/24/2025
CHECKED BY	JH/BN	9/24/2025
DESIGNED BY	JV/BN	9/24/2025
APPROVED	9/24/2025	
City Engineer	Date	

CITY OF LOS ALAMITOS

LOS ALAMITOS RE-IMAGINE DOWNTOWN STREET & BICYCLE CORRIDOR IMPROVEMENT PROJECT

PLANTING DETAILS

PLAN NO.

CD-5

SHEET 30 OF 30

75% SUBMITTAL NOT FOR CONSTRUCTION

Page 39 of 41

LOS ALAMITOS TRAFFIC COMMISSION STATUS LOG

ITEM	RECOMMENDATION	INITIATED	REQUESTED BY	REMARKS
A31	Vehicles in northbound left turn lanes on Los Alamitos at Katella back up into thru lane	January 2016	D. Emerson	Reviewing -Likely require capital improvements
COMMUNITY INITIATED ITEMS				
RECOMMENDATION APPROVED				
C1	Analysis of other intersections near all schools within City limits which might warrant the installation of a crosswalk	January 2019	Traffic Commission	Approved - pending implementation
C2	Street sweeping signage around the LAMC (initiated by excess trash and debris on the street)	January 2019	Resident	Approved - pending implementation
C3	Safety concern of accessibility on the southeast and northeast corner of Los Alamitos Boulevard/Bradbury Road and Los Alamitos Boulevard/Rossmoor Way	April 2021	D. Hill	Approved - pending implementation
C4	Review time limit parking signs in the city	June 2024	J. Mejia	Approved - in review
ITEMS FROM TRAFFIC COMMISSION				
E5	Review 2-hour parking sign in front of 10841 Bloomfield Street to reserve for staff	June 2024	R. Hill	Item pending
E6	Traffic Concern - Dropped Through Lane (Los Alamitos Boulevard from Katella Avenue to Florista Street)	October 2025	Traffic Commission	Item pending
ITEMS FROM CITY COUNCIL				
RECOMMENDATION DENIED				
D1	Installation of northbound speed limit sign on Bloomfield Street	November 2019	Resident: Art DeBolt	Denied
D2	Change the alley (between Farquhar Avenue & Howard Avenue) to be one-way only	November 2019	Resident: Art DeBolt	Denied
D3	Remove "Keep Clear" on Farquhar Avenue at Cherry Street	March 2016	D. Emerson	Denied
D4	Remove school signs for Laurel HS, which is closed	November 2015	Commissioner D. Patz	Denied per schools request
D5	Modify pedestrian signal/sign for northbound right turns - east leg Bloomfield Street & Katella Avenue	January 2025	J. Wilhelm	Denied
D6	Request to add permit parking on Maple Street in Midtown	January 2020	Resident: Mark Giruad	Denied
D7	15 minute parking sign at 4012 Katella Ave, Suite 101	March 2020	Business Owner: Hai Nguyen	Denied - Spoke to owner
D8	Bring the traffic study for Shea Properties Arrowhead to Commission	March 2016	Commissioner J. Mejia	Denied

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ITEM	RECOMMENDATION	INITIATED	REQUESTED BY	REMARKS
D9	One-way Street with angled parking in Midtown on Green Avenue and Howard Avenue	June 2024	D. Patz	Denied
D10	Guardrail on southeast corner of Katella Avenue and Los Alamitos Boulevard	January 2024	D. Hill	Denied
C11	Katella/Cherry crosswalk on eastside of Katella Avenue	Jun-15	J. Mejia	Denied