

FIRE WATER LINE DATA			DOMESTIC WATER LINE DATA			SEWER LINE DATA		
LINE #	LENGTH	DIRECTION	LINE #	LENGTH	DIRECTION	LINE #	LENGTH	DIRECTION
F1	2.08	N89° 53' 06.07"E	D1	62.34	N89° 52' 40.04"E	S1	37.64	N89° 59' 48.93"E
F2	11.45	N0° 00' 01.79"E	D2	26.16	S45° 07' 19.96"E	S2	49.92	N89° 59' 48.93"E
F3	4.08	N90° 00' 00.00"E	D3	10.95	S0° 02' 11.13"E	S3	17.45	N0° 00' 11.07"W
F4	132.70	N0° 00' 00.00"E				S4	36.47	N89° 59' 48.93"E
F5	165.60	N90° 00' 00.00"E				S5	14.55	N0° 00' 00.00"E
F6	10.30	N0° 00' 00.00"E						
F7	12.54	N89° 54' 05.02"E						
F8	45.54	N89° 51' 55.25"E						
F9	22.01	S45° 07' 19.96"E						
F10	8.87	S0° 02' 11.13"E						

NOTE TO CONTRACTOR:

- CONTACT SBMWD DISTRIBUTION SECTION AT (909) 453-6121 OR (909) 384-5095 TO SCHEDULE OFF-SITE WATER SERVICE INSTALLATION AND COORDINATION WITH ON-SITE WATER UTILITIES.
- CONTACT SBMWD ENGINEERING SECTION WITH 48-HOUR NOTIFICATION PRIOR INSTALLATION OF THE PROPOSED NEW SEWER LATERAL FOR INSPECTION AT (909) 453-6175.

UTILITY NOTES

WATER CONSTRUCTION NOTES:

- INSTALL 2-INCH WATER SERVICE CONNECTION AND METER PER SBMWD STD. DWG. NO. W1.8
- INSTALL 1-INCH WATER IRRIGATION SERVICE CONNECTION AND METER PER SBMWD STD. DWG. NO. W1.11
- INSTALL 2-INCH BACKFLOW PREVENTER PER SBMWD STD. DWG. NO. W4.1
- INSTALL 1-INCH BACKFLOW PREVENTER PER SBMWD STD. DWG. NO. W4.1
- INSTALL 2-INCH WATER SERVICE TYPE L HARD COPPER TUBING OR APPROVED EQUAL
- INSTALL 1-INCH WATER SERVICE TYPE K SOFT COPPER TUBING OR APPROVED EQUAL
- INSTALL 2-INCH 45° ELBOW
- INSTALL 2-INCH PVC, SCH 40 OR APPROVED EQUAL

SEWER CONSTRUCTION NOTES:

- INSTALL 6-INCH PVC SDR 35 SEWER LATERAL PER SBMWD STD. DWG. NO. S.305
- INSTALL 6-INCH SEWER SADDLE PER SBMWD STD. DWG. NO. S.307
- INSTALL 6-INCH CLEAN OUT PER SBMWD STD. DWG. NO. S.310
- INSTALL GREASE INTERCEPTOR PER PLUMBING PLANS

FIRE PROTECTION CONSTRUCTION NOTES:

- INSTALL 8-INCH FIRE DOUBLE DETECTOR CHECK PER SBMWD STD. DWG. NO. W4.3
- INSTALL POST INDICATOR AND FIRE DEPARTMENT CONNECTION VALVE PER DETAIL ON SHEET C-2
- INSTALL 8-INCH PVC C900 OR APPROVED EQUAL
- INSTALL 6-INCH PVC C900 OR APPROVED EQUAL
- INSTALL 6-INCH DIA. FIRE HYDRANT PER SBMWD STD. DWG. NO. W2.2
- INSTALL 6-INCH 45° ELBOW
- INSTALL 8-INCH 90° ELBOW
- INSTALL 8X8-INCH TEE
- INSTALL 8X6" REDUCER WITH RESTRAINED JOINTS
- CONNECT FIRE LINE PER DETAIL ON SHEET C-2
- INSTALL 8-INCH TAPPING SLEEVE PER SBMWD STD. DWG. NO. W3.5
- CONSTRUCT 3'X3' CONCRETE PAD PER SBMWD STD. DWG. NO. W2.2
- INSTALL 6-INCH CLASS 350 DUCTILE IRON PIPE RESTRAINED WITH MEGALUG OR APPROVED EQUAL
- INSTALL 8-INCH CLASS 350 DUCTILE IRON PIPE RESTRAINED OR APPROVED EQUAL
- INSTALL 6-INCH TAPPING SLEEVE PER SBMWD STD. DWG. NO. W3.5

LEGEND

- TAPPING SLEEVE
- DOUBLE CHECK DETECTOR ASSEMBLY
- POST INDICATOR VALVE
- GATE VALVE
- FIRE HYDRANT
- BACKFLOW PREVENTER
- PROPOSED FIRELINE
- POINT OF CONNECTION
- CLEAN OUT
- F.D.C.
- WATER METER
- BLUE RETRO-REFLECTIVE
- THRUST BLOCK
- PROPOSED WATERLINE
- PROPOSED STORM DRAIN

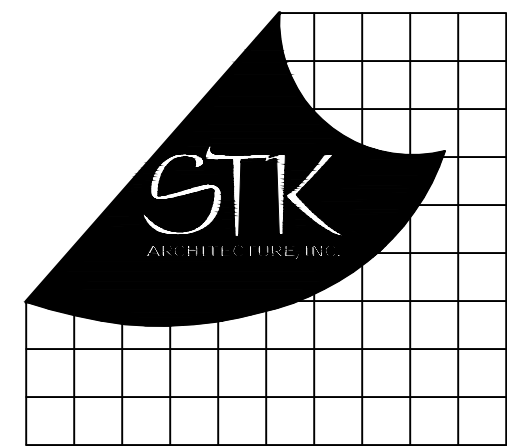
STA. 10+66.71
CONNECT TO 8" WATER

STA. 10+61.71
CONNECT TO 8" WATER

STA. 10+56.71
CONNECT TO 8" WATER

STA. 10+51.71
CONNECT TO 8" WATER

- NOTES:**
- TRENCH DETAIL PER SBMWD STD. DWG. NO. W5.1 AND W5.1A
 - ALL THRUST BLOCKS AND RESTRAINED JOINTS PER SBMWD STD. DWG. NO. W6.4 AND W6.4A
 - INSTALL THRUST BLOCKS AT ALL ANGLE POINTS, TEES, END OF LINES, AND FIRE HYDRANTS



