CITY OF POMONA
PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION
CONSTRUCTION PLANS FOR
ADA CURB RAMPS AND SIDEWALKS COMPLIANCE PROGRAM - CITYWIDE - PHASE II, LINCOLN PARK

PROJECT NO. 428-81055

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE GREENBOOK), STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (A.P.W.A. STANDARDS), AND STANDARDS OF THE CITY OF POMONA PUBLIC WORKS DEPARTMENT.
2. APPLICATION FOR EXCAVATION AND INSPECTION IN CONNECTION WITH WORK SHOWN ON THIS PLAN MUST BE MADE BY THE CONTRACTOR AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO STARING ANY WORK.
3. WORK IN PUBLIC STREETS ONCE BEGUN SHALL BE PROSECUTED WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND THE TRAVELING PUBLIC.
4. TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE CALIFORNIA MUTCD.
5. CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AT ALL TIMES.
6. FOR WORK OUTSIDE THE PARK: CONTRACTOR SHALL PROTECT EXISTING IRRIGATION LINES AND SPRINKLER HEADS BEHIND EXISTING CURB. THE CONTRACTOR SHALL REPLACE ANY DAMAGED LINES AND SPRINKLER HEADS AT HIS OWN EXPENSE.
   FOR WORK WITHIN THE PARK: REFER TO THE LANDSCAPE AND IRRIGATION PLANS FOR DISPOSITION OF THE EXISTING IRRIGATION LINES AND HEADS.
7. CONTRACTOR SHALL REPLACE TRAFFIC STRIPES, LEGENDS, LOOP DETECTORS AND MARKINGS DAMAGED DURING THE CONSTRUCTION OF THIS PROJECT. TRAFFIC STRIPES, PAVEMENT LEGENDS, RAISED PAVEMENT MARKERS AND LOOP DETECTORS SHALL BE PER THE 2010 CALIFORNIA MUTCD, CALTRANS STANDARD PLANS AND CALTRANS STANDARD SPECIFICATIONS 84, 85, AND 86, LATEST EDITIONS.
8. REFLECTORIZE ALL STRIPES AND LEGENDS. PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND SHALL MATCH CITY STENCILS, OR CALTRANS STANDARDS.
9. TRAFFIC STRIPES AND MARKINGS SHALL BE THERMOPLASTIC.
10. STRIPING SHALL BE CAT-TRACKED AND APPROVED BY THE CITY TRAFFIC ENGINEER PRIOR TO FINAL INSTALLATION.
11. CONTRACTOR SHALL RE-STRIPE EXISTING STRIPING, MARKING ALL INTERSECTING, AND JOINING STREETS WITHIN 100' OF LIMITS OF PROJECT.
12. TYPE DB 2-WAY BLUE REFLECTIVE MARKERS SHALL BE INSTALLED ADJACENT TO EXISTING FIRE HYDRANTS WITHIN THE LIMITS OF CONSTRUCTION PER STATE AND CITY STANDARDS.
13. AS BUILTS OF THE COMPLETED PROJECT SHALL BE SUBMITTED FOR APPROVAL OF THE CITY ENGINEER.
14. CONTRACTOR SHALL NOTIFY ALL AFFECTED RESIDENCES IN WRITING AT LEAST TOW (2) FULL WORKING DAYS BEFORE ANY START OF CONSTRUCTION AS SPECIFIED.
15. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (DIG ALERT) AT 811, TWO (2) FULL WORKING DAYS PRIOR TO START OF WORK. THE CONTRACTOR MUST OBTAIN AND MAINTAIN VALID DIG ALERT REFERENCE NUMBER THROUGH THE LIFE OF THE PROJECT AS NECESSARY FOR CONSTRUCTION.
16. CONTRACTOR SHALL PROJECT ALL CENTERLINE SURVEY MONUMENT AND CENTERLINE TIES AS SPECIFIED.
17. EXISTING STRIPES AND MARKINGS TO BE REMOVED SHALL BE DONE BY WET SANDBLASTING.
18. THE LOCATION OF EXISTING UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
19. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES (BMP'S) TO CONTROL EROSION AND SEDIMENT AND PRESERVE WATER QUALITY TO THE MAXIMUM EXTENT POSSIBLE.

ABBREVIATIONS & SYMBOLS

	EXISTING STREET LIGHT
	PROPOSED STREET LIGHT
	FIRE HYDRANT
	MANHOLE
	WATER VALVE
	SIGN
	TREE
S	SEWER
W	WATER
SD	STORM DRAIN
G	GAS
GV	GAS VALVE
E	ELECTRIC
EB	ELECTRIC PULL BOX
EV	ELECTRIC VAULT
DC	DETECTOR CHECK
T	TELEPHONE
SL	STREET LIGHT
SLB	STREET LIGHT PULL BOX
FH	FIRE HYDRANT
VP	VENT PIPE
TL	TRAFFIC LIGHT
TCB	TRAFFIC CONTROL PULL BOX
WM	WATER METER
MB	MAIL BOX
PD	PARKWAY DRAIN
CB	CATCH BASIN
P	PILASTER
GP	GATE POST
CF	CURB FACE
MAX.	MAXIMUM
PT.	POINT
FS	FINISH SURFACE
FL	FLOW LINE
TC	TOP OF CURB
NEC	NORTHEAST CORNER
BCR	BEGIN CURB RADIUS
HT	HEIGHT
RCP	REINFORCED CONCRETE PIPE
TC	TRAFFIC CONTROL (ABOVE GROUND)

PSI	POUNDS PER SQUARE INCH
PCC	PORTLAND CEMENT CONCRETE
RETAIN.	RETAINING
INV.	INVERT
PROP.	PROPOSED
HORIZ.	HORIZONTAL
VERT.	VERTICAL
EX.	EXISTING
EXIST.	EXISTING
MH	MANHOLE
DWG	DRAWING
DWY.	DRIVEWAY
TEL.	TELEPHONE
ELECT.	ELECTRICAL
NO.	NUMBER
CONC.	CONCRETE
STD.	STANDARD
℄	CENTER LINE
FT.	FEET
ST.	STREET
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
DEPT.	DEPARTMENT
PROJ.	PROJECT
VCP	VITRIFIED CLAY PIPE
ECR	END CURB RADIUS
L	LENGTH
BOP	BOTTOM OF PIPE
TOP	TOP OF PIPE
GB	GRADE BRAKE
R/W	RIGHT OF WAY
BW	BACK OF WALK
TG	TOP OF GRATE
CATV	CABLE TV
LAT.	LATERAL
JS	JUNCTION STRUCTURE
BC	BEGINNING CURVE
EC	END OF CURVE
ARHM	ASPHALT RUBBER HOT MIX
GG	GAP GRADED

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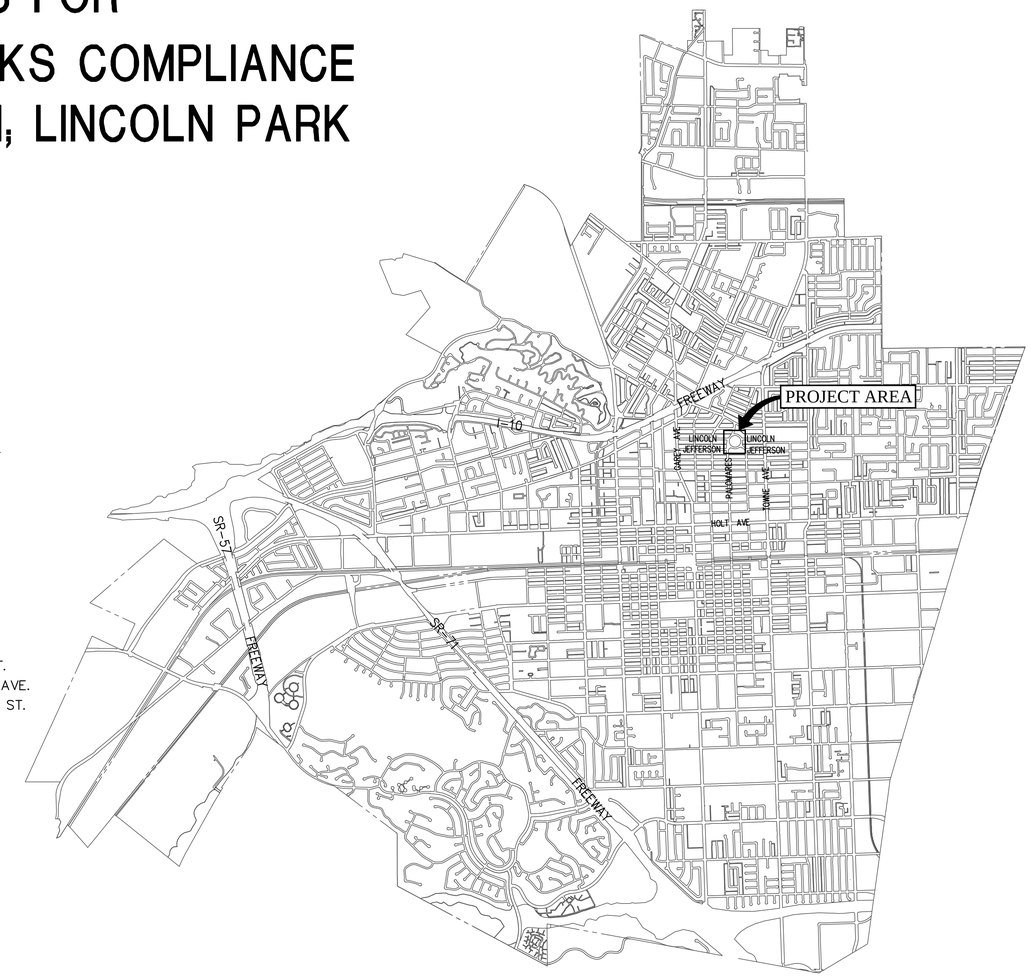


VICINITY MAP
N.T.S.

APPROVED BY:

FIRE DEPARTMENT _____
LEINBURG WILSON – (909) 620-2402 SIGNATURE DATE

P/W-PUBLIC SERVICES _____
JERRY PEREZ – (909) 620-2482 SIGNATURE DATE

WATER/WASTE WATER OPERATIONS: _____
RAUL GARIBAY – (909) 620-2239 SIGNATURE DATE

P/W-TRANSPORTATION & DEVELOPMENT DIVISION _____
RON CHAN – (909) 620-2286 SIGNATURE DATE

P/W-ENVIRONMENTAL* _____
JULIE CARVER – (909) 620-3628 SIGNATURE DATE
(AVAILABLE: MON, WED. 7:30 A.M. TO 11:30 A.M. AT PUBLIC WORKS COUNTER)

ACCEPTED BY

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

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

CITY OF POMONA
PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

TITLE SHEET & GENERAL NOTES

CALL TOLL FREE 811
Know what's below. Call two working before you dig.
Underground Service Alert

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIGALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID, FOR YOUR DIGALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE TWO WORKING DAYS BEFORE YOU DIG.

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

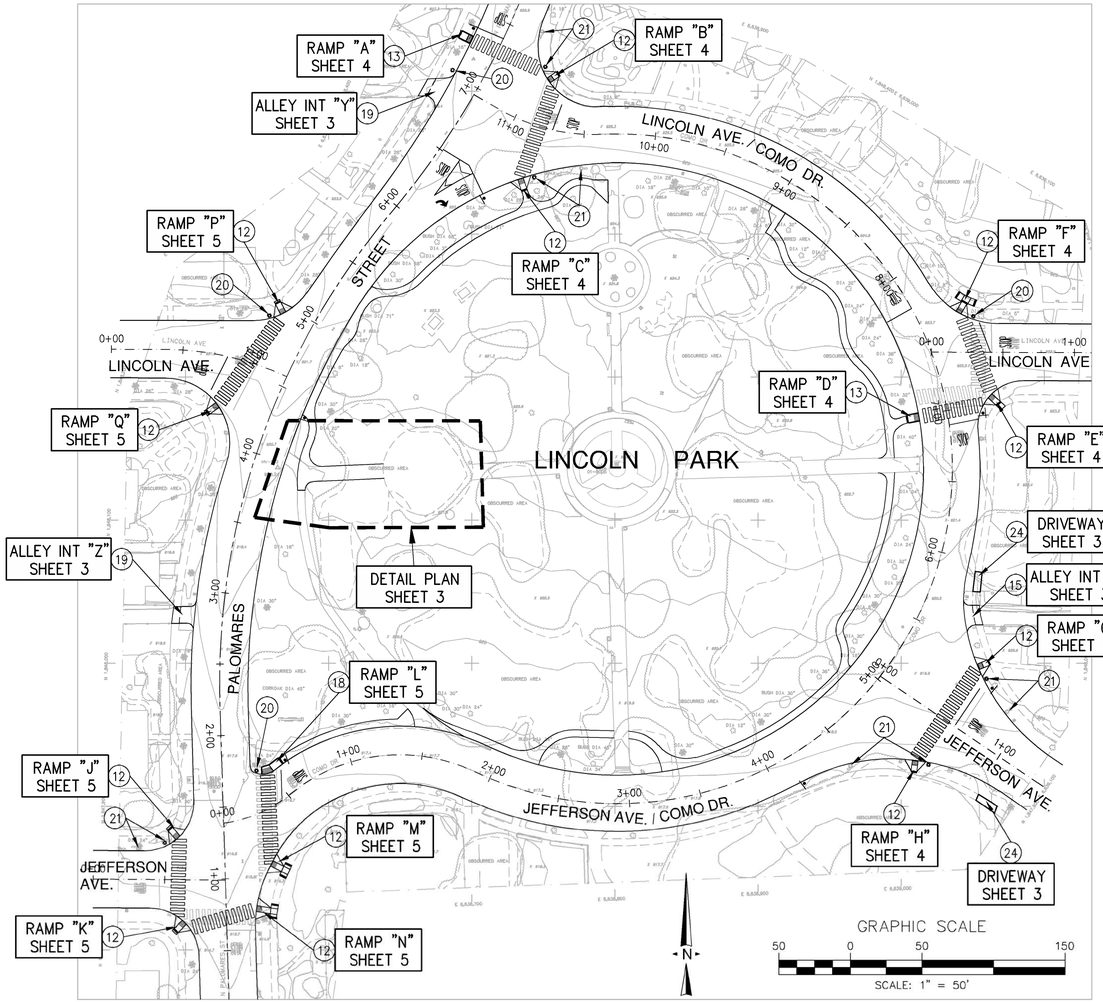
REGISTERED PROFESSIONAL ENGINEER CARLOS A. PINEDA No. C38639 Exp. 03/31/19 STATE OF CALIFORNIA

PLANS PREPARED BY:
Stantec
38 TECHNOLOGY DR. #100 (949) 923-6000 TEL
IRVINE, CA 92618 (949) 923-6121 FAX
CARLOS A. PINEDA RCE 38639 DATE

REV	DESCRIPTION	DATE	BY
	REVISION		

SCALE: AS SHOWN	DESIGNED: JL DRAWN: JL CHECKED: CP REVIEWED: REVIEWED (CONST.)	SHT. 1 OF 22 SHTS

FA-2143A



PALOMARES ST. – CONSTRUCTION CENTERLINE

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

COMO DR. – CONSTRUCTION CENTERLINE

DESCRIPTION	STATION	LENGTH	DELTA OR BEARING	RADIUS	TANGENT
PALOMARES ST. (1+38.92) INT.	0+00.00				
		50.92	32°25'05"	90.00	26.16
PRC	0+50.92				
		137.15	64°56'39"	121.00	77.00
PRC	1+88.07				
		849.46	207°59'39"	234.00	938.73
PRC	10+37.54				
		73.98	32°36'25"	130.00	38.02
EC	11+11.52				
		21.31	N 60°03'08" W		
PALOMARES ST. (6+94.94) INT.	11+32.83				

JEFFERSON AVE. (W) – CONSTRUCTION CENTERLINE

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

LINCOLN AVE. (W) – CONSTRUCTION CENTERLINE

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

JEFFERSON AVE. (E) – CONSTRUCTION CENTERLINE

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

LINCOLN AVE. (E) – CONSTRUCTION CENTERLINE

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

CONSTRUCTION NOTES & QUANTITIES

NO.	ITEM	QUANTITY	UNIT
11	CONSTRUCT FULL DEPTH AC PAVEMENT.	1,180	SF
12	CONSTRUCT CURB RAMP PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 111–5. (CASE 'A', TYPE '1').	12	EA
13	CONSTRUCT CURB RAMP PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 111–5. (CASE 'D', TYPE '1').	2	EA
14	CONSTRUCT 4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A–7–02.	198	SF
15	CONSTRUCT ALLEY INTERSECTION PER CITY OF POMONA STD. PLAN NO. A–5–06 AND DETAIL HEREON.	1	EA
16	CONSTRUCT TYPE "A–2" CURB ONLY PER CITY OF POMONA STD. PLAN NO. A–3–64.	20	LF
17	NOT USED		
18	CONSTRUCT CURB RAMP PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 111–5. (CASE 'B', TYPE '1').	1	EA
19	CONSTRUCT ALLEY INTERSECTION WITH 8" FULL DEPTH AC PAVEMENT PER MODIFIED CITY OF POMONA STD. PLAN NO. A–5–06 AND DETAIL HEREON.	2	EA
20	FURNISH AND INSTALL 150W HPS LAMP WITH PHOTOELECTRIC CONTROLS ON 10' TAPERED CONCRETE POLE (TYPE 782–10) AND 8" GLOBE. SEE ELECTRICAL PLANS.	4	EA
21	RELOCATE STREET LIGHT POLE AND REPLACE WITH 150W HPS LAMP. SEE ELECTRICAL PLANS.	5	EA
22	SAWCUT, REMOVE SIDEWALK AND CONSTRUCT 4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A–7–02.	220	SF
23	SAWCUT, REMOVE CURB AND CONSTRUCT TYPE 'A–2' CURB PER CITY OF POMONA STD. PLAN NO. A–3–64.	50	LF
24	SAWCUT, REMOVE SIDEWALK AND CONSTRUCT 6" PCC OVER 6" AB SIDEWALK CITY OF POMONA STD. PLAN NO. A–5–06.	150	SF

DEMOLITION NOTES & QUANTITIES

NO.	ITEM	QUANTITY	UNIT
P	PROTECT IN PLACE, ITEM PER PLAN		
1	SAWCUT AND REMOVE EXISTING CONCRETE WALKWAY	780	SF
2	SAWCUT AND REMOVE EXISTING AC PAVEMENT	1,360	SF
3	SAWCUT AND REMOVE EXISTING CONCRETE CURB	20	LF
4	REMOVE EXISTING DG PATH	96	SF

CITY OF POMONA BENCHMARK 342:
ELEVATION 926.19 FEET; LEAD AND TACK IN A CATCH BASIN LOCATED +/– 10 FEET FROM THE BCR IN THE NORTHEASTERLY CORNER OF THE INTERSECTION OF TOWNE AVE AND LINCOLN AVE IN THE CITY OF POMONA.

ACCEPTED BY

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

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

CITY OF POMONA

PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

INDEX MAP, TYPICAL SECTIONS & QUANTITIES

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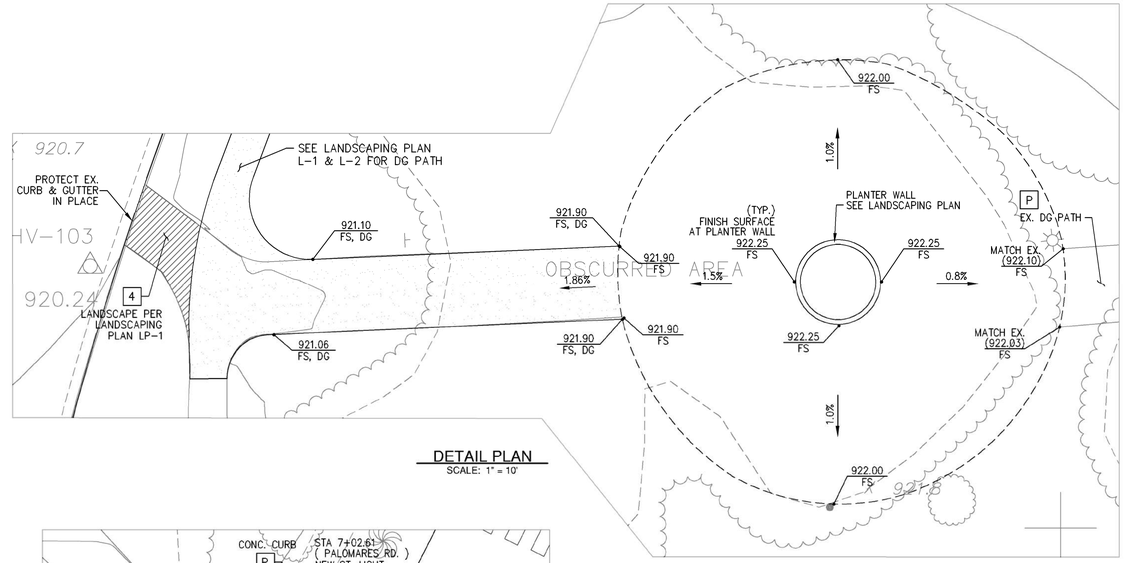
PLANS PREPARED BY:
Stantec
38 TECHNOLOGY DR. #100 IRVINE, CA 92618
(949) 923-6000 TEL (949) 923-6121 FAX
CARLOS A. PINEDA RCE 38639 DATE

REV	REVISION	DATE	BY
△			
△			
△			
△			
△			
△			

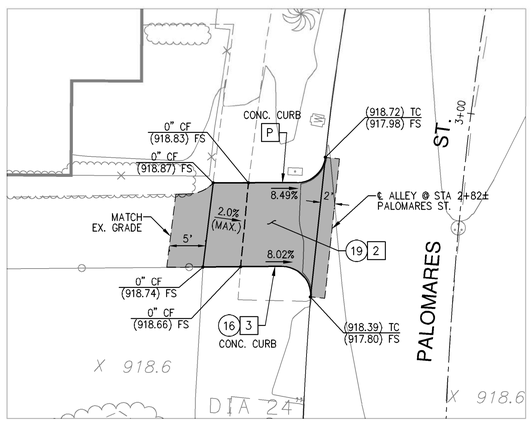
SCALE			
AS SHOWN	DESIGNED: JL	SHT. 2	
	DRAWN: JL		
	CHECKED: CP	OF	
	REVIEWED:	22 SHTS	
	REVIEWED (CONST.)		

FA-2143B

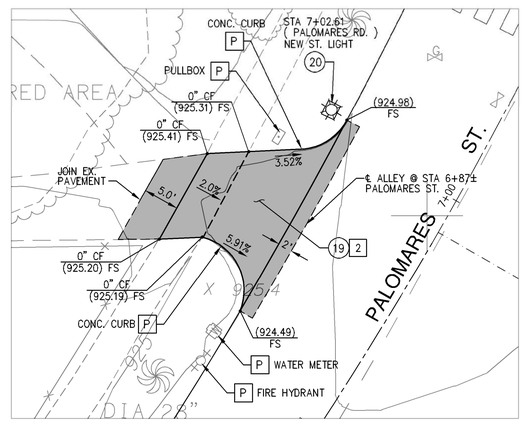
NEW CONCRETE FOR RAMPS, SIDEWALK, ALLEY INTERSECTION TO MATCH EXISTING ADJACENT CONCRETE IN TEXTURE AND APPEARANCE.



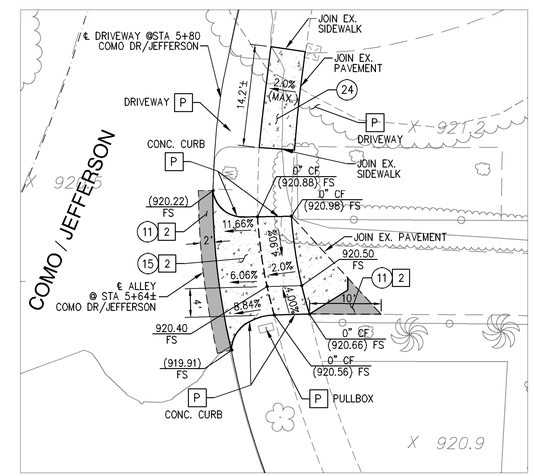
DETAIL PLAN
SCALE: 1" = 10'



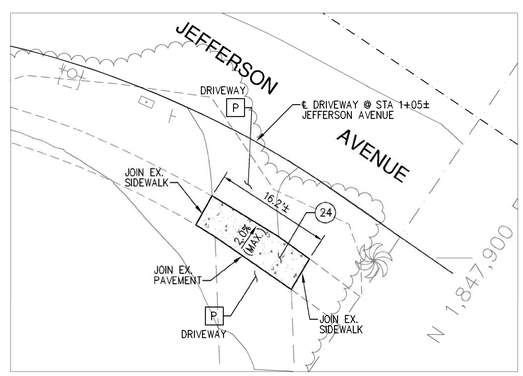
ALLEY INT. "Z"
SCALE: 1" = 10'



ALLEY INT. "Y"
SCALE: 1" = 10'



ALLEY INT. "X" & DRIVEWAY
SCALE: 1" = 10'



DRIVEWAY DETAIL
SCALE: 1" = 10'

LEGEND

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

CONSTRUCTION NOTES

- (11) CONSTRUCT FULL DEPTH AC PAVEMENT.
- (15) CONSTRUCT ALLEY INTERSECTION PER CITY OF POMONA STD. PLAN NO. A-5-06 AND DETAIL HEREON.
- (16) CONSTRUCT TYPE "A-2" CURB ONLY PER CITY OF POMONA STD. PLAN NO. A-3-64.
- (19) CONSTRUCT ALLEY INTERSECTION WITH 8" FULL DEPTH AC PAVEMENT PER MODIFIED CITY OF POMONA STD. PLAN NO. A-5-06 AND DETAIL HEREON.
- (20) FURNISH AND INSTALL 150W HPS LAMP WITH PHOTOELECTRIC CONTROLS ON 10' TAPERED CONCRETE POLE (TYPE 782-10) AND 8" GLOBE. SEE ELECTRICAL PLANS.
- (21) RELOCATE STREET LIGHT POLE AND REPLACE WITH 150W HPS LAMP. SEE ELECTRICAL PLANS.
- (24) SAWCUT, REMOVE SIDEWALK AND CONSTRUCT 6" PCC OVER 6" AB SIDEWALK CITY OF POMONA STD. PLAN NO. A-5-06.

- [P] PROTECT IN PLACE, ITEM PER PLAN
- [1] SAWCUT AND REMOVE EXISTING CONCRETE WALKWAY
- [2] SAWCUT AND REMOVE EXISTING AC PAVEMENT
- [3] SAWCUT AND REMOVE EXISTING CONCRETE CURB
- [4] REMOVE EXISTING DG PATH

NOTE TO CONTRACTOR:
BE AWARE OF THE PRESENCE OF MACADAM MATERIAL UNDER THE EXISTING AC PAVEMENT SURFACE.

ACCEPTED BY

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

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

CITY OF POMONA
PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

ALLEY IMPROVEMENTS & DETAIL PLANS

N

GRAPHIC SCALE
10 0 10 30
SCALE: 1" = 10'

FOR PLANTING SEE SHEET 16
FOR SIGNING AND STRIPING SEE SHEET 6

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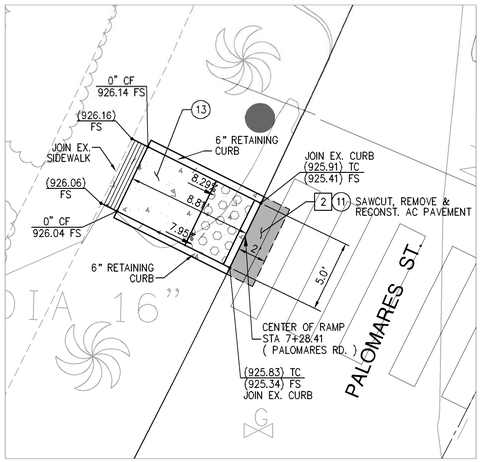
(949) 923-6000 TEL (949) 923-6121 FAX
CARLOS A. PINEDA RCE 38639 DATE

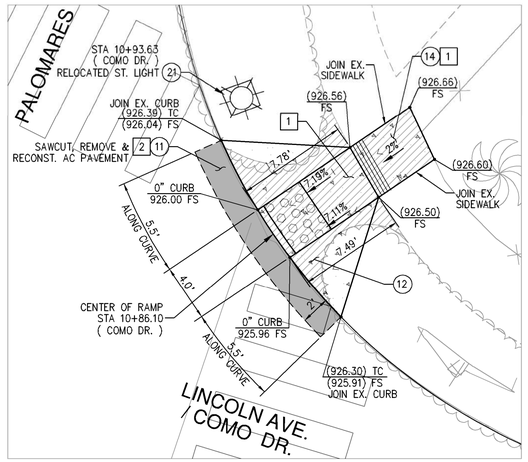
REV	DESCRIPTION	DATE	BY
△	REVISION		

SCALE	DESIGNED: JL	SHT. 3
	DRAWN: JL	OF
	CHECKED: CP	
	REVIEWED:	22 SHTS
AS SHOWN	REVIEWED (CONST.)	

