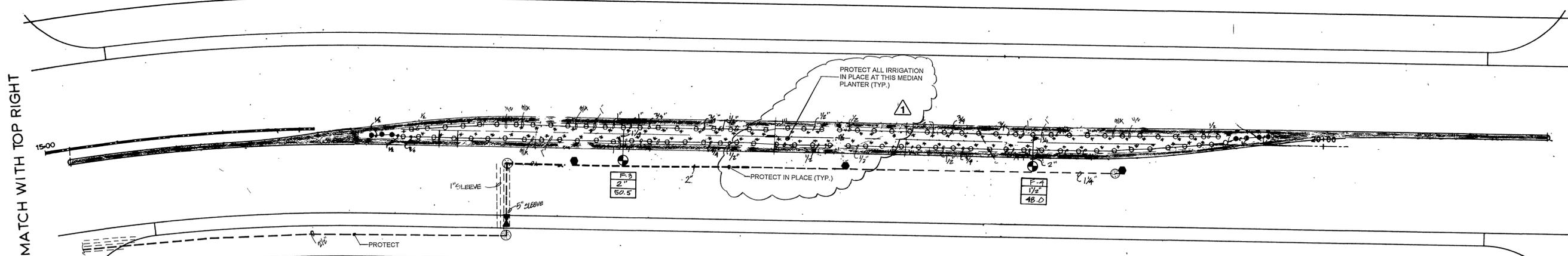
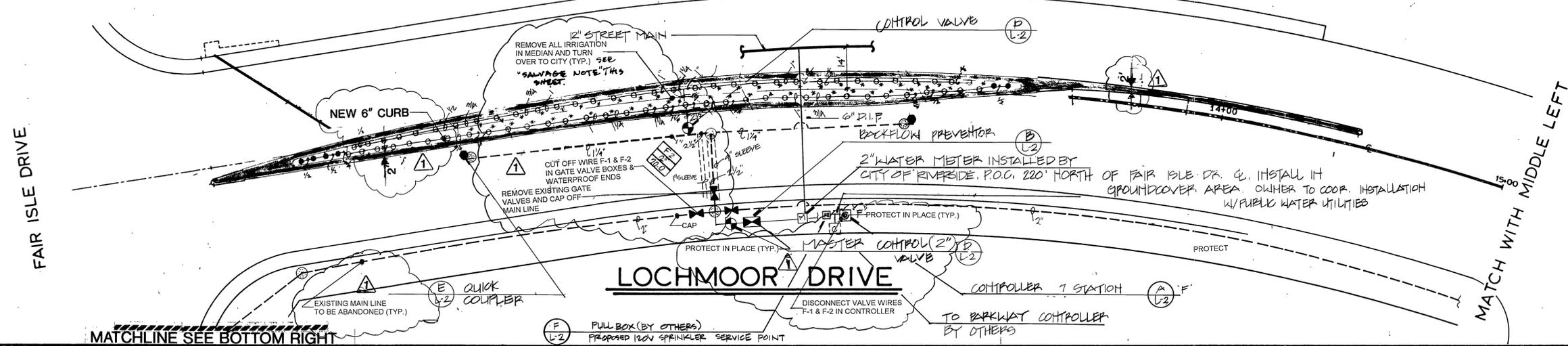


SHEET INDEX	
DESCRIPTION	SHT. #
IRRIGATION PLAN	L-1
IRRIGATION DETAILS	L-2
SPECIFICATIONS	L-3
PLANTING PLAN	L-4
PLANTING DETAILS	L-5
PLANTING NOTES	L-6
SPECIFICATIONS	L-7



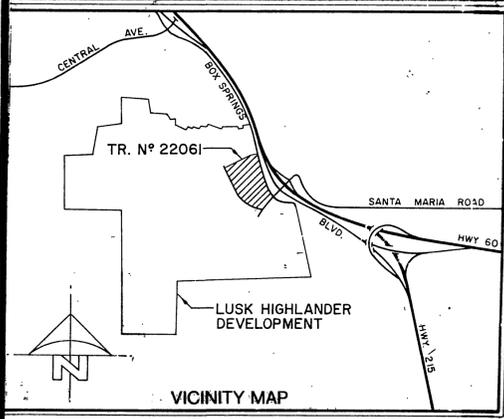
SALVAGE NOTE:

- Contractor shall salvage all irrigation heads and valves only. Contact Al Cianci, Park Supervisor, at 909/715-3455 to coordinate turn-over of salvaged items.
- Contractor shall notify the above Park Supervisor prior to initiating any demolition or irrigation removal work, and advise of work schedule.

