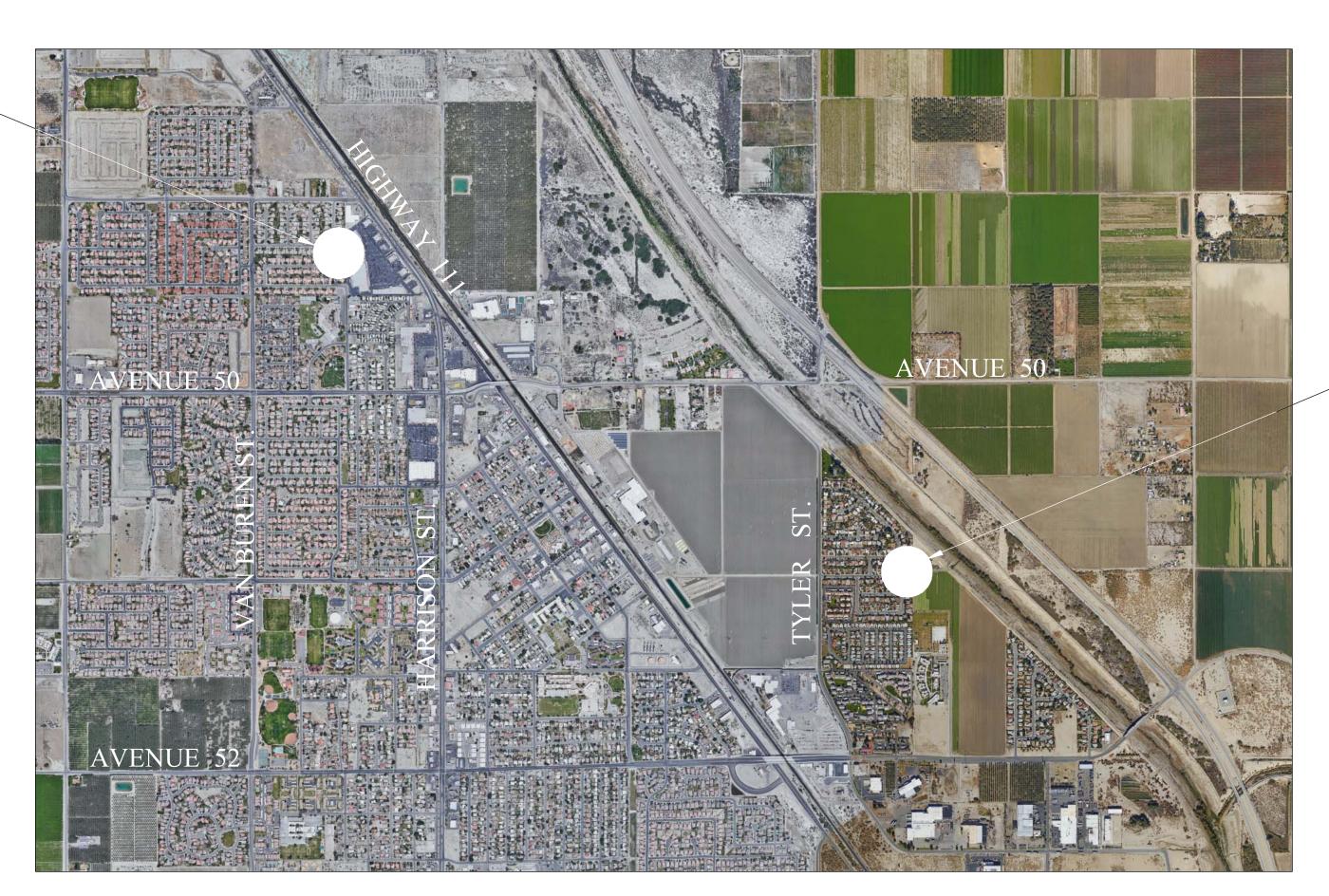
City of Coachella



LAS LUNAS AVE. AND CALLE BOUGANVILIA RETENTION BASIN - LANDSCAPE IMPROVEMENTS

LAS LUNAS — RETENTION BASIN



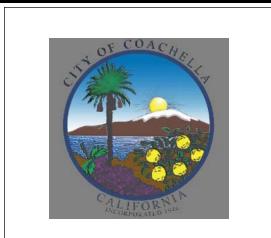
SITE MAP

CALLE BOUGANVILIA RETENTION BASIN

SHEET INDEX

	SHEET NO.	SHEET DESCRIPTION	
	L1.0	TITLE SHEET	
L1.1 IRRIGATION LAYOUT PLAN			
	L2.1	IRRIGATION DETAILS	
	L3.0	PLANTING PLAN	
	L3.1	PLANTING DETAILS	





City of Coachella

REVISIONS		
Delta Date Sheets Affected	Ву	Description of Change
<u> </u>		
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JOB	#			

DATE:

May 2, 2023

PL-DR

TITLE SHEET

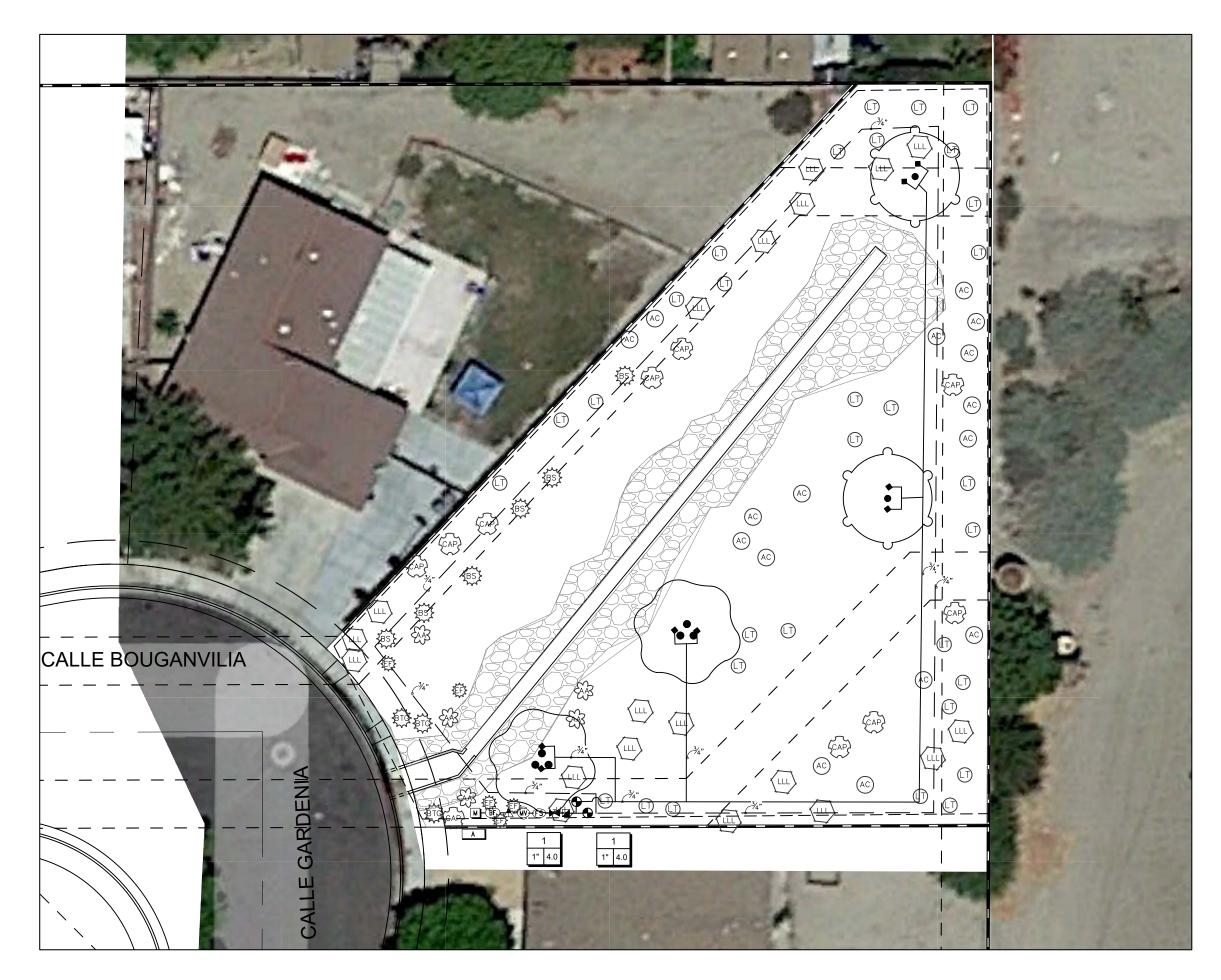


IRRIGATION_SCHEDULE SYMBOL MANUFACTURER/MODEL/DESCRIPTION A Hunter XCH-600-SSP - 6 Stn controller, SS, with solar panel. CST Q H F Rain Bird 1806-SAM-5 Series Stream w/ PCS 5CST-020 Stream Bubbler 6.0" popup with check valve, pressure compensating screen. SYMBOL MANUFACTURER/MODEL/DESCRIPTION QTY Rain Bird XCZ-100-PRB-COM Medium Plus Flow Drip Control Kit for Commercial Applications. 1" Ball Valve with 1" PESB Valve and 1" Pressure Regulating 40psi Quick-Check Basket Filter. 3gpm to 20gpm. Area to Receive Drip Emitters Rain Bird XB-PC-1032 Single Outlet, Pressure Compensating Drip Emitters. Flow rates of 0.5gph=blue, 1.0gph=black, and 2.0gph=red. Comes with a 10-32 threaded inlet x barb outlet. **Emitter Notes:** 192 10PC1032 emitters (2 assigned to each 5 gal plant) SYMBOL MANUFACTURER/MODEL/DESCRIPTION QTY Rain Bird 44LRC 1" Quick Coupler Valve, two piece body, locking cover Class 125 bronze gate shut off valve with cross handle, same 1 size as pipe diameter, Size Range - 1/4" - 3" Rain Bird PEB 2" Master Valve. Wilkinson Model 500 Pressure limited to 75.24 PSI Pressure Regeulator Valve set to 80 PSI Febco 825Y 2" Reduced Pressure Backflow Preventer Rain Bird FS-200-B 2" Flow Sensor for use with Rain Bird Maxicom, SiteControl, and ESP-LXD Central Control Systems. Brass Model. Suggested Operating Range of 4.9 GPM to 294.0 GPM. Sensors should be sized for flow rather than pipe size. М Water Meter 1" New Water meter to be installed per CVWD Irrigation Lateral Line: PVC Schedule 40 1,500 l.f.