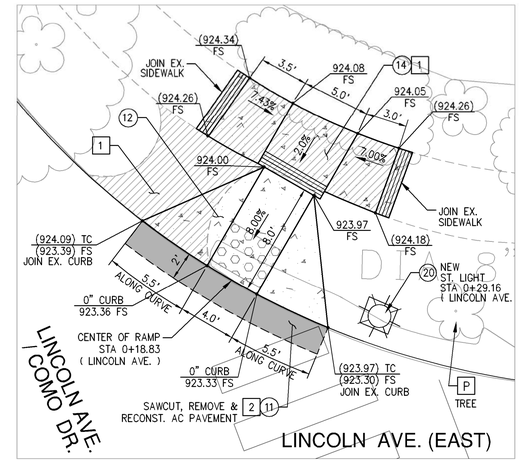
FA-2143C



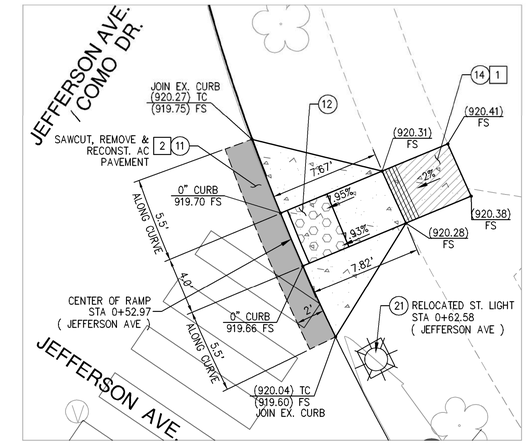
RAMP 'A'
SCALE: 1" = 5'



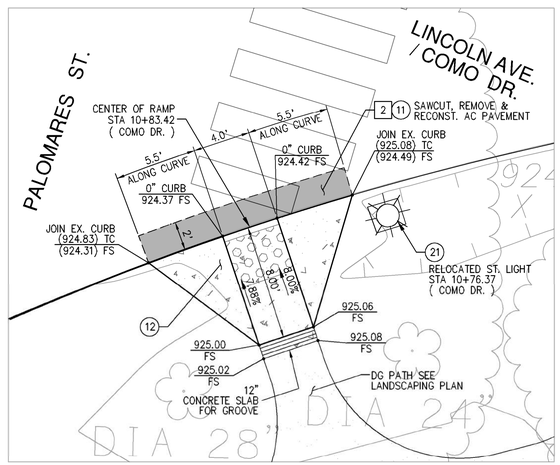
RAMP 'B'
SCALE: 1" = 5'



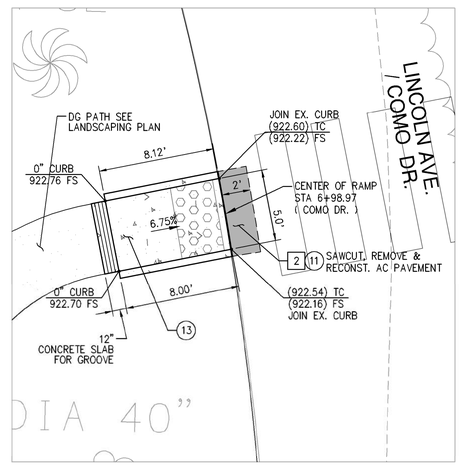
RAMP 'F'



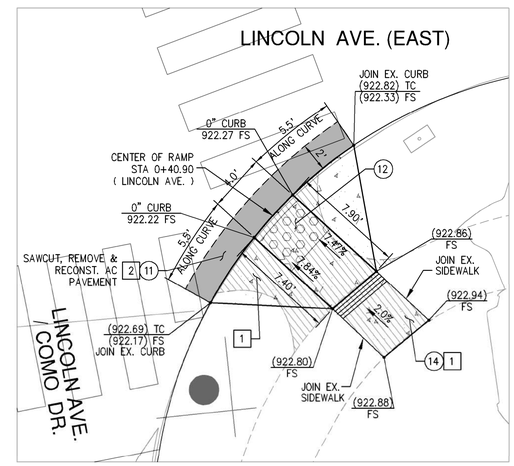
RAMP 'G'
SCALE: 1" = 5'



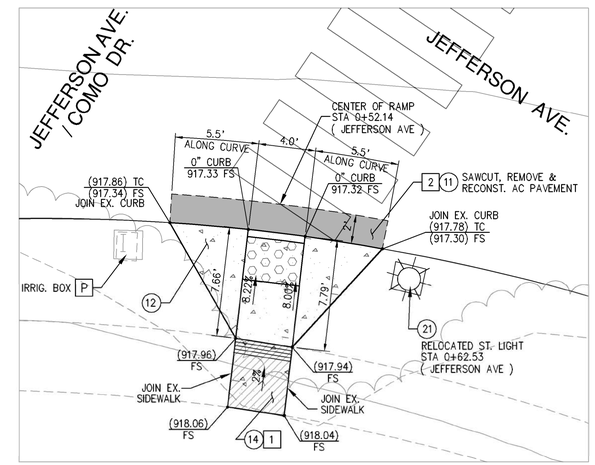
RAMP 'C'
SCALE: 1" = 5'



RAMP 'D'
SCALE: 1" = 5'



RAMP 'E'
SCALE: 1" = 5'



RAMPS 'H'
SCALE: 1" = 5'

LEGEND

● PROPOSED TRAFFIC SIGN. SEE SIGNING AND STRIPING PLAN ON SHEET 6.

CONSTRUCTION NOTES

(11) CONSTRUCT FULL DEPTH AC PAVEMENT.

(12) CONSTRUCT CURB RAMP PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 111-5. (CASE 'A', TYPE '1').

(13) CONSTRUCT CURB RAMP PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 111-5. (CASE 'D', TYPE '1').

(14) CONSTRUCT 4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A-7-02.

(20) FURNISH AND INSTALL 150W HPS LAMP WITH PHOTOELECTRIC CONTROLS ON 10' TAPERED CONCRETE POLE (TYPE 782-10) AND 8" GLOBE. SEE ELECTRICAL PLANS.

(21) RELOCATE STREET LIGHT POLE AND REPLACE WITH 150W HPS LAMP. SEE ELECTRICAL PLANS.

[P] PROTECT IN PLACE, ITEM PER PLAN

[1] SAWCUT AND REMOVE EXISTING CONCRETE WALKWAY

[2] SAWCUT AND REMOVE EXISTING AC PAVEMENT

NEW CONCRETE FOR RAMPS, SIDEWALK, ALLEY INTERSECTION TO MATCH EXISTING ADJACENT CONCRETE IN TEXTURE AND APPEARANCE.

N

GRAPHIC SCALE
5 0 5 15
SCALE: 1" = 5'

NOTE TO CONTRACTOR:
BE AWARE OF THE PRESENCE OF MACADAM MATERIAL UNDER THE EXISTING AC PAVEMENT SURFACE.

ACCEPTED BY

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

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

CITY OF POMONA

PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

CURB RAMP DETAILS

CALL TOLL FREE 811
Know what's below. Call two working before you dig.
Underground Service Alert

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIGALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIGALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE TWO WORKING DAYS BEFORE YOU DIG.

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

REGISTERED PROFESSIONAL ENGINEER
CARLOS A. PINEDA
No. C38639
Exp. 03/31/19
STATE OF CALIFORNIA

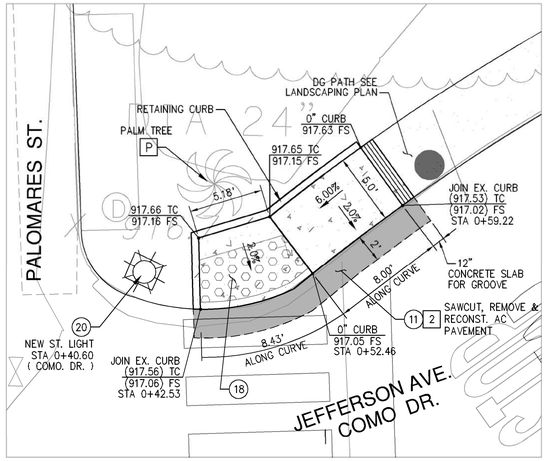
PLANS PREPARED BY:
Stantec
38 TECHNOLOGY DR. #100
IRVINE, CA 92618
(949) 923-6000 TEL
(949) 923-6121 FAX
CARLOS A. PINEDA RCE 38639 DATE

REV	REVISION	DATE	BY
△			
△			
△			
△			
△			
△			
△			

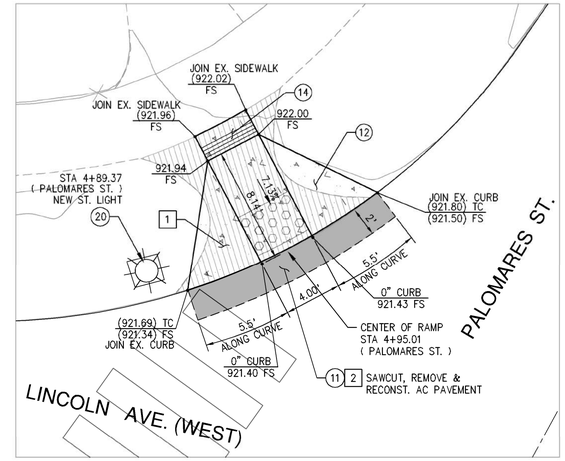
SCALE			
AS SHOWN	DESIGNED: JL DRAWN: JL CHECKED: CP REVIEWED: REVIEWED (CONST.)	SHT. 4 OF 22 SHTS	

FA-2143D

NEW CONCRETE FOR RAMPS, SIDEWALK, ALLEY INTERSECTION TO MATCH EXISTING ADJACENT CONCRETE IN TEXTURE AND APPEARANCE.



RAMP 'L'
SCALE: 1" = 5'



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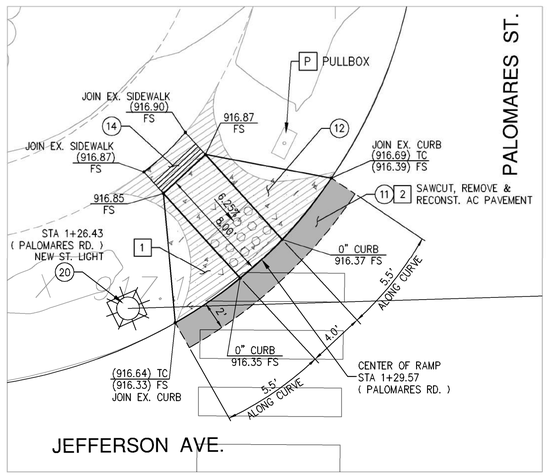
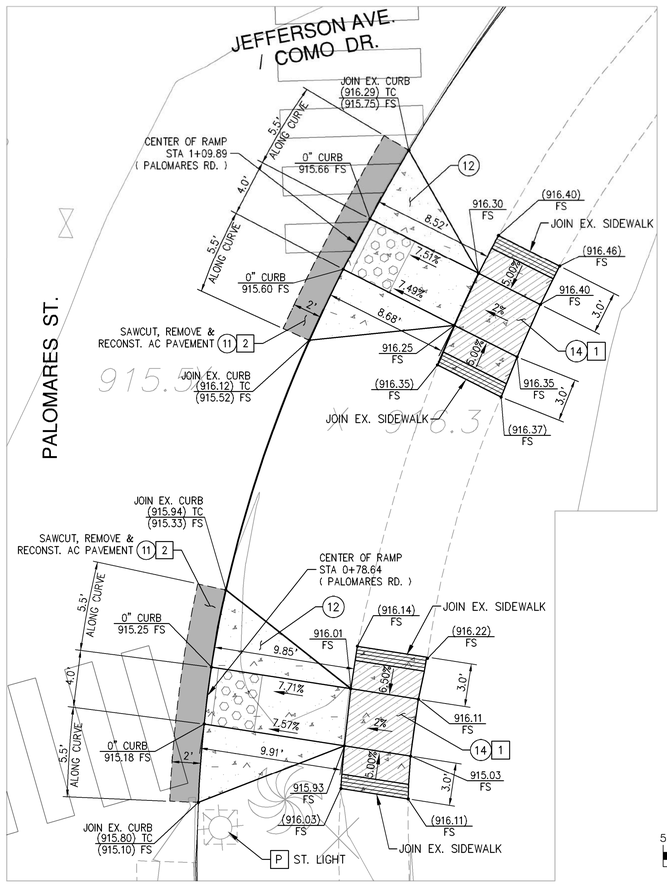
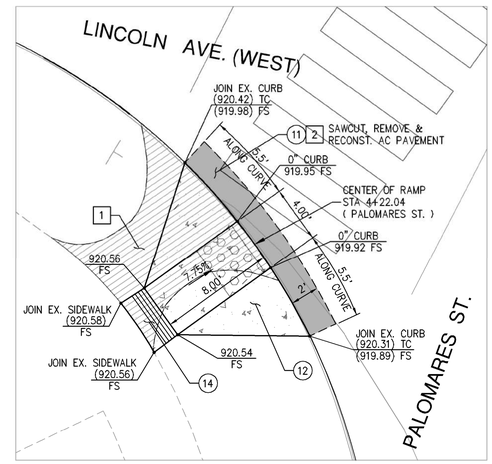
SCALE: 1" = 5'



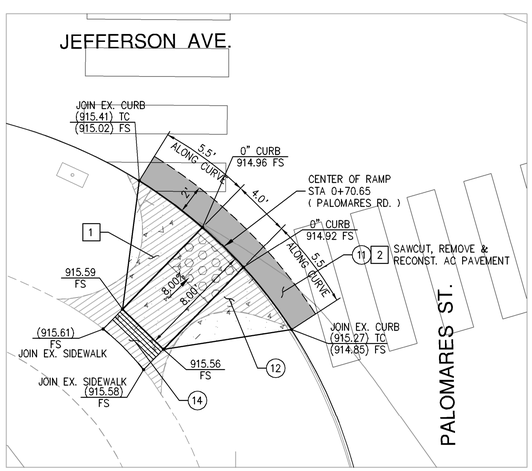
RAMPS 'J'
SCALE: 1" = 5'



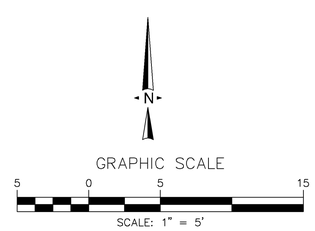
RAMPS 'M' & 'N'
SCALE: 1" = 5'



RAMP 'Q'
SCALE: 1" = 5'



RAMP 'K'
SCALE: 1" = 5'



LEGEND

● PROPOSED TRAFFIC SIGN. SEE SIGNING AND STRIPING PLAN ON SHEET 6.

CONSTRUCTION NOTES

(11) CONSTRUCT FULL DEPTH AC PAVEMENT.

(12) CONSTRUCT CURB RAMP PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 111-5. (CASE 'A', TYPE '1').

(18) CONSTRUCT CURB RAMP PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 111-5. (CASE 'B', TYPE '1').

(14) CONSTRUCT 4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A-7-02.

(20) FURNISH AND INSTALL 150W HPS LAMP WITH PHOTOELECTRIC CONTROLS ON 10' TAPERED CONCRETE POLE (TYPE 782-10) AND 8" GLOBE. SEE ELECTRICAL PLANS.

(21) RELOCATE STREET LIGHT POLE AND REPLACE WITH 150W HPS LAMP. SEE ELECTRICAL PLANS.

[P] PROTECT IN PLACE, ITEM PER PLAN

[1] SAWCUT AND REMOVE EXISTING CONCRETE WALKWAY

[2] SAWCUT AND REMOVE EXISTING AC PAVEMENT

NOTE TO CONTRACTOR:
BE AWARE OF THE PRESENCE OF MACADAM MATERIAL UNDER THE EXISTING AC PAVEMENT SURFACE.

ACCEPTED BY

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

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

CITY OF POMONA
PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

CURB RAMP DETAILS

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REGISTERED PROFESSIONAL ENGINEER CARLOS A. PINEDA No. C38639 Exp. 03/31/19 STATE OF CALIFORNIA

PLANS PREPARED BY:
Stantec
38 TECHNOLOGY DR. #100 IRVINE, CA 92618
(949) 923-6000 TEL (949) 923-6121 FAX
CARLOS A. PINEDA RCE 38639 DATE

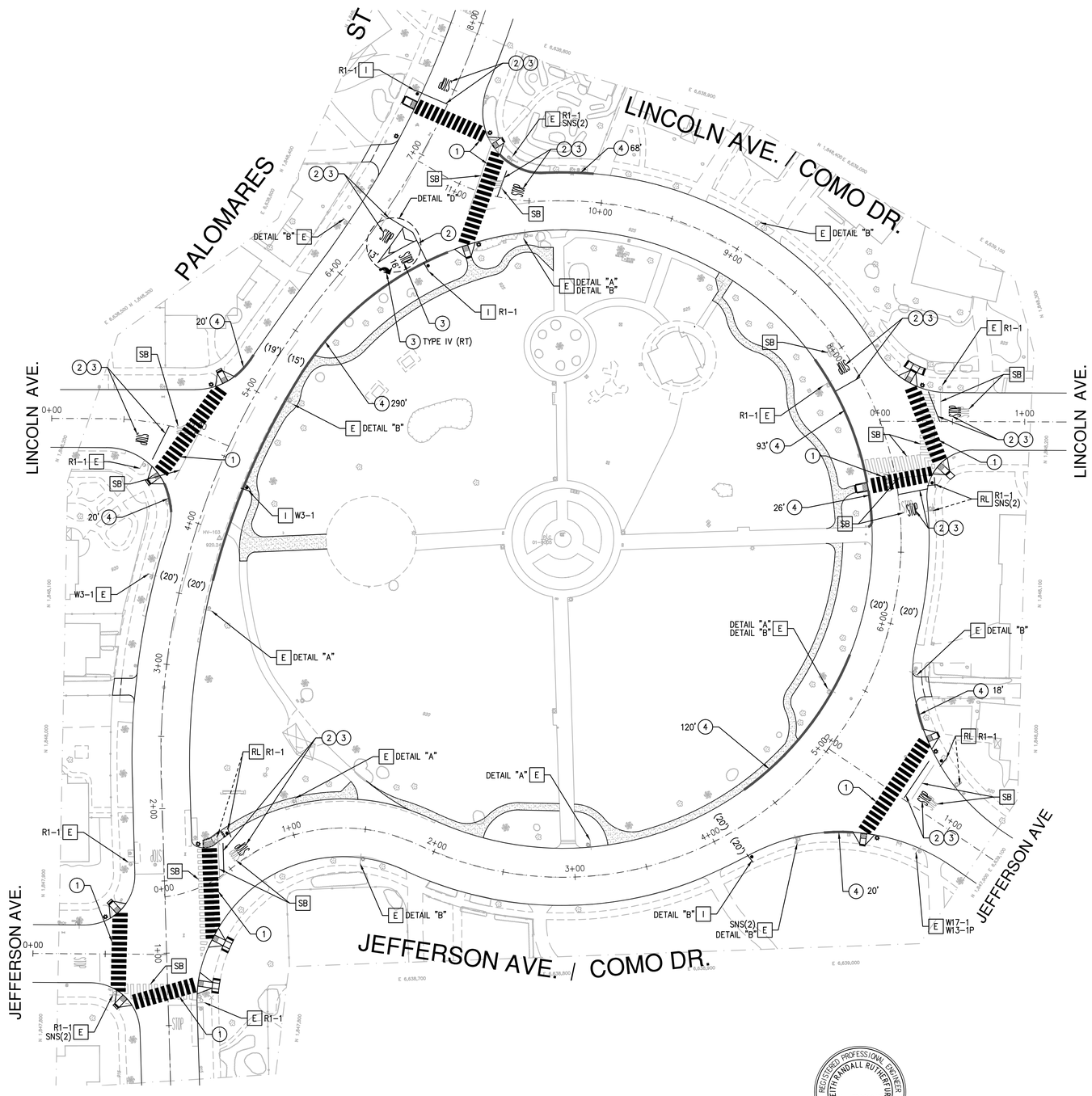
REV	DESCRIPTION	DATE	BY
△	REVISION		
△			
△			
△			
△			
△			

SCALE: AS SHOWN

DESIGNED: JL
DRAWN: JL
CHECKED: CP
REVIEWED:
REVIEWED (CONST.)

SHT. 5 OF 22 SHTS

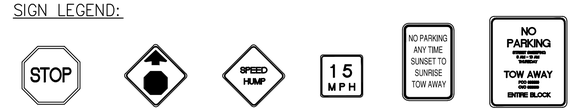
FA-2143E



SIGNING & STRIPING GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE 2014 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARDS PLANS AND SPECIFICATIONS (2015 EDITION), AND SPECIAL PROVISIONS, AND ALL ADDENDUM THERETO.
2. ALL PAVEMENT STRIPING, MARKINGS AND LEGENDS SHALL BE THERMOPLASTIC (MINIMUM 0.15" THICK) UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE AND INSTALL RAISED PAVEMENT MARKERS FOR ALL STRIPING. STRIPING, MARKINGS, AND LEGENDS SHALL CONFORM TO THE LATEST CALTRANS STANDARD PLANS A20A THRU A20D AND A24D THRU A24F.
3. EXISTING STRIPING AND PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH PROPOSED STRIPING AND PAVEMENT MARKINGS SHALL BE REMOVED BY WEST SAND BLASTING OR GRINDING AND DISPOSED OF PER SECTIONS 15-2.02 (B&C) AND 15-2.03 OF THE STATE STANDARD SPECIFICATIONS. BLACK OUT IS NOT PERMITTED. ALL DAMAGED PAVEMENT DU TO REMOVALS SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A SMOOTH AND UNIFORM SURFACE OR AS DIRECTED BY CITY ENGINEER.
4. TEMPORARY STRIPING, MARKINGS AND TABS SHALL BE APPLIED ON STREET WITH PAVEMENT SURFACE COURSE REPLACEMENTS PRIOR TO OPENING STREET TO THE PUBLIC. IN NO CASE SHALL A NEWLY (BASED OR FINAL) PAVED STREET OPEN TO THE PUBLIC BE LEFT UNSTRIPED OVERNIGHT. PERMEANT STRIPING & MARKING SHALL BE INSTALLED WITHIN SEVEN (7) CALENDAR DAYS AFTER INSTALLING THE FINAL PAVEMENT SURFACE.
5. ALL TEMPORARY PAVEMENT MARKERS/TABS SHALL BE REMOVED AT THE CONCLUSION OF THE PROJECT.
6. ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE CAT-TRACKED AND APPROVED BY THE CITY TRAFFIC ENGINEER OR AUTHORIZED REPRESENTATIVE PRIOR TO FINAL INSTALLATION.
7. PRIOR TO FINAL ACCEPTANCE OF STREET IMPROVEMENTS, ALL PAVEMENT STRIPING AND STENCILING WITHIN THE PERIMETER OF THE CONSTRUCTION AREA SHALL BE RESTORED TO LIKE NEW CONDITION, IN MANNER MEETING THE APPROVAL OF THE CITY ENGINEER.
8. THE CONTRACTOR SHALL RESTRIPE EXISTING AND CURB MARKINGS OBLITERATED BY NEW CONSTRUCTION WHETHER OR NOT SHOWN ON PLANS AT NO COST TO THE CITY.
9. ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED.
10. CLEARANCE FROM THE FINISHED GRADE TO THE BASE OF ALL SIGNS SHALL BE 7 FEET MINIMUM.
11. ALL SIGNS SHALL MEET THE 2014 CA MUTCD REQUIREMENTS AND SHALL HAVE 3M DIAMOND GRADE REFLECTIVE SHEETING (OR APPROVED EQUAL) AND 3M 1160 ANTI-GRAFFITI FILM (OR APPROVED EQUAL).
12. TRAFFIC SIGNAL LOOPS SHALL BE INSTALLED AND FUNCTIONAL WITHIN FIVE (5) CALENDAR DAYS OF INSTALLING FINAL PAVEMENT SURFACE.
13. THE CONTRACTOR SHALL FURNISH AND INSTALL TYPE D 2-WAY BLUE REFLECTIVE PAVEMENT MARKERS AT ALL FIRE HYDRANTS WITHIN THE PROJECT LIMITS PER THE 2014 CA MUTCD.

SIGN LEGEND:

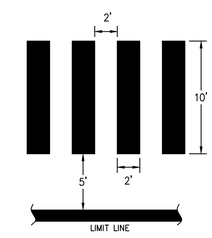


R1-1 W3-1 W17-1 W13-1P DETAIL "A" DETAIL "B"

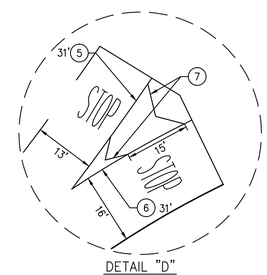
CONSTRUCTION NOTES

1. INSTALL HIGH-VISIBILITY CONTINENTAL CROSSWALK PER CALTRANS STD. PLAN A24F WITH WHITE THERMOPLASTIC MATERIAL, SEE DETAIL "C".
2. INSTALL 12" LIMIT LINE WITH WHITE THERMOPLASTIC MATERIAL.
3. INSTALL PAVEMENT LEGEND INDICATED PER CALTRANS STD. PLAN A24D WITH WHITE THERMOPLASTIC MATERIAL.
4. PAINT RED CURB PER LENGTH SPECIFIED ON PLAN.
5. INSTALL THERMOPLASTIC 8" SOLID WHITE LINE PER CALTRANS STD. PLAN A20D, DETAIL 38.
6. INSTALL THERMOPLASTIC 8" SOLID WHITE LINE PER CALTRANS STD. PLAN A20D, DETAIL 38A.
7. INSTALL THERMOPLASTIC 8" SOLID WHITE CHEVRONS AT 15' SPACING.

E EXISTING SIGN OF TYPE INDICATED TO REMAIN IN PLACE.
I INSTALL SIGN OF TYPE INDICATED ON NEW POST AS INDICATED.
RL RELOCATE SIGN OF TYPE INDICATED.
SB REMOVE EXISTING PAVEMENT MARKING OR STRIPING BY SANDBLASTING AND REMOVE RAISED PAVEMENT MARKERS, IF ANY.



DETAIL "C"
CROSSWALK TYP. DIMENSIONS
NO SCALE



DETAIL "D"
CHEVRON LAYOUT DETAIL
NO SCALE

REGISTERED PROFESSIONAL ENGINEER KEITH RANDALL RUTHERFORD No. TR001647 TRAFFIC STATE OF CALIFORNIA

N

GRAPHIC SCALE
40 0 40 120
SCALE: 1" = 40'

CALL TOLL FREE 811 Know what's below. Call two working before you dig. Underground Service Alert

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REGISTERED PROFESSIONAL ENGINEER CARLOS A. PINEDA No. C38639 Exp. 03/31/19 STATE OF CALIFORNIA

PLANS PREPARED BY:
Stantec
38 TECHNOLOGY DR. #100 (949) 923-6000 TEL
IRVINE, CA 92618 (949) 923-6121 FAX
CARLOS A. PINEDA RCE 38639 DATE

REV	DESCRIPTION	DATE	BY
	REVISION		

ACCEPTED BY
BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

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

CITY OF POMONA
PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

SIGNING & STRIPING PLAN

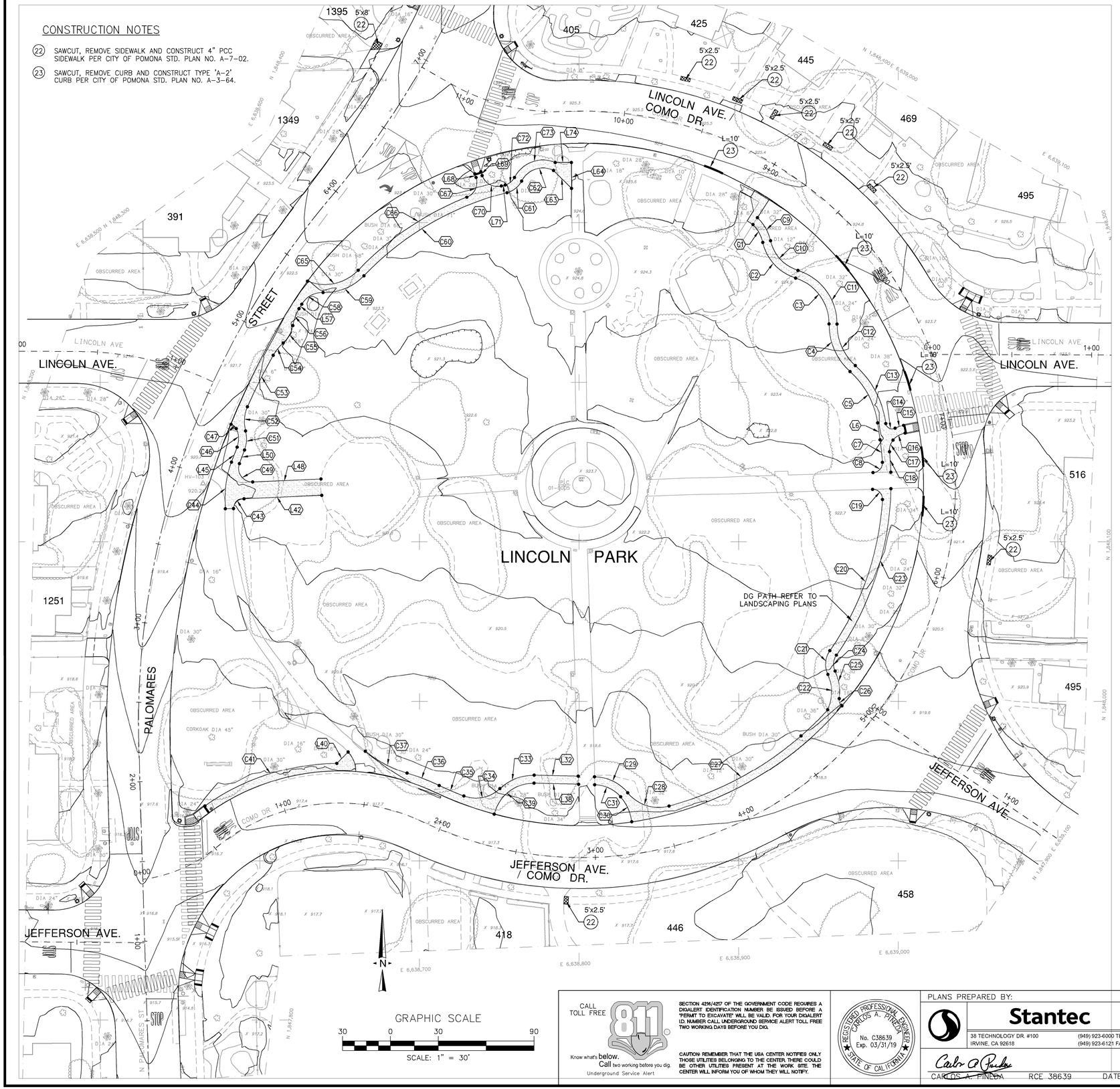
SCALE: AS SHOWN
DESIGNED: JDP
DRAWN: JDP
CHECKED: KRR
REVIEWED:
REVIEWED (CONST.)
SHT. 6 OF 22 SHTS

FJ-178A

CONSTRUCTION NOTES

(22) SAWCUT, REMOVE SIDEWALK AND CONSTRUCT 4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A-7-02.

