W.H. Williamson Park Irrigation Project

10551 COLOMA ROAD, SACRAMENTO, CALIFORNIA 95827

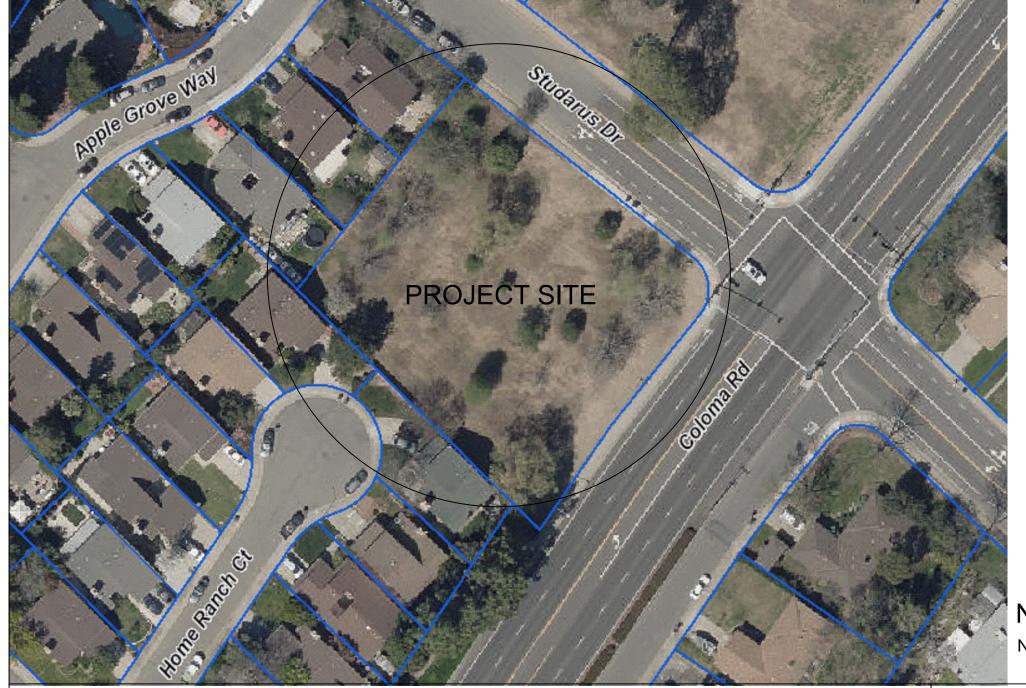
APN: 056-0440-049

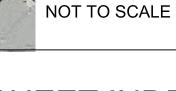
DESCRIPTION OF WORK:

This project includes the installation of irrigation on the W.H. Williamson Park site.

GENERAL NOTES:

- 1. See specifications for additional project information and requirements.
- 2. Project specifications are an integral part of these drawings. Upon submittal of a bid price by the contractor, it is recognized that the contractor has received a copy of the specifications and the contractor agrees to abide by the requirements and conditions contained therein.
- 3. The contractor shall examine the site, compare it with the plans and specifications, carefully examine all of the contract documents, and satisfy himself as to the conditions under which the work is to be performed before entering into the contract. No allowance shall subsequently be made on behalf of the contractor on account of an error on his part and/or his negligence and/or failure to acquaint himself with the conditions of the site.
- 4. The locations of existing utilities on these plans are approximate. The Park District assumes no liability for the accuracy or completeness of the existing facilities shown here or for the existence of other underground utilities or objects which may be discovered but are not shown on these plans. The contractor shall determine the exact location of any existing utilities before commencing work, and agrees to be fully responsible for any and all damage due to the contractors failure to exactly locate and preserve any and all underground utilities. Call "Underground Service Alert" at 1-800-642-2444 or 811 and all applicable utility companies prior to commencing work on this project.
- The contractor shall be financially responsible for the repair of any damage done to existing site features during the course of his work including but not limited to: vegetation, irrigation, sidewalks, curbs, other paving surfaces. Repairs shall be approved by the District.
- 6. The contractor shall perform all clearing and site preparation necessary for the proper execution of all work as indicated in the construction documents.
- 7. All work is to be performed by licensed contractors and experienced workers.
- The contractor is responsible for providing, erecting, and maintaining the required materials, equipment, and labor necessary for public safety and traffic control within the project limits and on the approach to the work.
- 9. All construction areas shall be protected for public safety in accordance with public safety laws codes and governing regulations.
- 10. If any archeological, cultural, or historical resources, artifacts or other features are discovered during the course of construction anywhere on the project site, the contractor shall notify the Park District immediately and work shall be suspended in that location until a qualified professional archeologist assesses the significance of the discovery.
- 11. The contractor is responsible for performing all work indicated in these plans and specifications. Any item indicated in these plans but not itemized in the bid schedule will be included under a bid schedule item to which it most pertains.
- 12. The contractor agrees that in accordance with generally accepted construction practices, contractor shall be required to assume sole and complete responsibility for job site conditions during the course of construction including the safety of all persons and property and that this requirement shall be made to apply continuously and not be limited to normal working hours.
- 13. Contact Cordova Recreation & Park District Inspector at least 48 hours prior to scheduling an inspection: (916) 769-9776.