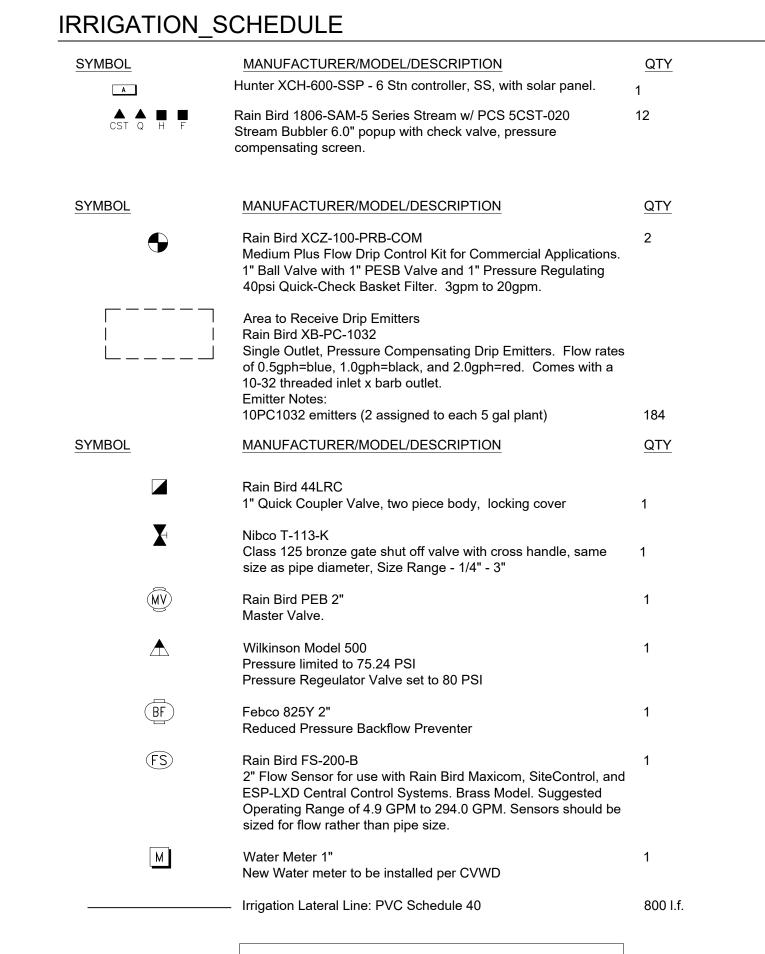
Valve Callout

Valve Number

Valve Flow
Valve Size



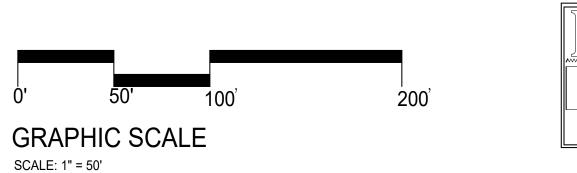
BOUGANVILIA RETENTION BASIN



CITY OF COACHELLA

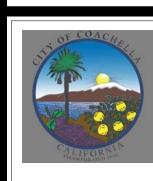
APPROVED FOR CONSTRUCTION:

MARITZA MARTINEZ PUBLIC WORKS DIRECTOR

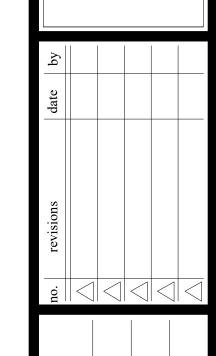








City of Coachella 53990 Enterprise Way



Scale: 1" = 50' Date: May 2, 2023 Drawn By:

Coachella Retention Basins

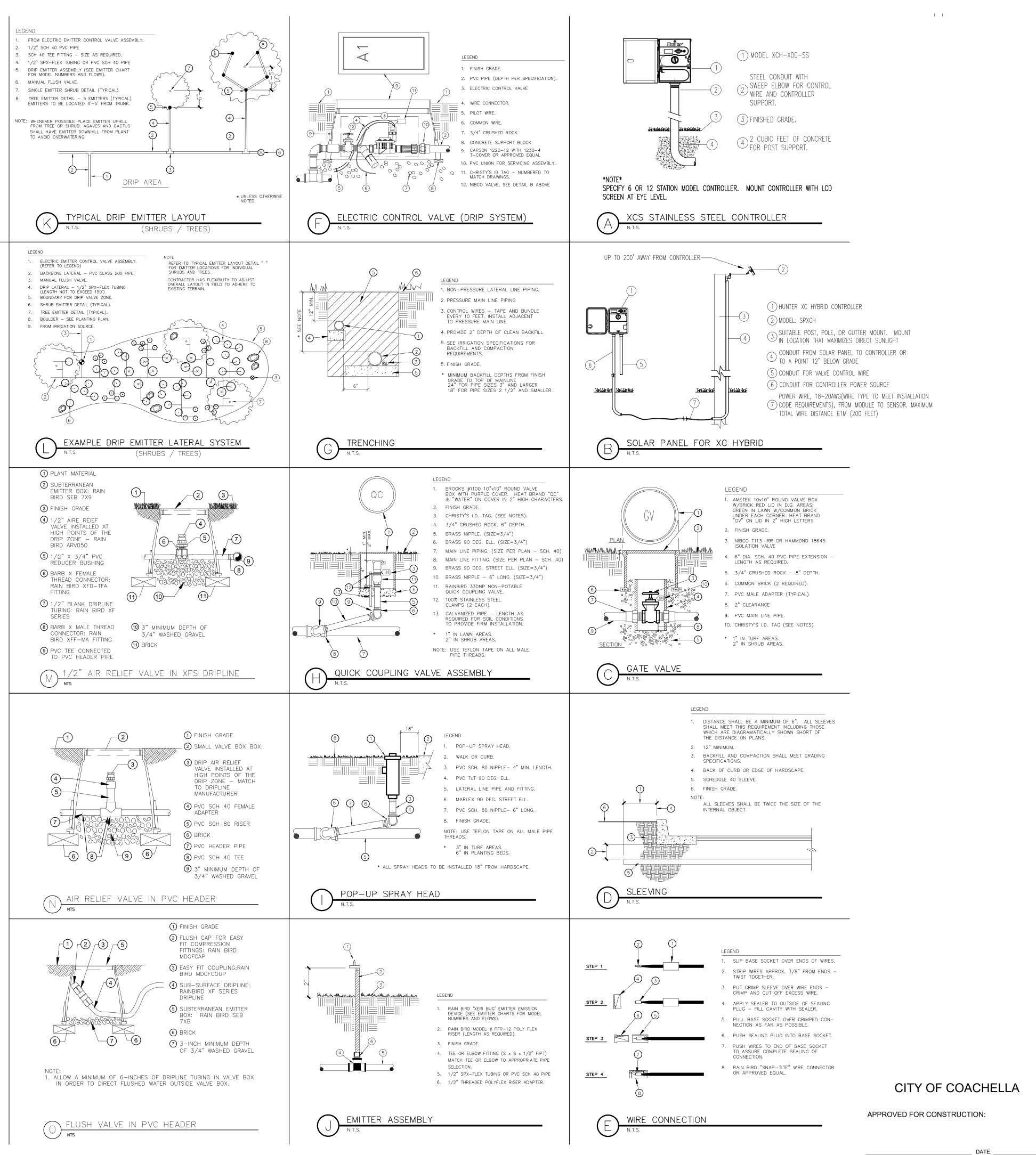
Forth Corth

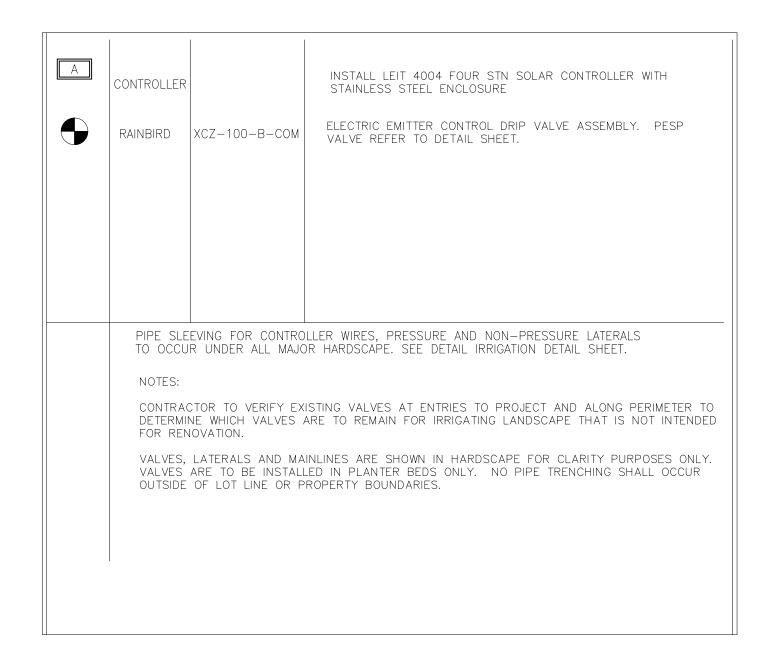


Sheet No.

L1.1
of 8

A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

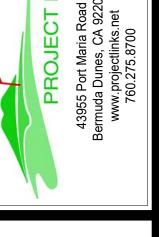




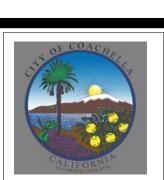
GENERAL IRRIGATION NOTES

- 1. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNATED ON THE PLANS.
- 2. THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE AND THE MAXIMUM FLOW DEMAND SHOWN ON THE IRRIGATION DRAWINGS AT THE METER OR POINT OF CONNECTION. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO START OF CONSTRUCTION, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- 3. 120 VOLT ELECTRICAL POWER OUTLET AT THE AUTOMATIC CONTROLLER LOCATION SHALL BE PROVIDED BY OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO MAKE THE FINAL HOOK-UP FROM THE ELECTRICAL OULTLET TO THE AUTOMATIC CONTROLLER.
- 4. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES.
- 5. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO ALLOW FOR NO OVERSPRAY ONTO WALKS, ROADWAYS AND/OR BUILDINGS. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.
- 6. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICIATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- 7. INSTALL ALL PIPE MATERIALS AND EQUIPMENT AS SHOWN IN DETAILS. USE TEFLON TAPE OR TEFLON PIPE DOPE ON ALL PVC MALE PIPE THREADS ON ALL SPRINKLER SWING JOINT AND
- 8. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC.
- 9. IN ADDITION TO THE CONTROL WIRE SLEEVES SHOWN ON THE DRAWINGS, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONTROL WIRE SLEEVES OF SUFFICIENT SIZE UNDER ALL OTHER PAVED AREAS.









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Basins DETAIL Retention] IRRIGATION Coachella