(23) SAWCUT, REMOVE CURB AND CONSTRUCT TYPE 'A-2' CURB PER CITY OF POMONA STD. PLAN NO. A-3-64.



DG ALIGNMENT TABLE

	LENGTH	RADIUS	DELTA OR BEARING	TANGENT
C1	12.93	22.67	32°40'30"	6.65
C2	31.85	30.07	60°40'43"	17.60
C3	38.20	29.61	73°55'34"	22.28
C4	33.62	38.96	49°26'46"	17.94
C5	37.21	52.76	40°24'30"	19.42
L6	10.81		S 8°06'59" E	
C7	14.19	185.00	4°23'38"	7.10
C8	9.71	6.00	92°42'10"	6.29
C9	16.84	27.67	34°52'39"	8.69
C10	26.56	25.07	60°40'43"	14.68
C11	44.65	34.61	73°55'34"	26.04
C12	29.31	33.96	49°26'46"	15.64
C13	41.85	57.76	41°30'54"	21.89
C14	7.77	4.00	111°21'40"	5.86
C15	5.64	17.26	18°42'59"	2.84
C16	8.96	12.26	41°53'33"	4.69
C17	7.80	10.00	44°40'28"	4.11
C18	12.83	190.00	3°52'06"	6.42

	LENGTH	RADIUS	DELTA OR BEARING	TANGENT
C19	9.98	6.00	95°15'32"	6.58
C20	101.52	185.00	31°26'26"	52.07
C21	15.75	15.00	60°09'09"	8.69
C22	23.31	25.56	52°14'55"	12.54
C23	111.35	190.00	33°34'46"	57.33
C24	10.50	10.00	60°09'09"	5.79
C25	17.69	30.56	33°10'03"	9.10
C26	5.05	5.00	57°49'57"	2.76
C27	94.49	209.00	25°54'10"	48.06
C28	28.73	25.00	65°50'21"	16.19
C29	23.83	27.31	49°59'53"	12.73
C30	17.36	28.31	35°08'01"	8.96
C31	18.43	22.31	47°20'33"	9.78

	LENGTH	RADIUS	DELTA OR BEARING	TANGENT
L32	27.58		S 88°41'13" E	
C33	23.71	30.00	45°16'50"	12.51
C34	24.28	21.50	64°42'04"	13.62
C35	16.78	209.00	4°36'04"	8.40
C36	21.62	146.00	8°28'59"	10.83
C37	29.87	77.50	22°04'53"	15.12
L38	27.58		S 88°41'13" E	
C39	34.19	25.00	78°20'57"	20.37
L40	10.05		S 45°00'00" W	
C41	88.15	146.00	34°35'42"	45.47

	LENGTH	RADIUS	DELTA OR BEARING	TANGENT
L42	49.56		N 87°30'21" E	
C43	9.31	6.00	88°52'00"	5.88
C44	23.86	62.00	22°02'52"	12.08
L45	10.02		N 20°45'46" E	
C46	11.89	14.50	47°00'01"	6.30
C47	4.63	5.50	48°11'02"	2.46
L48	42.85		N 87°30'21" E	
C49	16.80	8.50	113°15'12"	12.90
L50	9.11		N 20°45'46" E	
C51	12.12	19.50	35°35'57"	6.26
C52	15.61	23.25	38°27'38"	8.11
C53	36.05	339.59	6°04'56"	18.04
C54	9.91	30.00	18°55'38"	5.00
C55	12.74	18.50	39°28'15"	6.64
C56	11.40	30.00	21°46'36"	5.77
L57	3.33		S 30°56'23" W	
C58	15.94	15.00	60°53'11"	8.82
C59	28.49	34.00	48°00'15"	15.14
C60	105.14	188.00	32°02'36"	53.99
C61	11.98	14.00	49°02'31"	6.39
C62	23.40	15.00	89°22'12"	14.84
L63	15.93		N 45°00'00" W	
L64	16.23		S 00°23'36" E	
C65	34.48	29.00	68°07'14"	19.61
C66	82.66	193.00	24°32'17"	41.97
C67	15.16	10.00	86°49'55"	9.46
L68	2.39		N 18°28'20" W	
L69	2.48		N 18°28'20" W	
C70	15.08	10.00	86°23'25"	9.39
C71	2.45	193.00	00°43'39"	1.23
C72	7.70	9.00	49°02'31"	4.11
C73	29.98	20.00	85°53'32"	18.62
L74	10.05		N 89°51'04" W	

NOTE: VERIFY ALL SEGMENTS ADJACENT TO THE EXISTING CURB. TO PROVIDE 5-FOOT WIDE DG PATH PER SECTION IN LANDSCAPING PLAN, FIELD ADJUSTMENT MAY BE REQUIRED.

NEW CONCRETE FOR RAMPS, SIDEWALK, ALLEY INTERSECTION TO MATCH EXISTING ADJACENT CONCRETE IN TEXTURE AND APPEARANCE.

NOTE TO CONTRACTOR:
BE AWARE OF THE PRESENCE OF MACADAM MATERIAL UNDER THE EXISTING AC PAVEMENT SURFACE.

ACCEPTED BY

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

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

CITY OF POMONA

PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

SIDEWALK & CURB REPAIR AND DG PATH HORIZONTAL CONTROL

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

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIGALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIGALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE TWO WORKING DAYS BEFORE YOU DIG.

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

REGISTERED PROFESSIONAL ENGINEER CARLOS A. PINEDA No. C38639 Exp. 03/31/19 STATE OF CALIFORNIA

PLANS PREPARED BY:
Stantec
38 TECHNOLOGY DR. #100 IRVINE, CA 92618
(949) 923-6000 TEL (949) 923-6121 FAX
CARLOS A. PINEDA RCE 38639 DATE

REV	DESCRIPTION	DATE	BY
	REVISION		

SCALE: AS SHOWN

DESIGNED: JL
DRAWN: JL
CHECKED: CP
REVIEWED:
REVIEWED (CONST.)

SHT. 7 OF 22 SHTS

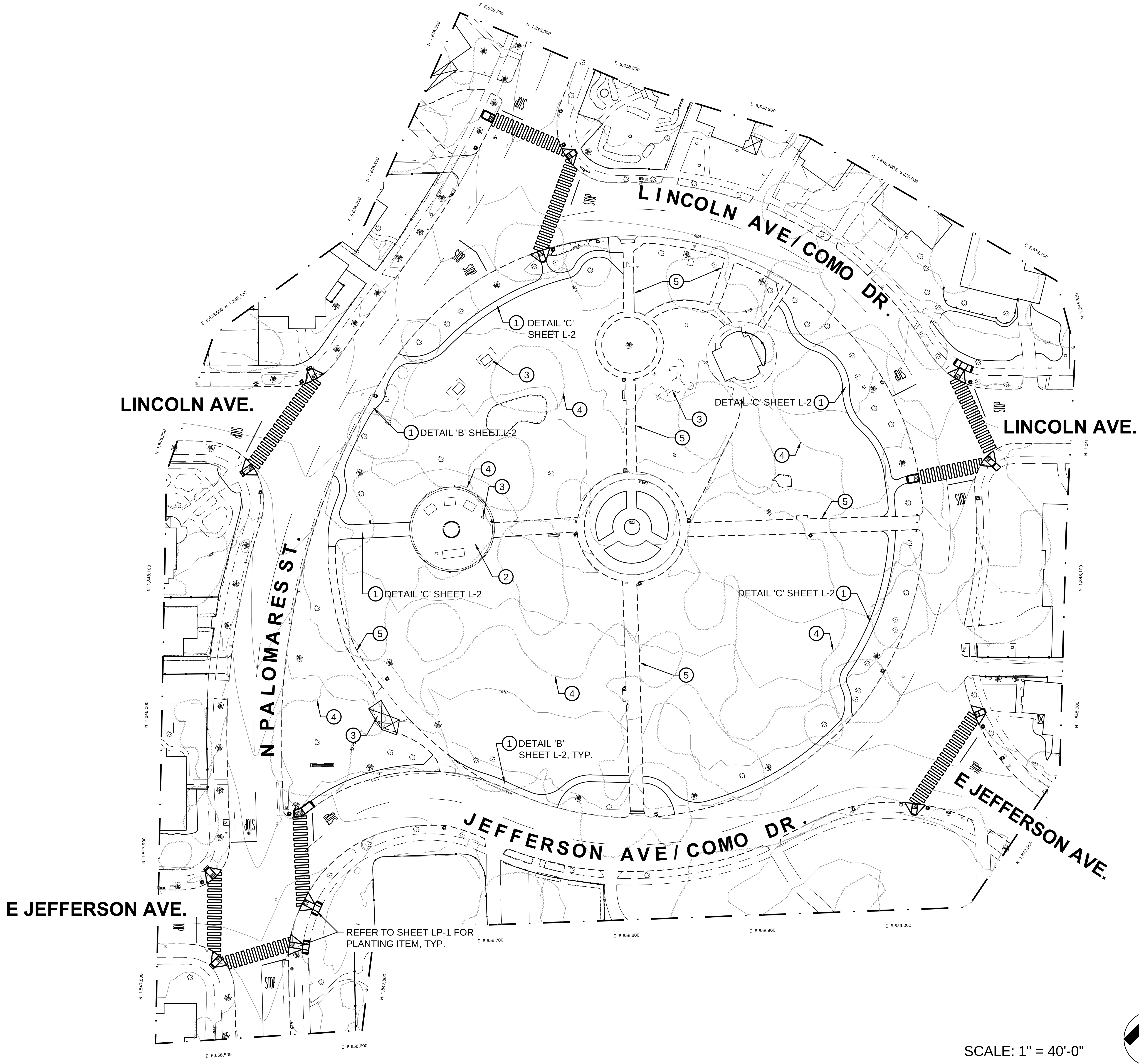
FA-2143F

CONSTRUCTION LEGEND

1. 4" THICK DECOMPOSED GRANITE PATH. REFER TO DETAIL 'B' & 'C', SHEET 9
2. PLAZA REFER TO DETAIL 'E' SHEET 9 FOR ENLARGEMENT DETAIL
3. UNLESS OTHERWISE NOTED, ALL EXISTING SITE AMENITIES SHALL REMAIN AND BE PROTECTED
4. UNLESS OTHERWISE NOTED, EXISTING PLANT MATERIAL, SHOWN OR NOT SHOWN, SHALL REMAIN AND BE PROTECTED
5. BASE BID:
   UNLESS OTHERWISE NOTED, EXISTING D.G. PATH SHALL REMAIN AND BE PROTECTED.

   VERTICAL CONTROL: TOP OF CURB SHALL MATCH (FLUSH) WITH EXISTING ADJACENT FINISH SURFACE. CONTRACTOR SHALL INTERPOLATE GRADES IN 5' REACHES, OR AS DIRECTED IN FIELD, BY ENGINEER, TO BEST FIT WITH EXISTING AND INTENT OF PROPOSED TO MAINTAIN POSITIVE DRAINAGE.

   ALTERNATE BID OPTION:
   CONTRACTOR SHALL REMOVE AND REPLACE EXISTING D.G. WITH NEW D.G. WHERE NOTED WITHIN THE EXISTING PATHWAYS. EXISTING CONCRETE MOWSTRIPS SHALL REMAIN AND BE PROTECTED. CONTRACTOR SHALL INCLUDE IN THEIR BID. THE GRADING AND CONSTRUCTION OF NEW D.G. WITH WEED FABRIC PER D.G. DETAILS HEREIN. REFRENCE DETAIL 'C', SHEET L-2. CONTRACTOR BID SHALL INCLUDE HAULING AWAY EXISTING D.G. TO A DUMP SITE IN A LEGAL MANNER.



NOTE

TREE EXPERT SHALL OVERSEE ALL CONSTRUCTION PHASES OF THE PLAZA AREA (INLAND URBAN FOREST GROUP).

SCALE: 1" = 40'-0"

0' 40' 80' 160'

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

FOR UNDERGROUND SERVICE ALERT CALL:
811

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

REGISTERED LANDSCAPE ARCHITECT
ROBERT W. STONE No. 1891
Signature
SEPTEMBER 30, 2019
Expiration Date
02/19/2018
Date
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

02/19/2018

ROBERT STONE RLA 1891 DATE

NŪVIS LANDSCAPE ARCHITECTURE

△	REVISIONS	DATE	INITIAL

ACCEPTED

BY: ______________________ DATE: __________
PUBLIC WORKS DIRECTOR

RECOMMENDED

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

CITY OF POMONA

PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENT

CONSTRUCTION PLAN

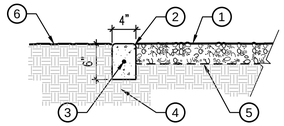
DESIGNED:	TM	SHT. 8
DRAWN:	DL	OF
CHECKED:	TM	
REVIEWED:	RS	22 SHTS

Z:\DWG\16217-01 Lincoln Park, City of Pomona\NUVIS\CD\SHEETS\16217-01_LCP.dwg 2/19/18 09:24

FO-195A

NOTES:
1. EXPANSION JOINTS @ 4' O.C. MAX.
2. CONCRETE MOWSTRIP COLOR SHALL BE NATURAL COLOR W/ LIGHT BROOM FINISH TEXTURE.
3. UNLESS OTHERWISE NOTED, NEW FINISH SURFACE OF MOWSTRIP SHALL BE FLUSH W/ ADJACENT EXISTING OR PROPOSED PAVING SURFACES.
4. FINISH GRADE: 2" BELOW FINISH SURFACE OF MOWSTRIP IN PLANTING AREAS.
5. DECOMPOSED GRANITE SHALL BE FLUSH W/ TOP OF CURBS & MOWSTRIPS.

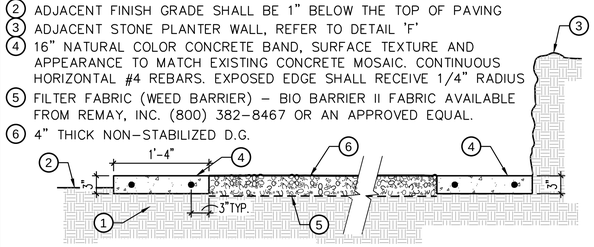
1. DECOMPOSED GRANITE (D.G.) REFER TO DETAIL 'B' AND 'C'
2. CONCRETE MOWSTRIP 1/2" RADIUS ON EXPOSED EDGES
3. #4 REBAR, CONTINUOUS 2" CLEAR
4. UNDISTURBED NATIVE GRADE OR CERTIFIED COMPACTED BACKFILL TO SCARIFY AND COMPACT SUBGRADE TO 95%
5. FILTER FABRIC (WEED BARRIER) – BIO BARRIER II FABRIC AVAILABLE FROM REMAY, INC. (800)382-8467 OR AN APPROVED EQUAL
6. FINISH GRADE



A CONCRETE MOWSTRIP
SCALE: NTS

NOTES:
1. UNLESS OTHERWISE NOTED, NEW FINISH SURFACE SHALL BE FLUSH WITH ADJACENT EXISTING SURFACES & STRUCTURES.
2. FOR ADDITIONAL INFORMATION REFER TO CONSTRUCTION NOTES.
3. DECOMPOSED GRANITE PATHWAY MATERIAL SHALL BE: CALIFORNIA GOLD. REFER TO DETAIL 'B' & 'C' FOR AVAILABILITY.
4. DECOMPOSED GRANITE SHALL BE FLUSH W/ TOP OF CURBS AND MOWSTRIPS.
5. REFER TO CIVIL PLANS FOR FINISH GRADES.
6. REFER TO GENERAL CONSTRUCTION NOTES HEREON

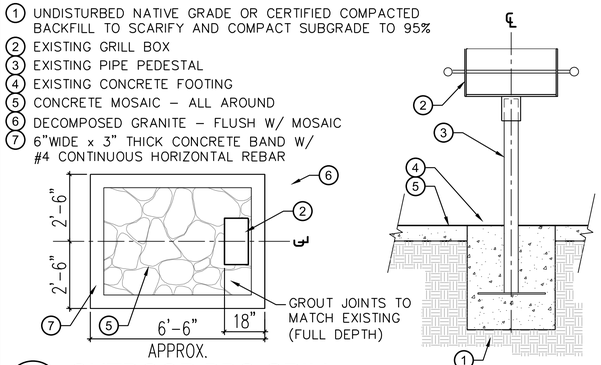
1. UNDISTURBED NATIVE GRADE OR CERTIFIED COMPACTED BACKFILL TO SCARIFY AND COMPACT SUBGRADE TO 95%
2. ADJACENT FINISH GRADE SHALL BE 1" BELOW THE TOP OF PAVING
3. ADJACENT STONE PLANTER WALL, REFER TO DETAIL 'F'
4. 16" NATURAL COLOR CONCRETE BAND, SURFACE TEXTURE AND APPEARANCE TO MATCH EXISTING CONCRETE MOSAIC. CONTINUOUS HORIZONTAL #4 REBARS. EXPOSED EDGE SHALL RECEIVE 1/4" RADIUS
5. FILTER FABRIC (WEED BARRIER) – BIO BARRIER II FABRIC AVAILABLE FROM REMAY, INC. (800) 382-8467 OR AN APPROVED EQUAL.
6. 4" THICK NON-STABILIZED D.G.



D PLAZA D.G. SURFACING
SCALE: NTS

NOTES:
1. BBQ GRILL IS EXISTING AND SHALL REMAIN AND BE PROTECTED IN-PLACE
2. CONTRACTOR SHALL REUSE, REMOVE, REPLACE, CUT, AND SHAPE, EXISTING CONCRETE MOSAIC TO FIT AND USE FOR NEW (REBUILT) MOSAIC.

1. UNDISTURBED NATIVE GRADE OR CERTIFIED COMPACTED BACKFILL TO SCARIFY AND COMPACT SUBGRADE TO 95%
2. EXISTING GRILL BOX
3. EXISTING PIPE PEDESTAL
4. EXISTING CONCRETE FOOTING
5. CONCRETE MOSAIC – ALL AROUND
6. DECOMPOSED GRANITE – FLUSH W/ MOSAIC
7. 6"WIDE x 3" THICK CONCRETE BAND W/ #4 CONTINUOUS HORIZONTAL REBAR



G OUTDOOR BBQ GRILL
SCALE: NTS

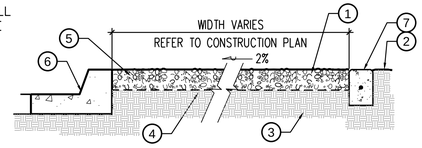
GENERAL CONSTRUCTION NOTES

1. REFER TO SHEET 17, TREE PRESERVATION NOTES & SPECS, FOR PROTECTION OF ALL EXISTING TREES.
2. CONTRACTOR SHALL INSURE THE PROTECTION OF ALL EXISTING PLANT MATERIAL & SHALL BE THOROUGHLY ACQUAINTED WITH THE TREE PRESERVATION REQUIREMENTS PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL ORGANIZE AND COORDINATE WITH THE ENGINEER, PRIOR TO CONSTRUCTION, REGARDING A SITE MEETING TO DISCUSS THE EXISTING PLAZA OAK TREE.
4. CONTRACTOR SHALL RETAIN, EMPLOY, AND FOLLOW ALL RECOMMENDATIONS OF FREDERICK M. HUESTON. MR. HUESTON AVAILABLE AT www.stoneforensics.com (321)574-6845.
5. CONTRACTOR SHALL ONLY HAVE MASON WORK ON PLANTER WALL WHO HAS CERTIFICATION OF TRAINING IN HISTORICAL RESTORATION AND PRESERVATION. TRAINING FROM www.stoneforensic.com OR APPROVED EQUAL. HMCP HISTORIC MASONRY CERTIFICATION PROGRAM, NATIONAL REGISTER OF HISTORIC PLACES STANDARDS FOR REHABILITATION SHALL BE MET BY CONTRACTOR. ALSO SEE IMTEF HISTORIC MASONRY PRESERVATION CERTIFICATE.

**TREE EXPERT SHALL OVERSEE ALL CONSTRUCTION PHASE OF THE PLAZA AREA (INLAND URBAN FOREST GROUP).

NOTES:
1. STABILIZED DECOMPOSED GRANITE PATHWAY MATERIAL SHALL BE: CALIFORNIA GOLD.
2. DECOMPOSED GRANITE (D.G.) SHALL BE COMPACTED IN 2" LIFTS AND STABILIZED WITH DECORATIVE STONE SOLUTIONS STABILIZING BINDER.
3. DECOMPOSED GRANITE SHALL BE FLUSH W/ TOP OF CURBS, MOWSTRIPS, AND SURFACES.
4. REFER TO CIVIL PLANS FOR PATHWAY D.G. LOCATION.
5. REFER TO CIVIL PLANS FOR FINISH GRADES.

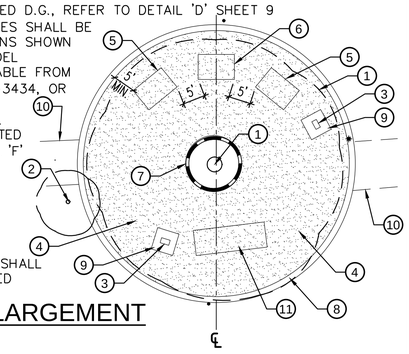
1. 4" THICK STABILIZED PATHWAY DECOMPOSED GRANITE (D.G) FLUSH WITH MOWSTRIP AND CURB. GRANITE MATERIALS AVAILABEL FROM DECORATIVE STONE SOLUTIONS, INC. (800) 699-1878 OR AN APPROVED EQUAL. SEE NOTES ABOVE
2. FINISH GRADE
3. UNDISTURBED NATIVE GRADE OR CERTIFIED COMPACTED SUBGRADE PER GEOTECHNICAL REPORT
4. FILTER FABRIC (WEED BARRIER) – BIO BARRIER II FABRIC AVAILABLE FROM REMAY, INC. (800) 382-8467 OR AN APPROVED EQUAL
5. MIN. 2% SLOPE ON ALL DECOMPOSED GRANITE SURFACES
6. CONCRETE CURB, REFER TO CIVIL PLAN
7. MOWSTRIP, REFER TO DETAIL 'A'



B DECOMPOSED GRANITE
SCALE: NTS

NOTES:
1. REFER TO CIVIL SHEETS 3 FOR PLAZA ELEVATIONS.
2. CONTRACTOR SHALL REUSE, REMOVE, REPLACE, CUT, AND SHAPE, EXISTING CONCRETE MOSAIC TO FIT AND USE FOR NEW (REBUILT) MOSAIC.

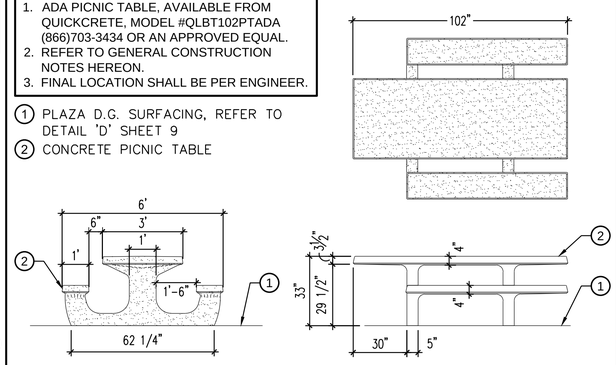
1. EXISTING OAK TREE SHALL REMAIN & BE PROTECTED
2. EXISTING TREE SHALL REMAIN & BE PROTECTED
3. EXISTING BBQ'S SHALL REMAIN & BE PROTECTED – DETAIL 'G', SHEET 9
4. 4" THICK NON-STABILIZED D.G., REFER TO DETAIL 'D' SHEET 9
5. 2 EXISTING PICNIC TABLES SHALL BE RELOCATED TO LOCATIONS SHOWN
6. ADA PICNIC TABLE, MODEL #QLBT102PTADA, AVAILABLE FROM QUICKCRETE. (866)703-3434, OR AN APPROVED EQUAL
7. EXISTING PLANTER WALL SHALL REMAIN, PROTECTED & BE REPAIRED. DETAIL 'F' SHEET 9
8. 16"CONCRETE BANDING, DETAIL 'D' SHEET 9
9. CONCRETE MOSAIC PAD
10. EXISTING D.G. PAVING, REFER TO CIVIL PLANS
11. EXISTING PICNIC TABLE SHALL REMAIN & BE PROTECTED



E PLAZA ENLARGEMENT
SCALE: 1/16"=1'-0"

NOTES:
1. ADA PICNIC TABLE, AVAILABLE FROM QUICKCRETE, MODEL #QLBT102PTADA (866)703-3434 OR AN APPROVED EQUAL.
2. REFER TO GENERAL CONSTRUCTION NOTES HEREON.
3. FINAL LOCATION SHALL BE PER ENGINEER.

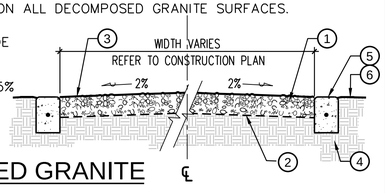
1. PLAZA D.G. SURFACING, REFER TO DETAIL 'D' SHEET 9
2. CONCRETE PICNIC TABLE



H ADA PICNIC TABLE
SCALE: 3/8"=1'-0"

NOTES:
1. STABILIZED DECOMPOSED GRANITE PATHWAY MATERIAL SHALL BE CALIFORNIA GOLD.
2. DECOMPOSED GRANITE (D.G.) SHALL BE COMPACTED IN 2" LEFTS AND STABILIZED WITH DECORATIVE STONE SOLUTIONS STABILIZING BINDER.
3. DECOMPOSED GRANITE SHALL BE FLUSH W/ TOP OF CURBS AND MOWSTRIPS.
4. REFER TO CIVIL PLANS FOR PATHWAY D.G. LOCATION.
5. REFER TO CIVIL PLANS FOR FINISH GRADES.
6. REFER TO SHEET 8, CONSTRUCTION LEGEND NOTES FOR EXISTING PATH D.G.
7. PATHWAYS ON NORTH, EAST, & WEST SIDE OF PARK SHALL BE CROWNED WITH 2% CROSS FALL FROM CENTER LINE HIGH POINT. PATHWAY ON SOUTH SIDE OF PARK SHALL HAVE 2% ONE-WAY CROSS FALL TOWARD STREET.

1. 4" THICK STABILIZED PATHWAY DECOMPOSED GRANITE (D.G.) FLUSH WITH MOWSTRIP. GRANITE MATERIALS AVAILABLE FROM DECORATIVE STONE SOLUTIONS, INC. (800)699-1878 OR AN APPROVED EQUAL.
2. FILTER FABRIC (WEED BARRIER) – BIO BARRIER II FABRIC AVAILABLE FROM REMAY, INC. (800)382-8467 OR AN APPROVED EQUAL
3. MIN. 2% SLOPE TO DRAIN ON ALL DECOMPOSED GRANITE SURFACES. REFER NOTE 7 ABOVE
4. UNDISTURBED NATIVE GRADE OR CERTIFIED COMPACTED BACKFILL TO SCARIFY AND COMPACT SUBGRADE TO 95%
5. MOWSTRIP, REFER TO DETAIL 'A'
6. FINISH GRADE

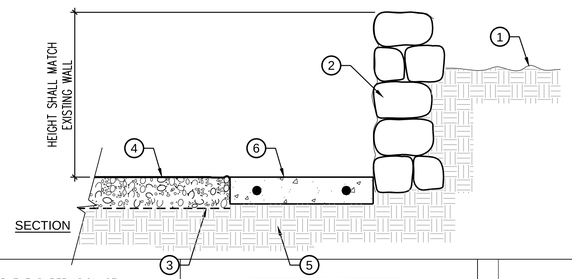


C DECOMPOSED GRANITE
SCALE: NTS

NOTES:
1. UNLESS OTHERWISE NOTED, NEW FINISH SURFACE SHALL MATCH ADJACENT EXISTING SURFACES.
2. FOR ADDITIONAL INFORMATION REFER TO THE SPECIFICATIONS.
3. REFER TO GENERAL CONSTRUCTION NOTES HEREON.
4. CONTRACTOR SHALL PROVIDE SAMPLES OF STONE TO ENGINEER FOR REVIEW & APPROVAL PRIOR TO CONSTRUCTION.
5. REFER TO CIVIL PLAN, SHEET 3, FOR ELEVATIONS WITHIN PLAZA.
6. REFER TO NOTE #4 THRU 5 IN GENERAL CONSTRUCTION NOTES ABOVE.

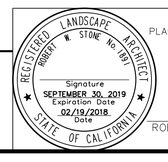
1. EXISTING GRADE OF PLANTER BED SHALL REMAIN AS IS AT BASE OF THE EXISTING OAK TREE & ON THE RETAINING SIDE OF THE WALL. NO FILL OR CUT OVER EXISTING OAK TREE ROOTS INSIDE PLANTER WALL/TREE WELL, REFER TO CIVIL PLANS
2. STONE PLANTER WALL, MATCH EXISTING – REFER TO ELEVATION
3. FILTER FABRIC (WEED BARRIER) – BIO BARRIER II FABRIC AVAILABLE FROM REMAY, INC. (800) 382-8467 OR AN APPROVED EQUAL
4. 4" THICK NON-STABILIZED D.G., REFER TO DETAIL 'D' SHEET 'L-2'
5. UNDISTURBED NATIVE GRADE OR CERTIFIED COMPACTED BACKFILL TO SCARIFY AND COMPACT SUBGRADE TO 95%
6. 16" WIDE NATURAL COLOR CONCRETE BAND WITH CONTINUOUS HORIZONTAL #4 REBARS. EXPOSED EDGE SHALL RECEIVE 1/4" RADIUS

ELEVATION



SECTION

F PLANTER WALL
SCALE: NTS



PLANS PREPARED UNDER THE SUPERVISION OF:

ROBERT STONE RLA 1891 02/19/2018 DATE

NŪVIS LANDSCAPE ARCHITECTURE

△	REVISIONS	DATE	INITIAL

ACCEPTED

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

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

CITY OF POMONA
PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENT

CONSTRUCTION DETAILS

DESIGNED: TM
DRAWN: DL
CHECKED: TM
REVIEWED: RS

SHT. 9 OF 22 SHTS

Know what's below. Call before you dig.