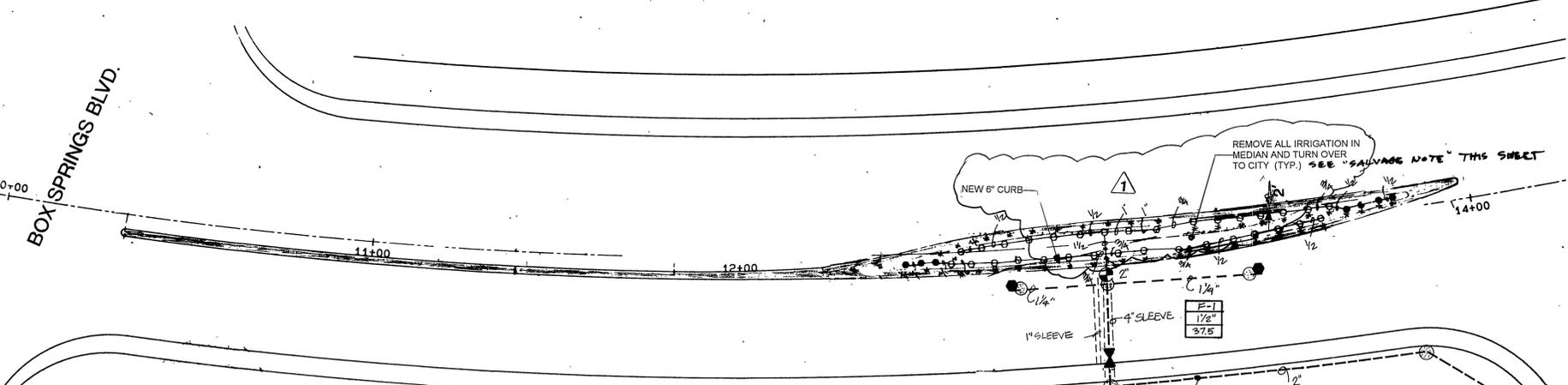
NOTE:
ALL MEDIAN LANDSCAPE SHALL CONTAIN 40% HARDSCAPE AND DRAINAGE SYSTEM SHOWN. REFER TO STREET IMPROVEMENT PLANS R-2941 FOR DRAINAGE SYSTEM.

CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS			
APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER			DIRECTOR OF PUBLIC WORKS
PARK DEPARTMENT			
TRAFFIC DIVISION			
CHIEF P.W. ENGR			DATE

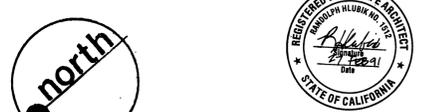
FOR CONSTRUCTION
2/28/91



BENCH MARK
3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHEAST OF MILEPOST 6, SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK CUT 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACT. BRASS DISK STAMPED D1144 1961 ELEVATION 1451.887 (BRASS DISK IS BROKEN OFF F.D. ORIGINAL SHANK OF B.D WITH P.K. NAIL DRIVEN ALONG SIDE SHANK)