Rossmoor Park MEADOWS **PROJECT** CORDOVA WOODS and Park District.. WALNUT WOODS Community Park RIVER TRAILS ESTATES HIGHLANDS KP International Market CORDOVA COURT **№** N ▲ CORDOVA PARK NOT TO SCALE

SHEET INDEX

T1 COVER
L1 EXISTING
L2 ACCESSIBILITY
L3 LAYOUT
L4 DETAILS

SIGNATURES

Cust games

CRISTINA JAMES, LANDSCAPE ARCHITECT

OWNER AND DESIGNER ADDRESS AND PHONE: CORDOVA RECREATION & PARK DISTRICT 2729 PROSPECT PARK DRIVE STE. 230 RANCHO CORDOVA, CALIFORNIA 95670 (916) 842-3312

ABREVIATIONS NOTE: C

AC ASPHALT TBW TOP BACK OF WALK TBC TOP BACK OF CURB FL FLOW LINE LIP LIP OF GUTTER SLB STREET LIGHT BOX T FIRE HYDRANT SPOT ELEVATION FOUND 3/4" PIPE WITH PLUG ★ STREET LIGHT WATER VALVE -G- EXISTING GAS MARKS A CONTROL POINT • DIMENSION POINTS -O- JOINT POLE ANCHOR CONCRETE -×- FENCE LINE

EAVE

BOR-BRDR----- BORDER CHNLNK——————————— CHAIN LINK CONC---- CONCRETE CONTOUR-MA -----CONTOUR-MINOR----- MINOR CONTOUR CONTOUR-TEXT----- CONTOUR TEXT ELEC---- ELECTRIC FENCE----- EXISTING FENCE FOUND MONUMENT---- FOUND MONUMENT GAS----- GAS HDCP----- HANDICAP IRRG----- IRRIGATION CONTROL LEGEND---- MAP LEGEND MAP-APN----- ASSESSOR PARCEL NUMBER MAP-LOT LINE---- LOT LINE MAP-PU-EASEMENT----- PUBLIC UTILITY EASEMENT MAP-ROW_LINE----OTES---- MAP NOTES ED---- PEDESTAL CABINET SPOT_ELEV----ST-CNTRLN----- STREET CENTERLINE -LIGHT-----LIP---- STREET LIP OF GUTTER F-NAME----- STREET TEXT ST-SCORE----- SIDEWALK SCORE LINE STORM DRAIN----- EXISTING STORM DRAIN -TBC---- STREET TOP BACK CURB F-TBW----- STREET TOP BACK OF WALK ->----- TOP OF SLOPE WATER---- EXISTING WATER WMTR-----WATER METER XWALK----- CROSSWALK

