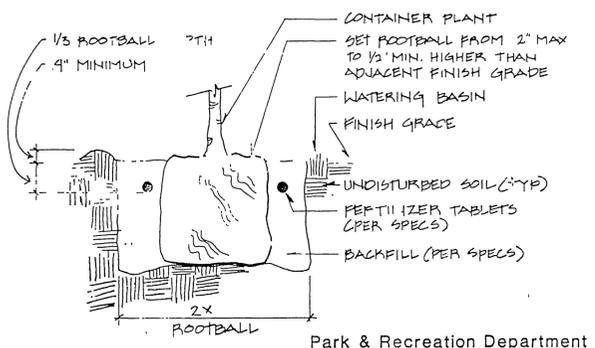


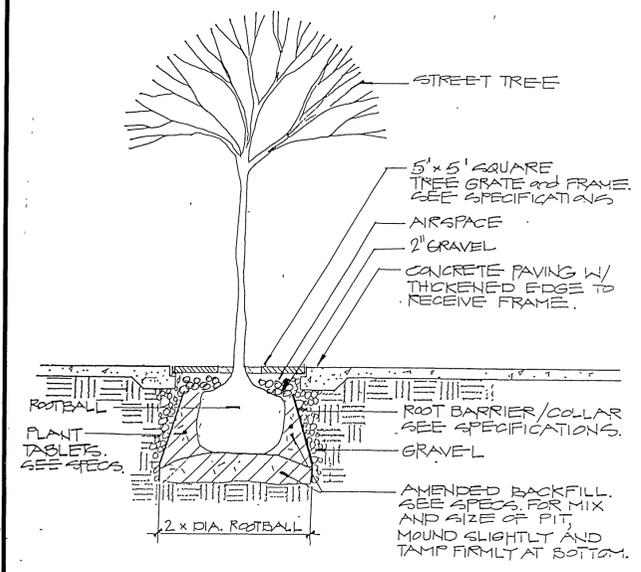
NOTE: REFER TO CITY OF RIVERSIDE SPECIFICATIONS PARKS AND RECREATION DEPARTMENT DETAILS AND CITY STANDARDS.

- CENTRAL PLANTING NOTES**
- 1) Contact the Park & Recreation Inspector at 787-7223 48 hours prior to installing any plant material.
 - 2) Trees planted in turf areas shall be maintained with a minimum 12" depth around tree free from turf throughout the maintenance period.
 - 3) Watering basins may be removed after the maintenance period.
 - 4) For staking information as applicable, refer to standard staking detail.
 - 5) For guying information as applicable, refer to standard guying detail.
 - 6) For specification information, refer to City of Riverside Park and Recreation Department Standard Specifications sections 0260/0261.
 - 7) Provide Fertilizer Tablets as follows:

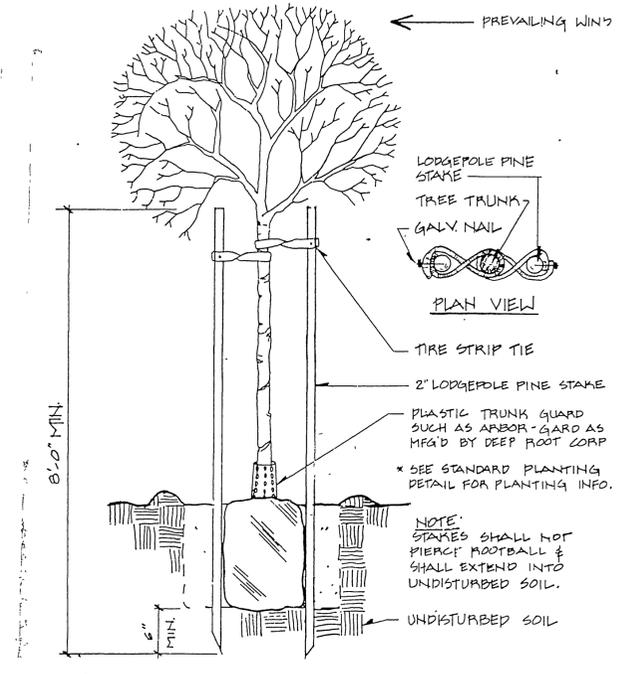
| | |
|--------------|-----------|
| gallon plant | 2 tablets |
| gallon plant | 3 tablets |
| gallon plant | 5 tablets |
| box plant | 8 tablets |