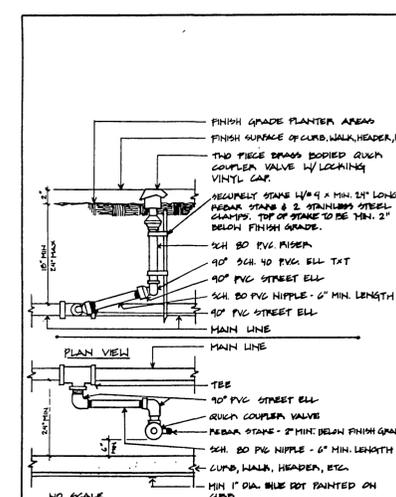
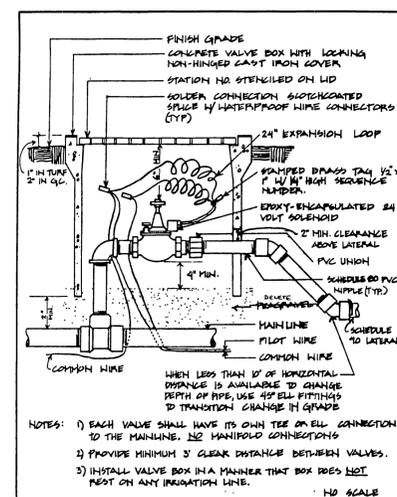
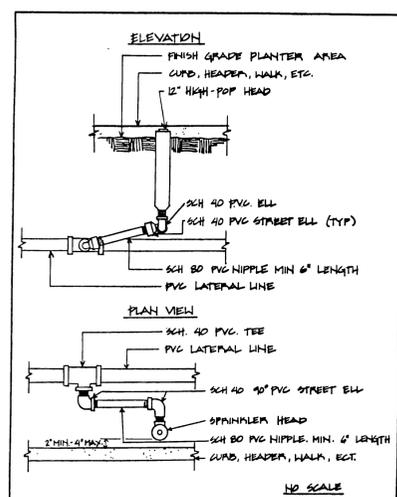
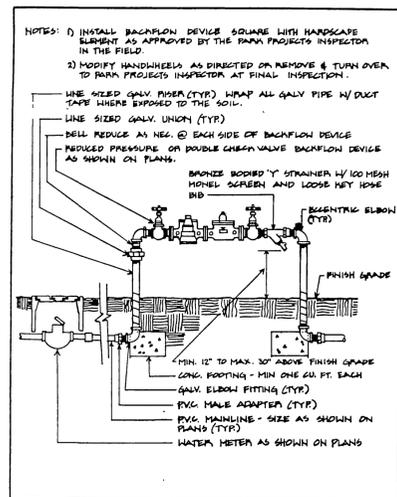
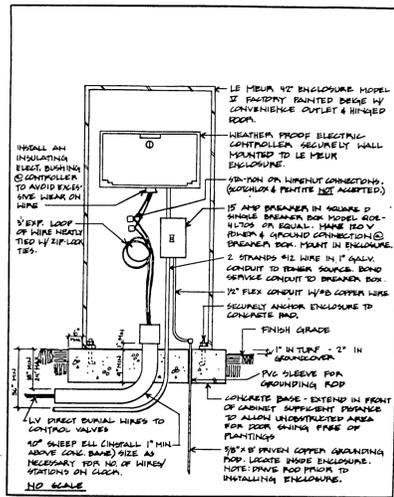
NOTE:
DRAIN LINE LOCATED IN PLANTING AREA. REROUTE IRRIGATION LINES AS REQUIRED BELOW DRAIN LINE. IF CONFLICT OCCURS, DO NOT DISTURB DRAIN LINE. DRAINLINE INLETS TO BE INSTALLED BY OTHERS DURING STREET IMPROVEMENT CONSTRUCTION. IRRIGATION SLEEVES SHALL BE INSTALLED BY LANDSCAPE CONTRACTOR PRIOR TO STREET IMPROVEMENT



27 OF 33

Randolph Hlubik Associates, Inc.
Landscape Architecture • Planning
Old City Hall • Third Floor
3632 Seventh Street • Riverside, California 92501
License #1512 (714) 781-1930