BUILDING DATA

ZONING DATA

BUILDING AUTHORITY: City of Rancho Cordova OCCUPANCY GROUP: U-ASSEMBLY

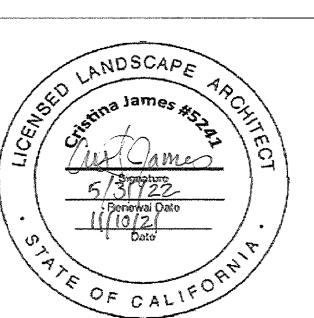
ALL WORK SHALL COMPLY WITH THE FOLLOWING:

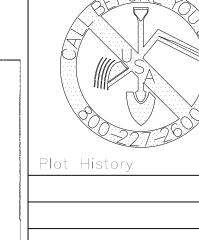
CITY OF RANCHO CORDOVA BUILDING DEPARTMENT
 2019 CALIFORNIA BUILDING CODE

ZONING: <u>PARKS AND OPEN SPACE</u>

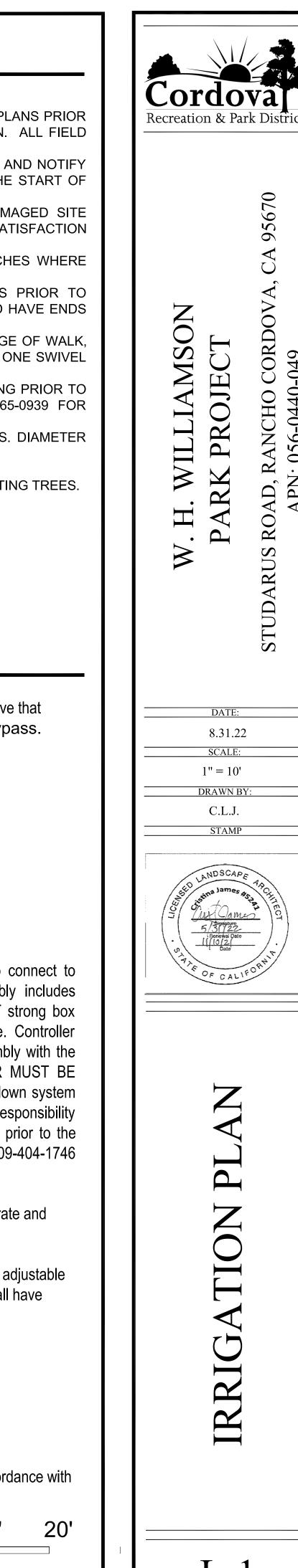
AREA OF SITE: < | ACRE







T-1





- ALL WORK IS TO BE PERFORMED BY A LICENSED CONTRACTOR AND EXPERIENCED WORKERS
- 2. THE CONTRACTOR SHALL NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND PLANS PRIOR TO PROCEEDING WITH WORK. THE WRITTEN DIMENSION SHALL SUPERCEDE THE DRAWN DIMENSION. ALL FIELD ADJUSTMENTS SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION.
- 3. SYSTEM DESIGN IS BASED ON PSI AND GPM AT POINT OF CONNECTION. CONTRACTOR SHALL VERIFY AND NOTIFY CRPD IF SUCH DATA ADVERSELY AFFECTS THE SYSTEM. NOTICE SHALL BE IN WRITING PRIOR TO THE START OF
- 4. CONTRACTOR SHALL VERIFY LOCATION OF ALL ON-SITE UTILITIES with 811. RESTORATION OF DAMAGED SITE UTILITIES OR OTHER EXISTING FEATURES SHALL BE MADE AT THE CONTRACTORS EXPENSE TO THE SATISFACTION
- 5. SYSTEM FEATURES ARE SHOWN SCHEMATICALLY. INSTALL PIPING AND VALVES IN COMMON TRENCHES WHERE FEASIBLE.
- CONTRACTOR SHALL ADEQUATELY SIZE ALL SLEEVES SHOWN ON PLAN AT NECESSARY DEPTHS PRIOR TO PAVEMENT CONSTRUCTION. SLEEVES SHALL EXTEND 1'-0" FROM EDGE OF PAVEMENT INTO LAWN AND HAVE ENDS CLEARLY MARKED ABOVE GRADE.
- 7. QUICK COUPLING VALVES SHALL BE INSTALLED ON TRIPLE SWING JOINT. LOCATE 12" AWAY FROM EDGE OF WALK WALLS, AND CURBS. PROVIDE OWNER WITH ONE OPERATING KEY, TWO SETS OF LOCKING KEYS, AND ONE SWIVEL HOSE ELL.
- CONTRACTOR SHALL COORDINATE WITH RAIN BIRD REP. TO SCHEDULE A PRE-CONSTRUCTION MEETING PRIOR TO INSTALLATION OF IRRIGATION POINT OF CONNECTION EQUIPMENT. CONTACT NOE CRUZ (916) 765-0939 FOR
- CONTRACTOR SHALL PROVIDE SCH 40 IRRIGATION PIPE SLEEVES UNDER ALL PAVEMENT CROSSINGS. DIAMETER SHALL BE 2X IRRIGATION PIPE.
- 10. CONTRACTOR SHALL RUN 5 ADDITIONAL WIRES TO EACH VALVE BOX.
- 11. EXISTING TREES ARE TO BE PROTECTED. CONTRACTOR SHALL NOT TRENCH UNDER CANOPIES OF EXISTING TREES.