CONSULTANT:



1861 W. Redlands Blvd, Bldg 7B
Redlands, Ca, 92373
P: (909) 890-1255
F: (909) 890-0995

PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY
PROJECT & FACILITIES
MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
SAN BERNARDINO
COUNTY FIRE
DEPARTMENT:
FIRE STATION 227

PROJECT # 10.10.1202
CIP #22-105
APN: 0154-281-01

180 W. 38TH STREET
SAN BERNARDINO,
CA 92405

ISSUE INFORMATION:

DATE:	INFORMATION:
03-14-25	Plan Check
05-13-25	Plan Check
06-20-25	Plan Check

08-22-25 BID SET

SHEET INFORMATION:

STK PROJECT NO.: 374-193-24
SCALE: AS NOTED
DATE: DECEMBER 2024
PLOT DATE:
DRAWING NAME:

SEAL:



SHEET TITLE:

ON-SITE
UTILITIES

SHEET NO.:

C-5

SHT 5 OF 6

EROSION CONTROL CONSTRUCTION NOTES

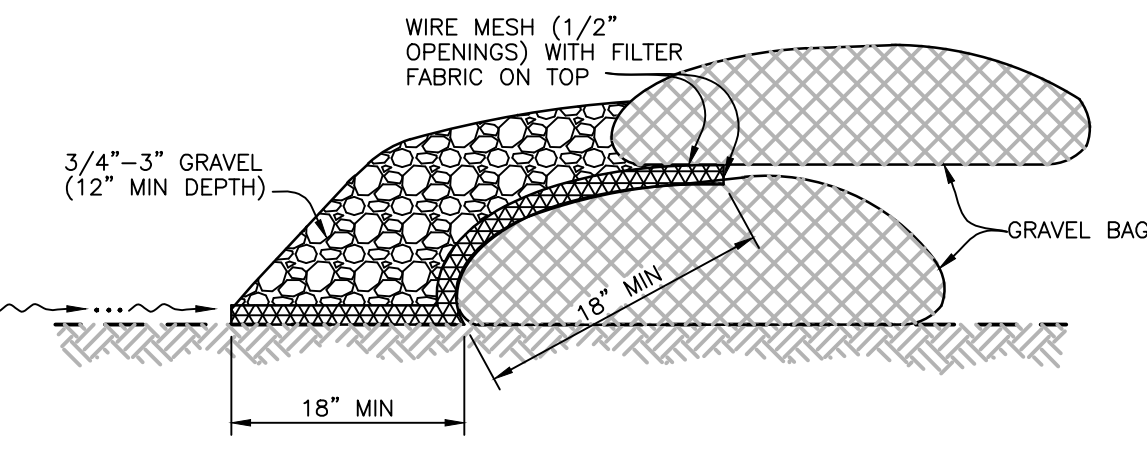
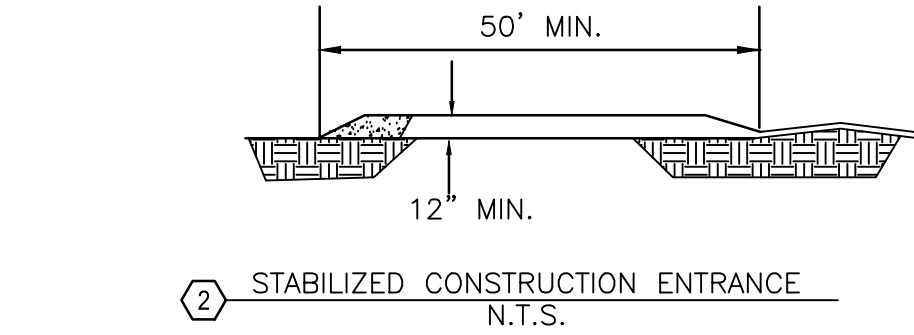
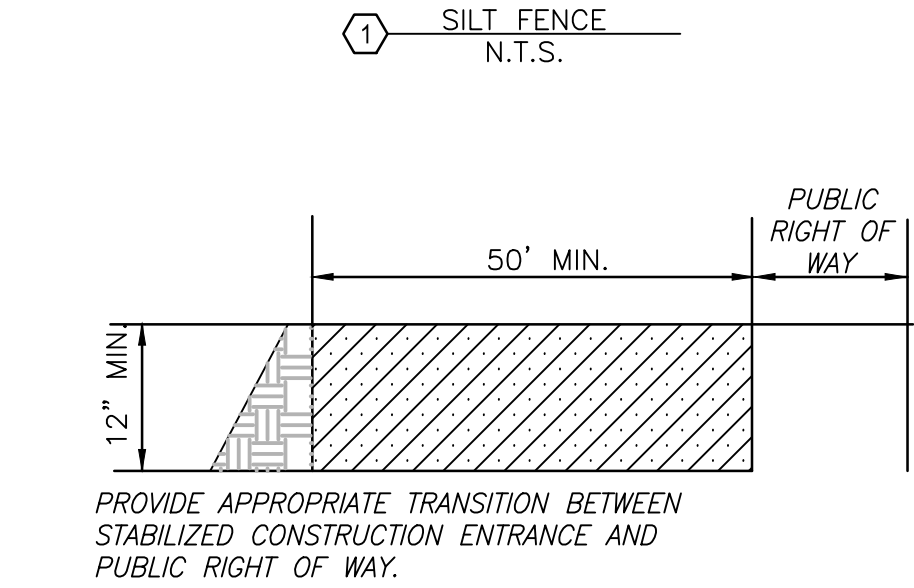
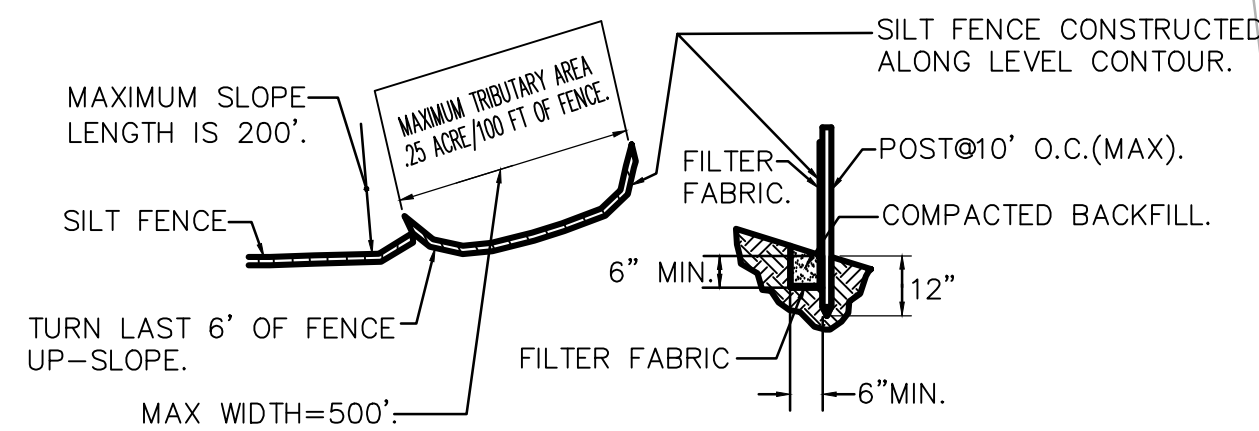
- 1 SILT FENCE (SE-1).
- 2 STABILIZED CONSTRUCTION ENTRANCE/EXIT (TC-1) WITH RUMBLE RACKS (10'x24" MIN.).
- 3 GRAVEL BAG BARRIER (SE-6).
- 4 MATERIAL DELIVERY AND STORAGE (WM-01).
- 5 VEHICLE STORAGE.
- 6 WASTE STORAGE AREA.
- 7 VEHICLE WASHING AND MAINTENANCE AREA.
- 8 STORM DRAIN INLET PROTECTION (SE-10).
- 9 WIND EROSION CONTROLS PER CASQA NS-3.
- 10 STREET SWEEPING (SE-7).
- 11 FIBER ROLLS (SE-5).