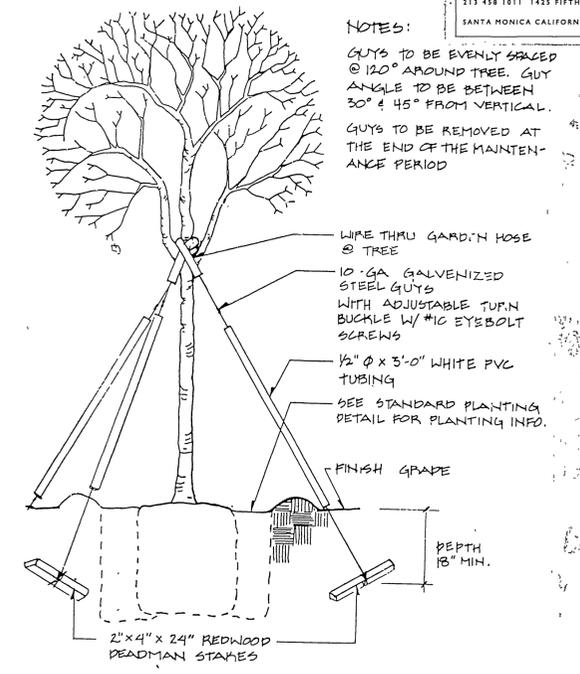
7 PLANTING DETAIL NTS.



6 ROOT BARRIER / COLLAR NTS.



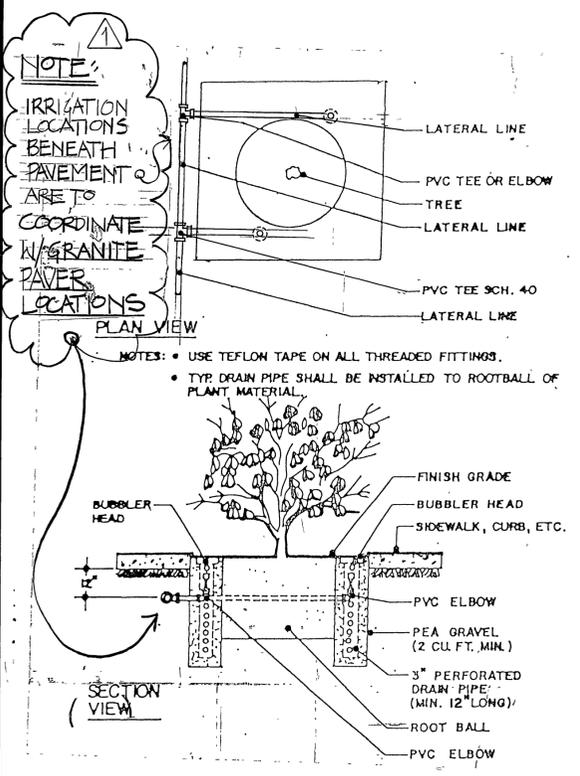
4 TREE STAKING NTS.



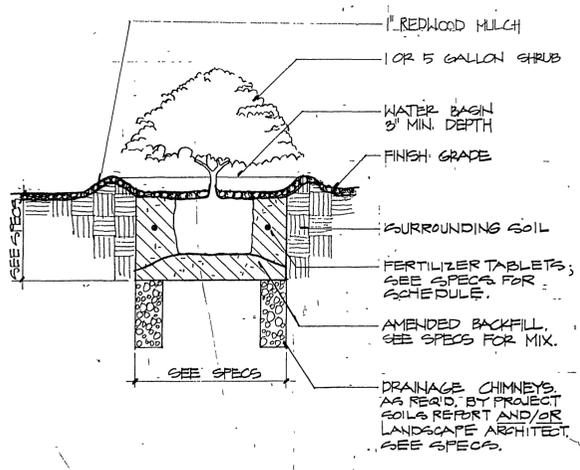
2 TREE GUYING NTS.