IRRIGATION SCHEDULE

MASTER VALVE AND FLOW SENSOR: Buckner-Superior 3100.1" normally open brass master valve that provides dirty water protection. Flow sensor to be Flomec QS200-30 to eliminate the bypass.

GATE VALVE: NIBCO T-113, install in valve box.

or Mike Valentine 925-518-5803

7 gpm

CCEN

BACK FLOW AND ENCLOSURE: Shall be Wilkins with Steel Enclosure and Blanket.

WATER METER: 2" meter to be installed by Golden State Water Company

CONTROLLER: Controller Model# A ICA2-RB3-8/SLR 1-3P/IQ-GPRS/IFS-100B/3200-100 Rainbird 8-station ESP-LXME2P controller with Flow Smart Module, cellular communication to connect to CRPD central control systemfor weather based scheduling and data collection. ITS assembly includes controller, IQ GPRS/Cellular cartridge to be set up with Verizon Service, external antenna, VIT strong box top-entry stainless steel enclosure SBD-18SS with mounting pad and solar panel on 3" pole. Controller assembly with single solar panel mounted on a 4" x 15' galvanized pole. Install controller assembly with the mounting pad and flow sensors per details and manufacturer's specifications. CONTROLLER MUST BE GROUNDED PER DETAILS AND SPECIFICATIONS. Program the controller to alarm and shut down system (close master valve) when maximum flow noted on the POC note for system is exceeded. It is the responsibility of the contractor to contact Imperial Technical Services to schedule a Pre-construction Meeting prior to the controller installation and again for Installation Certification once installed. Contact Andrew Bolt 209-404-1746

Tree Bubbler: Rainbird rws-b-c 1401 20 root watering system, 4" diameter x 36" long with locking grate and check valve with filter fabric sock. 0.25 gpm, 2 per symbol.

REMOTE CONTROL VALVE: Electric control valve, Model # PEB-PRSD, electric control valve with adjustable pressure regulation, with Sch. 80 PVC ball valve by Rainbird or equal. Size per plans. All valves shall have Christy ID tags in valve boxes.