PUBLIC UTILITIES ELECTRIC APPROVED: [Signature] DATE: [Date] APPROVED BY: [Signature] DATE: [Date]	PACIFIC BELL TELEPHONE APPROVED BY: [Signature] DATE: [Date]	SOUTHERN CALIFORNIA GAS CO. APPROVED BY: [Signature] DATE: [Date]	APPROVED BY: [Signature] DATE: [Date]	APPROVED BY: [Signature] DATE: [Date]	NBS/LOWRY ENGINEERS & PLANNERS P.O. BOX 851 HEMET, CA 92343 (714) 658-7116 SCALE: 1" = 20' DATE: MAR 1987 BENCH MARK: SEE LOWER LEFT	MEDIAN REVISIONS BY CWDG: [Signature] 2/28/91	CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT APPROVED BY: [Signature] DATE: 3/7/91 PRINCIPAL ENGINEER: [Signature] DATE: 2/28/91 PARK DEPARTMENT: [Signature] DATE: 2/28/91 TRAFFIC DIVISION: [Signature] DATE: 2/28/91 CHIEF P.W. ENGINEER: [Signature] DATE: 2/28/91 PLANNING: [Signature] DATE: 2/28/91	LUSK HIGHLANDER MEDIAN DETAILS FOR LOCHMOOR DRIVE AND FAIR ISLE DRIVE HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 20' H-80011061	ACCOUNT NO. 002705 R-2941-L L-1 SHEET 1 OF 7
--	---	--	---------------------------------------	---------------------------------------	--	---	---	---	--



A WALL MT. CONTROLLER

B BACKFLOW PREVENTER

C SHRUB HI - POP

D CONTROL VALVE

E QUICK COUPLER

GENERAL NOTES FOR MEDIAN LANDSCAPING

- All related work shall conform to the City of Riverside Park and Recreation Department Standards and City of Riverside policies.
- When calling for inspections, contact the Park Projects Inspector a minimum of 48 hours in advance at (714) 782-5223 to schedule an inspection. A Field Notice will be issued as written approval for each stage of inspection. A verbal approval will not be acceptable. Inspections are required at the following times during the course of the project:
 - Prior to commencement of any work, for the purpose of a pre-construction meeting;
 - Prior to the installation of irrigation lines or components;
 - Prior to pouring concrete for inspection of hardscape formwork;
 - During hydrostatic pressure test of irrigation mainline prior to backfill of main line trenches;
 - Inspection of lateral lines and heads prior to backfill of trenches;
 - Upon completion of fine grading, but prior to commencement of soil preparation, for acceptance of fine grading work;
 - Inspection of completed finish grading work after soil amendment work;
 - Upon completion of the irrigation system for a coverage test and demonstration of the system as fully operational;
 - When plant locations have been spotted in the field but prior to digging plant pits;
 - While digging plant pits and planting/relocating trees;
 - During application of pre-emergent chemical. Pre-emergent chemical treatment shall be applied at the following times during the contract:
 - before planting,
 - at the beginning of plant establishment period,
 - periodically as necessary during the plant establishment period, and
 - at end of plant establishment period.
- After planting and all other indicated or specified work has been completed, for start of maintenance;
 - At formal quarterly inspections;
 - After completion of the maintenance period.
- Upon receipt of written acknowledgment of the City's final acceptance, the developer will be released from maintenance. (Until receipt of written notification from the City that the Park and Recreation Department is assuming maintenance responsibilities, the developer shall remain responsible for the project.)
- The Developer shall be responsible to have all plantings acceptably maintained for a minimum period of one (1) year/two (2) years).

NOTE: ALL WIRES UNDER PAVEMENT SHALL BE INSTALLED IN A SEPARATE SLEEVE FROM PIPING PER CITY OF RIVERSIDE - PARK AND RECREATION DEPARTMENT STANDARDS.

 - ALL PIPING UNDER PAVEMENT SHALL BE INDIVIDUALLY SLEEVED PER CITY OF RIVERSIDE - PARK AND RECREATION DEPARTMENT STANDARDS.
 - IRRIGATION SYSTEMS SHALL BE SPLIT AND VALVED IN A MANNER TO AVOID NON-PRESSURIZED LATERAL LINES UNDER STREETS. ONLY PRESSURE LINES ARE PERMITTED UNDER STREETS.
 - ANGLED FITTINGS ARE NOT ALLOWED IN PIPE OR WIRE SLEEVING.