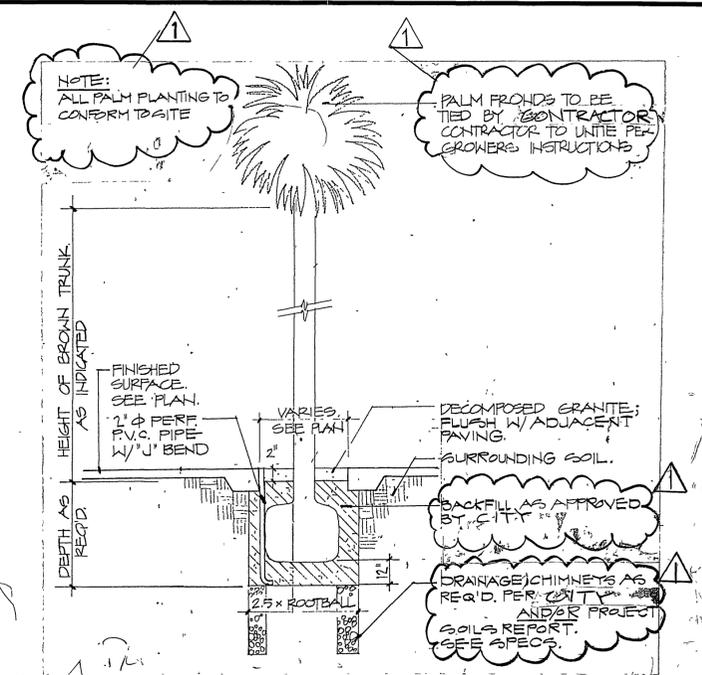
| | |
|---|--|
| APPROVED BY: <i>Wm. Whelan</i> DATE: 10/14/88 | City of Riverside, Public Utilities ELECTRIC |
| APPROVED BY: <i>John Smith</i> DATE: 10/13/88 | Southern California Gas Company |
| REVIEWED BY: <i>C. H. Rankin</i> DATE: 10-13-88 | |



5 TREE BUBBLER ASSEMBLY - TYP. NTS.



3 SHRUB PLANTING NTS.



1 PALM TREE PLANTING NTS. (TO THE SPECIFICATIONS OF THE PARK AND RECREATION DEPARTMENT)

KRIEGER & STEWART
INCORPORATED
ENGINEERING CONSULTANTS
3602 University Avenue Suite 201 Riverside, California 91501
Approved By: *[Signature]* Registered Civil Engineer No. 27226 Date: 10/12/88



| | | | | |
|--|--|---|--|---|
| <p>CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT</p> <p>APPROVED BY: <i>[Signature]</i> DATE: 11-1-88 PRINCIPAL ENGINEER PARK DEPARTMENT TRAFFIC DIVISION CHIEF P.E. ENGINEER</p> | | <p>MAIN STREET IMPROVEMENT PROJECT Fifth Street to Sixth Street R-28-823 PM 21422 C-20-823</p> | | <p>ACCOUNT NO. R-3015L</p> |
| <p>DESIGNED BY D.A.C. DRAWN BY D.A.C. CHECKED BY S.D.H.</p> | | <p>APPROVED BY: <i>[Signature]</i> DATE: 11/3/88 PUBLIC WORKS DIRECTOR</p> | | <p>SHEET 1 OF 3 209-8</p> |

GENERAL LEGEND

| SYMBOLS | DESCRIPTIONS | MANUFACTURER & PART NO. | REFERENCE |
|---------|---------------------------------------|-------------------------|---------------|
| | POINT OF CONNECTION | | SPECIFICATION |
| | PRESSURE SUPPLY LINES & SIZE 2" & SML | SCHEDULE 40 P.V.C. | SPECIFICATION |
| | NON-PRESSURE LINES & SIZE | SCH. 40 PVC | SPECIFICATION |
| | SLEEVES FOR WIRES & PIPING | SCH. 40 PVC | SPECIFICATION |
| | CONTROLLER SEQUENCE | | DETAIL NO. 7 |
| | GALLONS PER MINUTE | | |
| | REMOTE CONTROL VALVE SIZE | | |
| | AUTOMATIC CONTROLLER | RAIN BIRD RC-7A | DETAIL NO. 1 |
| | REMOTE CONTROL VALVES | RAIN BIRD EFA-CP SERIES | DETAIL NO. 2 |
| | QUICK COUPLING VALVES | RAINBIRD 33 DLRC | DETAIL NO. 3 |
| | BACKFLOW PREVENTION ASSEMBLY | FEBCO 825Y | DETAIL NO. 4 |
| | WATER METER | EXISTING (1" METER) | SPECIFICATION |
| | ELECTRICAL CONDUIT | | DETAIL NO. 7 |
| | ELECTRICAL PULL BOX | EXISTING | |