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

FOR UNDERGROUND SERVICE ALERT CALL: 811

Z:\DWG\16217-01 Lincoln Park, City of Pomona\NUVIS\CD\SHEETS\16217-01_LCP.dwg 2/19/18 09:25

FO-195B

EXISTING IRRIGATION NOTES

NOTE 1:
CONTRACTOR SHALL MAINTAIN EXISTING MAINLINES IN WORKING ORDER. COORDINATE ALL INTERRUPTIONS OF OPERATION OF THE EXISTING IRRIGATION TO A MINIMUM. COORDINATE ALL INTERRUPTIONS WITH THE CITY'S AUTHORIZED REPRESENTATIVE.

NOTE 2:
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING IRRIGATION EQUIPMENT DAMAGED DURING CONSTRUCTION AND IF DAMAGED, SHALL REPLACE WITH SAME MANUFACTURER AND MODEL.

NOTE 3:
ALL EXISTING IRRIGATION CONTROL VALVES CONNECTED TO EXISTING CONTROLLER SHALL BE RECONNECTED TO EXISTING CONTROLLER. CONFIRM PROPER CONTROLLER OPERATION AND INSTALLATION WITH CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK AND UPON COMPLETION OF WORK. RE-PROGRAMMING OF EXISTING CONTROLLER SHALL BE COMPLETED BY THE CONTRACTOR.

NOTE 4:
CONTRACTOR SHALL CONFIRM THE EXISTING CONTROLLER MAKE AND MODEL AND SHALL CONFIRM THAT SAID CONTROLLER HAS ADEQUATE OPEN STATIONS TO OPERATE ALL ADJUSTED AND ALL PROPOSED IRRIGATION SYSTEM MODIFICATIONS. NOTIFY CITY'S AUTHORIZED REPRESENTATIVE SHOULD ANY DISCREPANCIES BE NOTED.

NOTE 5:
CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/MODIFICATION/REROUTING OF ALL ADJACENT IRRIGATION SYSTEM EQUIPMENT THAT IS AFFECTED BY NEW CONSTRUCTION IMPROVEMENTS. CONTRACTOR SHALL REPAIR SAID SYSTEMS TO A LIKE NEW MANNER, PROVIDING NO LESS THAN 100% OF HEAD RADIUS COVERAGE IN ALL AREAS WITH SYSTEM LAYOUT AS APPROVED BY CITY'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL AREAS REQUIRING MODIFICATION WITH CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO STARTING WORK.

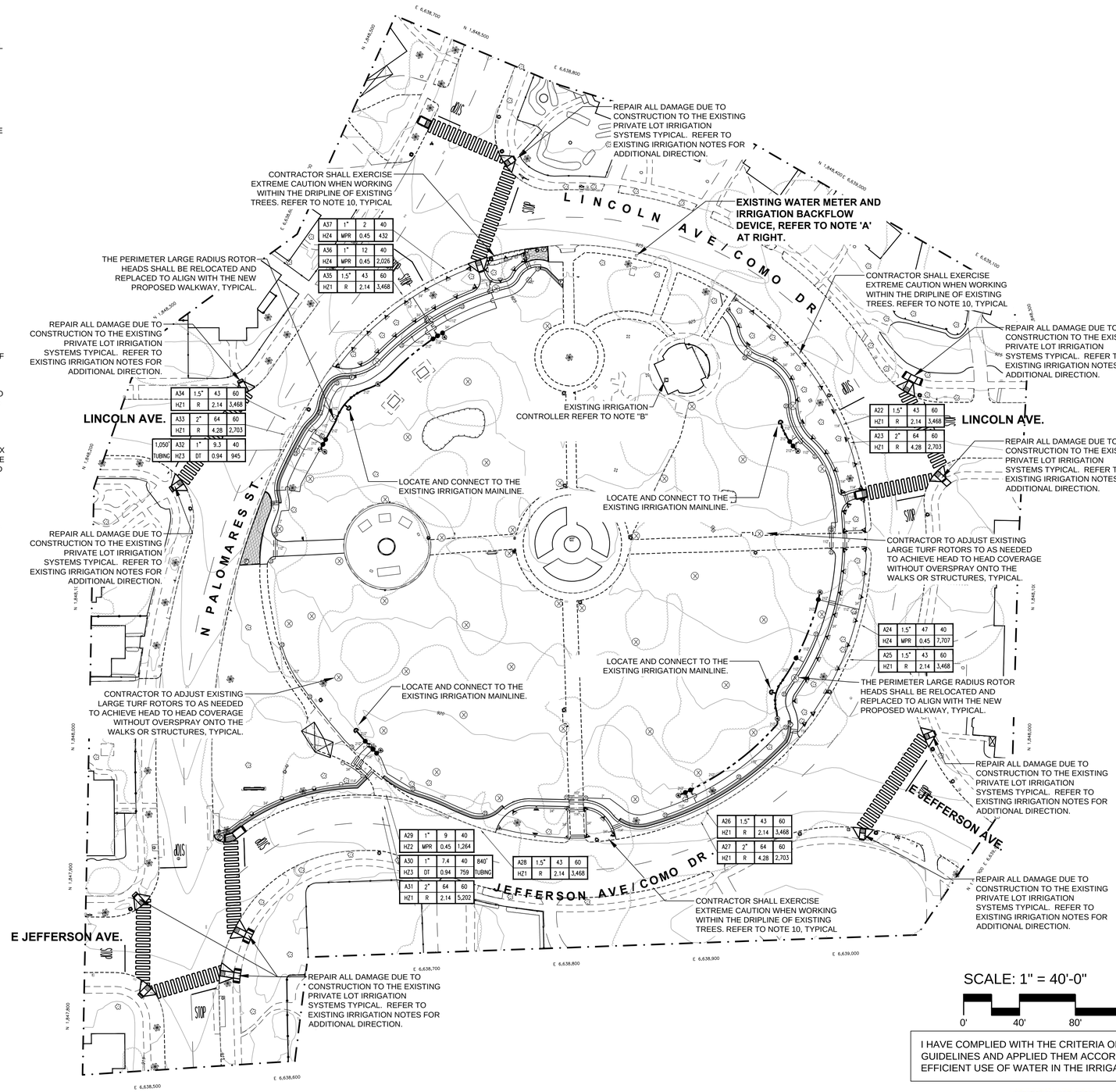
NOTE 6:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL AND DISPOSAL OF ALL EXISTING IRRIGATION EQUIPMENT AFFECTED BY THE NEW CONSTRUCTION IMPROVEMENTS, IF NECESSARY. CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE REMOVED AND DISPOSED OF IN FIELD PRIOR TO BIDDING WORK AND PRIOR TO STARTING WORK.

NOTE 7:
CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BIDDING WORK AND AGAIN PRIOR TO STARTING WORK. VERIFICATION SHALL BE DOCUMENTED AND DELIVERED TO CITY'S AUTHORIZED REPRESENTATIVE.

NOTE 8:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ALL SCH 40 PVC SLEEVING UNDER PAVING, WALLS AND CURBS AT NO LESS THAN 24" BELOW GRADE AND NO LESS THAN 2X DIAMETER OF IRRIGATION PIPE IN AREAS WHERE PIPE CROSSING WILL OCCUR. WHEN PIPE SIZE IS NOT AVAILABLE USE 6" SLEEVING MATERIAL. CONFIRM CROSSINGS WITH CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO PAVING AND HARDSCAPE CONSTRUCTION.

NOTE 9:
EXISTING IRRIGATION IN ADJACENT AREAS SHALL BE PROTECTED IN PLACE FOR CONTINUED USE. CONTRACTOR SHALL VERIFY THE EXTENT OF THE EXISTING SYSTEMS AND MAKE ADJUSTMENTS TO CAP OFF OR MODIFY THE EXISTING SYSTEM TO MEET THE NEW LANDSCAPE CONDITION.

NOTE 10:
CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING WITHIN THE DRIPLINE OF EXISTING TREES. NO MECHANICAL TRENCHING WITHIN THE DRIPLINE OF THE EXISTING TREE WILL BE ALLOWED. ALL LINES SHALL BE ROUTED TO AVOID EXISTING TREES AND SHRUBS AND THEIR ROOT SYSTEMS. AIR SPADE SHALL BE UTILIZED FOR ALL TRENCHING WITHIN THE DRIPLINE OF TREES. VERIFY ALL LAYOUT IN FIELD WITH CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.



NOTE A:
POINT OF CONNECTION (POC) #1 IS AN EXISTING METER AND IRRIGATION BACKFLOW DEVICE. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION, WATER TYPE, METER SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. MEASUREMENT OF THE STATIC (NO WATER MOVING) WATER PRESSURE IS ACCEPTABLE FOR POTABLE WATER SYSTEMS WHERE NO PUMP HAS BEEN INDICATED ON THESE PLANS. WHEN USING RECYCLED WATER, OR ON POTABLE WATER SYSTEMS REQUIRING A PUMP, ONLY THE MEASUREMENT OF DYNAMIC (WATER MOVING THROUGH THE METER) WATER PRESSURE, SHALL BE ACCEPTABLE. THE DYNAMIC WATER PRESSURE SHALL BE MEASURED AT THE MAXIMUM SYSTEM DEMAND AS INDICATED BELOW. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION AS SHOWN HEREIN, ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

WATER PRESSURE REQUIRED AT POC:	102	PSI	(STATIC)
DESIGN WATER PRESSURE:	97	PSI	
MAXIMUM SYSTEM DEMAND:	64	GPM	
RESIDUAL WATER PRESSURE:	5	PSI	

NOTE B:
THE EXISTING WEATHERMATIC 48 STATION IRRIGATION CONTROLLER (21 STATIONS USED) SHALL BE PROTECTED IN PLACE FOR RE-USE. ROUTE NEW CONTROL WIRES FROM THE PROPOSED VALVES INTO THE NEW EXISTING CONTROLLER. MAINTAIN ALL EXISTING VALVES CURRENTLY CONNECTED TO THE EXISTING CONTROLLER. VERIFY WIRE CONDUIT SIZE AND ROUTING REQUIREMENTS WITH CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
THESE PLANS ARE DIAGRAMMATIC, THE MAINLINE AND RELATED IRRIGATION EQUIPMENT IS SHOWN WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATION OF MAINLINE AND RELATED IRRIGATION EQUIPMENT SHALL BE WITHIN PLANTER AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES, TYPICAL.

NOTE D:
CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR IN THE LANDSCAPE, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, TREES, ETC. WHEN A SLIGHT RELOCATION OF THE HEAD IS NOT SUFFICIENT TO CLEAR THE OBSTACLE, OR IF IT NEGATIVELY AFFECTS THE COVERAGE, AN ADDITIONAL HEAD SHALL BE INSTALLED TO PLACE ONE HEAD ON EITHER SIDE OF THE OBSTACLE. THE NOZZLES OF THESE TWO HEADS SHALL HAVE ARC PATTERNS THAT ADD UP TO THE ORIGINAL ARC PATTERN OF THE HEAD INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL HEAD LAYOUT WITH CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE E:
THESE PLANS ARE DIAGRAMMATIC, IRRIGATION EQUIPMENT IS SHOWN WITHIN THE PAVING IN SOME AREAS FOR CLARITY ONLY, THE ACTUAL LOCATIONS SHALL BE WITHIN THE PLANTERS. THE CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

BID SET WATER PRESSURE LOSS CALCULATIONS

WATER METER NUMBER	1	WATER METER SIZE (Inches)	N/A
HYDRAULIC GRADE LINE (FT)	0	WATER METER ELEVATION (FT)	0
ELEVATION DIFFERENCE (FT)	0	STATIC PRESSURE REQUIRED(PSI)	102.0
REMOTE CONTROL VALVE #	A31	REMOTE CONTROL VALVE SIZE (In.)	1.50
R.C.V. DEMAND (GPM)	64	TOTAL DEMAND (GPM)	64
HIGHEST HEAD SERVED (FT)	0	STATIC PRESSURE AT HIGHEST HEAD	0.0

sweeney + associates
IRRIGATION DESIGN AND CONSULTING

PRESSURE LOSS CALCULATION IS PROVIDED FOR THIS PROJECT BY SWEENEY & ASSOCIATES, INC. UNAUTHORIZED USE BY ANY OTHER PERSON, COMPANY OR PROJECT IS FORBIDDEN WITHOUT WRITTEN PERMISSION.

SIZE (Inches)	DESCRIPTION	FLOW	#	LOSS	
2.00	SERVICE LINE (50 FT OF TYPE K COPPER)	64	1	1.80	PSI
2.00	WATER METER (XXXX TYPE)	64	2	3.20	PSI
2.00	BACKFLOW PREVENTER (R/P TYPE)	64	3	13.00	PSI
2.00	FILTRATION (WYE FILTER)	64	4	2.00	PSI
2.00	PRESSURE REGULATOR (WILKINS 500HLR)	64	5	0.00	PSI
2.00	BFD ASSEMBLY PIPING (BRASS W/ 4 ELLS)	64	6	2.16	PSI
2.00	MASTER CONTROL VALVE	64	7	1.60	PSI
2.00	FLOW SENSOR	64	8	1.00	PSI
2.50	ISOLATION VALVES (BALL TYPE)	64	9	1.00	PSI
2.50	630 FEET OF MAINLINE: CL. 315 PVC	64	10	8.25	PSI
2.00	10 - 90 DEGREE ELBOWS	64	13	2.23	PSI
1.50	REMOTE CONTROL VALVE ASSEMBLY	64	14	3.60	PSI
10%	LATERAL LINE LOSSES	64	15	5.00	PSI
20%	FITTING LOSS (IN ADDITION TO ELBOWS SHOWN)	N/A	16	1.65	PSI
0.00	ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD)	N/A	17	0.00	PSI
TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #17)			18	46.5	PSI
PRESSURE REQUIRED AT HEAD (OPERATING PRESSURE)			19	50.0	PSI
TOTAL PRESSURE REQUIRED (SUM OF #18 AND #19)			20	96.5	PSI
STATIC WATER PRESSURE (FROM ABOVE)			21	102.0	PSI
RESIDUAL PRESSURE (SUBTRACT #20 FROM #21)			22	5.5	PSI
SET PRV OR MCV AT (#20 PLUS 10 PSI)			23	N/A	PSI

TREE PRESERVATION NOTES

OAK TREE AND ALL OTHER TREES PRESERVATION: ALL WORK AROUND ALL EXISTING OAK TREES AND ALL OTHER TREES SHALL FOLLOW THIS WORK PROCEDURES PROGRAM. THIS PROGRAM HAS BEEN DEVELOPED TO MINIMIZE THE IMPACTS TO EACH TREE AND PROTECT THEM FROM UNSCHEDULED DAMAGE. IN ADDITION, REFER TO SPECS. FOR THE PLAZA OAK AT LINCOLN PARK LEVEL 2 ASSESSMENT REPORT

PLANTING PLAN NOTES

IF, DURING PLANTING OPERATIONS THERE SEEMS TO MINIMAL OR NO PERCOLATION IN PLANTING PITS, CONTRACTOR SHALL CEASE PLANTING OPERATIONS AND IMMEDIATELY NOTIFY THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE TO DISCUSS ALTERNATIVE TO MAINTAINING POSITIVE ROOTBALL DRAINAGE MEASURES.

NOTE

REFER TO SHEET 12 FOR LEGEND AND NOTES
REFER TO SHEET 13 - 15 FOR DETAILS

SCALE: 1" = 40'-0"
0' 40' 80' 160'

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

ACCEPTED
BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

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

CITY OF POMONA
PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENT

IRRIGATION PLAN–BASE BID

sweeney + associates
IRRIGATION DESIGN AND CONSULTING
38730 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461-6830
w: www.sweeneyassoc.com f: (951) 461-6850

Know what's below. Call before you dig.

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

FOR UNDERGROUND SERVICE ALERT CALL: 811

REGISTERED LANDSCAPE ARCHITECT ROBERT W. STONE No. 1891 STATE OF CALIFORNIA
Signature
SEPTEMBER 30, 2019
Expiration Date
02/27/2018
Date

PLANS PREPARED UNDER THE SUPERVISION OF:
ROBERT STONE RLA 1891 02/27/2018 DATE

NUVIS LANDSCAPE ARCHITECTURE

△	REVISIONS	DATE	INITIAL

SCALE AS SHOWN
DESIGNED: DZ
DRAWN: CB
CHECKED: DZ
REVIEWED: DZ
SHT. 10 OF 22 SHTS

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FO-195C

EXISTING IRRIGATION NOTES

NOTE 1:
CONTRACTOR SHALL MAINTAIN EXISTING MAINLINES IN WORKING ORDER. COORDINATE ALL INTERRUPTIONS OF OPERATION OF THE EXISTING IRRIGATION TO A MINIMUM. COORDINATE ALL INTERRUPTIONS WITH THE CITY'S AUTHORIZED REPRESENTATIVE.

NOTE 2:
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING IRRIGATION EQUIPMENT DAMAGED DURING CONSTRUCTION AND IF DAMAGED, SHALL REPLACE WITH SAME MANUFACTURER AND MODEL.

NOTE 3:
ALL EXISTING IRRIGATION CONTROL VALVES CONNECTED TO EXISTING CONTROLLER SHALL BE RECONNECTED TO EXISTING CONTROLLER. CONFIRM PROPER CONTROLLER OPERATION AND INSTALLATION WITH CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK AND UPON COMPLETION OF WORK. RE-PROGRAMMING OF EXISTING CONTROLLER SHALL BE COMPLETED BY THE CONTRACTOR.

NOTE 4:
CONTRACTOR SHALL CONFIRM THE EXISTING CONTROLLER MAKE AND MODEL AND SHALL CONFIRM THAT SAID CONTROLLER HAS ADEQUATE OPEN STATIONS TO OPERATE ALL ADJUSTED AND ALL PROPOSED IRRIGATION SYSTEM MODIFICATIONS. NOTIFY CITY'S AUTHORIZED REPRESENTATIVE SHOULD ANY DISCREPANCIES BE NOTED.

NOTE 5:
CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/MODIFICATION/REROUTING OF ALL ADJACENT IRRIGATION SYSTEM EQUIPMENT THAT IS AFFECTED BY NEW CONSTRUCTION IMPROVEMENTS. CONTRACTOR SHALL REPAIR SAID SYSTEMS TO A LIKE NEW MANNER, PROVIDING NO LESS THAN 100% OF HEAD RADIUS COVERAGE IN ALL AREAS WITH SYSTEM LAYOUT AS APPROVED BY CITY'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL AREAS REQUIRING MODIFICATION WITH CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO STARTING WORK.

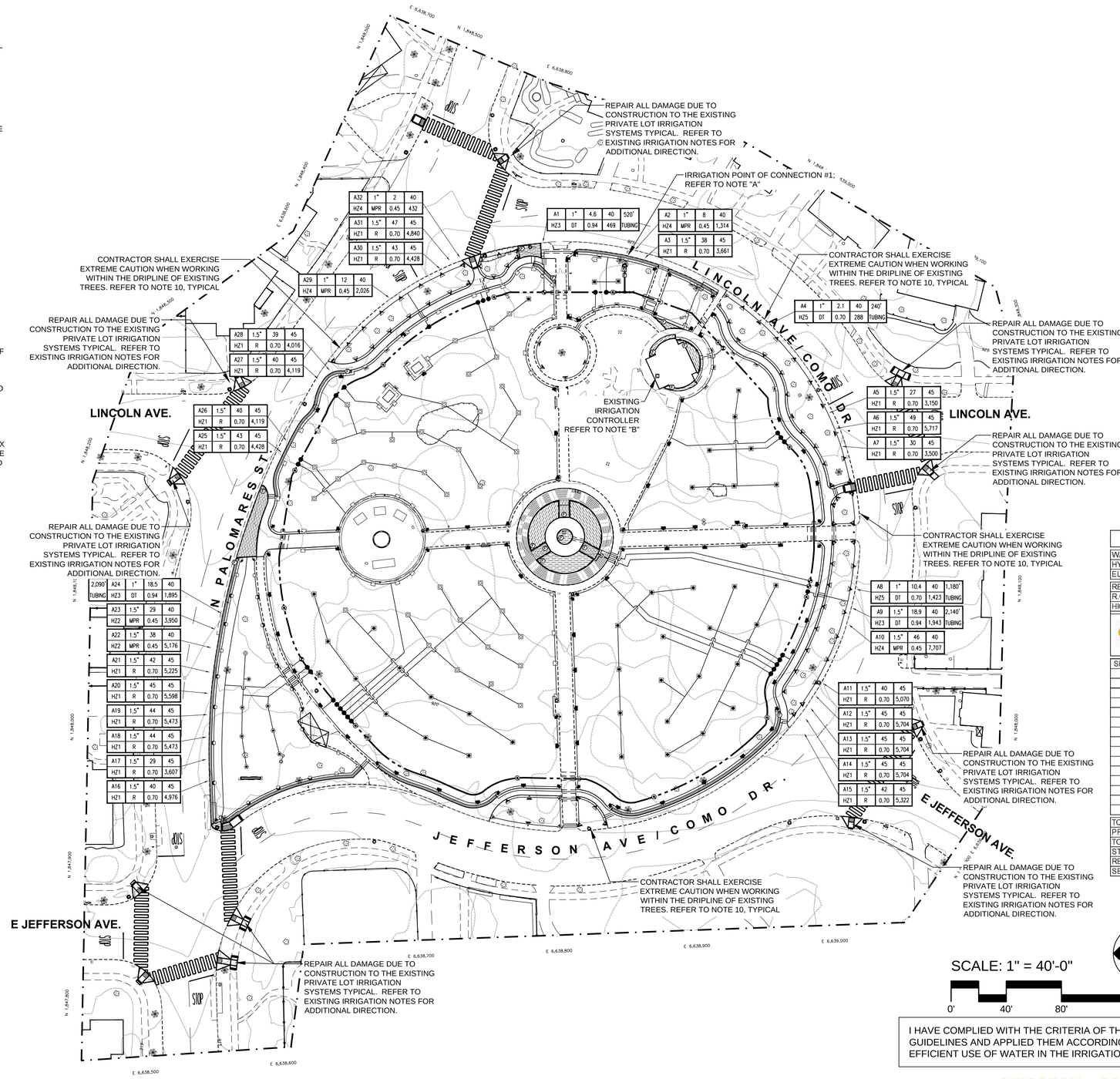
NOTE 6:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL AND DISPOSAL OF ALL EXISTING IRRIGATION EQUIPMENT AFFECTED BY THE NEW CONSTRUCTION IMPROVEMENTS, IF NECESSARY. CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE REMOVED AND DISPOSED OF IN FIELD PRIOR TO BIDDING WORK AND PRIOR TO STARTING WORK.

NOTE 7:
CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BIDDING WORK AND AGAIN PRIOR TO STARTING WORK. VERIFICATION SHALL BE DOCUMENTED AND DELIVERED TO CITY'S AUTHORIZED REPRESENTATIVE.

NOTE 8:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ALL SCH 40 PVC SLEEVING UNDER PAVING, WALLS AND CURBS AT NO LESS THAN 24" BELOW GRADE AND NO LESS THAN 2X DIAMETER OF IRRIGATION PIPE IN AREAS WHERE PIPE CROSSING WILL OCCUR. WHEN PIPE SIZE IS NOT AVAILABLE USE 6" SLEEVING MATERIAL. CONFIRM CROSSINGS WITH CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO PAVING AND HARDSCAPE CONSTRUCTION.

NOTE 9:
EXISTING IRRIGATION IN ADJACENT AREAS SHALL BE PROTECTED IN PLACE FOR CONTINUED USE. CONTRACTOR SHALL VERIFY THE EXTENT OF THE EXISTING SYSTEMS AND MAKE ADJUSTMENTS TO CAP OFF OR MODIFY THE EXISTING SYSTEM TO MEET THE NEW LANDSCAPE CONDITION.

NOTE 10:
CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING WITHIN THE DRIPLINE OF EXISTING TREES. NO MECHANICAL TRENCHING WITHIN THE DRIPLINE OF THE EXISTING TREE WILL BE ALLOWED. ALL LINES SHALL BE ROUTED TO AVOID EXISTING TREES AND SHRUBS AND THEIR ROOT SYSTEMS. AIR SPADE SHALL BE UTILIZED FOR ALL TRENCHING WITHIN THE DRIPLINE OF TREES. VERIFY ALL LAYOUT IN FIELD WITH CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.



NOTE A:
POINT OF CONNECTION (POC) #1 SHALL BE A 2 1/2" CONNECTION DOWNSTREAM OF EXISTING BACKFLOW AND WATER METER. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION, WATER TYPE, METER SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. MEASUREMENT OF THE STATIC (NO WATER MOVING) WATER PRESSURE IS ACCEPTABLE FOR POTABLE WATER SYSTEMS WHERE NO PUMP HAS BEEN INDICATED ON THESE PLANS. WHEN USING RECYCLED WATER, OR ON POTABLE WATER SYSTEMS REQUIRING A PUMP, ONLY THE MEASUREMENT OF DYNAMIC (WATER MOVING THROUGH THE METER) WATER PRESSURE, SHALL BE ACCEPTABLE. THE DYNAMIC WATER PRESSURE SHALL BE MEASURED AT THE MAXIMUM SYSTEM DEMAND AS INDICATED BELOW. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION AS SHOWN HEREIN, ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

WATER PRESSURE REQUIRED AT POC:	89	PSI	(STATIC / DYNAMIC)
DESIGN WATER PRESSURE:	84	PSI	
MAXIMUM SYSTEM DEMAND:	45	GPM	
RESIDUAL WATER PRESSURE:	5	PSI	

NOTE B:
THE EXISTING WEATHERMATIC 48 STATION IRRIGATION CONTROLLER SHALL BE PROTECTED IN PLACE FOR RE-USE. ROUTE NEW CONTROL WIRES FROM THE PROPOSED VALVES INTO THE NEW EXISTING CONTROLLER. VERIFY WIRE CONDUIT SIZE AND ROUTING REQUIREMENTS WITH CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
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NOTE D:
CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR IN THE LANDSCAPE, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, TREES, ETC. WHEN A SLIGHT RELOCATION OF THE HEAD IS NOT SUFFICIENT TO CLEAR THE OBSTACLE, OR IF IT NEGATIVELY AFFECTS THE COVERAGE, AN ADDITIONAL HEAD SHALL BE INSTALLED TO PLACE ONE HEAD ON EITHER SIDE OF THE OBSTACLE. THE NOZZLES OF THESE TWO HEADS SHALL HAVE ARC PATTERNS THAT ADD UP TO THE ORIGINAL ARC PATTERN OF THE HEAD INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL HEAD LAYOUT WITH CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE E:
THESE PLANS ARE DIAGRAMMATIC, TREE BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN THE PAVING FOR CLARITY ONLY, THE ACTUAL LOCATIONS SHALL BE WITHIN THE PLANTER. THE TREE BUBBLERS SHALL BE ALIGNED WITH TREES AS SHOWN ON THE PLANTING PLANS, AND AS DIRECTED BY CITY'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

ADD ALT WATER PRESSURE LOSS CALCULATIONS

WATER METER NUMBER	1	WATER METER SIZE (Inches)	N/A
HYDRAULIC GRADE LINE (FT)	0	WATER METER ELEVATION (FT)	0
ELEVATION DIFFERENCE (FT)	0	STATIC PRESSURE (PSI)	89.0
REMOTE CONTROL VALVE #	A20	REMOTE CONTROL VALVE SIZE (In.)	1.50
R.C.V. DEMAND (GPM)	45	TOTAL DEMAND (GPM)	45
HIGHEST HEAD SERVED (FT)	0	STATIC PRESSURE AT HIGHEST HEAD	0.0

sweeney + associates
IRRIGATION DESIGN AND CONSULTING

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SIZE (Inches)	DESCRIPTION	FLOW	#	LOSS	
2.00	SERVICE LINE (50 FT OF TYPE K COPPER)	45	1	1.10	PSI
2.00	WATER METER (XXXX TYPE)	45	2	3.20	PSI
2.00	BACKFLOW PREVENTER (R/P TYPE)	45	3	13.00	PSI
2.00	FILTRATION (WYE FILTER)	45	4	2.00	PSI
2.00	PRESSURE REGULATOR (WILKINS 500HLR)	45	5	0.00	PSI
2.00	BFD ASSEMBLY PIPING (BRASS W/ 4 ELLS)	45	6	1.32	PSI
2.00	MASTER CONTROL VALVE	45	7	1.60	PSI
2.00	FLOW SENSOR	45	8	1.00	PSI
2.50	ISOLATION VALVES (BALL TYPE)	45	9	1.00	PSI
2.50	630 FEET OF MAINLINE: CL. 315 PVC	45	10	4.35	PSI
2.00	10 - 90 DEGREE ELBOWS	45	13	1.17	PSI
1.50	REMOTE CONTROL VALVE ASSEMBLY	45	14	3.50	PSI
10%	LATERAL LINE LOSSES	45	15	4.50	PSI
20%	FITTING LOSS (IN ADDITION TO ELBOWS SHOWN)	N/A	16	0.87	PSI
0.00	ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD)	N/A	17	0.00	PSI
TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #17)			18	38.6	PSI
PRESSURE REQUIRED AT HEAD (OPERATING PRESSURE)			19	45.0	PSI
TOTAL PRESSURE REQUIRED (SUM OF #18 AND #19)			20	83.6	PSI
STATIC WATER PRESSURE (FROM ABOVE)			21	89.0	PSI
RESIDUAL PRESSURE (SUBTRACT #20 FROM #21)			22	5.4	PSI
SET PRV OR MCV AT (#20 PLUS 10 PSI)			23	N/A	PSI