LEGEND

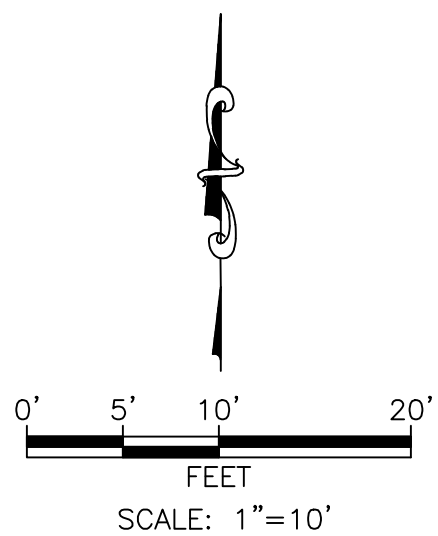
- SAND BAGS
- SILT FENCE
- FLOW PATH
- GRADING LIMITS
- FIBER ROLLS
- OVER-EXCAVATION LIMITS
- STABILIZED CONSTRUCTION ENTRANCE
- MATERIAL DELIVERY/STORAGE AREA
- VEHICLE STORAGE AND MAINTENANCE AREA
- VEHICLE WASHING AREA
- WASTE STORAGE AREA

NOTE TO CONTRACTOR

ALL OFF-SITE VEGETATION IS TO BE PROTECTED IN PLACE



3 GRAVEL BAG DETAIL N.T.S.



N MOUNTAIN VIEW AVENUE

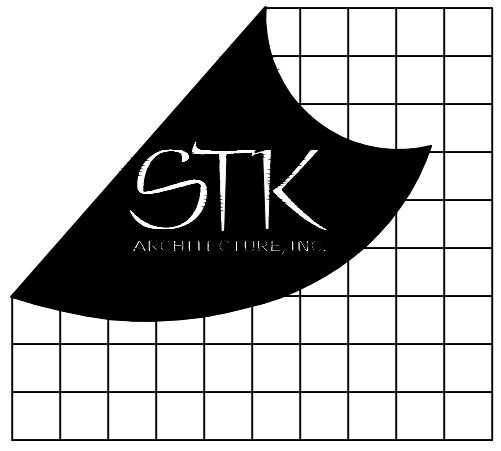
GENEVIEVE STREET

38TH STREET

NOT FOR BID

PROPOSED FIRE STATION
FF = 1287.00
PAD = 1286.50

FIRE APPARATUS BAY
FF = 1287.00
PAD = 1286.25



4095 ZEVOR DR. TEMECULA, CALIFORNIA 92590-3760
Phone: 951.296.8110 Fax: 951.296.6079 Email: sk@stkinc.com

CONSULTANT:



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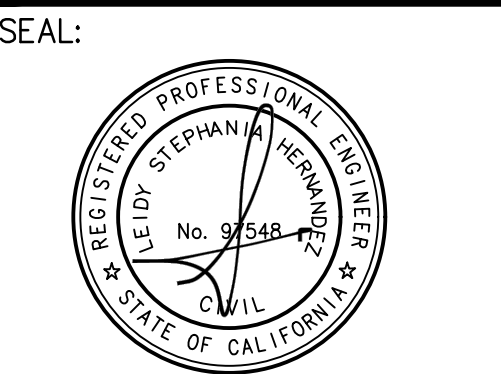
PROJECT # 10.10.1202
CIP #22-105
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180 W. 38TH STREET
SAN BERNARDINO,
CA 92405

ISSUE INFORMATION:	
DATE:	INFORMATION:
03-14-25	Plan Check 1
05-13-25	Plan Check 2
06-20-25	Plan Check 3

08-22-25 BID SET

SHEET INFORMATION:
STK PROJECT NO.: 374-193-24
SCALE: AS NOTED
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DRAWING NAME:



SHEET TITLE:

EROSION
CONTROL

SHEET NO.:

C-6

SHT 6 OF 6

N MOUNTAIN VIEW AVENUE

38TH STREET

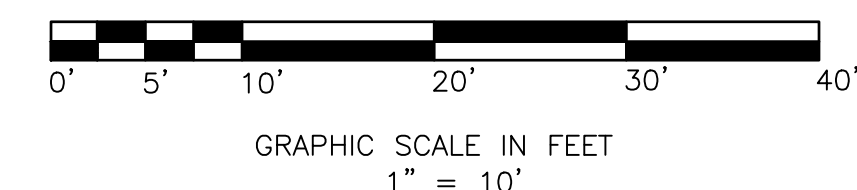
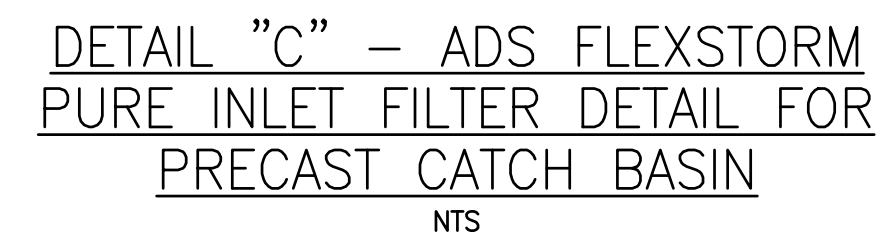
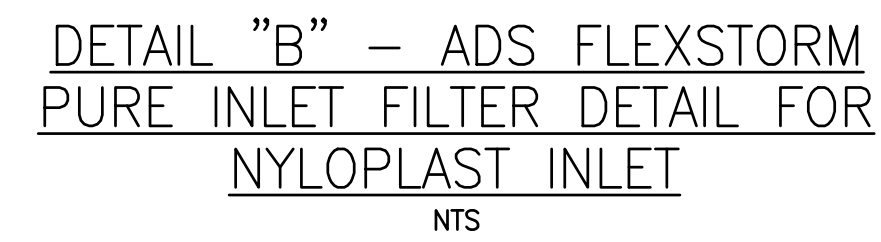
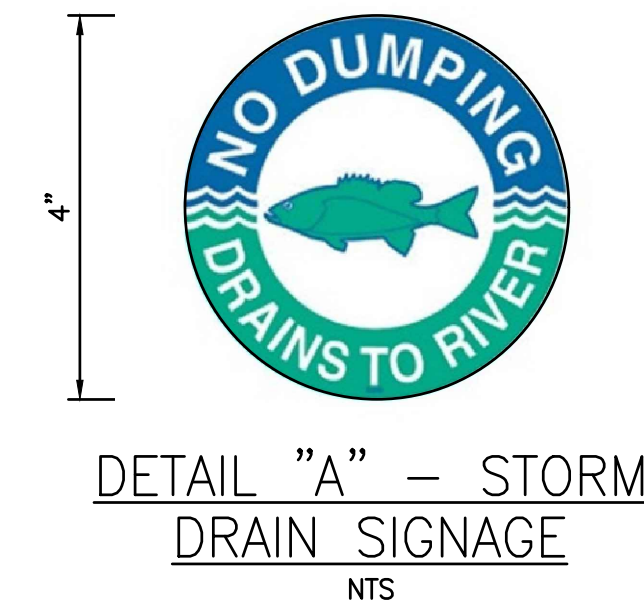
GENEVIEVE STREET

LEGEND

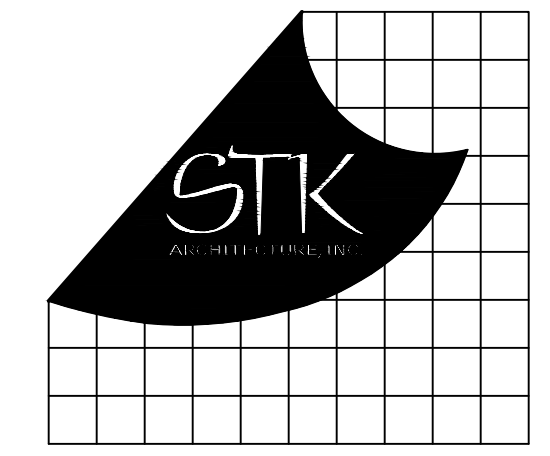
- DA1 DRAINAGE AREA (DA)
DMA-A DRAINAGE MANAGEMENT AREA (DMA)
1.00 ACRES NET AREA IN ACRES
DIRECTION OF SURFACE FLOW
DRAINAGE AREA
DMA BOUNDARY
PROPOSED PERVIOUS AREA (LANDSCAPE)
PROPOSED IMPERVIOUS AREA
BUILDING ROOF AREA
PROPOSED INFILTRATION CHAMBERS (BMP)
PROPOSED STORM DRAIN INLET/OUTLET
DISCHARGE LOCATION

STRUCTURAL BMP NOTES

- 1 TREATMENT CONTROL BMP - UNDERGROUND CHAMBER SYSTEM
2 STORAGE BUILDING PER DETAIL ON SHEET A1.3 OF ARCHITECTURAL PLANS
3 TRASH STORAGE AREA PER DETAIL ON SHEET A1.3 OF ARCHITECTURAL PLANS
4 LANDSCAPE AND IRRIGATION SYSTEM DESIGN
5 FUELING AREA PER DETAIL ON SHEET A1.2 OF ARCHITECTURAL PLANS
6 STORM DRAIN SYSTEM STENCILING/SIGNAGE PER DETAIL "A"
7 INSTALL ADS FLEXSTORM PURE INLET FOR NYLOPLAST INLET, OR APPROVED EQUAL PER DETAIL "B"
8 INSTALL ADS FLEXSTORM PURE INLET FOR PRECAST CATCH BASIN, OR APPROVED EQUAL PER DETAIL "C"



DA ID	AREA (ACRES)	EXISTING IMPERVIOUS AREA	PROPOSED IMPERVIOUS AREA	REQUIRED VOLUME	DESIGN VOLUME	BMP (SIZE AND TYPE)
DA 1	1.18	0%	77%	4,714 CF	4,917.45 CF	BMP 1: UNDERGROUND CHAMBERS



CONSULTANT:



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CA 92405

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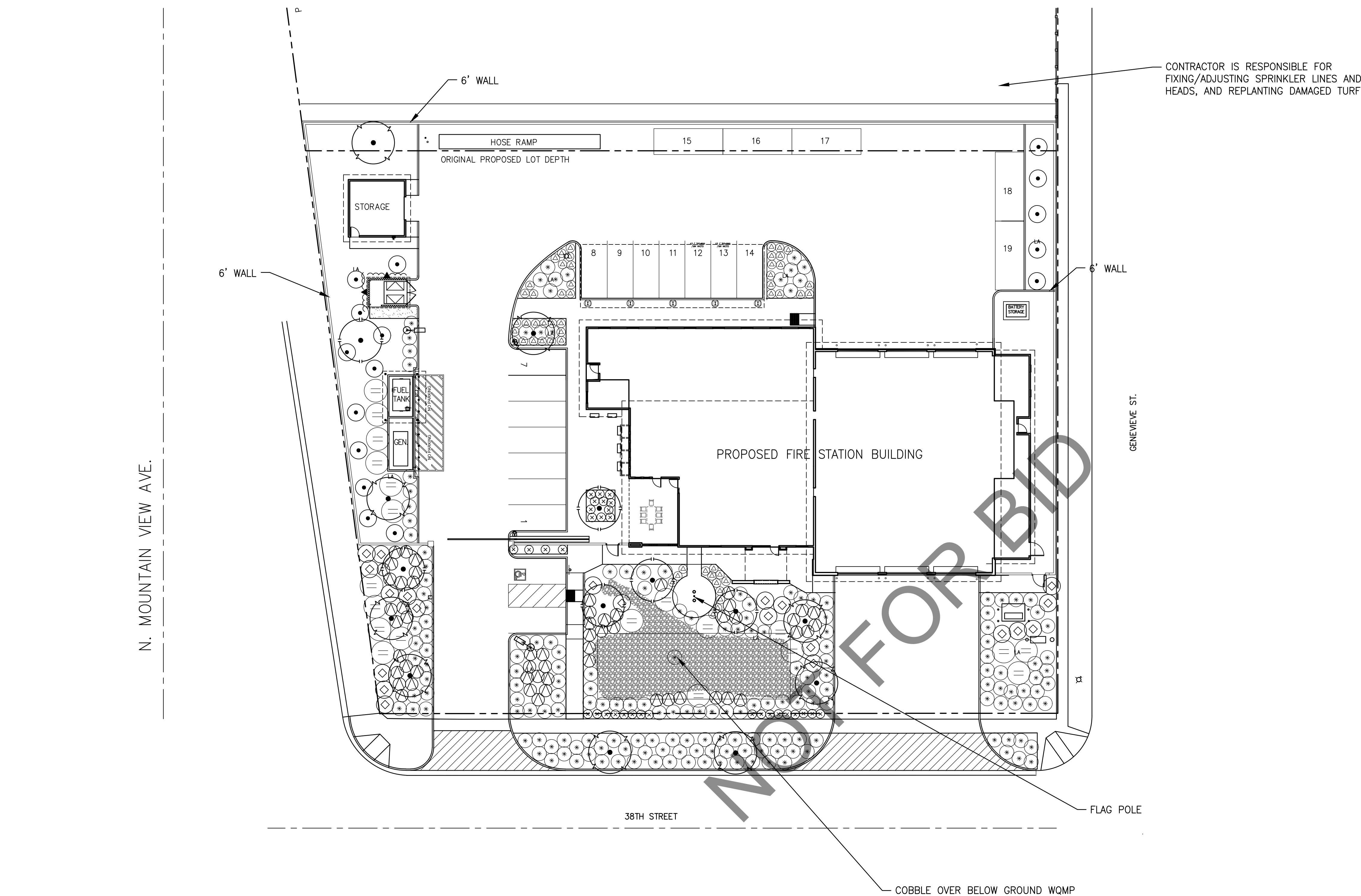
SHEET TITLE:

WQMP MAP

SHEET NO.:

1 OF 1

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12/23/2024, 1:00PM

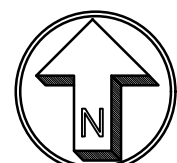


PLANTING LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	NUMBER	REMARKS	WUCOLS IV
TREES:						
●	LAURUS NOBILIS 'SARATOGA'	BAY LAUREL	24" BOX	9	DOUBLE STAKE / HEIGHT 8-10' , SPREAD 3'-4' MIN.	L
●	CERCIDIUM 'DESERT MUSEUM'	DESERT MUSEUM PALO VERDE	24" BOX	6	DOUBLE STAKE / HEIGHT 8-10' , SPREAD 3'-4' MIN.	L
SHRUBS:						
●	BACCHARIS PILULARIS 'PIGEON POINT'	PROSTRATE COYOTE BUSH	1 GAL	187	TRIANGULAR SPACING @ 5' O.C.	L
●	HESPERALOE PARVIFLORA	RED YUCCA	5 GAL	57	FULL & BUSHY @ 4' O.C.	L
●	CALLISTEMON VIMINALIS 'BETTER JOHN'	DWARF BOTTLEBRUSH	5 GAL	32	FULL & BUSHY @ 3' O.C.	L
●	DIANELLA 'LITTLE REV'	LITTLE REV FLAX	5 GAL	53	FULL & BUSHY @ 3' O.C.	L
●	ACACIA REDOLENS 'DESERT CARPET'	PROSTRATE ACACIA	1 GAL	20	TRIANGULAR SPACING @ 8' O.C.	L
●	LEUCOPHYLLUM FRUTESCENS 'GREEN CLOUD'	GREEN TEXAS RANGER	5 GAL	16	FULL & BUSHY @ 6' O.C.	L
●	CAESALPINIA PULCHERRIMA	MEXICAN BIRD OF PARADISE	5 GAL	21	FULL & BUSHY @ 6' O.C.	L
VINES:						
●	MACFADYENA UNGUIS-CATI	CAT'S CLAW	5 GAL	2	ATTACH TO WALLS	L
MULCH :						
NOT SHOWN	MEDIUM GRIND WOOD MULCH	SHREDDED WOOD MULCH	3" MIN.	AS REQ'D.	3" DEEP - INSTALL TO ALL PLANTING AREAS	