MEDIAN LANDSCAPE
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.

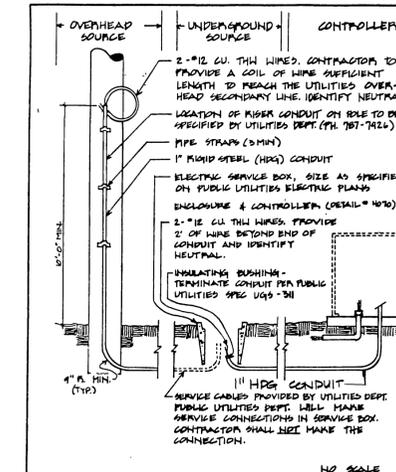
* ALL PIPING UNDER CONCRETE SHALL BE SEPARATELY SLEEVED PER CITY OF RIVERSIDE - PARK AND RECREATION DEPARTMENT STANDARDS.

(1) * LOCATE IN R.O.W. LOCATION TO BE APPROVED IN FIELD BY THE PARK PROJECTS INSPECTOR PRIOR TO INSTALLATION

(2) * INSTALL VALCON ADV ON BASE OF RISER TO PREVENT LOW HEAD DRAINAGE

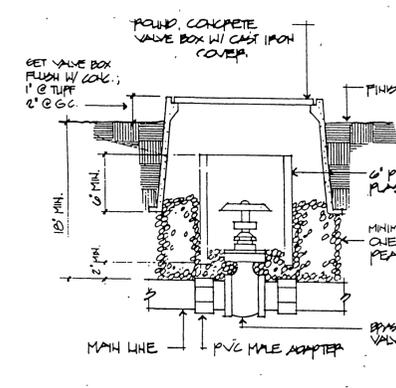
VALVE# F-4
PRESSURE CALCULATIONS

AVAILABLE STATIC PRESSURE	PSI	
SIZE	ITEM	P.S.LOSS
1 1/2"	PRESSURE REGULATOR	-
1 1/2"	R.P. BACKFLOW	12.5
2"	MAIN LINE LOSS	7.3
1 1/2"	REMOTE CONTROL VALVE	2.5
1 1/2"	LATERAL LINE	1.81
	FITTINGS LOSS (15%)	3.72
	ELEVATION CHANGE	-
	TOTAL SYSTEM LOSSES	28.82
	PRESSURE REQUIRED AT HEAD:	30
	TOTAL PRESSURE REQUIRED:	58.82
	STATIC PRESSURE AVAILABLE:	80
	RESIDUAL WATER PRESSURE:	21.17



F UTILITY SERVICE

FOR
CONSTRUCTION
2/28/91



G GATE VALVE

SYMBOL	MANUFACTURER - MODEL NUMBER	PATTERN	RADIUS	PSI	GPM			DETAIL REF	REMARKS
					O	H	F		
* O *	RAINBIRD 1212-SAM	5 SERIES	5H-5508-B	5	30	1.0	.5	10'	12" POP-UP BODY. W/SAM
5	PVC CL 200	LATERAL	MIN. 12" COVER						
⊕	RAINBIRD EFA-CP	REMOTE CONTROL VALVE	SIZE ON PLAN					'D'	
M	2" WATER METER	(PROVIDED BY CITY OF RIVERSIDE WATER DEPT.)							
⊗	FEBCO 825Y 1 1/2"	REDUCED PRESSURE BACKFLOW PREVENTER						1B'	SCREEN WITH SHRUBS
●	RAINBIRD 44	LRC QUICK COUPLER W/44K & SH-2 HOSE SWIVEL						1E'	
---	SCHEDULE 40 PVC SLEEVE	ALL MAINLINES AND LATERALS AS SHOWN						2x PIPE SIZE	2" WIRE SLEEVE TYP NOT SHOWN
NOT SHOWN	CONTROL WIRE	SOLID COPPER W/ DIRECT BURIAL MIN. 18" COVER						N/A	ROUTE W/ MAINLINE 12 GA COMMON 14 GA PILOT
---	PVC CL 315	PRESSURE MAINLINE	SIZE INDICATED ON PLAN					MIN. 18" COVER	
⊕	RAINBIRD 13C-B	STATION CONTROLLER						'A' & 'F'	WALL MOUNT * (1)
NOT SHOWN	VALCON ADV	VALVES							* (2)
⊕	PULL BOX	- CONNECT TO CONTROLLER W/ 1" HDG CONDUIT							
⊗	CONCRETE THROST BLOCK	2000 PSI							
⊗	NIBCO T-113	GATE VALVE - LINE SIZE						G	