NOTE

REFER TO SHEET 12 FOR LEGEND AND NOTES
REFER TO SHEET 13 - 15 FOR DETAILS

SCALE: 1" = 40'-0"
0' 40' 80' 160'

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

TREE PRESERVATION NOTES

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FOR UNDERGROUND SERVICE ALERT CALL: 811

REGISTERED LANDSCAPE ARCHITECT ROBERT W. STONE No. 1891 STATE OF CALIFORNIA
Signature
SEPTEMBER 30, 2019
Expiration Date
02/27/2018
Date

PLANS PREPARED UNDER THE SUPERVISION OF:
ROBERT STONE RLA 1891 02/27/2018 DATE

NŪVIS LANDSCAPE ARCHITECTURE

	REVISIONS	DATE	INITIAL
△			

811 sweeney + associates
IRRIGATION DESIGN AND CONSULTING
38730 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461-6830
w: www.sweeneyassoc.com f: (951) 461-6850

ACCEPTED
BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

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

CITY OF POMONA
PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENT

IRRIGATION PLAN ADD-ALT

SCALE			SHT. 11
AS SHOWN	DESIGNED:	DZ	OF
	DRAWN:	CB	
	CHECKED:	DZ	
	REVIEWED:	DZ	22 SHTS

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FO-195D

IRRIGATION MATERIAL LEGEND

SYMBOL Q	T	H	F	MANUFACTURER	MODEL NO. / DESCRIPTION	FLOW RATE (GPM)	PSI	RADIUS	P.R. (TRI.)	DETAIL
				RAIN BIRD	1812-SAM-P45 12" POP-UP SHRUB HEAD WITH A HUNTER MP800SR-90/360 ADJUSTABLE NOZZLE	.23, .33, .42, .78	45	10 FT	0.81 IN./HR.	A
				RAIN BIRD	1812-SAM-P45 12" POP-UP SHRUB HEAD WITH A HUNTER MP1000-90(Q/T/H)/360 ADJUSTABLE NOZZLE	.23, .34, .44, .88	45	14 FT	0.45 IN./HR.	A
				RAIN BIRD	1812-SAM-P45 12" POP-UP SHRUB HEAD WITH A HUNTER MP2000-90(Q/T/H)/360 ADJUSTABLE NOZZLE	.46, .66, .85, 1.57	45	20 FT	0.45 IN./HR.	A
				RAIN BIRD	1812-SAM-P45 12" POP-UP SHRUB HEAD WITH A HUNTER MP3000-90(Q/T/H)/360 ADJUSTABLE NOZZLE	.90, 1.41, 1.93, 3.86	45	30 FT	0.45 IN./HR.	A
				RAIN BIRD	1806-SAM-P45 6" POP-UP TURF HEAD WITH A HUNTER MP1000-90(Q/T/H)/360 ADJUSTABLE NOZZLE	.23, .34, .44, .88	45	14 FT	0.45 IN./HR.	A
				RAIN BIRD	1806-SAM-P45 6" POP-UP TURF HEAD WITH A HUNTER MP2000-90(Q/T/H)/360 ADJUSTABLE NOZZLE	.46, .66, .85, 1.57	45	20 FT	0.45 IN./HR.	A
				RAIN BIRD	1806-SAM-P45 6" POP-UP TURF HEAD WITH A HUNTER MP3000-90(Q/T/H)/360 ADJUSTABLE NOZZLE	.90, 1.41, 1.93, 3.86	45	30 FT	0.45 IN./HR.	A
				HUNTER	I-20-06-SS 6" POP-UP TURF ROTOR WITH MPR-25 NOZZLES (RED)	1.00, 1.38, 1.98, 3.82	45	25 FT	0.70 IN./HR.	C
				HUNTER	I-20-06-SS 6" POP-UP TURF ROTOR WITH MPR-30 NOZZLES (GREEN)	1.40, 1.85, 2.96, 5.78	45	30 FT	0.70 IN./HR.	C
				HUNTER	I-20-06-SS 6" POP-UP TURF ROTOR WITH MPR-35 NOZZLES (BEIGE)	1.92, 2.46, 3.81, 7.58	45	35 FT	0.70 IN./HR.	C
NO SYMBOL				HUNTER	MPR-25/30/35 NOZZLES ARE NOT SUPPLIED AS STANDARD NOZZLES WITH THE HUNTER PGP ULTRA OR I-20 ROTOR HEADS. THE CONTRACTOR MUST ORDER THESE NOZZLES SEPARATELY AS AN ADDITIONAL COMPONENT FOR THE ROTOR HEADS. ONLY THE COLOR CODED MPR SERIES NOZZLES SHALL BE ACCEPTABLE IN THE ROTOR HEADS.					N/A
				HUNTER	I-40-04-SS 4" POP-UP LARGE RADIUS TURF ROTOR WITH A S.S. STEM AND A #23 NOZZLE	21.3	50	62 FT	4.28 IN./HR. (Q) 2.14 IN./HR. (H)	C
				EXISTING	EXISTING HUNTER I-40 POP-UP LARGE RADIUS TURF ROTOR, REPLACE ANY HEADS DAMAGED DUE TO CONSTRUCTION. VERIFY ACTUAL QUANTITY AND LOCATIONS IN THE FIELD, RELOCATE/REPLACE INTERIOR ROTORS AS REQUIRED TO ACCOMMODATE THE PROPOSED IMPROVEMENTS.					N/A
				NETAFIM	TLHCVXR5-12 SUBSURFACE DRIP TUBING (EXTERIOR COLOR) WITH 0.53 GPH, PRESSURE COMPENSATING EMITTERS INTERNALLY INSTALLED IN THE DRIP TUBING AT 12" O.C. SPACING. DRIP TUBING SHALL BE EQUIPPED WITH COPPER OXIDE INFUSED EMITTERS AND A PHYSICAL BARRIER TO PREVENT ROOT INTRUSION INTO THE DRIP EMITTER. DRIP EMITTERS SHALL BE CONTINUOUS FLUSHING TYPE AND EQUIPPED WITH A CHECK VALVE AND ANTI-SIPHON FEATURE. DRIP TUBING SHALL BE INSTALLED 4" (6" IN TURF AREAS) BELOW FINISHED SOIL GRADE (NOT COUNTING MULCH) AND IN PARALLEL ROWS A MAXIMUM OF 16" (12" IN TURF AREAS) ON CENTER. THE PERIMETER ROW OF DRIP TUBING SHALL BE INSTALLED A MAXIMUM OF 4" FROM THE EDGE OF ANY HARDSCAPE OR TURF EDGE. ALL SUBSEQUENT INTERIOR ROWS SHALL BE ADJUSTED TO PROVIDE AN EVEN SPACING ACROSS THE PLANTER WITHOUT EXCEEDING 16" (12" IN TURF AREAS) MAXIMUM SPACING. INSTALL 9" PVC COATED GALVANIZED TUBING STAKES A MAXIMUM OF FIVE (5) FEET ON CENTER ALONG THE LENGTH OF THE TUBING. TUBING STAKES SHALL BE MODEL #GDTS140900 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684. THE HATCH PATTERN SYMBOLS ON THE PLANS REPRESENT THE APPROXIMATE DIRECTION AND SPACING OF THE DRIP TUBING ROWS, SEE SPACING REQUIREMENTS ABOVE AND IN DETAILS.					D,E,F
NO SYMBOL				NETAFIM	CONNECTION BETWEEN HCVXR DRIP TUBING AND PVC SUPPLY AND DISCHARGE HEADERS SHALL BE MADE USING TL DRIP LINE BARBED FITTINGS, SCH. 40 PVC THREADED FITTINGS, SCH. 80 NIPPLES AND FLEXIBLE NIPPLES. WHEN THE CONNECTION IS AT THE END RUN OF THE TUBING USE A 1/2" SCH. 40 PVC THREADED 90° ELBOW, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIBLE NIPPLE, AND A TL050MA 17mm BARB X 1/2" MIPT ADAPTER FITTING. WHEN THE CONNECTION IS IN THE MIDDLE OF THE TUBING RUN USE A 1/2" SCH. 40 PVC THREADED TEE FITTING, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIBLE NIPPLE, AND TWO (2) TL050MA 17mm BARB X 1/2" MIPT ADAPTERS. ALL END RUNS OF TUBING SHALL BE CONNECTED WITH A PVC DISCHARGE HEADER. FLEXIBLE NIPPLES SHALL BE MODEL #GFN050600 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684.					D,E,F
NO SYMBOL				NETAFIM	TL SERIES 17mm BARBED FITTINGS FOR CONNECTIONS BETWEEN DRIP TUBING (TUBING-TO-TUBING ONLY). NO HEATING OF TUBING SHALL BE ALLOWED.					D,E,F
				AS APPROVED	PVC SUPPLY AND DISCHARGE HEADERS SHALL BE PVC LATERAL LINE PIPE (AS SHOWN BELOW), 1 1/4" MINIMUM SIZE WITH SCH. 40 PVC FITTINGS.					D,E,F
				GPH IRRIGATION/ HUNTER	GDFN DRIP FLUSH / INDICATOR NOZZLE, ORANGE IN COLOR, INSTALLED ONTO A HUNTER PROS-12 12" POP-UP SPRINKLER BODY (NO PRS OR CHECK VALVE). THE FLUSH NOZZLE SHALL BE CLOSED FOR NORMAL OPERATION OF THE DRIP SYSTEM.					E,G
				P.O.C.	EXISTING METER PROTECT IN PLACE.					N/A
				EXISTING	EXISTING BACKFLOW DEVICE, PROTECT IN PLACE.					N/A
				BUCKNER	3100-200 2" NORMALLY CLOSED, BRASS MASTER CONTROL VALVE. WIRE MCV TO THE CONTROLLER USING A SEPARATE PILOT AND GROUND WIRE, ROUTE INSIDE A 1" SCH. 40 PVC (GRAY) ELECTRICAL CONDUIT. INSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX.					H
				WEATHERMATIC	SLFSI-T20 2" PVC FLOW SENSOR, WIRE TO CONTROLLER USING TWO (2) #14UF AWG WIRES INSIDE A 1" SCH. 40 PVC (GRAY) ELECTRICAL CONDUIT. INSTALL WITH SMARTLING FLOW AIRCARD PER MANUFACTURER'S RECOMMENDATIONS AND INSIDE A STANDARD RECTANGULAR VALVE BOX.					I
				NIBCO	T-FP-600A BRASS, FULL PORT BALL VALVE WITH SOLVENT WELD SOCKET CONNECTIONS, LINE SIZE PER MAINLINE. INSTALL INSIDE A 10" ROUND VALVE BOX.					J
				RAIN BIRD	44LRC 1" QUICK COUPLER VALVE WITH LOCKING VINYL COVER AND A LASCO G13S-218 SWING JOINT. INSTALL INSIDE A 10" ROUND VALVE BOX.					K
				RAIN BIRD	XXX-PESB-PRS-D PRESSURE REGULATING, PLASTIC REMOTE CONTROL VALVE (RCV), SIZE AS SHOWN (1", 1 1/2" AND 2" SIZES), SET PRS-D PRESSURE REGULATOR TO PROVIDE THE OPERATING PRESSURE OF THE SPRINKLER / BUBBLER HEAD TO THE HIGHEST OR FARTHEST HEAD ON THE CONTROL VALVE ZONE. INSTALL THE RCV INSIDE A STANDARD RECTANGULAR VALVE BOX.					L
				RAIN BIRD	XXX-PESB PLASTIC DRIP REMOTE CONTROL VALVE, SIZE AS SHOWN (1" AND 1 1/2" SIZES). INSTALL A DISC FILTER AND AN INLINE PRESSURE REGULATOR ON THE DOWNSTREAM SIDE OF EACH DRIP REMOTE CONTROL VALVE (DRCV). FOR 1" DRCV'S INSTALL A RAIN BIRD LCRBY-100D DISC FILTER AND A SENNINGER 1" PMR-40-MF PRESSURE REGULATOR. FOR 1 1/2" DRCV'S INSTALL A RAIN BIRD LCRBY-150D DISC FILTER AND A SENNINGER 1 1/4" PMR-40-HF PRESSURE REGULATOR. USE A 1 1/2" SCH. 40 PVC THREADED COUPLING, A 1 1/2" X 1 1/4" PVC THREADED REDUCER BUSHING, AND A 1 1/4" X 2" SCH. 80 PVC NIPPLE AS REQUIRED TO CONNECT THE 1 1/4" REGULATOR TO THE DOWNSTREAM SIDE OF THE 1 1/2" FILTER. INSTALL THE DRCV ASSEMBLY INSIDE A JUMBO RECTANGULAR VALVE BOX.					M
				WEATHERMATIC	EXISTING 48 STATION WEATHERMATIC SMARTLINE CONTROLLER, PROTECT IN PLACE. ROUTE ALL PROPOSED CONTROL WIRES BACK TO EXISTING CONTROLLER. **RE-PROGRAMMING OF EXISTING CONTROLLER SHALL BE COMPLETED BY THE CONTRACTOR.**					N/A
				AS APPROVED	PVC PIPE 3/4" - 3" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES INSTALLED 12" BELOW FINISHED GRADE					N
				AS APPROVED	PVC PIPE 2 1/2" CL. 315, SOLVENT WELD WITH SCH. 80 PVC FITTINGS, AS MAINLINES INSTALLED 18" BELOW FINISHED GRADE					N,P
				AS APPROVED	PVC PIPE SCH. 40 AS SLEEVING, 2.5 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED (2" MINIMUM SIZE) INSTALL ALL PIPE AND WIRE UNDER PAVING, HARDSCAPE, ETC. (OR AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE) INSIDE SLEEVES. SLEEVES UNDER PEDESTRIAN PAVING SHALL BE INSTALLED 24" BELOW FINISHED GRADE. SLEEVES UNDER VEHICULAR PAVING SHALL BE INSTALLED 36" BELOW FINISHED GRADE.					O
NO SYMBOL				LASCO	ALL FITTINGS USED WITH SOLVENT WELD MAINLINE PIPE SHALL BE SCH. 80 PVC FITTINGS, GRAY IN COLOR, AND SIZED TO MATCH THE MAINLINE PIPE. ALL FITTINGS USED WITH SOLVENT WELD LATERAL LINE PIPE SHALL BE SCH. 40 PVC, WHITE IN COLOR, AND SIZED TO MATCH THE LATERAL LINE PIPE. ALL THREADED PVC NIPPLES SHALL BE SCH. 80 PVC PIPE, DARK GRAY IN COLOR, WITH MOLDED THREADS.					N/A
NO SYMBOL				AS APPROVED	ALL SOLVENT WELD CONNECTIONS FOR BOTH MAINLINE AND LATERAL LINE SHALL BE MADE USING THE TWO-STEP PROCESS OF PRIMER AND SOLVENT CEMENT. PRIMER SHALL BE LOW VOC "PURPLE PRIMER". MAINLINE SOLVENT CEMENT SHALL BE LOW VOC, "GRAY-HEAVY BODY" CEMENT. LATERAL LINE SOLVENT CEMENT SHALL BE LOW VOC, GRAY OR BLUE COLORED MEDIUM BODIED CEMENT. USE DAUBERS SIZED AT LEAST ONE-HALF THE SIZE OF THE LARGEST PIPE BEING JOINED. ALL SOLVENT CEMENTED JOINTS SHALL BE MADE PER THE PIPE AND FITTING MANUFACTURER'S RECOMMENDATIONS.					N/A
NO SYMBOL				AS APPROVED	ALL SOLVENT WELD MAINLINES ABOVE 2" IN SIZE SHALL HAVE CONCRETE THRUST BLOCKING INSTALLED AT ALL DIRECTIONAL CHANGES INCLUDING ELBOWS (45° AND 90°) AND TEES. MAINLINE PIPES UNDER 2" SIZE AND ALL LATERAL LINES DO NOT REQUIRE THRUST BLOCKING.					P
NO SYMBOL				AS APPROVED	11/4" SCH. 40 PVC, GRAY ELECTRICAL CONDUIT FOR FLOW SENSOR / MASTER VALVE WIRES OR CENTRAL CONTROL COMMUNICATION CABLE, PROVIDE PULL BOX AT A MAXIMUM OF 200 FEET ON CENTER FOR A 3 FOOT WIRE LOOP OR ANY SPLICES. INSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX.					N/A
NO SYMBOL				PAIGE ELECTRIC	P7079D POLYETHYLENE INSULATED, SOLID COPPER CONDUCTOR IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED). PILOT WIRES SHALL BE RED IN COLOR, COMMON GROUND WIRE SHALL BE WHITE IN COLOR, SPARE WIRES SHALL BE YELLOW IN COLOR. WHERE MULTIPLE CONTROLLERS ARE USED ON THE PROJECT, EACH CONTROLLER SHALL HAVE A DIFFERENT COLOR FOR PILOT WIRES. THE CONTRACTOR SHALL ROUTE TWO (2) SPARE CONTROL WIRES (YELLOW) FROM THE CONTROLLER ALONG THE MAINLINE IN ALL DIRECTIONS AWAY FROM THE CONTROLLER. LOOP SPARE WIRES UP AND INTO EACH VALVE BOX ALONG THE MAINLINE, PROVIDING A 3 FOOT MINIMUM LOOP.					L,M,P
NO SYMBOL				3M	DBR/Y-6 DIRECT BURIAL (I.L. APPROVED) WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE SPLICES AND CONNECTIONS					Q
NO SYMBOL				NDS	PRO-PLUS AND PRO SERIES VALVE BOXES, SIZE PER EQUIPMENT LEGEND, WITH T-COVER LIDS AND CAPTIVE BOLT AND LOC-KIT. FOR ROUND AIR RELIEF VALVES USE MODEL 208BC, 10" ROUND SHALL BE MODEL 312BCB, 14" x 19" STANDARD RECTANGULAR. SHALL BE MODEL 314BCB, 13"x 20" JUMBO RECT. SHALL BE MODEL 318BCB, 13"x24" JUMBO SHALL BE MODEL 221BCB, AND 17"x30" JUMBO SHALL BE MODEL 224BCB. VALVE BOXES SHALL HAVE GREEN HDPE BODY AND LIDS. FOR USE IN NON-VEHICULAR TRAFFIC SITUATIONS ONLY. DO NOT INSTALL IN CONCRETE OR ASPHALT.					R

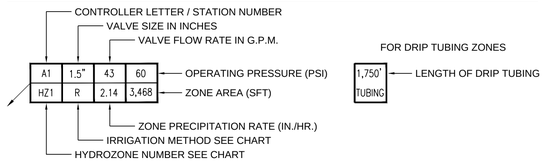
IRRIGATION NOTES

1. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE CITY'S REPRESENTATIVE.
3. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
5. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
6. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE CITY.
7. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
8. ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE CITY'S AUTHORIZED REPRESENTATIVE.
9. CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
10. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
11. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
12. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
13. CONTRACTOR SHALL INSTALL ADDITIONAL CHECK VALVES TO HEADS AND LATERALS AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.
14. THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS. SWEENEY AND ASSOCIATES RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.
15. THE CONTRACTOR IS REQUIRED TO CONTACT DIGALERT OR 811 A MINIMUM OF TWO (2) DAYS PRIOR TO THE START OF ANY EXCAVATIONS ON THE PROJECT AND SPECIFICALLY PRIOR TO THE INSTALLATION OF ANY GROUNDING RODS. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG TO START A PROJECT TICKET. DIGALERT AND 811 IS A FREE SERVICE PROVIDED TO THE PROJECT. FAILURE TO CONTACT AND HAVE THE EXISTING UTILITIES IDENTIFIED, LOCATED AND MARKED SHALL MAKE THE CONTRACTOR SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES.

HYDROZONE DESCRIPTION CHART	
NUMBER	DESCRIPTION OF THE HYDROZONE
HZ 1	TURF WITH ROTOR HEADS
HZ 2	TURF WITH MP ROTATOR HEADS
HZ 3	TURF WITH ROTOR HEADS
HZ 4	SHRUBS WITH MP ROTATOR HEADS
HZ 5	SHRUBS WITH DRIP

IRRIGATION METHOD DESCRIPTION CHART	
NUMBER	DESCRIPTION OF THE IRRIGATION METHOD
MPR	OVERHEAD MP ROTATORS
R	OVERHEAD ROTOR HEADS
B	BUBBLERS
DT	DRIP TUBING
TDT	TURF DRIP TUBING

VALVE CALLOUT LEGEND



WATER AUDIT AND MAINTENANCE SCHEDULE

THE CONTRACTOR WILL CONDUCT AN IRRIGATION AUDIT USING A CERTIFIED IRRIGATION AUDITOR, AFTER THE FINAL FIELD OBSERVATION HAS BEEN COMPLETED AND ALL IRRIGATION COMPONENTS ARE INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THE IRRIGATION SYSTEM IS ACCEPTED BY THE PROJECT ARCHITECT FOR MAINTENANCE.

THE IRRIGATION AUDIT WILL BE CONDUCTED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

1. PLACE FLAGS AT EACH HEAD IN THE ZONE
2. MEASURE SPACING AND MARK MID POINTS BETWEEN HEADS.
3. PLACE WATER MEASURING RECEPTACLES.
4. TAKE READINGS OF WATER LEVEL IN RECEPTACLES AND RECORD RESULTS.
5. MEASURE HEAD PRESSURE IN EACH ZONE AND RECORD RESULTS.
6. AFTER COMPLETING ZONE ADVANCE TO NEXT ZONE AND REPEAT PROCEDURE.
7. SUBMIT THE RESULTS OF THE AUDIT TO THE PROJECT ARCHITECT.

THE IRRIGATION MAINTENANCE SCHEDULE TASKS LISTED BELOW ARE INTENDED AS MINIMUM STANDARDS AND MORE FREQUENT ATTENTION MAY BE REQUIRED DEPENDING ON THE PARTICULAR SITE CONDITIONS.

MAINTENANCE TASK

1. CONTROLLER CABINET - OPEN CABINET AND CLEAN OUT DEBRIS AND REPLACE BATTERY AS NECESSARY. CHECK WIRING AND REPAIR AS NEEDED AND CHECK CLOCK AND RESET IF NECESSARY.
FREQUENCY: QUARTERLY

2. IRRIGATION SCHEDULE - ADJUST SCHEDULE FOR SEASONAL VARIATIONS AND OTHER CONDITIONS WHICH MAY AFFECT THE AMOUNT OF WATER NEEDED TO MAINTAIN PLANT HEALTH ADJUST AS NECESSARY.
FREQUENCY: MONTHLY

3. POC - VISUALLY INSPECT COMPONENTS FOR LEAKS, PRESSURE SETTINGS, SETTLEMENT OR OTHER DAMAGE AFFECTING THE OPERATION OF A COMPONENT. REPAIR AS NEEDED.
FREQUENCY: QUARTERLY

4. REMOTE CONTROL VALVES, ISOLATION VALVES AND QUICK COUPLER VALVES - VISUALLY INSPECT FOR LEAKS, SETTLEMENT, WIRE CONNECTIONS AND PRESSURE SETTINGS. REPAIR OR ADJUST AS NEEDED.
FREQUENCY: QUARTERLY

5. MAINLINE & LATERALS - VISUALLY INSPECT FOR LEAKS OR SETTLEMENT OF TRENCH.
FREQUENCY: QUARTERLY

6. SPRINKLERS - VISUALLY CHECK FOR ANY BROKEN MISALIGNED OR CLOGGED HEADS. HEADS WITH INCORRECT ARC, INADEQUATE COVERAGE OR OVERSPRAY AND LOW HEAD DRAINAGE. REPAIR AS NEEDED.
FREQUENCY: WEEKLY

7. FILTERS AND STRAINERS - VISUALLY CHECK FOR LEAKS, BROKEN FITTING, CLEAN AND FLUSH SCREENS.

AUDIT SHALL BE IN ACCORDANCE WITH THE LATEST STATE OF CALIFORNIA LANDSCAPE WATER MANAGEMENT PROGRAM AS DESCRIBED IN THE LATEST LANDSCAPE IRRIGATION AUDITOR HANDBOOK. THE LANDSCAPE IRRIGATION AUDITS TO BE CONDUCTED BY A QUALIFIED INDIVIDUAL AND THE AUDIT SCHEDULE SHALL BE CONDUCTED AT LEAST ONCE EVERY FIVE YEARS IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 20, DIVISION 1 OF THE LOS ANGELES COUNTY CODE.

MAINTENANCE SCHEDULES. A REGULAR MAINTENANCE SCHEDULE SATISFYING THE FOLLOWING CONDITIONS SHALL BE SUBMITTED AS PART OF THE LANDSCAPE DOCUMENTATION PACKAGE.

LANDSCAPE SHALL BE MAINTAINED TO ENSURE WATER EFFICIENCY. A REGULAR MAINTENANCE SCHEDULE SHALL INCLUDE, BUT NOT BE LIMITED TO, CHECKING, ADJUSTING, AND REPAIRING IRRIGATION EQUIPMENT, RESETTING THE AUTOMATIC CONTROLLER, AERATING AND DETHATCHING TURF AREAS, REPLENISHING MULCH, FERTILIZING, PRUNING, AND WEEDING IN ALL LANDSCAPE AREAS.

WHENEVER POSSIBLE, REPAIR OF IRRIGATION EQUIPMENT SHALL BE DONE WITH THE ORIGINALLY SPECIFIED MATERIALS OR THEIR EQUIVALENTS.

A LANDSCAPE IRRIGATION AUDIT SCHEDULE AS REQUIRED IN CHAPTER 20.09 OF TITLE 20 MAY BE RECOMMENDED. THE MAXIMUM PERIOD BETWEEN AUDITS SHALL BE FIVE YEARS.

LANDSCAPE IRRIGATION AUDIT SCHEDULES. A SCHEDULE OF LANDSCAPE IRRIGATION AUDITS OF AT LEAST EVERY FIVE YEARS MUST BE ESTABLISHED, FOR ALL BUT SINGLE-FAMILY RESIDENCES, AND OTHER PROJECTS WITH LANDSCAPE AREA LESS THAN 1 ACRE (0.405 HA). AS REQUIRED IN CHAPTER 20.09 OF TITLE 20 (UTILITY CODES), AN AUDIT SATISFYING THE FOLLOWING CONDITIONS SHALL BE SUBMITTED TO THE COUNTY AS PART OF THE LANDSCAPE DOCUMENTATION PACKAGE.

AT A MINIMUM, AUDITS SHALL BE IN ACCORDANCE WITH THE LATEST STATE OF CALIFORNIA LANDSCAPE WATER MANAGEMENT PROGRAM AS DESCRIBED IN THE LANDSCAPE IRRIGATION AUDITOR HANDBOOK, PREPARED FOR THE CALIFORNIA DEPARTMENT OF WATER RESOURCES, WATER CONSERVATION OFFICE, THE ENTIRE DOCUMENT, WHICH IS HEREBY INCORPORATED BY REFERENCE.

THE SCHEDULE SHALL PROVIDE FOR LANDSCAPE IRRIGATION AUDITS TO BE CONDUCTED BY A QUALIFIED INDIVIDUAL AS DETERMINED BY THE DIRECTOR AT LEAST ONCE EVERY FIVE YEARS IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 20, DIVISION 1 OF THE LOS ANGELES COUNTY CODE.

CONTRACTOR TO PROTECT AND PRESERVE IN PLACE ALL EXISTING SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE RESET BY A LICENSED LAND SURVEYOR AND THE APPROPRIATE CORNER RECORD MUST BE FILED WITH THE COUNTY OF LOS ANGELES.

NOTE

REFER TO SHEET 13 - 15 FOR DETAILS

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

sweeney + associates
IRRIGATION DESIGN AND CONSULTING
38730 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461-6830
w: www.sweeneyassoc.com f: (951) 461-6830

ACCEPTED

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

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

CITY OF POMONA
PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENT

IRRIGATION LEGEND&NOTES

Know what's below. Call before you dig.

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

FOR UNDERGROUND SERVICE ALERT CALL:
811

REGISTERED LANDSCAPE ARCHITECT ROBERT W. STONE No. 1891 STATE OF CALIFORNIA
Signature
SEPTEMBER 30, 2019
Expiration Date
02/27/2018
Date

PLANS PREPARED UNDER THE SUPERVISION OF:

ROBERT STONE RLA 1891 02/27/2018 DATE

NŪVIS LANDSCAPE ARCHITECTURE

△	REVISIONS	DATE	INITIAL

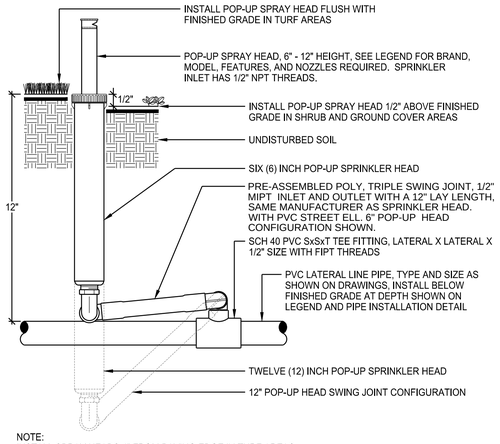
SCALE AS SHOWN

DESIGNED: DZ
DRAWN: CB
CHECKED: DZ
REVIEWED: DZ

SHT. 12 OF 22 SHTS

Z:\DWG\16217-01 Lincoln Park, City of Pomona\NUVIS\CD\SHEETS\16217-01_LIP2.dwg 2/27/18 14:54

FO-195E



NOTE:
INSTALL SPRAY HEADS 4" FROM PAVING EDGE IN TURF AREAS.
INSTALL SPRAY HEADS 6" FROM PAVING EDGE IN SHRUB AND GROUND COVER AREAS.
INSTALL SPRAY HEADS 12" FROM THE FACE OF BUILDING WALLS OR WINDOWS.