SPRINKLER HEAD LEGEND

| SYMBOL | ARC | RAD | TRJ | DESCRIPTION | PSI | GPM | MFG. | BODY | NOZ. | REFERENCE |
|--------|------|-----|-----|---------------------|-----|------|----------|-------|------|--------------|
| | 90° | 0' | 0 | FLOOD BUBBLER P/C | 30 | .50 | RAINBIRD | PA-8S | 140Z | DETAIL NO. 6 |
| | 90° | 5' | 0 | STREAM BUBBLER HEAD | 30 | 0.50 | RAINBIRD | 1802 | 5Q-B | DETAIL NO. 5 |
| | 180° | 5' | 0 | STREAM BUBBLER HEAD | 30 | 1.00 | RAINBIRD | 1802 | 5H-B | DETAIL NO. 5 |
| | 360° | 5' | 0 | STREAM BUBBLER HEAD | 30 | 1.50 | RAINBIRD | 1802 | 5F-B | DETAIL NO. 5 |

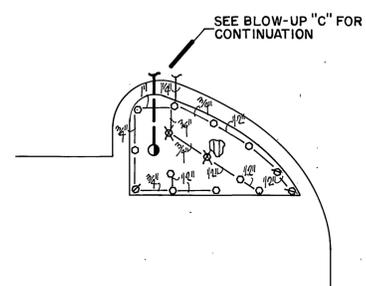
NOTES
 REFER TO CITY OF RIVERSIDE SPECIFICATIONS
 PARKS AND RECREATION DEPARTMENT DETAILS
 AND CITY STANDARDS. INCLUDE CITY PARKS
 AND RECREATION IRRIGATION - 02441
 STREET TREE PLANTING - 02460-1
 AND PALM TREE RELOCATION - 02481

GENERAL NOTES FOR PLAN CHECK

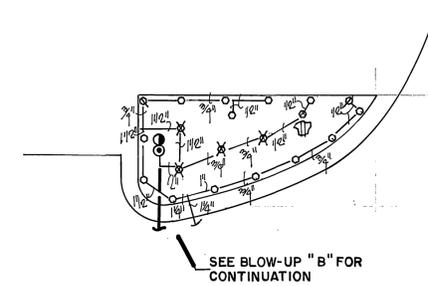
- All related work shall conform to the City of Riverside Park and Recreation Department Standards.
- Contact the Park Projects Inspector a minimum of 48 hours in advance at (714) 782-5223 to schedule inspection. Inspections shall be required:
 - Prior to the installation of irrigation lines or components.
 - Prior to installation of hardscape.
 - When plant locations have been spotted in the field prior to digging plant pits.
 - While digging plant pits and planting/relocating trees.
 - After planting and all other indicated or specified work has been completed for start of maintenance.
 - At end of maintenance/final acceptance (contractor/developer will be released from maintenance only upon receipt of written notification from the City that the Park and Recreation Department is assuming maintenance responsibilities).
- The Contractor/Developer shall maintain all plantings for a minimum period of one (1) year.

NOTE:

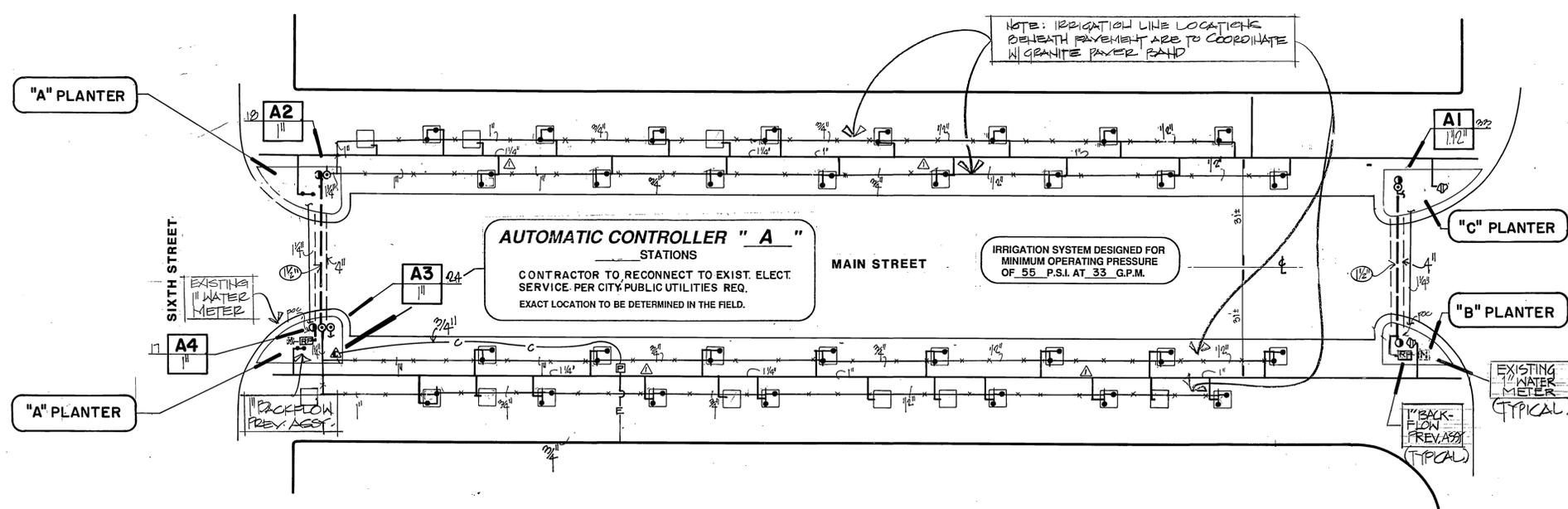
- * ALL WIRES UNDER CONCRETE SHALL BE SLEEVED PER CITY OF RIVERSIDE - PARK AND RECREATION DEPARTMENT STANDARDS.
- * ALL PIPING UNDER CONCRETE SHALL BE SEPARATELY SLEEVED PER CITY OF RIVERSIDE - PARK AND RECREATION DEPARTMENT STANDARDS.