RAINBIRD XFS DRIP: 12" spacing, copper shield technology, .9 gph

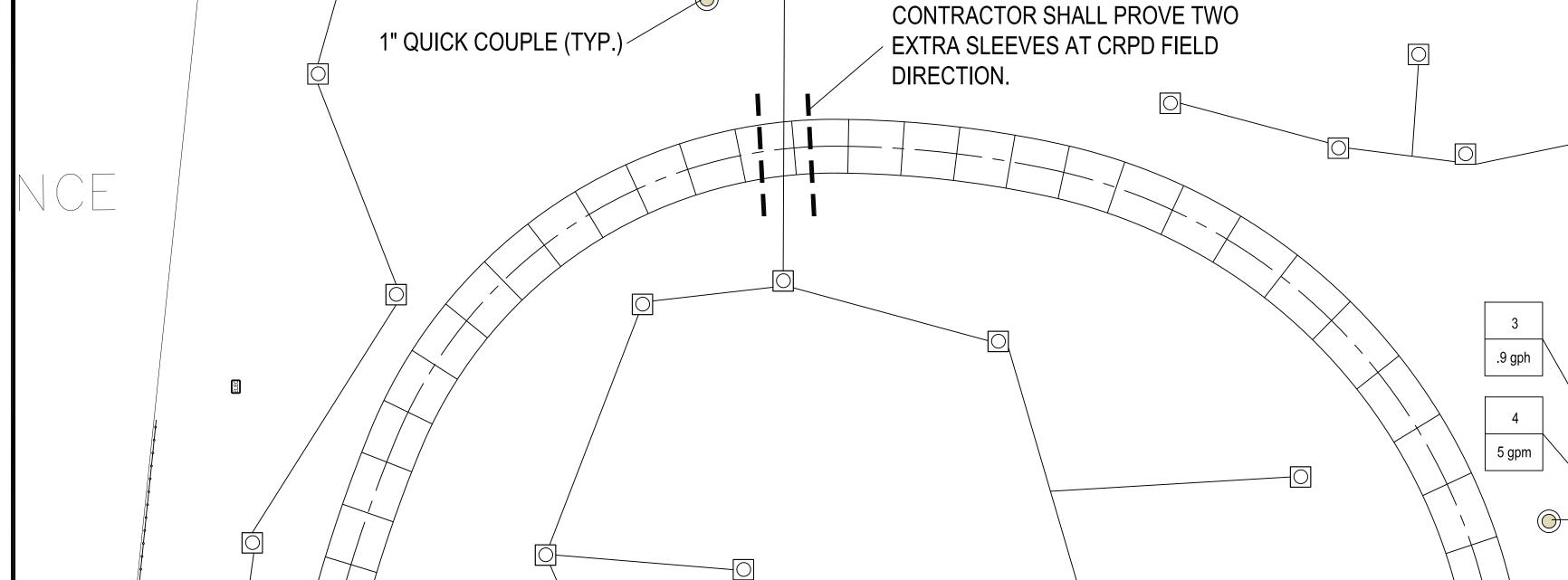
Mainline Pipe. Schedule 40 PVC for pipe through 2", class 315 for pipe sizes 21 2" and greater. Size: 6", except where noted

otherwise on plans. Thrust blocks required for pipe size of 3" and larger. Install all pipe in strict accordance with details and the manufacturer's specifications.

Lateral Line Pipe. Schedule 40, solvent weld PVC. Size Per Plans.

QUICK COUPLE

SCALE: 1"= 10'-0"



IRRIGATION SLEEVES (TYP.)

MONUMENT SJÓN

SHEET 5 OF 5



AIR RELIEF VALVE PER LEGEND - FINISH GRADE - ADAPTER, BARB X AMENDED SOIL IN FEMALE PLANTER AREAS THREADED, OR AS VALVE BOX PER REQUIRED. **SPECIFICATIONS** - BLANK DRIPLINE — HEADER, BLANK DRIPLINE OR PVC STANDARD BRICK, — 6" MIN. DEPTH 3/4" AIR RELIEF VALVE TO BE INSTALLED AT EACH LOCALIZED TYPICAL (MIN. 2) HIGH POINT. VERIFY LOCATIONS IN FIELD AND INSTALL CRUSHED GRAVEL

NON PRESSURE LATERAL

1" IN PLANTER AREAS,

FLUSH IN TURF

ADDITIONAL AIR RELIEF VALVES AS REQUIRED. SUBSURFACE DRIPLINE: AIR/VACUUM RELIEF

A.C. PAVING, MATCH

EXISTING OR 4" MINIMUM,

WHICHEVER IS GREATER.

-3/4" CLASS (2) AGGREGATE

COMPACTION, TOP 6" 95% COMPACTION,

SEE SPECIFICATIONS FOR MATERIAL.