INSTALL SPRAY HEADS PLUMB. ADJUST NOZZLE STREAM TO COVER THE LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS OR BUILDINGS.

SECTION VIEW - N.T.S.

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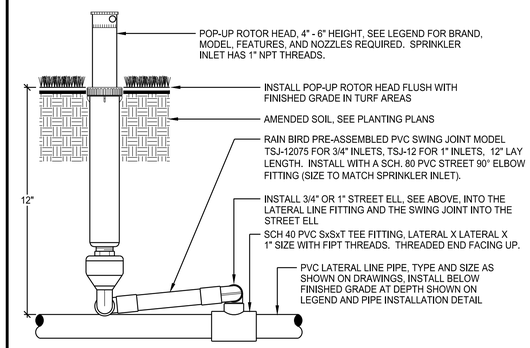
(A) POP-UP SPRINKLER HEAD

(B) DETAIL NOT USED



NOTE:
INSTALL ROTOR HEADS 4" FROM PAVING EDGE IN TURF AREAS.

INSTALL ROTOR HEADS PLUMB. ADJUST NOZZLE STREAM TO COVER THE LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS OR BUILDINGS.

SECTION VIEW - N.T.S.

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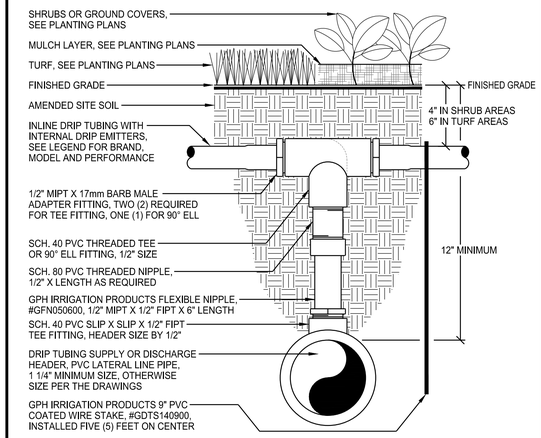
(C) POP-UP ROTOR HEAD



NOTE:
DRIP TUBING CONNECTION REQUIRED FOR ALL CONNECTIONS BETWEEN DRIP TUBING AND PVC HEADERS.
FOR CONNECTIONS AT END RUNS OF TUBING, USE A 90° ELL FITTING AND ONE ADAPTER FITTING FOR CONNECTION.
FOR CONNECTIONS IN THE MIDDLE OF RUNS OF TUBING, USE A TEE FITTING AND TWO ADAPTER FITTINGS FOR THE CONNECTION.

SECTION VIEW - N.T.S.

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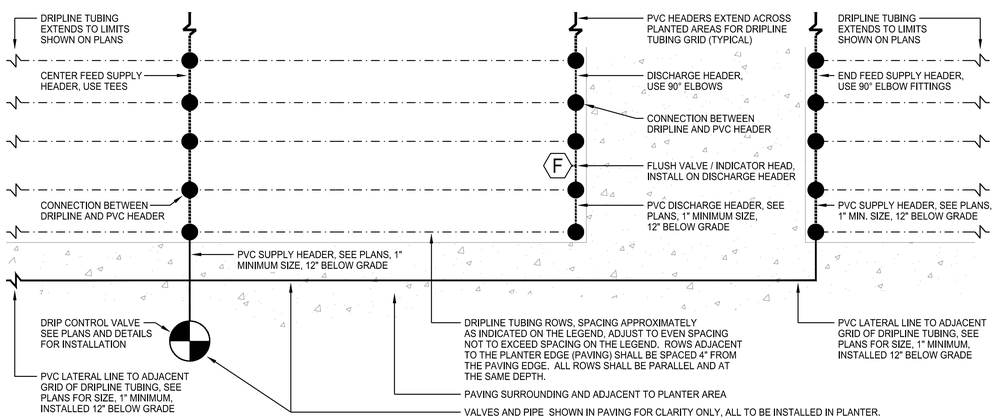
(D) DRIP CONNECTION



PLAN VIEW - N.T.S.

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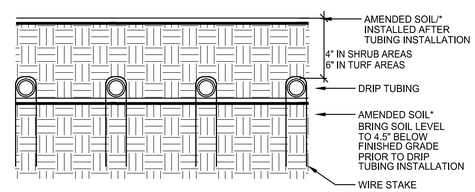
(E) DRIP TUBING LAYOUT



* AS PER LANDSCAPE DRAWINGS

RECOMMENDED INSTALLATION:

TO INSURE EVEN PARALLEL AND LEVEL TUBING ROWS IT IS RECOMMENDED THAT THE SOIL LEVEL IN THE PLANTER AREAS BE BROUGHT TO 4.5" BELOW FINISHED GRADE AND PROPERLY COMPACTED AS PER THE LANDSCAPED DRAWINGS PRIOR TO THE INSTALLATION OF THE TUBING.

INSTALL TUBING AS INDICATED ON THESE DRAWINGS AND SECURE TO GRADE USING WIRE HOOP STAKES AT 5 FEET ON CENTER SPACING.

BACKFILL FINAL 4.5" OF SOIL OVER THE TUBING AFTER INSTALLATION OF THE TUBING AND OBSERVATION BY THE CITY'S AUTHORIZED REPRESENTATIVE.

SECTION VIEW - N.T.S.

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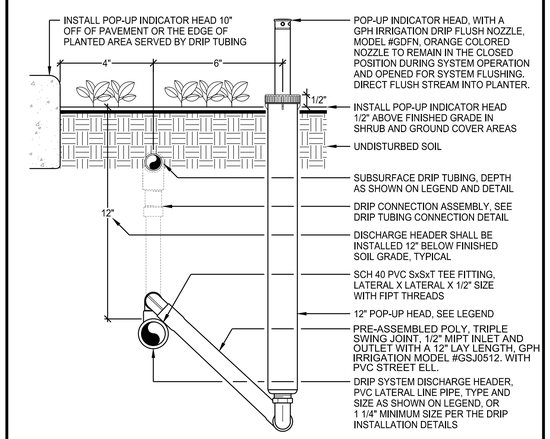
(F) DRIP TUBING LAYOUT (SECTION)



NOTE:
INSTALL INDICATOR HEAD 10" FROM THE EDGE OF PAVING OR THE PLANTER EDGE.

INSTALL ORANGE COLORED INDICATOR NOZZLE ON POP-UP HEAD AND ADJUST TO FULLY CLOSED.

SECTION VIEW - N.T.S.

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(G) FLUSH VALVE/INDICATOR HEAD

NOTE

REFER TO SHEET 12 FOR LEGEND AND NOTES

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

ACCEPTED

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

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

sweeney + associates
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CITY OF POMONA

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STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

ROBERT STONE RLA 1891 02/27/2018 DATE

NŪVIS LANDSCAPE ARCHITECTURE

△	REVISIONS	DATE	INITIAL

SCALE AS SHOWN

DESIGNED: DZ
DRAWN: CB
CHECKED: DZ
REVIEWED: DZ

SHT. 13 OF 22 SHTS

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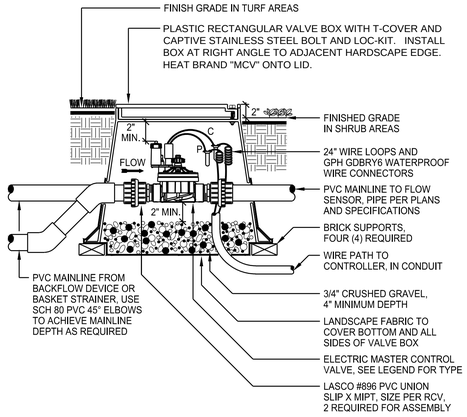

NOTE:
USE STANDARD OPENINGS PROVIDED IN VALVE BOX FOR PIPE, DO NOT CUT BOX.

SECTION VIEW - N.T.S.

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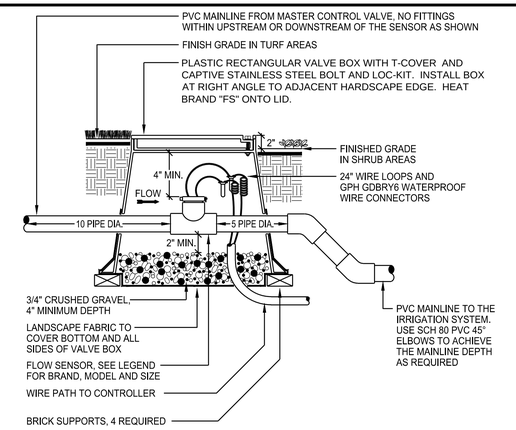
(H) MASTER CONTROL VALVE



NOTE:
USE STANDARD OPENINGS PROVIDED IN VALVE BOX FOR PIPE, DO NOT CUT BOX.

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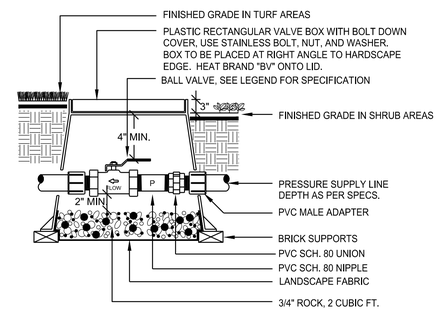
(I) FLOW SENSOR



NOTE:
BOX TO BE INSTALLED AS TO ALLOW FOR PROPER OPERATION OF BALL VALVE
INSTALL AT RIGHT ANGLE TO HARDSCAPE EDGE, INSTALL VALVE OFF-CENTER IN BOX.

INSTALL VALVE BOX EXTENSIONS AS REQUIRED TO ACHIEVE PROPER VALVE INSTALLATION AT MAIN LINE DEPTH.

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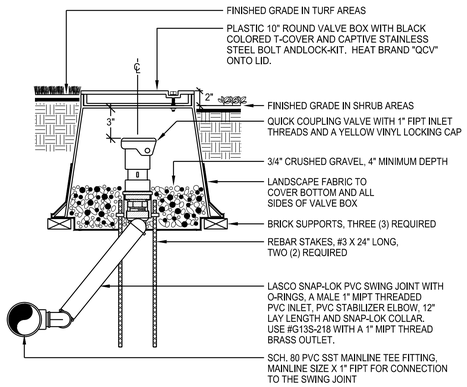
(J) BALL VALVE



NOTE:
WHEN QCV IS LOCATED ON A MANIFOLD, USE A SCH. 80 SxT 90° ELBOW IN PLACE OF THE TEE FITTING. SIZE THE ELBOW AS MANIFOLD MAINLINE SIZE X 1" FIPT.

WHEN USING A 3/4" QUICK COUPLER VALVE, USE A LASCO G13T-212 SWING JOINT WITH A 3/4" BRASS OUTLET FOR CONNECTION TO THE QCV INLET. ALL OTHER PARTS OF SWING JOINT SHALL REMAIN 1" SIZE.

USE A NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.

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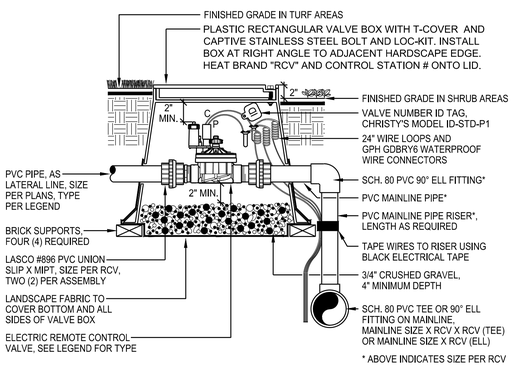
(K) QUICK COUPLER VALVE



NOTE:
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.
USE STANDARD BOX OPENINGS FOR ALL PIPING INTO THE BOX, DO NOT CUT THE BOX.

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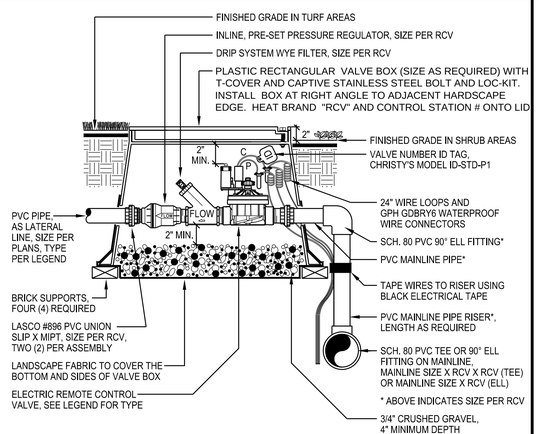
(L) REMOTE CONTROL VALVE



NOTE:
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.
USE STANDARD BOX OPENINGS FOR ALL PIPING INTO THE BOX, DO NOT CUT THE BOX.

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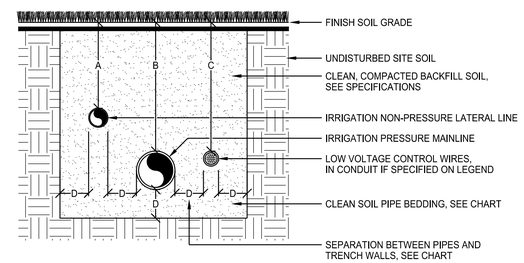
(M) DRIP REMOTE CONTROL VALVE



PIPE SIZES	A	B	C	D
SIZES 3/4" TO 2 1/2"	12"	18"	18"	4"
SIZES 3" AND 4"	18"	24"	24"	4"
SIZES 6" AND LARGER	X	30"	24"	6"

NOTE:
CONTRACTOR IS REQUIRED TO CONTACT 811 OR DIGALERT A MINIMUM OF TWO (2) DAYS PRIOR TO ANY EXCAVATION ON THE PROJECT. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG.

SECTION VIEW - N.T.S.

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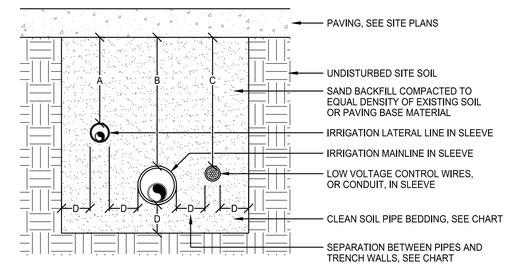
(N) PIPE INSTALLATION



PIPE SIZES	A	B	C	D
UNDER PEDESTRIAN PAVING	12"	24"	24"	4"
UNDER VEHICULAR PAVING	24"	36"	36"	6"

NOTE:
CONTRACTOR IS REQUIRED TO CONTACT 811 OR DIGALERT A MINIMUM OF TWO (2) DAYS PRIOR TO ANY EXCAVATION ON THE PROJECT. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG.

SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED WITHIN, EXCEPT WHEN USING BELL AND GASKET PIPING WHERE MAINLINE SLEEVES SHALL BE 2.5 TIMES THE SIZE OF THE PIPE.

SLEEVES SHALL EXTEND 12" PAST THE EDGE OF PAVING INTO THE PLANTER.

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(O) SLEEVE INSTALLATION

NOTE

REFER TO SHEET 12 FOR LEGEND AND NOTES

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

sweeney + associates
IRRIGATION DESIGN AND CONSULTING
38730 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461-6830
w: www.sweeneyassoc.com f: (951) 461-6850

ACCEPTED

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

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

CITY OF POMONA
PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENT

IRRIGATION DETAILS

Know what's below. Call before you dig.

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

FOR UNDERGROUND SERVICE ALERT CALL:
811

REGISTERED LANDSCAPE ARCHITECT
ROBERT M. STONE No. 1891
Signature
SEPTEMBER 30, 2019
Expiration Date
02/27/2018
Date
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

ROBERT STONE RLA 1891 02/27/2018 DATE

NUVIS LANDSCAPE ARCHITECTURE

△	REVISIONS	DATE	INITIAL

SCALE AS SHOWN

DESIGNED: DZ
DRAWN: CB
CHECKED: DZ
REVIEWED: DZ

SHT. 14 OF 22 SHTS

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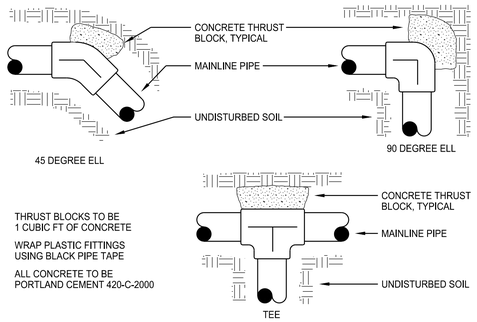

PLAN VIEW - N.T.S.

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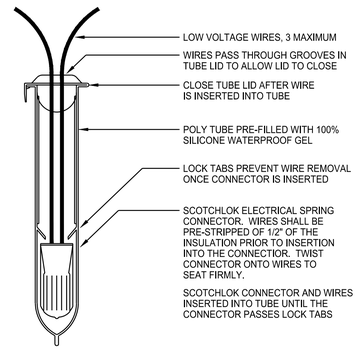
(P) THRUST BLOCKS



NOTE:
WIRE CONNECTOR SHALL BE A GPH IRRIGATION GDBRY6 DIRECT BURY SPLICE KIT.

KIT SHALL INCLUDE A SCOTCHLOK SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A 100% SILICONE WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PRE-FILLED WITH GEL.

SECTION VIEW - N.T.S.

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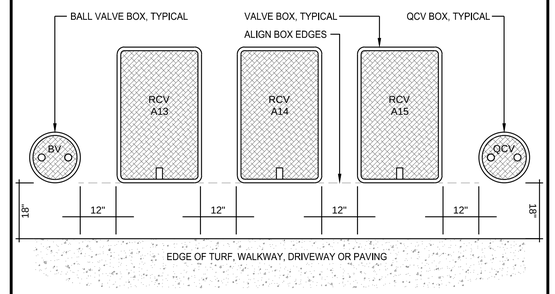
(Q) WIRE CONNECTION

NOTE:
1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE OR DRIP ASSEMBLY TO FACILITATE SERVICING OF THE VALVE OR EQUIPMENT.
2. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER OR SHRUB AREAS WHERE EVER POSSIBLE, VALVES IN TURF AREAS TO BE APPROVED BY LANDSCAPE ARCHITECT.
3. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO ADJACENT PAVING EDGE.
4. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT THE COLLAPSE AND / OR DEFORMATION OF VALVE BOXES.
5. BOX LOCATIONS SHALL BE STAKED IN THE FIELD PRIOR TO MAINLINE INSTALLATION FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT.



NOTE:
VALVE BOXES SHALL BE INSTALLED IN SHRUB AND GROUND COVER AREAS. NO VALVES SHALL BE INSTALLED IN TURF AREAS WITHOUT PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT.

PLAN VIEW - N.T.S.

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(R) VALVE BOX LAYOUT

ADD ALT WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package

Project Name: Lincoln Park Improvement
Project Address: Pomona, California

sweeney + associates — IRRIGATION DESIGN AND CONSULTING

Reference Evapotranspiration (ETo) 47.5 In./Yr. **Residential Project?** No

Hydrozone # / Planting Description[a]	Plant Factor	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF / IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
4. Low Water Use Planting	0.30	Overhead	0.75	0.40	11,479	4,592	135,223
5. Low Water Use Planting	0.30	Drip	0.81	0.38	1,711	650	19,148
				Totals:	**13,190**	**5,242**	
Special Landscape Areas							
1-3. Active Turf				1.00	113,267	113,267	3,335,713
				Totals:	**113,267**	**113,267**	
						Estimated Total Water Use (ETWU) Total:	**3,490,084**
						Maximum Applied Water Allowance (MAWA)[e]:	**3,510,514**

[a] Hydrozone # / Planting Description	[b] Irrigation Method	[c] Irrigation Efficiency
E.g.	*Overhead Spray of*	*0.75 for Spray*
1.) Front Lawn	*Drip*	*0.81 for Drip*
2.) Low Water Use Plantings		
3.) Medium Water Use Plantings		

[d] ETWU (Annual Gallons Required) *= ETo x 0.62 x ETAF x Area*
Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year.

[e] MAWA (Annual Gallons Allowed) *= ETo x 0.62 x [(ETAF x LA) + ((1 - ETAF) x SLA)]*
Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year,
LA is the total landscape area in square feet, SLA is the total special landscape area in square feet,
and ETAF is 0.55 for residential projects and 0.45 for non-residential projects.

Evapotranspiration Adjustment Factor (ETAF) Calculations

This non-residential project complies with the WELO and its average ETAF is less than 0.45

Regular Landscape Areas	
Total ETAF x Area	5,242
Total Area	13,190
Average ETAF	**0.4**

All Landscape Areas	
Total ETAF x Area	118,509
Total Area	126,457
Average ETAF	**0.94**

BID SET WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package

Project Name: Lincoln Park Improvement
Project Address: Pomona, California

sweeney + associates — IRRIGATION DESIGN AND CONSULTING

Reference Evapotranspiration (ETo) 47.5 In./Yr. **Residential Project?** No

Hydrozone # / Planting Description[a]	Plant Factor	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF / IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
4. Low Water Use Planting	0.30	Overhead	0.75	0.40	10,165	4,066	119,744
				Totals:	**10,165**	**4,066**	
Special Landscape Areas							
1-3. Active Turf				1.00	37,087	37,087	1,092,212
				Totals:	**37,087**	**37,087**	
						Estimated Total Water Use (ETWU) Total:	**1,211,956**
						Maximum Applied Water Allowance (MAWA)[e]:	**1,226,924**

[a] Hydrozone # / Planting Description	[b] Irrigation Method	[c] Irrigation Efficiency
E.g.	*Overhead Spray of*	*0.75 for Spray*
1.) Front Lawn	*Drip*	*0.81 for Drip*
2.) Low Water Use Plantings		
3.) Medium Water Use Plantings		

[d] ETWU (Annual Gallons Required) *= ETo x 0.62 x ETAF x Area*
Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year.

[e] MAWA (Annual Gallons Allowed) *= ETo x 0.62 x [(ETAF x LA) + ((1 - ETAF) x SLA)]*
Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year,
LA is the total landscape area in square feet, SLA is the total special landscape area in square feet,
and ETAF is 0.55 for residential projects and 0.45 for non-residential projects.

Evapotranspiration Adjustment Factor (ETAF) Calculations

This non-residential project complies with the WELO and its average ETAF is less than 0.45

Regular Landscape Areas	
Total ETAF x Area	4,066
Total Area	10,165
Average ETAF	**0.4**

All Landscape Areas	
Total ETAF x Area	41,153
Total Area	47,252
Average ETAF	**0.87**

BID SET IRRIGATION CONTROLLER RUN TIMES

POC or Controller				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total / Avg.
A			ETo / Month (Inches):	1.70	2.00	3.40	4.50	5.00	5.80	6.50	6.40	4.70	3.50	2.30	1.70	**47.50**
			ETo / Day (Inches):	0.05	0.07	0.11	0.15	0.16	0.19	0.21	0.21	0.16	0.11	0.08	0.05	**0.13**
			Irrigation Days / Week:	3	4	4	5	5	6	6	6	5	4	4	3	
Plant / Irrig. Type	**AKc**	**Pr Rate**	**IE**	**JAN**	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	**NOV**	**DEC**	
Turf	0.80	2.14	0.75	3.8	3.7	5.7	6.3	6.8	6.7	7.3	7.2	6.6	5.9	4.0	3.8	Min./Day/Zone
I-40 (FULL)	**Number of Zones:**		7	**26.8**	**26.2**	**40.2**	**44.0**	**47.3**	**47.2**	**51.2**	**50.4**	**45.9**	**41.4**	**28.1**	**26.8**	**Total Min./Day**
Turf	0.80	4.28	0.75	1.9	1.9	2.9	3.1	3.4	3.4	3.7	3.6	3.3	3.0	2.0	1.9	Min./Day/Zone
I-40 (HALF)	**Number of Zones:**		3	**5.7**	**5.6**	**8.6**	**9.4**	**10.1**	**10.1**	**11.0**	**10.8**	**9.8**	**8.9**	**6.0**	**5.7**	**Total Min./Day**
Turf	0.80	0.45	0.75	18.2	17.8	27.3	29.9	32.1	32.1	34.8	34.3	31.2	28.1	19.1	18.2	Min./Day/Zone
MP Rotators	**Number of Zones:**		1	**18.2**	**17.8**	**27.3**	**29.9**	**32.1**	**32.1**	**34.8**	**34.3**	**31.2**	**28.1**	**19.1**	**18.2**	**Total Min./Day**
Turf	0.80	0.94	0.81	8.1	7.9	12.1	13.2	14.2	14.2	15.4	15.2	13.8	12.5	8.5	8.1	Min./Day/Zone
Drip Tubing	**Number of Zones:**		2	**16.1**	**15.8**	**24.2**	**26.5**	**28.5**	**28.4**	**30.8**	**30.4**	**27.7**	**24.9**	**16.9**	**16.1**	**Total Min./Day**
Shrubs	0.40	0.40	0.75	10.2	10.0	15.4	16.8	18.1	18.0	19.6	19.3	17.5	15.8	10.7	10.2	Min./Day/Zone
MP Rotators	**Number of Zones:**		2	**20.5**	**20.0**	**30.7**	**33.6**	**36.1**	**36.1**	**39.1**	**38.5**	**35.1**	**31.6**	**21.5**	**20.5**	**Total Min./Day**
			Total Number of Zones:	**15**	87	85	131	143	154	154	167	164	150	135	92	87	Total Min./Day
			Total Controller Run Time in Hours:	**1.46**	**1.42**	**2.18**	**2.39**	**2.57**	**2.57**	**2.78**	**2.74**	**2.49**	**2.25**	**1.53**	**1.46**	**Total Hrs./Day**
				JAN	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	**NOV**	**DEC**	

Note: **These schedules are intended only for compliance with local municipal codes and the water efficient landscape ordinance. These calculations represent the MAXIMUM REASONABLE run times and are used to ensure that all irrigation may be completed during the specific watering window allowed. These schedules do not include rainfall, site soil types, specicic exposures (shade versus sun), actual irrigation days, or specific slope position. It is solely the responsibility of the irrigation contractor to program the controller as required to apply the correct amount of irrigation water for the landscape. All smart controllers shall be programmed using the specified ET or weather sensing equipment, satellite provided ET data, soil moisture sensors, and rain shut off devices as required. Contractor shall provide a controller schedule inside the controller cabinet prior to final turnover of the project to the owner.**

ADD ALT IRRIGATION CONTROLLER RUN TIMES

POC or Controller				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total / Avg.
A			ETo / Month (Inches):	1.70	2.00	3.40	4.50	5.00	5.80	6.50	6.40	4.70	3.50	2.30	1.70	**47.50**
			ETo / Day (Inches):	0.05	0.07	0.11	0.15	0.16	0.19	0.21	0.21	0.16	0.11	0.08	0.05	**0.13**
			Irrigation Days / Week:	3	4	4	5	5	6	6	6	5	4	4	3	
Plant / Irrig. Type	**AKc**	**Pr Rate**	**IE**	**JAN**	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	**NOV**	**DEC**	
Turf	0.80	0.70	0.75	11.7	11.4	17.5	19.2	20.6	20.6	22.4	22.0	20.1	18.1	12.3	11.7	Min./Day/Zone
Rotors	**Number of Zones:**		21	**245.7**	**240.0**	**368.5**	**403.2**	**433.5**	**433.1**	**469.7**	**462.5**	**421.1**	**379.4**	**257.6**	**245.7**	**Total Min./Day**
Turf	0.80	0.45	0.75	18.2	17.8	27.3	29.9	32.1	32.1	34.8	34.3	31.2	28.1	19.1	18.2	Min./Day/Zone
MP Rotators	**Number of Zones:**		2	**36.4**	**35.6**	**54.6**	**59.7**	**64.2**	**64.2**	**69.6**	**68.5**	**62.4**	**56.2**	**38.2**	**36.4**	**Total Min./Day**
Turf	0.80	0.94	0.81	8.1	7.9	12.1	13.2	14.2	14.2	15.4	15.2	13.8	12.5	8.5	8.1	Min./Day/Zone
Drip Tubing	**Number of Zones:**		3	**24.2**	**23.6**	**36.3**	**39.7**	**42.7**	**42.7**	**46.3**	**45.6**	**41.5**	**37.4**	**25.4**	**24.2**	**Total Min./Day**
Shrubs	0.40	0.40	0.75	10.2	10.0	15.4	16.8	18.1	18.0	19.6	19.3	17.5	15.8	10.7	10.2	Min./Day/Zone
MP Rotators	**Number of Zones:**		3	**30.7**	**30.0**	**46.1**	**50.4**	**54.2**	**54.1**	**58.7**	**57.8**	**52.6**	**47.4**	**32.2**	**30.7**	**Total Min./Day**
Shrubs	0.40	0.77	0.81	4.9	4.8	7.4	8.1	8.7	8.7	9.4	9.3	8.4	7.6	5.2	4.9	Min./Day/Zone
Drip Tubing	**Number of Zones:**		2	**9.8**	**9.6**	**14.8**	**16.2**	**17.4**	**17.4**	**18.8**	**18.5**	**16.9**	**15.2**	**10.3**	**9.8**	**Total Min./Day**
			Total Number of Zones:	**31**	347	339	520	569	612	611	663	653	595	536	364	347	Total Min./Day
			Total Controller Run Time in Hours:	**5.78**	**5.65**	**8.67**	**9.49**	**10.20**	**10.19**	**11.05**	**10.88**	**9.91**	**8.93**	**6.06**	**5.78**	**Total Hrs./Day**
				JAN	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	**NOV**	**DEC**	

Note: **These schedules are intended only for compliance with local municipal codes and the water efficient landscape ordinance. These calculations represent the MAXIMUM REASONABLE run times and are used to ensure that all irrigation may be completed during the specific watering window allowed. These schedules do not include rainfall, site soil types, specicic exposures (shade versus sun), actual irrigation days, or specific slope position. It is solely the responsibility of the irrigation contractor to program the controller as required to apply the correct amount of irrigation water for the landscape. All smart controllers shall be programmed using the specified ET or weather sensing equipment, satellite provided ET data, soil moisture sensors, and rain shut off devices as required. Contractor shall provide a controller schedule inside the controller cabinet prior to final turnover of the project to the owner.**