B TYP. PLANTER & HEAD LAYOUT ASSEMBLY BLOW-UP
 SCALE: 1" = 10'-0"



C TYP. PLANTER & HEAD LAYOUT ASSEMBLY BLOW-UP
 SCALE: 1" = 10'-0"



A TYP. PLANTER & HEAD LAYOUT ASSEMBLY BLOW-UP
 SCALE: 1" = 10'-0"



| | | |
|--|----------------------------------|----------------|
| Southern California Gas Company | REVIEWED BY: <i>E.H. Pucka</i> | DATE: 10-13-88 |
| Pacific Telephone Co. | APPROVED BY: <i>Jim Pucka</i> | DATE: 10-13-88 |
| City of Riverside, Public Utilities ELECTRIC | APPROVED BY: <i>Wm W. Litten</i> | DATE: 10/14/88 |

KRIEGER & STEWART
 INCORPORATED
 ENGINEERING CONSULTANTS
 3602 University Avenue Suite #01 Riverside, California 91501
 Approved By: _____ Date: _____
 Registered Civil Engineer No. _____

AIC
 ASSOCIATED IRRIGATION CONSULTANTS
 2014 SEPULVEDA BLVD. LOS ANGELES CALIFORNIA 90024
 (213) 477-6625

| MARK | REVISIONS | APPR. DATE |
|------|---|------------|
| Δ | "AS-BUILT" IRRIGATION MAIN & LAT. LOCATIONS | 2-8-89 |

DESIGNED BY: D.A.C. DRAWN BY: D.A.C. CHECKED BY: S.D.H.

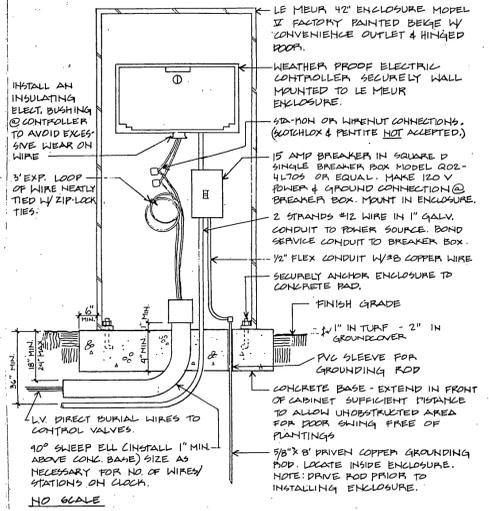
CITY OF RIVERSIDE
 PUBLIC WORKS DEPARTMENT
 APPROVED BY: *Barry Bull*
 PUBLIC WORKS DIRECTOR
 DATE: 11/3/88

MAIN STREET
 IMPROVEMENT PROJECT
 Fifth Street to Sixth Street
IRRIGATION SYSTEM
 R-28-823 PM 21422 C-20-823
 HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 1'