PLANTING NOTES

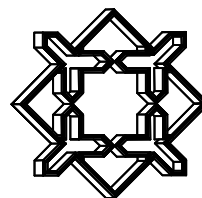
- CONTRACTOR SHALL APPLY "IRON STAR" PRE-EMERGENT HERBICIDE AT 3 lbs. PER 1000 s.f. AFTER PLANTING AND BEFORE MULCH INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.(ONLY ON NON-SEEDED AREAS)
- ALL PLANTING SHALL CONFORM TO THE SAN BERNARDINO COUNTY DEVELOPMENT CODES AND STANDARDS.
- SOIL TESTING:
CONTRACTOR SHALL PROVIDE A HORTICULTURAL SOILS ANALYSIS PERFORMED BY A LABORATORY OF THE CALIFORNIA ASSOC. OF AGRICULTURAL LABORATORIES. SOIL ANALYSIS SUBMITTED TO THE CITY SHALL INCLUDE THE FOLLOWING: SOIL TEXTURE, PERCENTAGE OF ORGANIC MATTER, SOIL INFILTRATION RATE (DERIVED FROM SOIL TEXTURE/ INFILTRATION RATE TABLES), PH AND TOTAL SOLUBLE SALTS. CONTRACTOR SHALL SPECIFICALLY REQUEST THE SOILS LAB TO PROVIDE AMENDMENT RECOMMENDATIONS.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE OF ALL PLANTING AREAS ON SITE AND SUBSURFACE DRAINAGE FOR ENCLOSED PLANTING AREAS.
- THE CONTRACTOR SHALL CAREFULLY INSPECT THE SITE AND VERIFY ALL THE CONDITIONS AND DIMENSIONS PRIOR TO PROCEEDING WITH ANY WORK. NOTIFY LANDSCAPE ARCHITECT AND OWNER IF ANY INCONSISTENCIES OCCUR.
- THE CONTRACTOR SHALL REMOVE ALL WEEDS, ROCKS, DEBRIS AND OTHER EXTRANEOUS MATERIALS FROM THE JOB SITE PRIOR TO PROCEEDING WITH ANY WORK.
- ALL PLANT MATERIALS SHALL BE HANDLED OR STORED SO THAT THEY ARE ADEQUATELY PROTECTED FROM DRYING OUT, FROM SUN OR WIND BURN, OR FROM ANY OTHER INJURY.
- THE CONTRACTOR SHALL APPLY TO ALL PLANTING AREAS FOREST FLOOR MEDIUM GRIND WOOD MULCH OR EQUAL. CONTRACTOR SHALL PROVIDE LANDSCAPE ARCHITECT WITH SAMPLES FOR APPROVAL PRIOR TO INSTALLATION.
- CONTRACTOR TO VERIFY ALL PLANT QUANTITIES SHOWN ON PLANS.
- SEE SHEET L-3 FOR DETAILS & SPECIFICATIONS.
- ALL ABOVE GROUND UTILITIES SHALL BE SCREENED W/ PLANTING. CONTRACTOR SHALL TURN OVER SOIL AMENDMENT VERIFICATION TICKETS TO THE CITY INSPECTOR.
- ALL PLANTING SHALL NOT INTERFERE W/ TRAFFIC SITE LINES.
- CONTRACTOR SHALL INSTALL .0060" SIZE NON-PANELED ROOT BARRIERS ADJACENT TO HARDSCAPE WHEN TREES ARE PLANTED 5' FROM THE HARDSCAPE TYP. SEE DETAILS & SPECIFICATIONS.
- CONTACT THE COUNTY REPRESENTATIVE FOR FINAL INSPECTION WHEN ALL WORK IS COMPLETED.
- TREES & SHRUBS SHALL BE PLACED A MINIMUM OF 5' AWAY FROM WATER METER, GAS METER, OR SEWER LATERALS; A MINIMUM OF 10' AWAY FROM UTILITY POLES; & A MINIMUM OF 8' AWAY FROM FIRE HYDRANTS & FIRE DEPARTMENT SPRINKLER & STANDPIPE CONNECTIONS.



SCALE:
1"=20'-0"



CONSULTANT:



ALHAMBRA GROUP
LANDSCAPE ARCHITECTURE
CALIFORNIA LICENSE #2017
RECREATION FACILITIES PLANNING
41835 ENTERPRISE CIRCLE NORTH, SUITE C
TEMECULA, CA 92590 (951) 296-6802

PROJECT ADMINISTERED BY:
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PROJECT & FACILITIES
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SAN BERNARDINO, CA 92415

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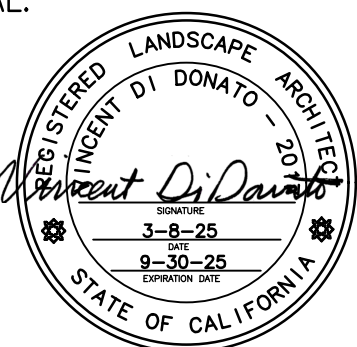
DATE:	INFORMATION:
9-11-24	D.D.s
12-20-24	95% CDS
03-08-25	Plan Check

08-22-25 BID Set

SHEET INFORMATION:

STK PROJECT NO.: 374-193-24
SCALE: AS NOTED
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SHEET TITLE:

PLANTING
PLAN

SHEET NO.:

L-1
OF 3

BLU-LOCK SPECIFICATIONS

HIGH DENSITY POLYETHYLENE PIPE AND FITTINGS:

A. ALL PIPE SHALL BE CONSTRUCTED OF VIRGIN HIGH DENSITY POLYETHYLENE (HDPE) RESIN WITH THE CELL CLASSIFICATION OF 345464C PER ASTM D 2239 OR ASTM D 2737. THE MATERIAL SHALL CONTAIN 2% CARBON BLACK AS A UV INHIBITOR TO ACCOMMODATE OUTSIDE STORAGE.

B. ALL PIPE FITTINGS SHALL BE CONSTRUCTED FOR QUICK COUPLE PUSH-ON INSTALLATION WITHOUT THE USE OF GLUE OR CLAMPS ONTO 1/2" SWING, OR 3/4", OR 1", HDPE 3408 SDR 15 LATERAL PIPE.