NOTE
REFER TO SHEET 12 FOR LEGEND AND NOTES

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

sweeney + associates
IRRIGATION DESIGN AND CONSULTING
38730 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461-6830
w: www.sweeneyassoc.com f: (951) 461-6850

ACCEPTED
BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

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

CITY OF POMONA
PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENT

IRRIGATION DETAILS

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

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

FOR UNDERGROUND SERVICE ALERT CALL:
811

REGISTERED LANDSCAPE ARCHITECT — ROBERT W. STONE No. 1891 — STATE OF CALIFORNIA
Signature
SEPTEMBER 30, 2019
Expiration Date
02/27/2018
Date

PLANS PREPARED UNDER THE SUPERVISION OF:
ROBERT STONE RLA 1891 02/27/2018 DATE

NUVIS LANDSCAPE ARCHITECTURE

△	REVISIONS	DATE	INITIAL

SCALE AS SHOWN

DESIGNED: DZ
DRAWN: CB
CHECKED: DZ
REVIEWED: DZ

SHT. 15 OF 22 SHTS

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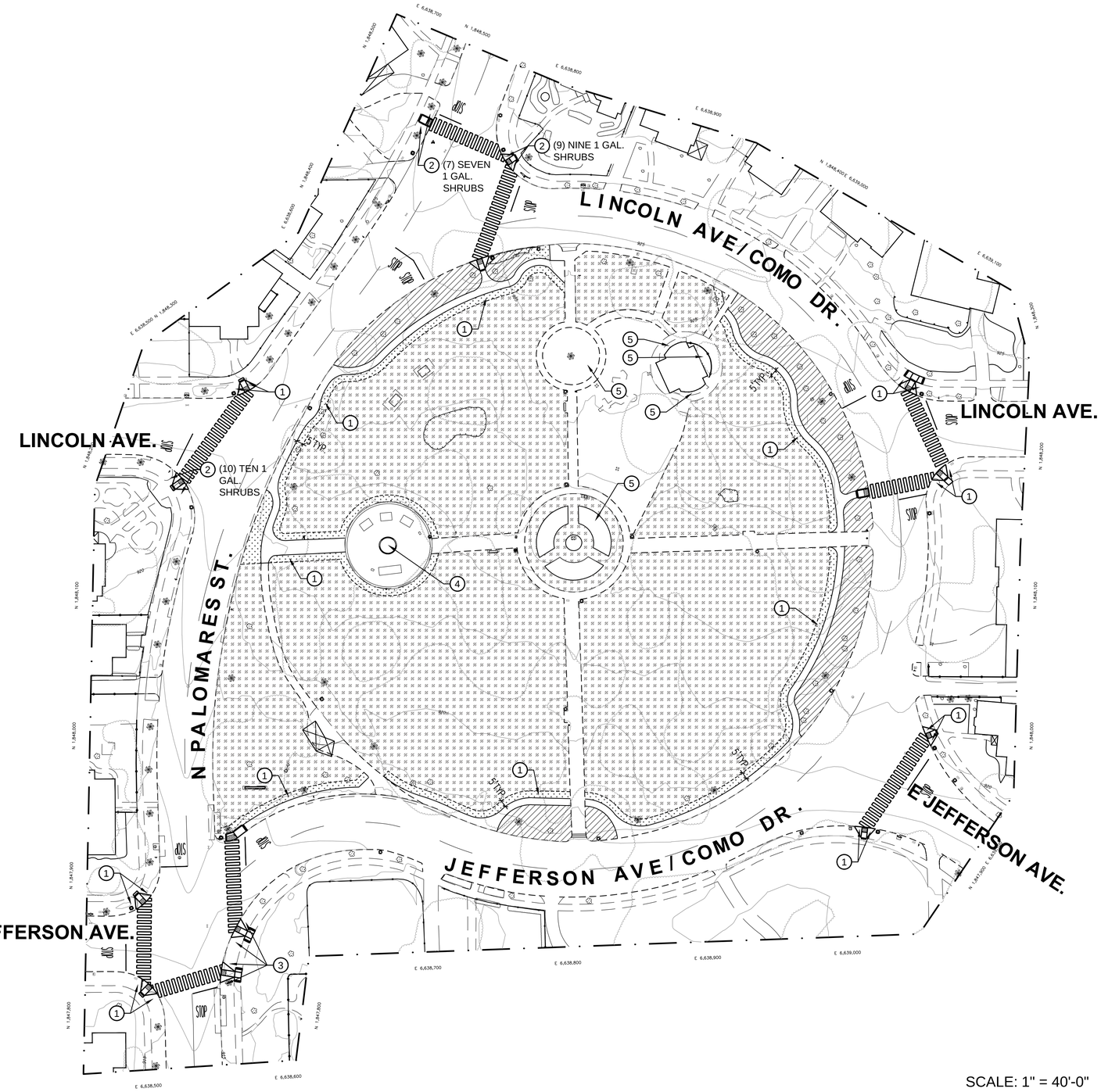
FO-195H



LEGEND

1. CONTRACTOR SHALL REPAIR EXISTING TURF AREAS IN-KIND WITH SODDED TURF - REFER TO NOTE BELOW
2. CONTRACTOR SHALL REPAIR EXISTING SHRUB AREAS IN-KIND. SHRUB PLANTING SHALL BE PROVIDED & INSTALLED TO MATCH ADJACENT LANDSCAPE
3. CONTRACTOR SHALL REPAIR EXISTING D.G. AREAS IN-KIND W/ D.G. WITH MATCHING COLOR AND TEXTURE
4. REFER TO SHEET 9, GENERAL CONSTRUCTION NOTES
5. CONTRACTOR SHALL PROVIDE 3" THICK LAYER OF MULCH IN ALT-BID SHRUB PLANTING AREAS

BASE BID

SODDED TURF - SHALL BE MEDALLION TALL FESCUE AVAILABLE FROM PACIFIC SOD AT (800)942-5296 OR AN APPROVED EQUAL. AREAS NOT NOTED WITH SEED, SOD OR MULCH SHALL BE LEFT AS IS. REFER TO SHEET L-1 FOR ADDITIONAL INFO

ALTERNATIVE BID

UNLESS OTHERWISE NOTED, ALL EXISTING LANDSCAPE SHALL REMAIN AND BE PROTECTED

SEEDED TURF - ENTIRE PARK, SHALL BE MEDALLION TALL FESCUE, BLEND SEEDED AT 12 PER 1000 SQ.FT. AVAILABLE FROM STOVER SEED COMPANY, (800)621-0315, OR AN APPROVED EQUAL

NOTE

REFER TO SHEET 17 FOR PLANT LIST, NOTES & DETAILS.

TREE EXPERT SHALL OVERSEE ALL CONSTRUCTION PHASES OF THE PLAZA AREA (INLAND URBAN FOREST GROUP).

SCALE: 1" = 40'-0"

0' 40' 80' 160'

ACCEPTED

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

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

CITY OF POMONA

PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENT

PLANTING PLAN

DESIGNED: TM
DRAWN: DL
CHECKED: TM
REVIEWED: RS

SHT. 16 OF 22 SHTS

△	REVISIONS	DATE	INITIAL

Know what's below. Call before you dig.

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

FOR UNDERGROUND SERVICE ALERT CALL: 811

REGISTERED LANDSCAPE ARCHITECT ROBERT R. STONE No. 1891 STATE OF CALIFORNIA
Signature
SEPTEMBER 30, 2019
Expiration Date
02/19/2018
Date

PLANS PREPARED UNDER THE SUPERVISION OF:

ROBERT STONE RLA 1891 02/19/2018 DATE

NŪVIS LANDSCAPE ARCHITECTURE

Z:\DWG\16217-01 Lincoln Park, City of Pomona\NUVIS\CD\SHEETS\16217-01_LPP.dwg 2/19/18 09:26

FO-195I

PLANTING PLAN NOTES

1. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL PLANT MATERIAL AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
2. UNLESS DESIGNATED ON THE DRAWINGS OTHERWISE, STRUCTURAL IMPROVEMENTS AND HARDSCAPE SHALL BE INSTALLED PRIOR TO PLANTING OPERATIONS.
3. ALL WORK ON THE IRRIGATION SYSTEM, INCLUDING HYDROSTATIC, COVERAGE, AND OPERATIONAL TESTS AND THE BACKFILLING AND COMPACTION OF TRENCHES SHALL BE PERFORMED PRIOR TO PLANTING OPERATIONS.
4. PLANT LIST ON THE DRAWINGS SHALL BE USED AS A GUIDE ONLY. CONTRACTOR SHALL TAKEOFF AND VERIFY SIZES AND QUANTITIES BY PLAN CHECK.
5. SAMPLES OF FERTILIZERS, ORGANIC AMENDMENT, SOIL CONDITIONERS AND SEE SHALL BE SUBMITTED PRIOR TO INCORPORATION. CONTRACTOR SHALL FURNISH TO THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE A CERTIFICATE OF COMPLIANCE FOR SUCH FURNISHED MATERIALS.
6. LOCATIONS OF PLANT MATERIAL SHALL BE REVIEWED ON SITE BY THE ENGINEER PRIOR TO INSTALLATION.
7. CONTRACTOR SHALL PROPOSED ON AMENDMENTS AS STATED IN THE SPECIFICATIONS. CLIENT OR CONTRACTOR SHALL OBTAIN AGRICULTURAL SOILS TESTING AND RECOMMENDATIONS AFTER GRADING OPERATIONS AND PRIOR TO PLANT INSTALLATION.
8. THE EXISTING OAK TREE AT THE PLAZA SHALL REMAIN & BE PROTECTED. CONTRACTOR SHALL TAKE EXTREME CARE DURING ALL PHASES OF CONSTRUCTION. REFER TO SPECS AND APPENDIX FOR SECTIONS RELATING TO EXISTING OAKS. IN ADDITION, AND UNLESS OTHERWISE NOTED, ALL TREES AND SHRUBS SHALL REMAIN AND BE PROTECTED.
9. TREES SHALL BE PLANTED NO CLOSER THAN TEN FEET (10') FROM UTILITIES.
10. TREES PLANTED WITHIN FIVE FEET (5') OF HARDSCAPE OR STRUCTURES SHALL BE INSTALLED WITH A ROOT BARRIER AS APPROVED BY THE ENGINEER.
11. IF, DURING PLANTING OPERATIONS THERE SEEMS TO MINIMAL OR NO PERCOLATION IN PLANTING PITS, CONTRACTOR SHALL EASE PLANTING OPERATIONS AND IMMEDIATELY NOTIFY THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE TO DISCUSS ALTERNATIVE TO MAINTAINING POSITIVE ROOTBALL DRAINAGE MEASURES.
12. ALL SHRUB PLANTING AREAS SHALL RECEIVE A 3" THICK LAYER OF MULCH.

TREE PRESERVATION NOTES

A. EXISTING TREE PRESERVATION: A CERTIFIED CITY OF POMONA ARBORIST SHALL BE INVITED TO THE PROJECT JOB START MEETING. THE TREE PRESERVATION REQUIREMENTS MUST BE ADHERED TO BY THE CONTRACTOR.

1. NO EQUIPMENT IS TO BE OPERATED OR PARKED UNDER A TREE, NOR SHALL ANY MATERIALS BE STORED WITHIN THE DRIPLINE OF A TREE OR LEANED AGAINST A TREE TRUNK. DO NOT PILE OR COMPACT SOIL WITHIN THE DRIPLINE.
2. IN AREAS OF CONSTRUCTION, PROTECT SOIL SURFACE FROM TRAFFIC COMPACTION WITH 3" OF MULCH OR OVERLAPPING 3/4" PLYWOOD.
3. NO SURFACE IRRIGATION SHALL BE INSTALLED WITHIN THE DRIPLINE OF A TREE.
4. NO CHEMICAL HERBICIDES ARE TO BE USED WITHIN 100 FEET OF A DRIPLINE.
5. DO NOT NAIL GRADE STAKES OR ANYTHING ELSE TO TREES.
6. ENCROACHMENT FROM PAVING OR STRUCTURES WITHIN THE DRIPLINE OF A TREE SHALL BE PERMITTED ONLY WITH WRITTEN AUTHORIZATION FROM THE CERTIFIED CITY OF POMONA ARBORIST.
7. NO ENCROACHMENT WITHIN 10 FEET OF A TREE TRUNK WILL BE PERMITTED UNDER AN CIRCUMSTANCES.
8. NO STREET - LEGAL VEHICLES WITHIN PARK. ALL EQUIPMENT AND TOOLS USED WITHIN PARK SHALL BE LIGHT WEIGHT (LESS THAN 500 LBS PER AXEL WITH TWO TIRES OR EQUIVALENT). HAND OPERATED AND DESIGNATED TO MINIMIZE DISRUPTED AREA.

B. OAK TREE PRESERVATION: ALL WORK AROUND ALL EXISTING OAK TREES AND ALL OTHER TREES SHALL FOLLOW THIS WORK AND ALL OTHER TREES PROCEDURES PROGRAM. THIS PROGRAM HAS BEEN DEVELOPED TO MINIMIZE THE IMPACTS TO EACH TREE AND PROTECT THEM FROM UNSCHEDULED DAMAGE. IN ADDITION, REFER TO SPECS. FOR THE PLAZA OAK AT LINCOLN PARK LEVEL 2 ASSESSMENT REPORT.

1. ALL WORK WITHIN A TREE'S ROOT ZONE SHALL BE OBSERVED BY THE CERTIFIED CITY OF POMONA ARBORIST.
2. THE EXTENT OF ALL AFFECTING OAKS SHALL BE STAKED BY FIELD SURVEY AND REVIEWED WITH THE CERTIFIED CITY OF POMONA ARBORIST.
3. ALL APPROVED PRUNING OF OAKS SHALL BE DONE BY THE CERTIFIED CITY OF POMONA ARBORIST PRIOR TO THE START OF CONSTRUCTION.
4. HAND DIG A VERTICAL TRENCH AT THE FINAL CUT LINE TO FINAL GRADE AND CLEANLY CUT ANY ROOTS ENCOUNTERED AND SEAL WITH APPROVED TREE SEALANT. THIS PROCEDURE WILL PROTECT THE ROOT SYSTEM FROM UNNECESSARY DAMAGE BY EXCAVATION EQUIPMENT.
5. A FIVE (5) FOOT HIGH TEMPORARY CHAIN LINK FENCE SHALL BE CONSTRUCTED AT THE LIMIT OF APPROVED WORK PROTECT THE TREES AND SHALL REMAIN IN PLACE UNTIL COMPLETION OF CONSTRUCTION.
6. NO FURTHER WORK WITHIN THE ROOT ZONE SHALL BE DONE BEYOND THAT WHICH WAS APPROVED, WITHOUT OBTAINING WRITTEN APPROVAL FROM THE CERTIFIED CITY OF POMONA ARBORIST PRIOR TO PROCEEDING.
7. THE AREA WITHIN THE CHAIN LINK FENCE SHALL NOT BE USED FOR MATERIAL, EQUIPMENT STORAGE OR PARKING DURING CONSTRUCTION.
8. DURING CONSTRUCTION, THE IMPACTED TREES SHALL BE CLOSELY MONITORED TO FURTHER MITIGATE SHOCK SYMPTOMS IF THEY OCCUR. THE CONTRACTOR SHALL BE PREPARED TO PROVIDE TEMPORARY WATER TO IRRIGATE AND WASH THE DUST FROM FOLIAGE IF NEEDED. CONTACT THE CERTIFIED CITY OF POMONA ARBORIST IF A DECLINE IN TREE CONDITION IS NOTED.

C. IF A TREE THAT IS DESIGNATED TO REMAIN IS REMOVED OR CAUSED TO BE IRREVERSIBLY DAMAGED, AS DETERMINED BY THE CERTIFIED CITY OF POMONA ARBORIST, A REPLACEMENT TREE MATCHING IN SIZE, QUALITY AND VARIETY SHALL BE INSTALLED USING AN INSTALLER DESIGNATED BY THE CITY ARBORIST.

**TREE EXPERT SHALL OVERSEE ALL CONSTRUCTION PHASES OF THE PLAZA AREA (INLAND URBAN FOREST GROUP).

PLANT LIST

BASE BID

SODDED TURF - SHALL BE MEDALLION TALL FESCUE AVAILABLE FROM PACIFIC SOD AT (800)942-5296 OR AN APPROVED EQUAL. AREAS NOT NOTED WITH SEED, SOD OR MULCH SHALL BE LEFT AS IS. REFER TO SHEET 8 FOR ADDITIONAL INFO

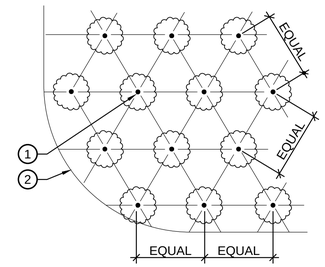
ALTERNATIVE BID

UNLESS OTHERWISE NOTED, ALL EXISTING LANDSCAPE SHALL REMAIN AND BE PROTECTED

SEEDED TURF - ENTIRE PARK, SHALL BE MEDALLION TALL FESCUE, BLEND SEEDED AT 12 PER 1000 SQ.FT. AVAILABLE FROM STOVER SEED COMPANY, (800)621-0315, OR AN APPROVED EQUAL

NOTES:
1. ALL PLANTS SHALL BE PLANTED AT EQUAL SPACING (TRIANGULAR) UNLESS OTHERWISE INDICATED ON PLANS.
2. AS APPROPRIATE, CENTERLINE OF PLANTS SHALL BE 1/2 OF EQUAL SPACING MINIMUM FROM EDGE OF PLANTING AREA.
3. INFILL PLANTS AS REQUIRED TO MAINTAIN SPACING AT IRREGULAR EDGES.
4. FOR ADDITIONAL INFORMATION REFER TO PLANTING NOTES AND SPECIFICATIONS.

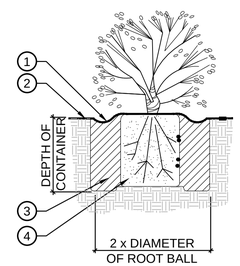
1. TYPICAL PLANT SPACING VARIES – SEE PLANT LIST AND/OR PLANS
2. EDGE OF PLANTING AREA



A SHRUB SPACING
NOT TO SCALE

NOTES:
1. CROWN OF ROOTBALL TO BE 1/2"-1" ABOVE FINISH GRADE.
2. FOR ADDITIONAL INFORMATION REFER TO PLANTING NOTES AND SPECIFICATIONS.

1. A SHALLOW BASIN 2" DEEP SHALL BE FORMED AROUND ROOTBALL BELOW FINISH GRADE
2. FINISH GRADE
3. BACKFILL IN ACCORDANCE WITH PROJECT
4. ROOTBALL



B SHRUB PLANTING
NOT TO SCALE

ACCEPTED

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

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

CITY OF POMONA
PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENT

PLANT LIST, NOTES & DETAILS

Know what's below. Call before you dig.

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

FOR UNDERGROUND SERVICE ALERT CALL:
811

REGISTERED LANDSCAPE ARCHITECT
ROBERT W. STONE No. 1891
Signature
SEPTEMBER 30, 2019
Expiration Date
02/19/2018
Date
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

ROBERT STONE RLA 1891 02/19/2018 DATE

NŪVIS LANDSCAPE ARCHITECTURE

△	REVISIONS	DATE	INITIAL

DESIGNED: TM
DRAWN: DL
CHECKED: TM
REVIEWED: RS

SHT. 17 OF 22 SHTS

Z:\DWG\16217-01 Lincoln Park, City of Pomona\NUVIS\CD\SHEETS\16217-01_LPP.dwg 2/19/18 09:26

FO-195J

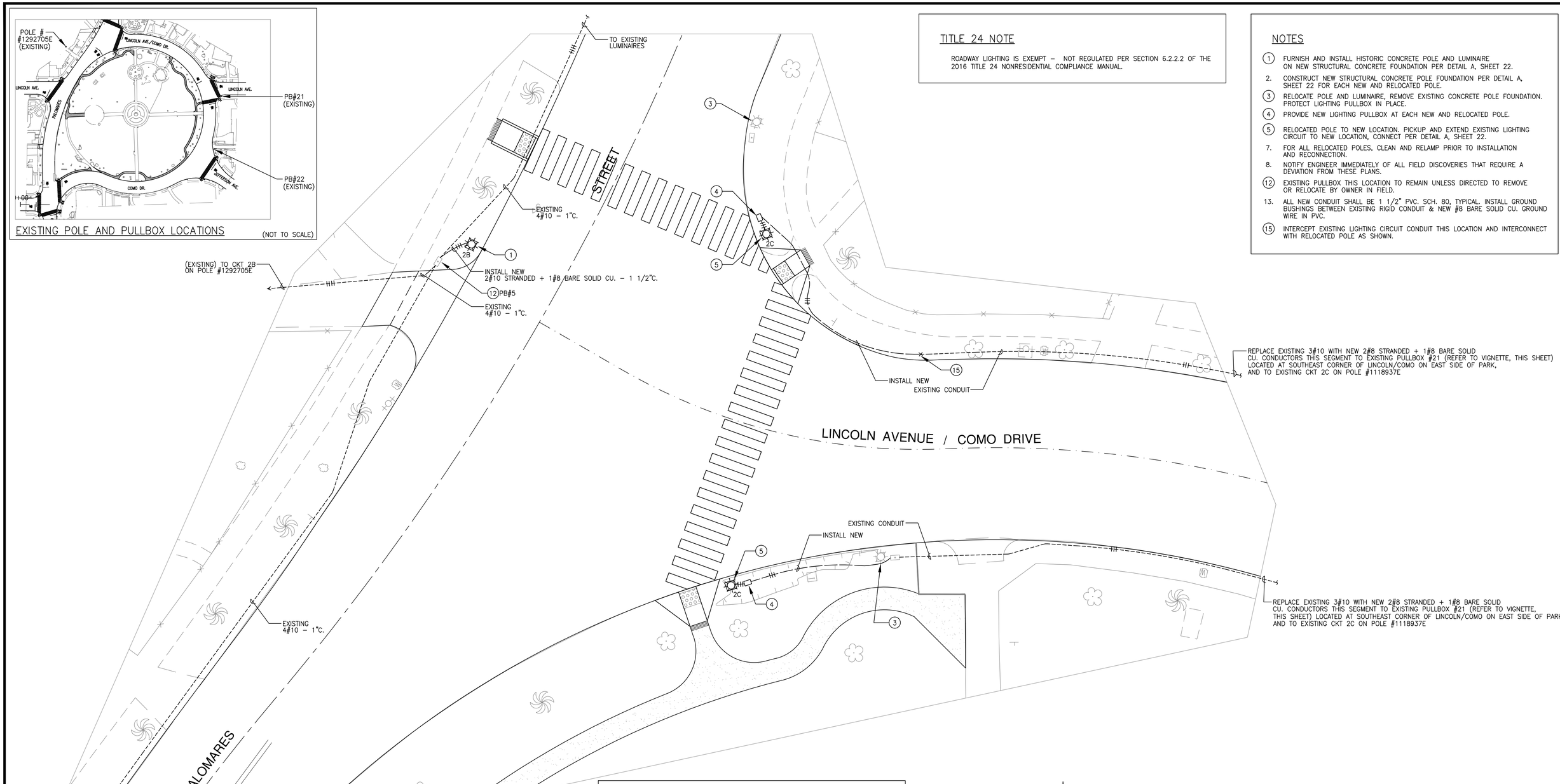
EXISTING POLE AND PULLBOX LOCATIONS (NOT TO SCALE)

TITLE 24 NOTE

ROADWAY LIGHTING IS EXEMPT – NOT REGULATED PER SECTION 6.2.2.2 OF THE 2016 TITLE 24 NONRESIDENTIAL COMPLIANCE MANUAL.

NOTES

1. FURNISH AND INSTALL HISTORIC CONCRETE POLE AND LUMINAIRE ON NEW STRUCTURAL CONCRETE FOUNDATION PER DETAIL A, SHEET 22.
2. CONSTRUCT NEW STRUCTURAL CONCRETE POLE FOUNDATION PER DETAIL A, SHEET 22 FOR EACH NEW AND RELOCATED POLE.
3. RELOCATE POLE AND LUMINAIRE, REMOVE EXISTING CONCRETE POLE FOUNDATION. PROTECT LIGHTING PULLBOX IN PLACE.
4. PROVIDE NEW LIGHTING PULLBOX AT EACH NEW AND RELOCATED POLE.
5. RELOCATED POLE TO NEW LOCATION. PICKUP AND EXTEND EXISTING LIGHTING CIRCUIT TO NEW LOCATION, CONNECT PER DETAIL A, SHEET 22.
7. FOR ALL RELOCATED POLES, CLEAN AND RELAMP PRIOR TO INSTALLATION AND RECONNECTION.
8. NOTIFY ENGINEER IMMEDIATELY OF ALL FIELD DISCOVERIES THAT REQUIRE A DEVIATION FROM THESE PLANS.
12. EXISTING PULLBOX THIS LOCATION TO REMAIN UNLESS DIRECTED TO REMOVE OR RELOCATE BY OWNER IN FIELD.
13. ALL NEW CONDUIT SHALL BE 1 1/2" PVC. SCH. 80, TYPICAL. INSTALL GROUND BUSHINGS BETWEEN EXISTING RIGID CONDUIT & NEW #8 BARE SOLID CU. GROUND WIRE IN PVC.
15. INTERCEPT EXISTING LIGHTING CIRCUIT CONDUIT THIS LOCATION AND INTERCONNECT WITH RELOCATED POLE AS SHOWN.



ELECTRICAL LEGEND

- EXISTING CONDUIT + CONDUCTORS
- 2#8 STRANDED + 1#8 BARE SOLID CU GND. – 1 1/2" CONDUIT
- 3#8 STRANDED + 1#8 BARE SOLID CU GND. – 1 1/2" CONDUIT
- NEW PULLBOX ADJACENT TO NEW OR RELOCATED STREET LIGHT POLE
- NEW OR RELOCATED STREET LIGHT POLE AS INDICATED ON PLANS

N

GRAPHIC SCALE

10 0 10 30

SCALE: 1" = 10'

ACCEPTED BY

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

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

CITY OF POMONA

PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

ELECTRICAL PLAN - INTERSECTION OF LINCOLN AVE. / COMO DR. & PALOMARES ST.

CD DESIGN GROUP
P.O. Box 4107
Irvine, CA 92616-4107
p/f: 949.387.8476

CALL TOLL FREE 811
Know what's below. Call two working before you dig.
Underground Service Alert

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIGALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIGALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE TWO WORKING DAYS BEFORE YOU DIG.

CAUTION REMEMBER THAT THE USA CENTER NOTIFIES ONLY THOSE UTILITIES BELONGING TO THE CENTER. THERE COULD BE OTHER UTILITIES PRESENT AT THE WORK SITE. THE CENTER WILL INFORM YOU OF WHOM THEY WILL NOTIFY.

REGISTERED PROFESSIONAL ENGINEER CARLOS A. PINEDA No. C38639 Exp. 03/31/17 STATE OF CALIFORNIA

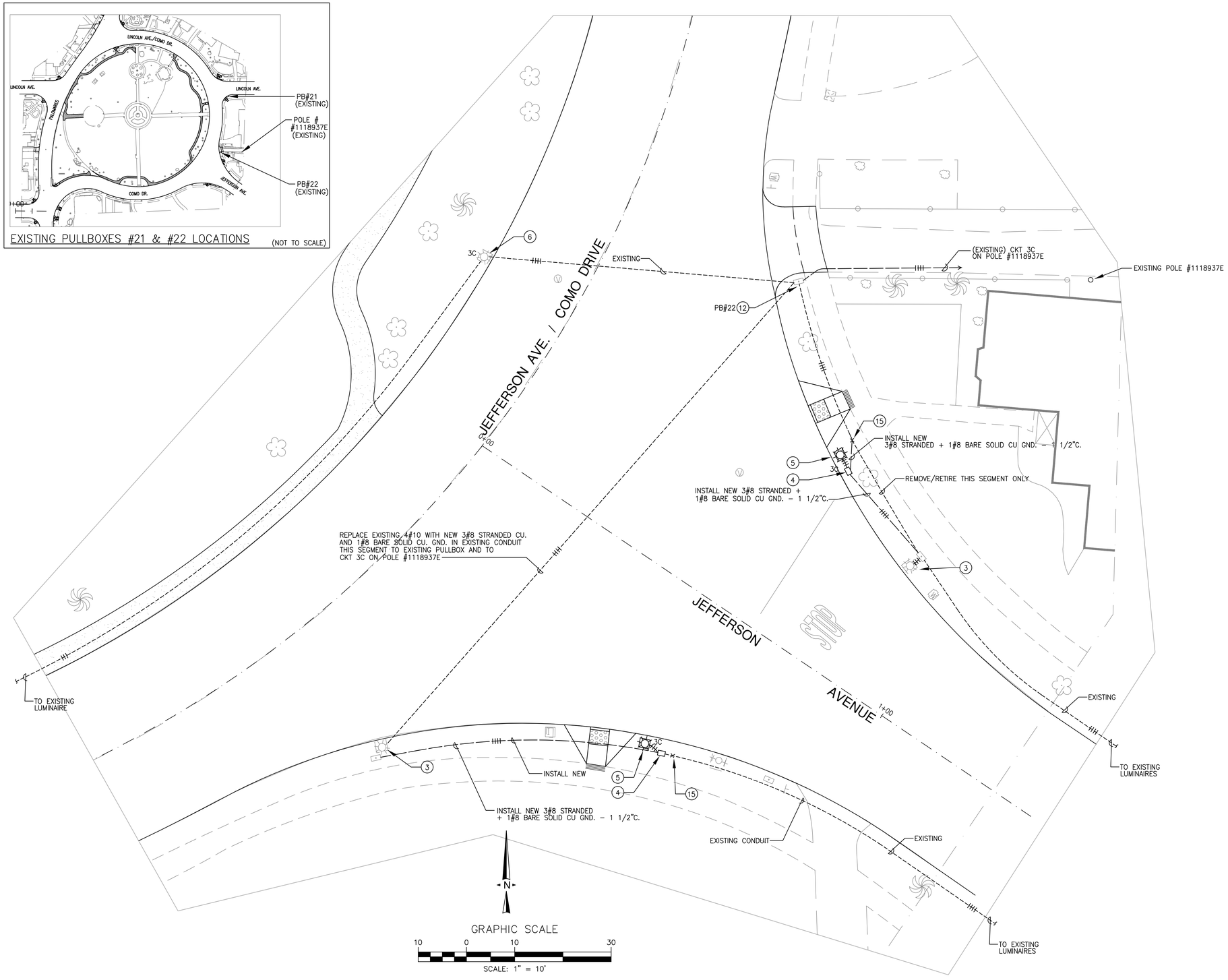
PLANS PREPARED BY:
Stantec
46 DISCOVERY, SUITE 250 (949) 474-1400 TEL
IRVINE, CA 92618 (949) 261-8482 FAX
CARLOS A. PINEDA RCE 38639 DATE

REV	DESCRIPTION	DATE	BY
△	REVISION		
△			
△			
△			
△			
△			
△			

SCALE			SHT.
AS SHOWN	DESIGNED:	CDK	18
	DRAWN:	CDK	OF
	CHECKED:	DCK	
	REVIEWED:		22 SHTS
	REVIEWED (CONST.)		