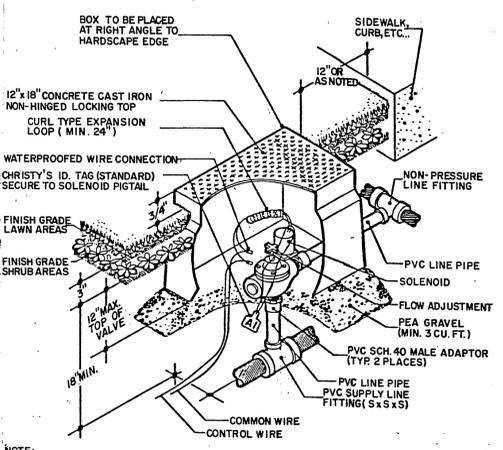
ACCOUNT NO.
R-3015L
 SHEET **2** OF **3**
 209-8

SPECIFICATIONS

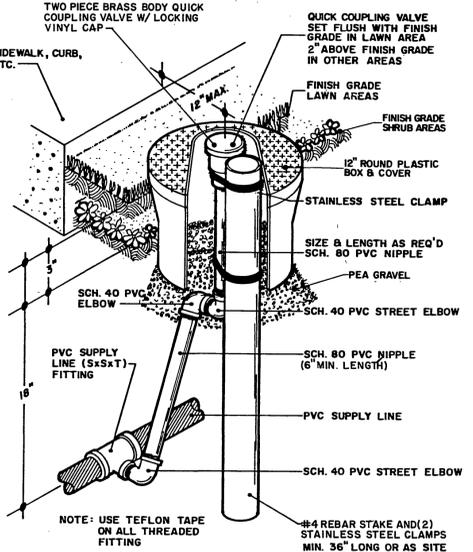
- ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO LOCAL BUILDING AND PLUMBING CODES HAVING JURISDICTION.
- APPLY AND PAY FOR ALL PERMITS REQUIRED FOR THIS PORTION OF THE WORK.
- PROTECT THIS WORK AND THE OWNER'S PROPERTY FROM DAMAGE AS A RESULT OF THIS WORK.
- PRIOR TO SUBMITTING BID, EXAMINE THE SITE AND THE CONDITIONS THEREOF.
- THE WORK TO BE PERFORMED UNDER THIS CONTRACT SHALL INCLUDE FURNISHING ALL LABOR, MATERIALS, TOOLS, MACHINERY, AND EQUIPMENT NECESSARY TO INSTALL A COMPLETE SPRINKLER SYSTEM AS SHOWN ON THE IRRIGATION PLANS, INCLUDING TRENCHING, BACKFILLING, ETC.
- PRIOR TO COMMENCING WORK ON THE PROJECT, ARRANGE AN ON SITE CONFERENCE WITH THE CITY, OR A DULY APPOINTED REPRESENTATIVE.
- THE INSTALLATION AND OPERATION OF THE SYSTEM MUST BE APPROVED BY THE CITY.
- IF IT IS FOUND DURING INSTALLATION THAT THE SITE VARIES FROM THE DRAWINGS, NOTIFY THE CITY BEFORE PROCEEDING WITH THE WORK.
- COORDINATE THE INSTALLATION OF ALL SPRINKLER MATERIALS, INCLUDING PIPE, WITH THE LANDSCAPE DRAWINGS TO AVOID INTERFERING WITH THE PLANTING OF TREES, SHRUBS, OR OTHER PLANTING.
- IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO INDICATE A COMPLETE SPRINKLER SYSTEM INSTALLED AND READY FOR USE WITHOUT FURTHER COST TO THE OWNER.
- RECORD ACCURATELY ON ONE SET OF REPRODUCIBLE PRINTS OF THE DRAWINGS, AN AS-BUILT PLAN KEPT UP TO DATE AS THE PROJECT IS UNDER CONSTRUCTION. IN ADDITION, DIMENSION FROM TWO PERMANENT POINTS OF REFERENCE THE LOCATION OF THE PRESSURE SUPPLY LINE ROUTING, ALL VALVES, PLUG TEES, AND CONTROL WIRE.
- THE SPRINKLER SYSTEM SHALL BE UNCONDITIONALLY GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. MANUFACTURER WARRANTIES SHALL NOT REPLACE THIS GUARANTEE AND THE CONTRACTOR SHALL BE LIABLE FOR REPAIRS AND REPLACEMENT OF FAILED MATERIAL.
- UPON COMPLETION ON THE WORK, REMOVE ALL EXCESS MATERIAL, EQUIPMENT AND WASTE TO THE SATISFACTION OF THE CITY.