- INITIAL BACK FILL, 90%

BASE, COMPACT TO 95%.

NTERMEDIATE BACK FILL, 90%

PRESSURE MAIN LINE

UNDER UNPAVED AREA | UNDER PAVED AREA

NATIVE BACKFILL MATERIAL —

(COMPACT TO 90%)

PVC SUPPLY MANIFOLD — (LATERAL FROM VALVE) AIR RELIEF VALVE AT — DRIPLINE CONNECTIONS PVC EXHAUST HEADER, — LOCALIZED HIGH POINT TO LATERAL BELOW TYP. AT ENDS GRADE, TYP. ☐ FLUSH VALVE AT LOW ► BLANK DRIPLINE HEADER POINT OF HEADER FOR AIR RELIEF VALVE. IRRIGATED AREA DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING PER IRRIGATION LEGEND OR SCHEDULE.

LENGTH OF LONGEST DRIPLINE LATERAL SHALL NOT EXCEED THE MANUFACTURER'S MAXIMUM RECOMMENDED INSTALL PER MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS

AMENDED SOIL AT

PLANTER AREAS

— BARBED FITTINGS

- SUBSURFACE DRIP LINE

- BLANK DRIPLINE TUBING

— LATERAL LINE AND FITTINGS

— SCH 80 UNION BOTH SIDES OF VALVE/

THREADED TEE X BARB FITTING

- HEADER, DRIP

LINE OR PVC,

NO SCALE

1" ABOVE FINISH GRADE

AS INDICATED.

3 SUBSURFACE DRIP: LATERAL CONNECTION

18" WIRE LOOP -

C. FLUSH VALVE TO BE INSTALLED AT EACH LOCALIZED LOW POINT. VERIFY LOCATIONS IN FIELD AND INSTALI

D. DO NOT ALLOW THE INLET PRESSURE TO EXCEED 50 PSI. INSTALL PRESSURE REDUCERS AT THE CONTROL VALVE IF AIR RELIEF VALVE TO BE INSTALLED AT EACH LOCALIZED HIGH POINT. VERIFY LOCATION IN FIELD AND INSTALL

SUBSURFACE DRIPLINE: CENTER FEED

(PK-15)

NO SCALE

VALVE BOX W/ LOCKING LID PER SPECIFICATIONS

/- FLOW CONTROL DEVICE

- BRASS GATE OR BALL VALVE

FINISH GRADE BEFORE PLANTING

- FLUSH VALVE PERigwedge : LEGEND - FINISH GRADE - ADAPTER, BARB X AMENDED SOIL IN FEMALE THREAD, PLANTER AREAS OR AS REQUIRED. VALVE BOX PER - BLANK DRIPLINE, BLOCK SPECIFICATIONS, LEAVE 18" MIN. 8" ROUND U.N.O. OPENINGS COIL FOR ACCESS.

BUBBLER OR EMITTER PER IRRIGATION

SCREEN WITH INTEGRAL CHECK VALVE IF

PRE-MANUFACTURED RISER, THICK WALL

FLEXIBLE PVC (3/8" MIN. DIAMETER) WITH

CRUSHED GRAVEL TYPICAL (MIN. 2)

PLAN

TEE, OUTLET SIDEWAYS

MARLEX MPT X BARB EL.

SECTION

1/2" MPT ENDS

FINISH GRADE PRIOR TO MULCH

LEGEND

SPECIFIED

5 DRIPLINE: FLUSH VALVE
NO SCALE

A. LOCATE FLUSH VALVE AT END OF EACH DISTRIBUTION

TUBING RUN, WHETHER SHOWN ON PLAN OR NOT.