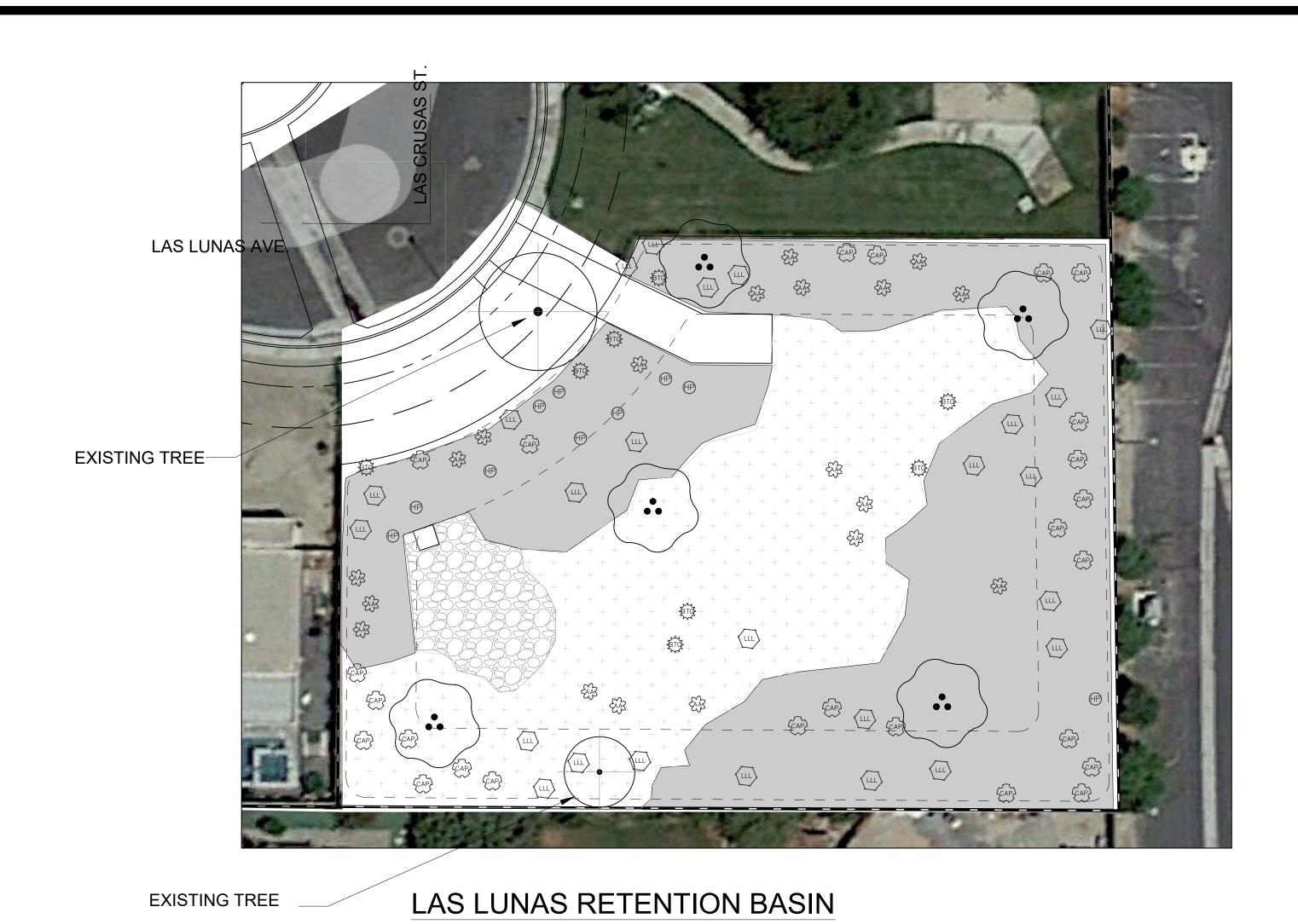
PL-DR

BEFORE YOU DIG TOLL FREE

UNDERGROUND SERVICE ALERT

MARITZA MARTINEZ PUBLIC WORKS DIRECTOR

GRAPHIC SCALE SCALE: 1" = 50'



PLANT PALETTE

TREES	<u>CODE</u> ACA	BOTANICAL / COMMON NAME Acacia aneura / Mulga	CONT 15 Gal	WUCOLS LOW (.3)	QTY 5
<u>SHRUBS</u>	CODE	BOTANICAL / COMMON NAME	CONT	WUCOLS	QTY
HP LLL	HP LLL	Hesperaloe 'Brake Lights' Leucophyllum langmaniae `Lynn`s Legacy` / Barometerbush	5 gal*	MED (.5) LOW (.2)	51 19
ACCENTS ACCENTS	CODE AA BTG	BOTANICAL / COMMON NAME Agave americana / Century Plant Bougainvillea 'Torch Glow'	<u>CONT</u> 5 gal* 5 gal	WUCOLS V. LOW (.1) MED (.5)	QTY 53
CAP	CAP	Caesalpinia pulcherrima / Red Bird Of Paradise	5 gal	MED (.5)	19

California Gold 3/4" Crush - 12,300 sf Installed to a compacted depth of 2".



Apache Brown 3/4" Crush - 9,100 sf Installed to a compacted depth of 2".