- THE SPRINKLER INSTALLATION SHALL BE DEEMED INCOMPLETE UNTIL ALL SPRINKLER HEADS, VALVES AND ALL RELATED IRRIGATION EQUIPMENT HAVE BEEN CHECKED AND ADJUSTED TO BEST CONFORM TO THE CONDITIONS AND REQUIREMENTS THAT WILL PREVAIL AT THE FINISH SITE, AND APPROVED AS-BUILT DRAWINGS HAVE BEEN SUBMITTED. THIS INCLUDES CHANGE OF NOZZLES IF REQUIRED FOR PROPER COVERAGE.
- ALL SPRINKLER HEADS AND PIPING SHALL BE INSTALLED PER THEIR DETAILS, IN THEIR RESPECTIVE LOCATIONS, AND SHALL BE OF THE MANUFACTURER NOTED UNLESS OTHERWISE APPROVED.
- ALL MATERIAL REQUIRED FOR THE PROJECT SHALL BE AS INDICATED IN THE LEGEND AND INSTALLED ACCORDING TO SAME OR AS RECOMMENDED BY MANUFACTURER.
- ELECTRICAL SERVICE REQUIRED FOR CONTROLLER IS EXISTING.
- CONNECTION BETWEEN CONTROLLER AND REMOTE CONTROL VALVES SHALL BE MADE WITH DIRECT BURIAL AWG-UF 600 VOLT WIRE. WIRE SIZING NO. 14, SPLICES WHERE PERMITTED SHALL BE WATER PROOFED.
- PLASTIC FITTINGS SHALL BE OF SCHEDULE 40 POLYVINYL CHLORIDE INJECTION MOLDED AND SIDE GATED. WHERE THREADS ARE REQUIRED, THESE SHALL BE INJECTION MOLDED ALSO.
- TRENCHES SHALL BE EXCAVATED TO SUFFICIENT DEPTH TO PROVIDE COVERAGE OF 18" OVER ALL PRESSURE SUPPLY LINES AND 12" OVER ALL NON-PRESSURE LINES UNLESS OTHERWISE NOTED ON DRAWING WHEN PIPING OCCURS UNDER PAVED AREAS. CONSIDER DIMENSION TO BE BELOW SUBGRADE.
- BACKFILL FOR TRENCHING SHALL BE COMPACTED TO A DRY DENSITY EQUAL TO THE ADJACENT UNDISTURBED SOIL, AND SHALL CONFORM TO ADJACENT GRADES WITHOUT DIPS, SUNKEN AREAS, HUMPS, OR OTHER IRREGULARITIES.
- INITIAL BACKFILL ON PLASTIC LINES SHALL BE OF A FINE GRANULAR MATERIAL, WITH NO FOREIGN MATTER LARGER THAN 1/2" IN SIZE.
- SUPPLY AS PART OF THIS CONTRACT THE FOLLOWING TOOLS:
 - TWO KEYS FOR EACH CONTROLLER.
 - ONE CONTROLLER CHART FOR EACH CONTROLLER SUPPLIED. THIS CHART SHALL BE A REDUCED DRAWING OF THE ACTUAL AS-BUILT SYSTEM, WITH EACH STATION INDICATED IN A DIFFERENT COLOR. CHART SHALL BE HERMETICALLY SEALED BETWEEN TWO PIECES OF PLASTIC, 20 MILS. EACH.