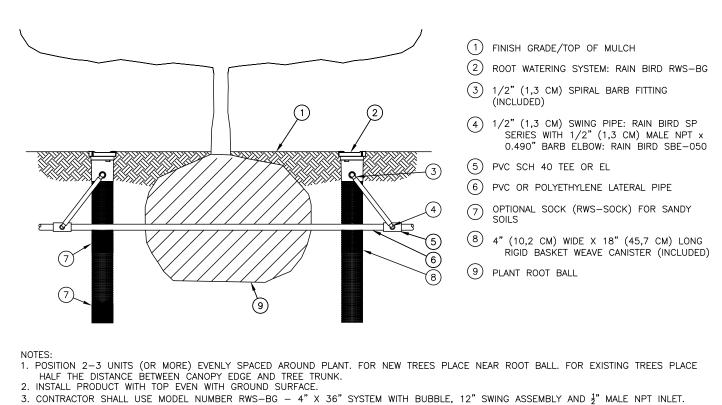
WATER INFILTRATION AND ROOT PENETRATION.

SCALE: NO SCALE

LATERAL LINE

NO SCALE

HARD-PIPED EMITTER/BUBBLER

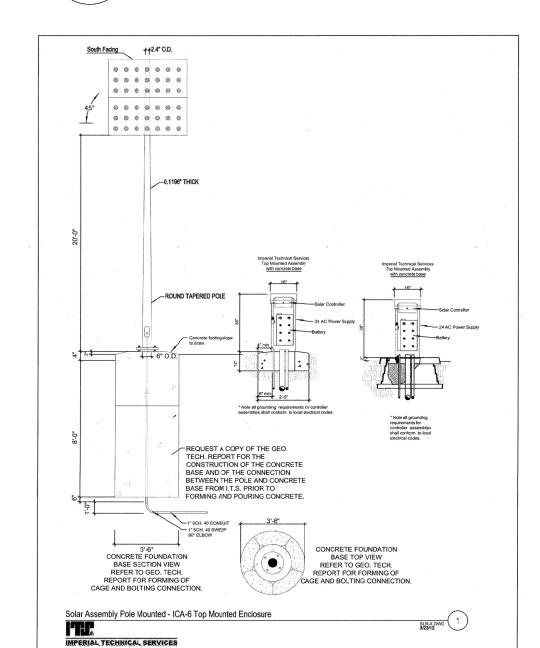


4. WHEN INSTALLING IN EXTREMELY HARD OR CLAY SOILS, ADD 3/4" (1,9 CM) GRAVEL UNDER AND AROUND THE UNIT TO ALLOW FASTER

TREE BUBBLER CORDOVA RECREATION AND PARK DISTRICT

5. ONCE RWS HAS BEEN INSTALLED FILL THE BASKET WITH PEA GRAVEL BEFORE LOCKING LID.
6. OPTIONAL RWS—SOCK FOR USE IN SANDY SOILS.

2" CLEARANCE - GEOTEXTILE FABRIC ENVELOPE AROUND PIPE TYPE CLEARANCE — SCH 80 PVC 90° FITTINGS SHALL BE THREADED - FLOW 6" DEPTH OF 3/8" DIAMETER -WIRES CLEAN PEA GRAVEL BELOW VALVE STANDARD BRICK, TYPICAL FOUR (4) LOCATIONS — PRESSURE MAIN LINE AND FITTING INSTALL VALVES A MINIMUM OF 12" FROM STRUCTURES OR HARDSCAPING. INSTALL VALVES IN PLANT BEDS WHEREVER POSSIBLE. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPING. INSTALL VALVE BOX SO THAT TOP OF BOX IS FLUSH WITH ADJACENT HARDSCAPING. 5. USE TEFLON TAPE ON ALL MALE THREADS. 6. ALL RCV'S SHALL BE TAGGED INDICATING STATION #'S. ALL VALVE BOXES SHALL HAVE STATION #'S PERMANENTLY MARKED ON VALVE BOX LIDS, HEAT BRANDED ONLY. PROVIDE SCHEDULE 80 THREADED UNION ON UPSTREAM AND DOWNSTREAM SIDES. 8. REFER TO SPECIFICATIONS FOR REQUIREMENTS FOR TAPING, EXPANSION COILS, WIRE CONNECTIONS, ETC. REMOTE CONTROL VALVE AT GRADE



NOT TO SCALE