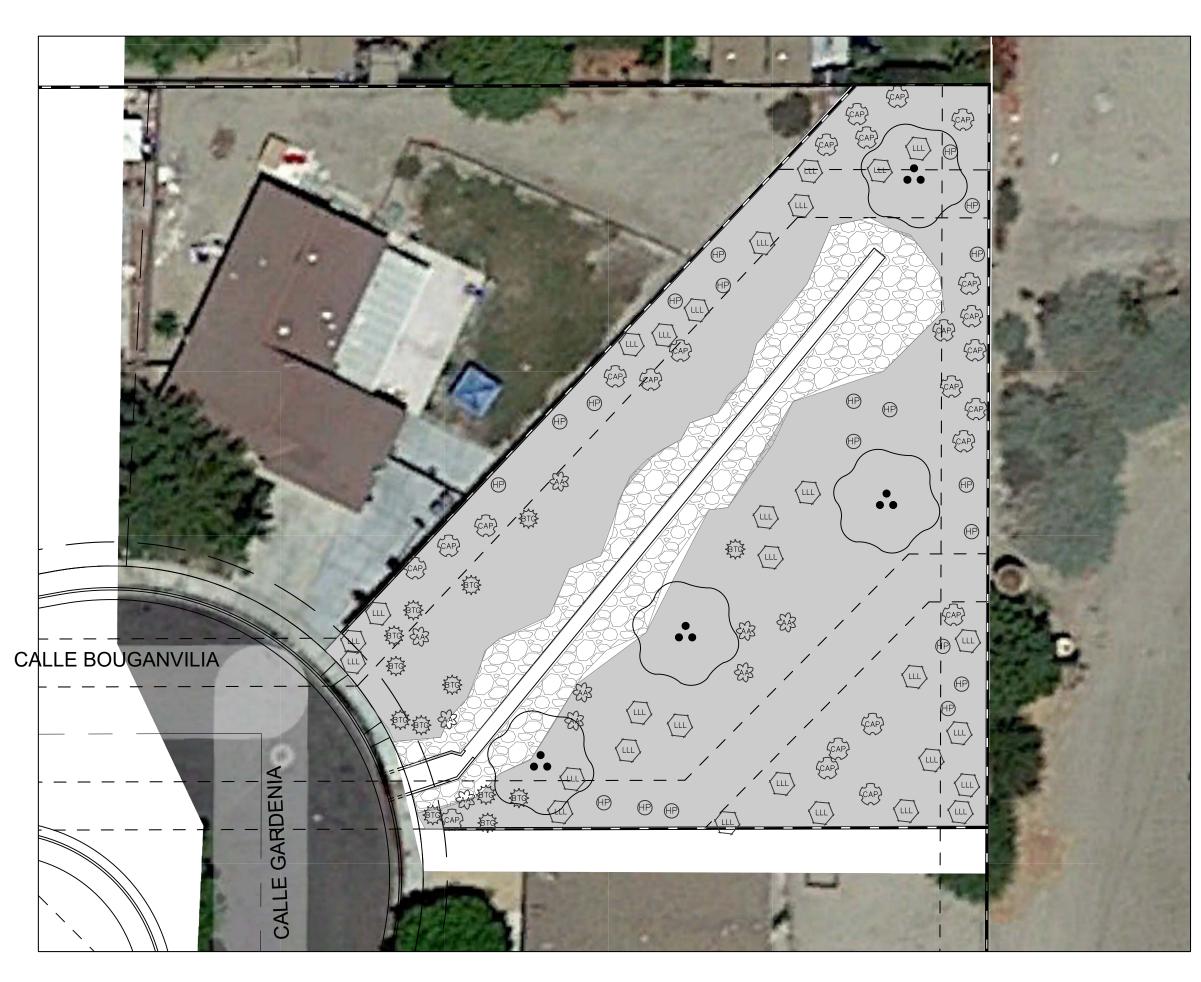
Vista Gold 3" - 6" - 1,100 sf Installed to a depth of 8".

NOTE: RETENTION BASIN SOLAR LIGHTS

SOLAR LIGHTS FOR THE RETENTION BASINS SHALL BE EE800W-SHRC ADVANCE SOLAR HYBRID MICROGRID LED STREET LIGHT SERIES BY eLEDing. CONTACT eLEDing at 877.579.3889 OR AT SALES@EESGI.COM

LAS LUNAS BASIN TO RECEIVE 3 LIGHTS, BOUGANVILIA BASIN TO RECEIVE 2 LIGHTS.

LOCATIONS TO BE DETERMINED IN FIELD BY CITY STAFF.



BOUGANVILIA RETENTION BASIN

PLANT PALETTE

TREES	CODE	BOTANICAL / COMMON NAME	CONT	WUCOLS	QTY
	ACA	Acacia aneura / Mulga	15 Gal	LOW (.3)	4
<u>SHRUBS</u>	CODE	BOTANICAL / COMMON NAME	CONT	WUCOLS	QTY
HP	HP	Hesperaloe 'Brake Lights'	5 gal	MED (.5)	17
LLL	LLL	Leucophyllum langmaniae `Lynn`s Legacy` / Barometerbush	5 gal*	LOW (.2)	29
<u>ACCENTS</u>	CODE	BOTANICAL / COMMON NAME	CONT	WUCOLS	QTY
EAB3	AA	Agave americana / Century Plant	5 gal*	V. LOW (.1)	9
ATC+	BTG	Bougainvillea 'Torch Glow'	5 gal	MED (.5)	13
CAP	CAP	Caesalpinia pulcherrima / Red Bird Of Paradise	5 gal	MED (.5)	24



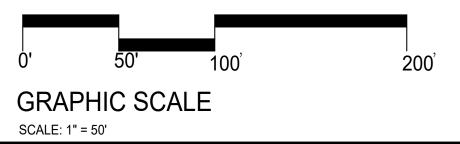
California Gold 3/4" Crush - 11,500 sf Installed to a compacted depth of 2".

Vista Gold 3" - 6" Cobble - 2,300 sf Installed to a depth of 8"

CITY OF COACHELLA

APPROVED FOR CONSTRUCTION:

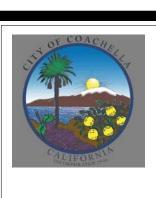




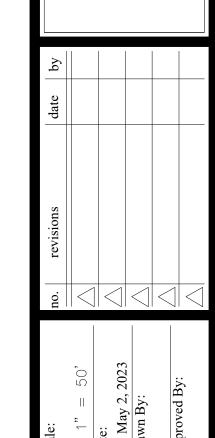


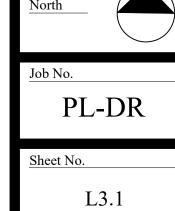






City of Coachella 53990 Enterprise Way





PLANTING NOTES & APPROVAL PROCEDURES

LANDSCAPE ARCHITECTWILL WORK WITH LANDSCAPE CONTRACTOR TO ESTABLISH DESIRED PLANTING CHARACTER OF EACH OF THE DIFFERENT LANDSCAPE TREATMENTS WHEN FIRST LAYED OUT. CONTINUED PLANTING WILL BE LAYED OUT BY LANDSCAPE CONTRACTOR AND APPROVAL OBTAINED BY PERIODIC SITE VISITS BY LANDSCAPE ARCHITECT.