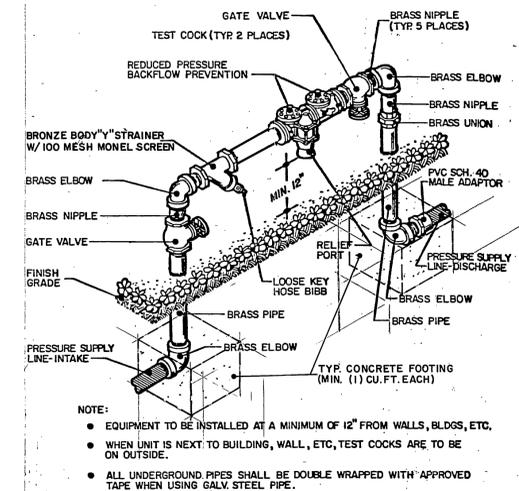
1 TYPICAL AUTOMATIC CONTROLLER ASSEMBLY
NO SCALE



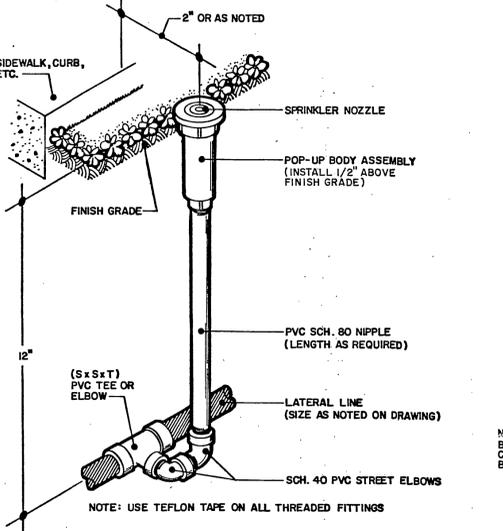
2 TYPICAL REMOTE CONTROL VALVE ASSEMBLY
NO SCALE



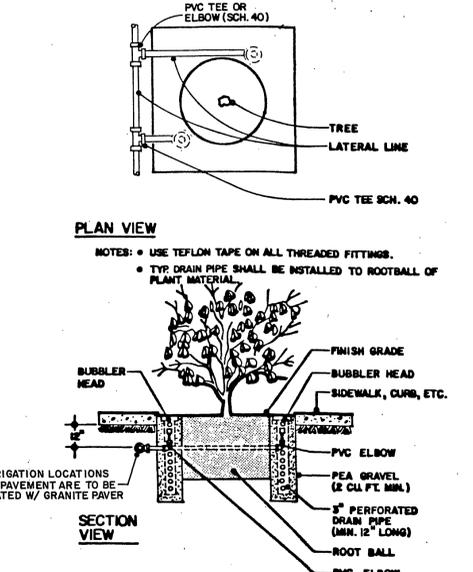
3 TYPICAL QUICK COUPLING VALVE ASSEMBLY
NO SCALE



4 TYPICAL BACKFLOW PREVENTER ASSEMBLY
NO SCALE (2 1/2" AND SMALLER)

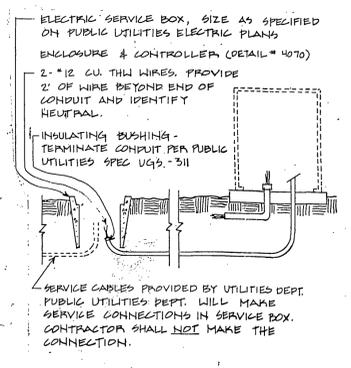


5 TYPICAL SHRUB HEAD ASSEMBLY
NO SCALE (FLUSH TYPE)



6 TYPICAL TREE BUBBLER ASSEMBLY
NO SCALE

NOTE:
REFER TO CITY OF RIVERSIDE SPECIFICATIONS PARKS AND RECREATION DEPARTMENT DETAILS AND CITY STANDARDS. INCLUDE CITY PARKS & RECREATION IRRIGATION - 02441 STREET TREE PLANTING - 02400-1 AND PALM TREE RELOCATION - 02421



7 TYPICAL UTILITY BOX ASSEMBLY
NO SCALE



KRIEGER & STEWART
INCORPORATED
ENGINEERING CONSULTANTS
3902 University Avenue Suite 201 Riverside, California 91501
Approved By: _____ Date: _____
Registered Civil Engineer No. _____

AIC
ASSOCIATED IRRIGATION CONSULTANTS
2014 SEPULVEDA BLVD. LOS ANGELES CALIFORNIA 90026 (213) 477-8525

| | | |
|---|---|---|
| City of Riverside, Public Utilities ELECTRIC APPROVED BY: <i>Wm W. Lutton</i> DATE: 10/14/88 | Southern California Gas Company REVIEWED BY: <i>E.P. Pender</i> DATE: 10/13/88 | Pacific Telephone Co. APPROVED BY: <i>John D. ...</i> DATE: 10/13/88 |
| CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT | | |
| APPROVED BY: <i>Barry ...</i> DATE: 11/13/88 | DATE: 11/13/88 | DATE: 11/13/88 |
| MAIN STREET IMPROVEMENT PROJECT Fifth Street to Sixth Street | | |
| IRRIGATION SYSTEM | | |
| DESIGNED BY D.A.C. DRAWN BY D.A.C. CHECKED BY S.D.H. | DATE: 11/13/88 | ACCOUNT NO. R-3015L SHEET 3 OF 3 |