C. FITTINGS SHALL BE BUILT OF ABS MATERIAL WITH A STAINLESS STEEL RETAINING RING AND EPDM SEAL MATERIAL.

D. FITTINGS SHALL BE FOR OUTDOOR USE ONLY ON COLD WATER, NOT FOR USE ON CONSTANT PRESSURE, DESIGNED FOR USE ON LATERALS ONLY OR FOR USE ON ALL SYSTEM LINES FROM THE MASTER VALVE OUT.

TYPE: HYDRO-RAIN BLU LOCK OR APPROVED EQUAL

DRIP SYSTEM PRESSURE LOSS CALCS.

VALVE 1A @ 10 G.P.M.
PRESSURE AVAILABLE AT METER : 80.0 P.S.I.
REGULATED PRESSURE: 63.0 P.S.I.

EQUIPMENT	SIZE	P.S.I. LOSS
METER	3/4"	(1.0)
B.P.U.	3/4"	(11.0)
MASTER VALVE	1-1/2"	(1.5)
FLOW SENSOR	1-1/2"	(2.0)
BALL VALVE	1-1/2"	(1.5)
R.C.V.	1"	(1.5)
MAIN LINE	1-1/2"	(2.2)
ELEVATION CHANGE	0'	(0.0)

P.S.I. LOSS BEFORE PRESSURE REGULATOR: (24.3 P.S.I.)

PRESSURE AVAILABLE AT R.C.V BEFORE PR: 50.7 P.S.I.

REGULATOR REDUCES PRESSURE TO: 40.0 P.S.I.

EQUIPMENT	SIZE	P.S.I. LOSS
LATERAL LINES	VARIES	(3.0)
EMITTERS (OPERATING)	N/A	(25.0)
PRESSURE 25 PSI		
ELEVATION CHANGE	0'	(0.0)

P.S.I. LOSS AFTER PRESSURE REGULATOR: (28.0 P.S.I.)

TOTAL RESIDUAL PRESSURE: 12.0 P.S.I.

IRRIGATION LEGEND

SYMBOL	MANUFACTURER	MODEL NO.	REMARKS - SEE SHEET L-3 FOR DETAILS & SPECIFICATIONS
	HUNTER	IC-600-PL	6 STATION AUTOMATIC IRRIGATION CONTROLLER - INSTALL IN ELECTRIC ROOM NEAR A 120V A.C. CONNECTION.
	FERCO	R25-YA-3/4"	REDUCED PRESSURE B.P.U., INSTALL IN PLANTING AREA
	HUNTER	XCZ-100-PRB-COM	ET SENSOR W/ OUTDOOR INTERFACE ET MODULE. INSTALL ON POLE NEAR WALL, UNOBSTRUCTED BY TREES AND OVERHANGS.
	RAINBIRD	FLOW-CLK-100	1" REMOTE CONTROL VALVE KIT W/ PRESSURE REGULATOR (40 PSI) AND FILTER
	HUNTER	ICV-150G	1" FLOW SENSOR
	HUNTER	33DLRC	1-1/2" MASTER CONTROL VALVE
	RAINBIRD	SB-20	QUICK COUPLING VALVE
	BOWSMITH	UB SERIES	NON-STOP DRIP EMITTER (2 GPH), 3 PER TREE, 1 PER SHRUB.
	NIBCO	SCHEDULE 40	PLASTIC BALL VALVE (THREADED) LINE SIZE - TYPICAL
	PAC. PLASTICS	BLU-LOCK	PRESSURE TYPE MAINLINE - INSTALL WITH 18" MINIMUM COVER
	PAC. PLASTICS	SCHEDULE 40	NON-PRESSURE TYPE SLEEVE
	ROBERTS	POLY	NON-PRESSURE LATERAL LINE-INSTALL 2" BELOW GRADE EXCEPT UNDER PAVEMENT INSTALL 12" BELOW GRADE-SEE DETAILS.
	HYDRORAIN/ORBIT	MODEL 5024	NON-PRESSURE TYPE LATERAL - INSTALL WITH 12" MINIMUM COVER
	FLO-CONTROL	1520-10/1012-10	MICRO (SPAGHETTI) POLYTUBE WITH STAKES
	EZ-FLO	EZ005-FX	AUTOMATIC DRAIN FLUSH VALVE

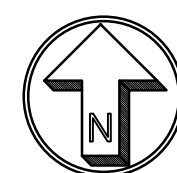
IRRIGATION NOTES

- IRRIGATION SYSTEM IS SHOWN DIAGMAMMATICALLY. LOCATE ALL PIPE AND EQUIPMENT WITHIN PLANTING AREAS WHEREVER POSSIBLE.
- LOCATE PRESSURE LINES WITHIN 18" OF EDGE OF HARDSCAPE IN PLANTING AREAS.
- ADJUST ALL EMITTERS FOR UNIFORM DISTRIBUTION IN ALL PLANTING AREAS & ADD EMITTERS AS REQUIRED.
- TREE LOCATIONS TAKE PRECEDENCE OVER IRRIGATION PIPING & DRIP LINE. STAKE TREE LOCATIONS PRIOR TO TRENCHING PIPE.
- CONTRACTOR SHALL ARRANGE AND PAY FOR ALL NECESSARY CONNECTIONS FOR 120V A.C. ELECTRICAL SERVICE TO IRRIGATION CONTROLLER.
- CONTRACTOR SHALL INSPECT THE SITE AND VERIFY ALL CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. TO ALLOW FOR ADEQUATE IRRIGATION COVERAGE AS SHOWN ON PLAN, ADJUST DRIP LINE TO COMPENSATE FOR ANY CHANGES IN AREA.
- TO ENSURE PROPER LOCATION OF IRRIGATION SLEEVE INSTALLATION COORDINATE LOCATION OF MAINLINE, DRIP LINES AND CONTROL WIRES WITH ALL OTHER RELATED TRADES AS REQ.
- ALL BRASS FITTINGS TO BE RED BRASS TYPICAL.
- USE 3/4" TEFLON TAPE ON ALL THREADED CONNECTIONS.
- IRRIGATION SYSTEMS DESIGNED FROM A STATIC WATER PRESSURE OF 80 P.S.I.; THE CONTRACTOR SHALL VERIFY WATER PRESSURE AT WORST CONDITION AND CONTACT LANDSCAPE ARCHITECT IF ANY INCONSISTENCIES OCCUR.
- CONTROL WIRE SCHEDULE: (MAX. LENGTH OF RUNS)
CONTROL/COMMON NO. 14 NO. 12 NO. 10 NO. 8
NO. 14 1700' 2000' 2400' 2700'
NO. 12 2700' 3300' 3800'
NO. 10 4300' 5200'
NO. 8 6700'
- ALL IRRIGATION SHALL CONFORM TO SAN BERNARDINO COUNTY DEVELOPMENT CODES AND STANDARDS.