LANDSCAPE CONTRACTOR SHALL BE WILLING TO WORK WITH THE LANDSCAPE ARCHITECT IF CHANGES TO THE PLANT PALETTE ARE NECESSARY TO ACHIEVE

GENERAL NOTES

THE LANDSCAPE CONTRACTOR IS TO PROVIDE A LIST OF SUPPLIERS FOR PLANT MATERIAL. ALL TREES AND PLANT MATERIALS TO BE APPROVED BY LANDSCAPE ARCHITECT AT TIME OF DELIVERY TO THE JOB SITE. THE CONTRACTOR IS TO NOTIFY THE

LANDSCAPE ARCHITECT 48 HOURS PROIR TO SHIPMENT ARRIVAL TO SCHEDULE THE MATERIAL REVIEW.

ALL TREE LOCATIONS ARE TO BE STAKED IN THE FIELD BY LANDSCAPE ARCHITECT. LANDSCAPE CONTRACTOR IS TO NOTIFY LANDSCAPE ARCHITECT A MINIMUM OF 48 HOURS PRIOR TO STAKING. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STAKES UNTIL ALL TREES ARE PLANTED AND VERIFIED BY LANDSCAPE ARCHITECT

ALL TREES AND PLANT MATERIAL ARE TO CONFORM TO THE DETAILS AND SPECIFICATIONS OUTLINED IN THE PLANTING DETAILS AND PLANTING SPECIFICATIONS OF THE CONSTRUCTION PACKAGE.

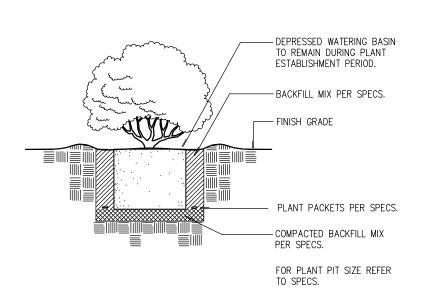
ALL TREES ARE TO BE SELECTED BY LANDSCAPE ARCHITECT. CALL TO OBTAIN A COPY OF THE TREE TAG LIST.

ANY PLANT MATERIAL THAT IS REJECTED SHALL BE REPLACED IMMEDIATELY AND THE REJECTED MATERIAL IS TO BE REMOVED FORM THE JOBSITE.

THE LANDSCAPE CONTRACTOR IS TO VERIFY SHRUB MATERIAL AND INERT MATERIAL QUANTITIES FOR EACH GOLF HOLE WITH THE LANDSCAPE ARCHITECT PRIOR TO PLACING DELIVERY ORDERS. THE ACTUAL QUANTITIES WILL BE BASED ON PLANTING AREAS STAKED IN THE FIELD.

LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING RECORDS OF QUANTITIES OF PLANT MATERIAL USED ON A HOLE BY HOLE BASIS. QUANTITY LISTS SHALL BE DISTRIBUTED TO LANDSCAPE ARCHITECT AS EACH HOLE IS COMPLETED.

SOIL STABILIZATION MAY BE REQUIRED IN VARIOUS LOCATIONS WITHIN THE WORK DISTURBANCE AREA. THE CONTRACTOR SHALL MAKE THE LANDSCAPE ARCHITECT AWARE OF SUCH CONDITIONS, AND A DECISION REGARDING USE OF STABILIZER SHALL BE MADE. SHOULD STABILIZATION BE REQUIRED, THE CONTRACTOR SHALL USE SOILTAC SOIL STABILIZER MANUFACTURED BY SOILWORKS, SCOTTSDALE AZ.



UNTANGLE MATTED ROOTS BY LOOSENING ALL ROOTS @ EDGE OF ROOT BALL w/ WATER FROM HOSE. DO NOT CRACK ROOTBALL.

1. Boulders are specified in tons, with a cubic yard being equal to 1.7 tons

2. Installer is to be responsible to prevent any severe chipping or

damage to boulders during the placement process.

3. Boulders are to be placed using cables from a Loader Boom or a Boulder Placement Boom.

6. All cavities and voids near the bottom of the boulder are to be

7. After setting, soil is to be cleared from boulder to a depth of 6" to allow for staining of boulder below finish grade.8. Boulder is to be washed clean of dirt, debris, and small chips and

Architect and tested on the same type of rock to achieve a standard mixture ratio.

10. Spraying of mixture is to be smooth and uniform on all boulders to

allowed to dry prior to staining.

9. Stain is to be a high quality agent approved by the Landscape

05|02|2023

8"MIN¬

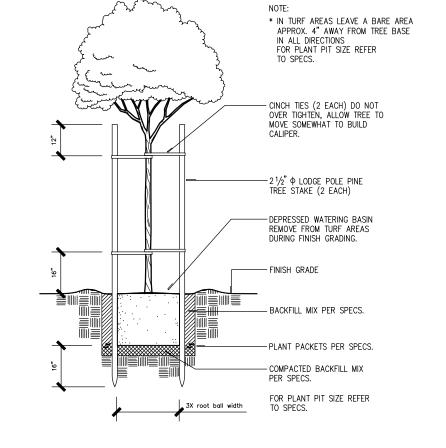
achieve consistency throughout project.