FE-427A

EXISTING PULLBOXES #21 & #22 LOCATIONS (NOT TO SCALE)



NOTES

2. CONSTRUCT NEW STRUCTURAL CONCRETE POLE FOUNDATION PER DETAIL A, SHEET 22 FOR EACH NEW AND RELOCATED POLE.
3. RELOCATE POLE AND LUMINAIRE, REMOVE EXISTING CONCRETE POLE FOUNDATION. PROTECT LIGHTING PULLBOX IN PLACE.
4. PROVIDE NEW LIGHTING PULLBOX AT EACH NEW AND RELOCATED POLE.
5. RELOCATED POLE NEW LOCATION. PICKUP AND EXTEND EXISTING LIGHTING CIRCUIT TO NEW LOCATION, CONNECT PER DETAIL A, SHEET 22.
6. EXISTING STREET LIGHT TO REMAIN, NOT A PART.
7. FOR ALL RELOCATED POLES, CLEAN AND RELAMP PRIOR TO INSTALLATION AND RECONNECTION.
8. NOTIFY ENGINEER IMMEDIATELY OF ALL FIELD DISCOVERIES THAT REQUIRE A DEVIATION FROM THESE PLANS.
12. EXISTING PULLBOX THIS LOCATION TO REMAIN UNLESS DIRECTED TO REMOVE OR RELOCATE BY OWNER IN FIELD.
13. ALL NEW CONDUIT SHALL BE 1 1/2" PVC. SCH. 80, TYPICAL. INSTALL GROUND BUSHINGS BETWEEN EXISTING RIGID CONDUIT & NEW #8 BARE SOLID CU. GROUND WIRE IN PVC.
15. INTERCEPT EXISTING LIGHTING CIRCUIT CONDUIT THIS LOCATION AND INTERCONNECT WITH RELOCATED POLE AS SHOWN.

TITLE 24 NOTE

ROADWAY LIGHTING IS EXEMPT – NOT REGULATED PER SECTION 6.2.2.2 OF THE 2016 TITLE 24 NONRESIDENTIAL COMPLIANCE MANUAL.

ELECTRICAL LEGEND

- EXISTING CONDUIT + CONDUCTORS
- 2#8 STRANDED + 1#8 BARE SOLID CU GND. – 1 1/2" CONDUIT
- 3#8 STRANDED + 1#8 BARE SOLID CU GND. – 1 1/2" CONDUIT
- NEW PULLBOX ADJACENT TO NEW OR RELOCATED STREET LIGHT POLE
- NEW OR RELOCATED STREET LIGHT POLE AS INDICATED ON PLANS

ACCEPTED BY

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

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

CITY OF POMONA

PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

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

CD DESIGN GROUP
P.O. Box 4107
Irvine, CA 92616-4107
p/f: 949.387.8476

CALL TOLL FREE 811
Know what's below. Call two working before you dig.
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CAUTION: REMEMBER THAT THE USA CENTER NOTIFIES ONLY THOSE UTILITIES BELONGING TO THE CENTER. THERE COULD BE OTHER UTILITIES PRESENT AT THE WORK SITE. THE CENTER WILL INFORM YOU OF WHOM THEY WILL NOTIFY.

REGISTERED PROFESSIONAL ENGINEER CARLOS A. PINEDA No. C38639 Exp. 03/31/17 STATE OF CALIFORNIA

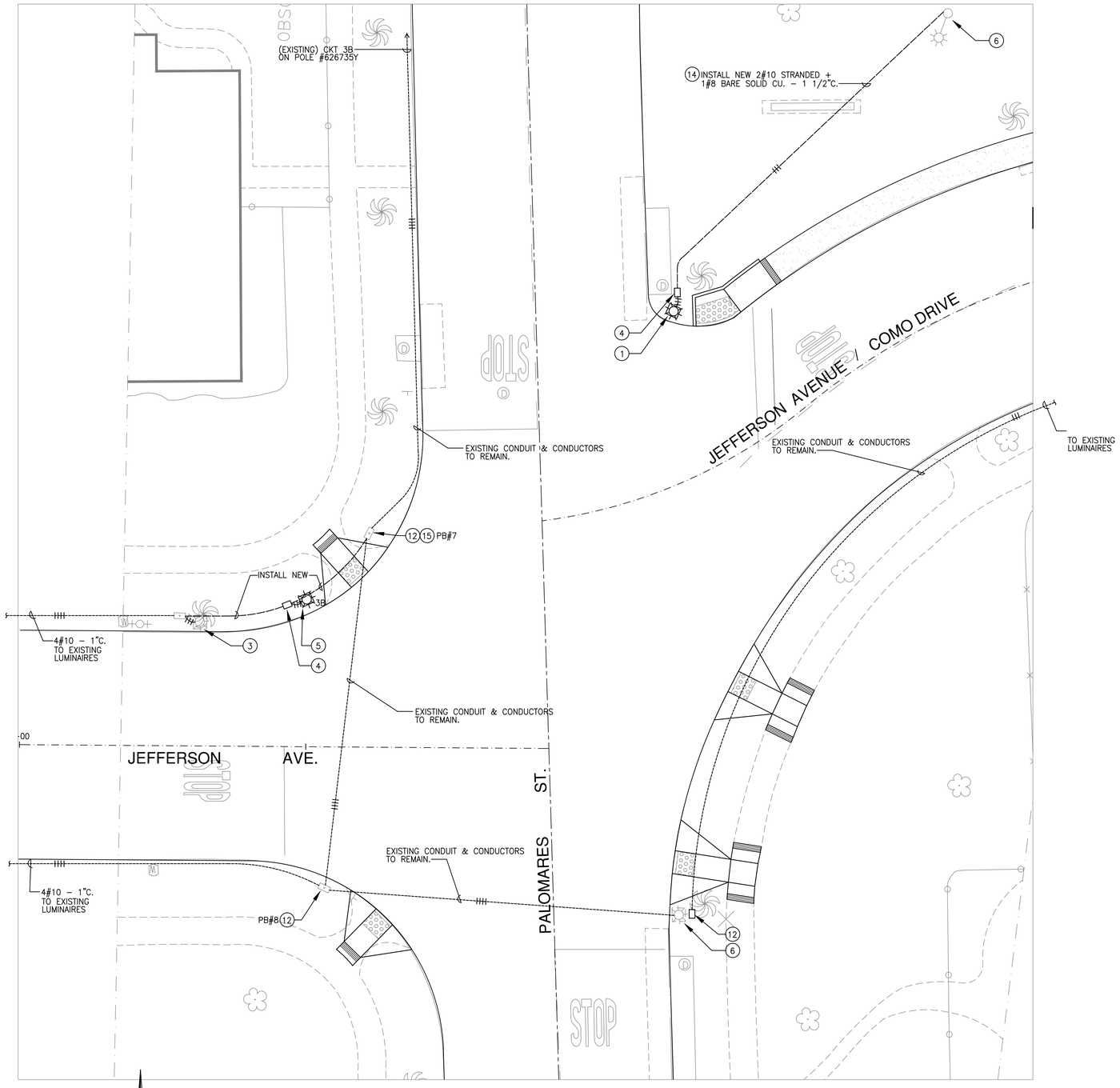
PLANS PREPARED BY:
Stantec
46 DISCOVERY, SUITE 250 (949) 474-1400 TEL
IRVINE, CA 92618 (949) 261-8482 FAX

CARLOS A. PINEDA RCE 38639 DATE

REV	DESCRIPTION	DATE	BY
	REVISION		

SCALE			SHT.
AS SHOWN	DESIGNED: CDK DRAWN: CDK CHECKED: DCK REVIEWED: REVIEWED (CONST.)		19 OF 22 SHTS

FE-427B



N

GRAPHIC SCALE

10 0 10 30

SCALE: 1" = 10'

NOTES

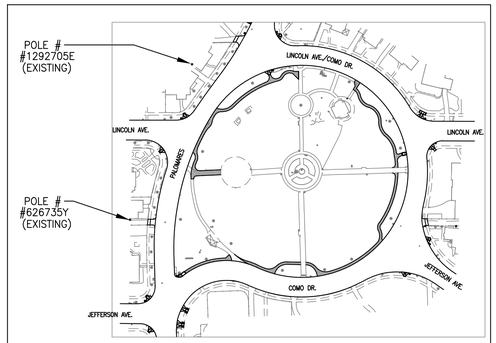
1. INSTALL OWNER FURNISHED HISTORIC CONCRETE POLE AND LUMINAIRE ON NEW STRUCTURAL CONCRETE FOUNDATION PER DETAIL A, SHEET E–5.
2. CONSTRUCT NEW STRUCTURAL CONCRETE POLE FOUNDATION PER DETAIL A, SHEET E–5 FOR EACH NEW AND RELOCATED POLE.
3. RELOCATE POLE AND LUMINAIRE, DEMO EXISTING CONCRETE POLE FOUNDATION. PROTECT LIGHTING PULLBOX IN PLACE.
4. PROVIDE NEW LIGHTING PULLBOX AT EACH NEW AND RELOCATED POLE.
5. RELOCATED POLE NEW LOCATION. PICKUP AND EXTEND EXISTING LIGHTING CIRCUIT TO NEW LOCATION, CONNECT PER DETAIL A, SHEET E–5.
6. EXISTING STREET LIGHT TO REMAIN, NOT A PART.
7. FOR ALL RELOCATED POLES, CLEAN AND RELAMP WITH NEW PRIOR TO INSTALLATION AND RECONNECTION.
8. NOTIFY ENGINEER IMMEDIATELY OF ALL FIELD DISCOVERIES THAT REQUIRE A DEVIATION FROM THESE PLANS.
10. PROVIDE NEW PULLBOX AT THIS LOCATION FOR CIRCUIT INTERCONNECTION.
12. EXISTING PULLBOX THIS LOCATION TO REMAIN UNLESS DIRECTED TO REMOVE OR RELOCATE BY OWNER IN FIELD.
13. ALL NEW CONDUIT SHALL BE 1 1/2" PVC. SCH. 40, TYPICAL. INSTALL GROUND BUSHINGS BETWEEN EXISTING RIGID CONDUIT & NEW GROUND WIRE IN PVC.
14. INTERCONNECT WITH EXISTING ADJACENT "COBRAHEAD" POLE STREET LIGHTING CIRCUIT. VERIFY VOLTAGE & PHASE, AT P.O.C. IN FIELD.
15. INTERCEPT EXISTING LIGHTING CIRCUIT CONDUIT THIS LOCATION AND INTERCONNECT WITH RELOCATED POLE AS SHOWN.

TITLE 24 NOTE

ROADWAY LIGHTING IS EXEMPT – NOT REGULATED PER SECTION 6.2.2.2 OF THE 2016 TITLE 24 NONRESIDENTIAL COMPLIANCE MANUAL.

ELECTRICAL LEGEND

----------	EXISTING CONDUIT + CONDUCTORS
—//——	2#8 STRANDED + 1#8 BARE SOLID CU GND. – 1 1/2" CONDUIT
—///——	3#8 STRANDED + 1#8 BARE SOLID CU GND. – 1 1/2" CONDUIT
▭	NEW PULLBOX ADJACENT TO NEW OR RELOCATED STREET LIGHT POLE
☼	NEW OR RELOCATED STREET LIGHT POLE AS INDICATED ON PLANS



EXISTING POLE LOCATIONS (NOT TO SCALE)

ACCEPTED BY

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

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

CITY OF POMONA

PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

ELECTRICAL PLAN - INTERSECTIONS OF JEFFERSON AVE-COMO DR/-PALOMARES AVE

CD DESIGN GROUP
P.O. Box 4107
Irvine, CA 92616–4107
p/f: 949.387.8476

CALL TOLL FREE 811
Know what's below. Call two working before you dig.
Underground Service Alert

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIGALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIGALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE TWO WORKING DAYS BEFORE YOU DIG.

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

REGISTERED PROFESSIONAL ENGINEER CARLOS A. PINEDA No. C38639 Exp. 03/31/17 STATE OF CALIFORNIA

PLANS PREPARED BY:

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

CARLOS A. PINEDA RCE 38639 DATE

REV	DESCRIPTION	DATE	BY
△	REVISION		
△			
△			
△			
△			
△			
△			

SCALE			SHT.
AS SHOWN	DESIGNED: CDK DRAWN: CDK CHECKED: DCK REVIEWED: REVIEWED (CONST.)		20 OF 22 SHTS

FE-427C

NOTES

1. FURNISH AND INSTALL HISTORIC CONCRETE POLE AND LUMINAIRE ON NEW STRUCTURAL CONCRETE FOUNDATION PER DETAIL A, SHEET 22.
2. CONSTRUCT NEW STRUCTURAL CONCRETE POLE FOUNDATION PER DETAIL A, SHEET 22 FOR EACH NEW AND RELOCATED POLE.
3. RELOCATE POLE AND LUMINAIRE, DEMO EXISTING CONCRETE POLE FOUNDATION. PROTECT LIGHTING PULLBOX IN PLACE.
4. PROVIDE NEW LIGHTING PULLBOX AT EACH NEW AND RELOCATED POLE.
5. RELOCATED POLE TO NEW LOCATION. PICKUP AND EXTEND EXISTING LIGHTING CIRCUIT TO NEW LOCATION, CONNECT PER DETAIL A, SHEET 22.
6. EXISTING STREET LIGHT TO REMAIN, NOT A PART.
7. FOR ALL RELOCATED POLES, CLEAN AND RELAMP PRIOR TO INSTALLATION AND RECONNECTION.
8. NOTIFY ENGINEER IMMEDIATELY OF ALL FIELD DISCOVERIES THAT REQUIRE A DEVIATION FROM THESE PLANS.
9. AS-BUILT PLANS NOT AVAILABLE FOR THIS POLE. FIELD VERIFY POINT OF CONNECTION AND REQUIREMENTS IN FIELD PRIOR TO ROUGH-IN.
11. AS-BUILT PLANS INDICATE EXISTING SUB-GRADE PULLBOX, THIS AREA. LOCATE IN FIELD, UNEARTH AND UTILIZE FOR NEW LUMINAIRE CONNECTION.
12. EXISTING PULLBOX THIS LOCATION TO REMAIN UNLESS DIRECTED TO REMOVE OR RELOCATE BY OWNER IN FIELD.
13. ALL NEW CONDUIT SHALL BE 1 1/2" PVC. SCH. 80, TYPICAL. INSTALL GROUND BUSHINGS BETWEEN EXISTING RIGID CONDUIT & NEW #8 BARE SOLID CU. GROUND WIRE IN PVC.

TITLE 24 NOTE

ROADWAY LIGHTING IS EXEMPT – NOT REGULATED PER SECTION 6.2.2.2 OF THE 2016 TITLE 24 NONRESIDENTIAL COMPLIANCE MANUAL.

ELECTRICAL LEGEND

- EXISTING CONDUIT + CONDUCTORS
- 2#8 STRANDED + 1#8 BARE SOLID CU GND. – 1 1/2" CONDUIT
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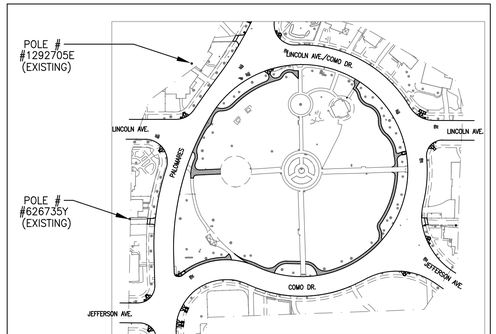
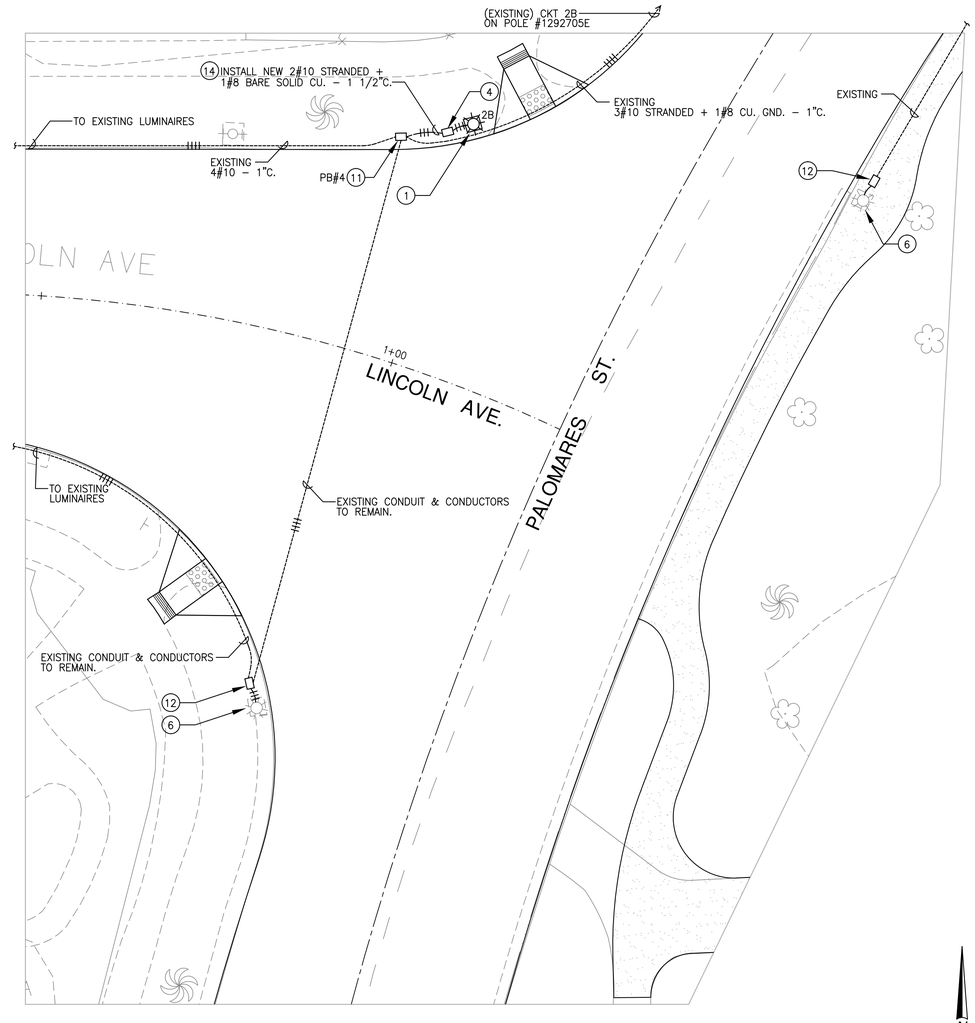
- NEW PULLBOX ADJACENT TO NEW OR RELOCATED STREET LIGHT POLE
- NEW OR RELOCATED STREET LIGHT POLE AS INDICATED ON PLANS



EXISTING POLE LOCATIONS (NOT TO SCALE)



N

GRAPHIC SCALE

10 0 10 30

SCALE: 1" = 10'

ACCEPTED BY

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

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

CITY OF POMONA

PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

ELECTRICAL PLAN - INTERSECTIONS OF LINCOLN AVE & PALOMARES AVE

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REGISTERED PROFESSIONAL ENGINEER CARLOS A. PINEDA No. C38639 Exp. 03/31/17 STATE OF CALIFORNIA

PLANS PREPARED BY:
Stantec
46 DISCOVERY, SUITE 250 (949) 474-1400 TEL
IRVINE, CA 92618 (949) 261-8482 FAX
CARLOS A. PINEDA RCE 38639 DATE

REV	DESCRIPTION	DATE	BY
△	REVISION		
△			
△			
△			
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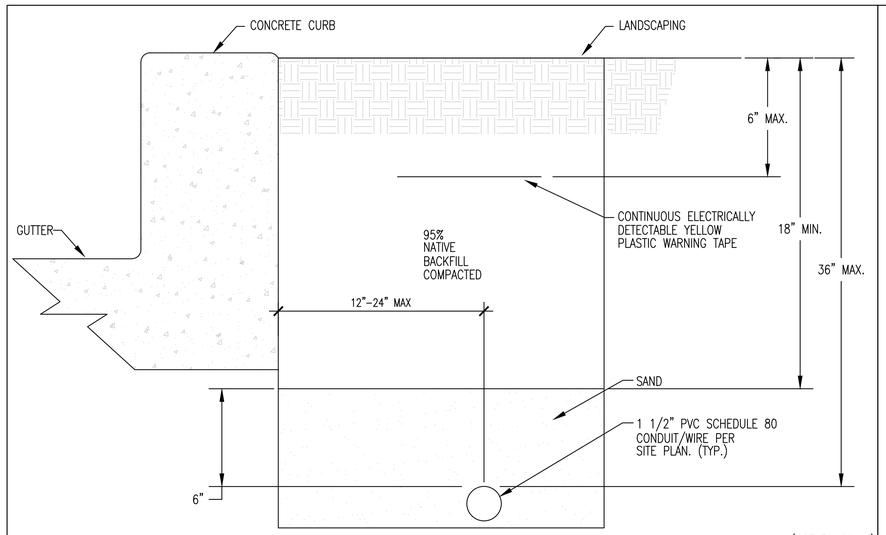
△			

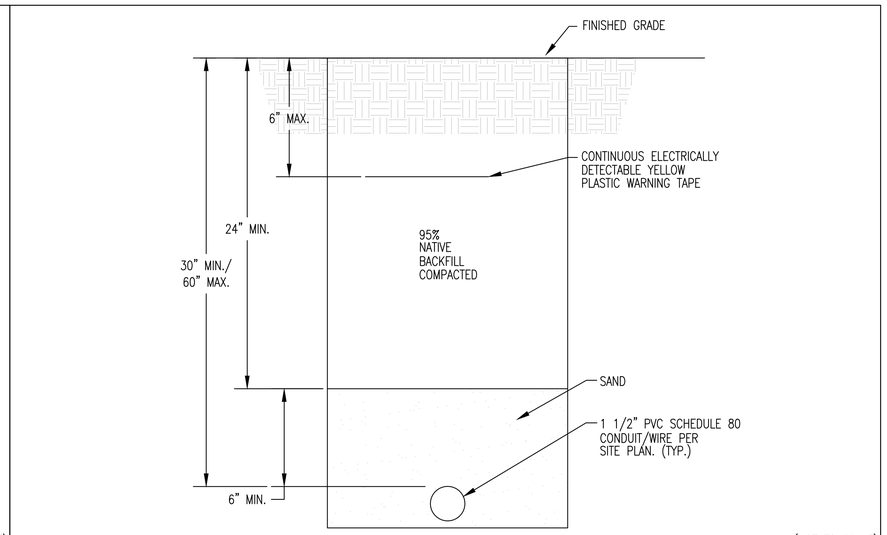
SCALE: AS SHOWN	DESIGNED: CDK DRAWN: CDK CHECKED: DCK REVIEWED: REVIEWED (CONST.)	SHT. 21 OF 22 SHTS

FE-427D



(NOT TO SCALE)

LIGHTING RACEWAY DETAIL WITH CURB — D



(NOT TO SCALE)

UNDERGROUND LIGHTING RACEWAY TRENCH DETAIL — C

FEEDER SCHEDULE

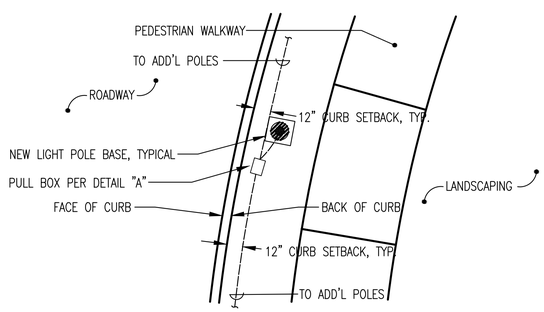
CIRCUIT NUMBER	LOAD IN WATTS	DISTANCE	FEEDER	VOLTAGE DROP %
2B	500	350'	1"C.-3#10 + 1#10 GND.	2.92%
	630	200'	1"C.-3#10 + 1#10 GND.	0.60%
				3.52%
3B	270	300'	1"C.-3#10 + 1#10 GND.	0.88%
	720	250'	1"C.-3#10 + 1#10 GND.	0.65%
				1.53%
2C	290	375'	1"C.-3#8 + 1#8 GND.	1.81%
	990	150'	1"C.-3#10 + 1#10 GND.	0.65%
	1980	200'	1"C.-3#8 + 1#10 GND.	0.95%
				3.41%
3C	450	535'	1"C.-3#8 + 1#8 GND.	2.61%
	1980	200'	1"C.-3#8 + 1#10 GND.	0.95%
				3.31%

NOTE: ALL NEW CONDUCTORS SHALL BE STRANDED CU, 75°C IN SIZES AS INDICATED. ALL NEW GROUND WIRES SHALL BE #8 BARE SOLID CU.

FEEDER NOTE

RECORD DRAWINGS DO NOT REFLECT CURRENT DESIGN STANDARDS AND EVIDENCE LARGE DEVIATIONS FROM CALCULATED DESIGN VOLTAGE DROP.
CONDUCTORS INDICATED AS INSTALLED ON AS-BUILT PLANS ARE INSUFFICIENT TO ACHIEVE CURRENT DESIGN STANDARD OF 3.0% FOR LENGTHS AND LOADS LISTED.

CONTRACTOR SHALL FIELD MEASURE VOLTAGE DROP AT NEW INSTALLATION LOCATIONS, REPORT ALL VARIATIONS BEYOND 3% TO ENGINEER FOR EVALUATION.



NOTES:

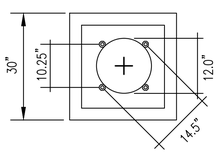
1. POLES SHALL BE WIRED UNDERGROUND THROUGH IN-GRADE PULLBOXES, TYPICAL FOR ALL.
2. INSTALL CONDUIT WITHIN 12" OF BACK OF CURB AT 24" BELOW GRADE, TYPICAL FOR ALL, UNLESS CONDITIONS OR OWNER DIRECTIONS FORCE OTHERWISE.
3. VERIFY EXACT LOCATION OF ALL POLES NEW AND RELOCATED WITH OWNER IN FIELD PRIOR TO ROUGH-IN.
4. ORIENT ALL COVER PLATES TO READ "STREET LIGHTING" FROM STREET SIDE.

(NOT TO SCALE)

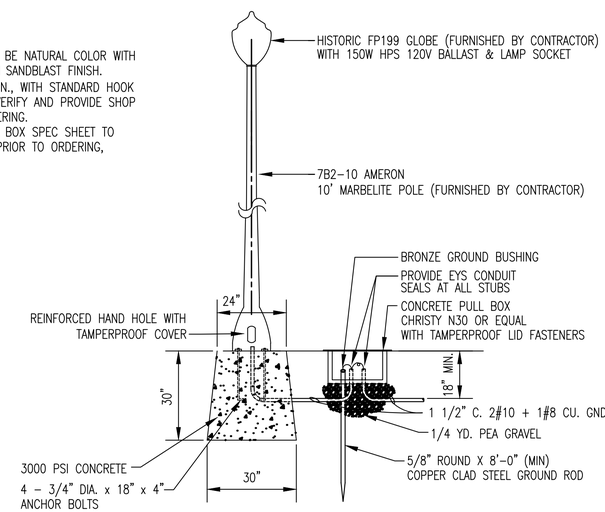
CONDUIT AND PULLBOX DETAIL — B

NOTES:

1. CONCRETE FOOTING AND BASE SHALL BE NATURAL COLOR WITH EXPOSED PORTION RECEIVING MEDIUM SANDBLAST FINISH.
2. EMBEDMENT LENGTH MUST BE 18" MIN., WITH STANDARD HOOK PLUS POLE MOUNTING EXTENSIONS. VERIFY AND PROVIDE SHOP DRAWINGS TO OWNER PRIOR TO ORDERING.
3. PROVIDE LUMINAIRE, POLE, AND PULL BOX SPEC SHEET TO OWNER FOR REVIEW AND APPROVAL PRIOR TO ORDERING, TYPICAL FOR ALL.



BASE DETAIL



(NOT TO SCALE)

STREET LIGHTING STANDARD DETAIL — A

ACCEPTED BY

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

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

CITY OF POMONA

PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

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SCALE			SHT.
AS SHOWN	DESIGNED: CDK DRAWN: CDK CHECKED: DCK REVIEWED: REVIEWED (CONST.)		22 OF 22 SHTS

FE-427E