LOW DRIP IRRIGATION SCHEDULE

	ETO	% ETO	CU. FT.	GALLONS	DAYS	GPM	MIN	G/DAY
JANUARY	2.17	0.04	102	762.97	4.00	14.43	13	191
FEBRUARY	2.84	0.05	134	999.12	5.00	14.43	14	200
MARCH	4.03	0.07	189	1,416.94	7.00	14.43	14	202
APRIL	4.55	0.08	214	1,598.60	8.00	14.43	14	200
MAY	6.10	0.11	287	2,143.57	11.00	14.43	14	195
JUNE	7.65	0.13	359	2,688.55	13.00	14.43	14	207
JULY	7.86	0.14	369	2,761.21	14.00	14.43	14	197
AUGUST	7.24	0.13	340	2,543.22	13.00	14.43	14	196
SEPTEMBER	6.00	0.10	282	2,107.24	11.00	14.43	13	192
OCTOBER	4.03	0.07	189	1,416.94	7.00	14.43	14	202
NOVEMBER	2.69	0.05	126	944.63	5.00	14.43	13	189
DECEMBER	2.17	0.04	102	762.97	4.00	14.43	13	191
	57.33	1.00	2,693	20,145.97				

RUN EACH SYSTEM FOR THE MINUTES SHOWN EVERY DAY DURING PLANT ESTABLISHMENT



SCALE:
1"=20'-0"

County of San Bernardino Landscape Water Use Calculations

Project Type (Select) Commercial

Fire Station 227

0.45 ETo allowance

Applicant to use drop down menus in cells that indicate a selection to describe each hydrozone.

Where "INPUT" is shown, applicant to enter project specific information.

Please note that embedded formulas will reflect as "false" or as an error until selections are completed.

1 Maximum Annual Water Allowance (MAWA)

INPUT the total square footage of landscape = 2,165 S.F.

INPUT the Hist. ETo for the area = 57.33

MAWA = 4,630 cu ft / yr

2 Estimated Annual Water Use (EAWU)

Hydrozone # 1 Plant Factor = 0.2

INPUT Square Foot Area of Hydrozone = 2,165

Hydrozone Irrigation Efficiency = 0.90

EAWU = 2,286 cu ft / yr

Plant Type Water Use

Shrubs / Groundcover Low

Hydrozone # 2 Plant Factor = 0

INPUT square footage of hydrozone = 0

Hydrozone Irrigation Efficiency = 1

EAWU = 0 cu ft / yr

Plant Type Water Use

SELECT SELECT

Hydrozone # 3 Plant Factor = 0

INPUT square footage of hydrozone = 0

Hydrozone Irrigation Efficiency = 1

EAWU = 0 cu ft / yr

Plant Type Water Use

SELECT SELECT

Hydrozone # 4 Plant Factor = 0

INPUT square footage of hydrozone = 0

Hydrozone Irrigation Efficiency = 1

EAWU = 0 cu ft / yr

Plant Type Water Use

SELECT SELECT

Hydrozone # 5 Plant Factor = 0

INPUT square footage of hydrozone = 0

Hydrozone Irrigation Efficiency = 1

EAWU = 0 cu ft / yr

Plant Type Water Use

SELECT SELECT

Hydrozone # 6 Plant Factor = 0

INPUT square footage of hydrozone = 0

Hydrozone Irrigation Efficiency = 1

EAWU = 0 cu ft / yr

Plant Type Water Use

SELECT SELECT

SubTotal EAWU = 2,286 cu ft / yr

Input Irrigation System Operation Factor = 0.85

Total EAWU = 2,689

MAWA - EAWU = 1,941 cu ft / yr

(this number must be positive)

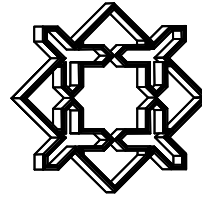
PERCENTAGE OF WATER SAVED RELATIVE TO MAX ALLOWED = 42%

* Trees are not required to be listed as a separate hydrozone if understorey is planted with plants of an equal or higher plant factor, and foot area is already included in calculations.

IRRIGATED AREA IS 5 S.F. PER EMITTER



CONSULTANT:



ALHAMBRA GROUP

LANDSCAPE ARCHITECTURE

CALIFORNIA LICENSE #2017

RECREATION FACILITIES PLANNING

41835 ENTERPRISE CIRCLE NORTH, SUITE C

TEMECULA, CA 92590 (951) 296-6802

PROJECT ADMINISTERED BY:

SAN BERNARDINO COUNTY

PROJECT & FACILITIES

MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE.

SAN BERNARDINO, CA 92415

PROJECT NAME:

SAN BERNARDINO

COUNTY FIRE

DEPARTMENT:

FIRE STATION 227

PROJECT # 10.10.1202

CIP #

CAFM #

APN #

180 W. 38TH STREET

SAN BERNARDINO,

CA 92405

ISSUE INFORMATION:

DATE: INFORMATION:

9-11-24 D.D.s

12-20-24 95% CDS

03-08-25 Plan Check

08-22-25 BID Set

SHEET INFORMATION:

STK PROJECT NO.: 374-193-24

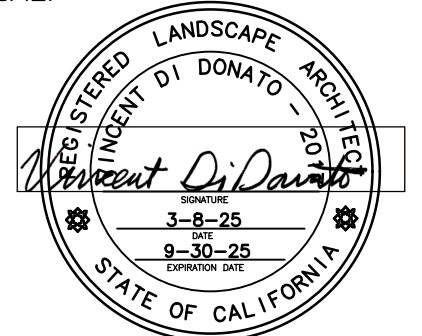
SCALE: AS NOTED

DATE: DECEMBER 2024

PLOT DATE: -

DRAWING NAME: -

SEAL:



SHEET TITLE:

IRRIGATION

PLAN

SHEET NO.:

L-2
OF 3