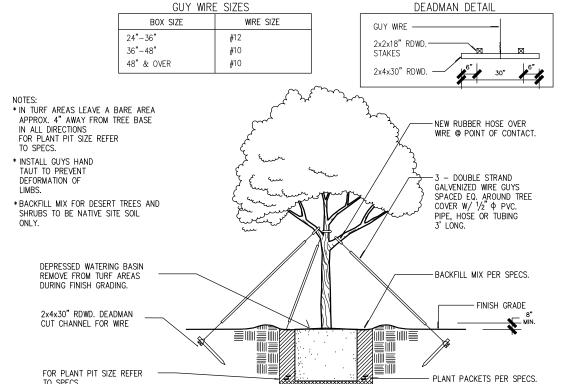
NOTE: BOULDERS IN CLUSTERS ARE TO BE SET AT VARIED HEIGHTS

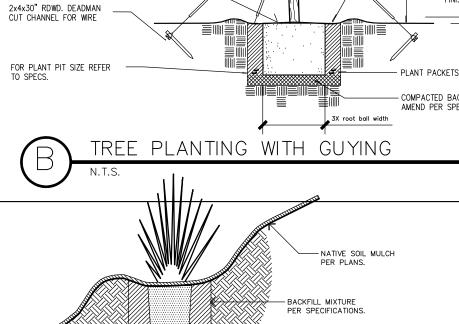
set below finish grade.

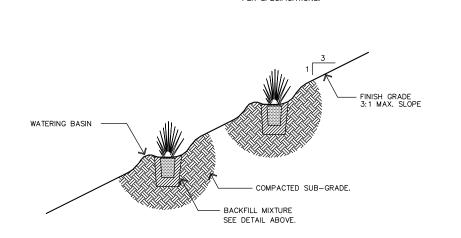
4. Installer is to pay particular attention to how boulder is lifted to allow boulder to be spun in order to set boulder in its most desirable position

5. Boulder is to ultimately be set to a minimum of 1/3 buried (See Detail).



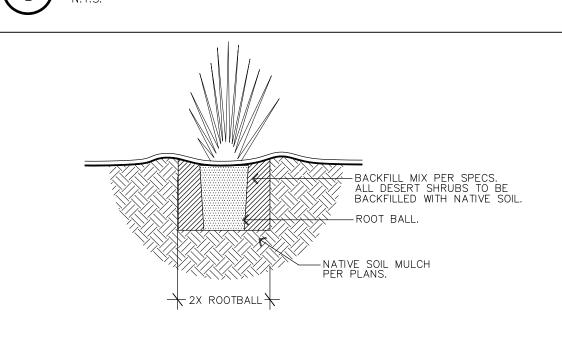






COMPACTED BACKFILL MIXTURE



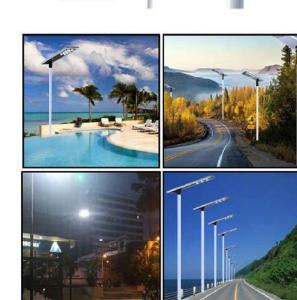


AGAVE PLANTING

Solar Powered HRF-Sensor, RF-Control Ultra Brightness LED Area Light EE880W-SHRC100

100W/16000Lm





Tec	Technical Specifications					
CREE LED	(6000-6500K) 100W 160LM/W > 50000H					
LED Quantity	10 COB					
Battery Type	586WH, Li-ion, 5000 hrs. Normal Operating Cycles					
Solar Panel	80W Monocrystalline Silicon Laminated Plate, Built with Tempered Glass 25+ Years Lifespan					
Charging Method	Solar Power-18Vmpp AUX DC Input: 15-18VDC/-5A					
Solar Charging Time	6-8 hrs with Direct Sunlight					
Lighting Time	3-5 Nights After Full Charge					
Sensor	HRF Sensor + Photocell Sensor					
Lighting Mode	32 Lighting Mode with Remote Control (MOD1+MOD2)					
Housing Material	Aluminum Alloy Housing, Lifespan: 25+ years					
Product Size & Weight	80° x 13° x 2° 53 lbs					
IP Level	65 (Water Resistant and Dust Tight)					
Working Temperature	-13°F ~ 149°F (-25°C ~ 65°C)					
Warranty	2 Years Full Warranty					
Patented and Pending	US 8194061B2; & International					
Certification	CE, ROHS, FCC, ISO9001:2015					
Pole Diameter	3-1/2					
Installation Height	20 - 38 Feet					
Suggested Spacing Distance	79 - 92 Feet Apart					
Package Size & Weight	84" x 16" x 8" 56 lbs					

vww.eleding.com info@eesqi.com Tel: 1-877-579-3889 Mon.-Fri. 10am-5pm PST

CITY OF COACHELLA

6" BELOW FINISH GRADE

#3 HOOP TIES

3"CLR. (TYP.)

6 #6 VERTICAL (60 KSI)

LEVEL GRADE

LIGHT FOUNDATION: 3250 PSI @ 28 DAYS MIN., SULFATE

RESISTANT, TYPE V CONCRETE **SECTION A-A**

NOT TO SCALE

FINISHED SURFACE

6 #6 VERTICAL TYPÉ V CONCRETE

J-BOLTS ENGINEER

BY POLE SUPPLIER

#3 TIES @ 9" O.C. TYP U.O.N.

UNDISTURBED SOIL TYP. OR COMPACTED FILL INSPECTED BY A SOILS

LIGHT FOUNDATION:

3250 PSI @ 28 DAYS MIN., SULFATE RESISTANT,

MARITZA MARTINEZ

SOLAR LIGHT POLE

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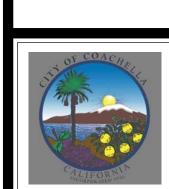
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BEFORE YOU DIG

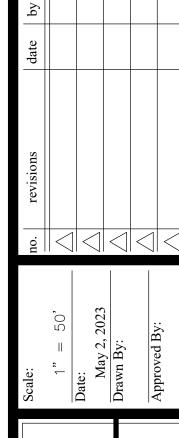
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT







Coachella



Retention Basins DETAILS Coachella

PL-DR