IRRIGATION LEGEND

IRRIGATION DETAILS

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY: [Signature]
DATE: 3/18/91

DESIGNED BY: DS
DRAWN BY: DS
CHECKED BY: RD

LUSK HIGHLANDER
MEDIANS
LOCHMOOR DRIVE AND
FAIR ISLE DRIVE

ACCOUNT NO. 002705
R-2941-L
SHEET 2 OF 7

INDEXED 4-16-91 fht



1. All related work shall conform to the City of Riverside Park and Recreation Department Standards.
2. Contact the Street Tree Inspector a minimum of 48 hours in advance at 951-781-1930 to schedule inspection. Inspections shall be required:
 - a) When plant locations have been staked in the field prior to digging plant pits and planting/irrigation trees.
 - b) When digging plant pits and planting/irrigation trees.
 - c) After planting and all other indicated or specified work has been completed for start of maintenance.
 - d) At end of maintenance/season 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 responsibility.
3. The Contractor/Developer shall maintain all plantings for a minimum period of one (1) year.
4. Street Tree planting shall be as follows:

Street Name	Botanical Name/Common Name	Min. Approx. No.	Site Spacing	Spec.
a.				
b.				
c.				
d.				
5. Park and Recreation Department and Public Works Department permits are required prior to commencement of site relocation and/or removal work. For all trees within the relocation and/or removal areas, backfill of all holes is to be completed by the City for proper compaction.
6. All Street Trees to be automatically irrigated.

SECTION 0244 - IRRIGATION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

The provisions of the "Standard Specifications for Public Works Construction", current edition, shall apply except as modified herein.

1.02 SCOPE

A. General

The work of this section shall include the furnishing of all labor, materials, equipment and services necessary to provide complete operating irrigation system as shown on the drawings and as specified.

B. Related Work Specified Elsewhere:

- Landscape Planting 0240
- Electrical 0230
- Earthwork and Grading 0200
- Clearing and Demolition 0210

1.03 SUBMITTALS

A. Materials List

Contractor shall submit a complete materials list for approval by the City prior to performing any work. Catalog data and full descriptive literature must be submitted whenever the use of items differs from those specified is requested. Retained certificates must be submitted by plastic pipe and fitting manufacturer indicating that materials comply with specifications, unless material has been previously approved.

Material list shall be submitted using the following format:

Item	Description	Manufacturer	Spec. No.
1	Pressure Supply Line	Lasco	SCN 40
2	Lawn Head	Bainbridge	2400
etc.	etc.	etc.	etc.

B. "Record" Prints

(1) Record accurately on one set of blue-line prints all changes in the work constituting departures from the original contract drawings, including changes in pressure and non-pressure line locations.

Page	Section
1	0244
2	0244

(2) The changes and dimensions shall be recorded in a legible and workmanlike manner to the satisfaction of the City. Prior to final inspection of work, submit record prints to City for approval.

(3) Dimension from the permanent points of reference (buildings, monuments, sidewalks, curbs, pavement, etc.). Data to be shown on record prints shall be measured as far as the project is being installed.

(4) Show locations and depths of the following items:

- a. Point of connection.
- b. Routing of sprinkler pressure lines (dimension maximum 100 feet along routing).
- c. Gate valves.
- d. Sprinkler control valves.
- e. Quick coupling valves.
- f. Routing of control wires.
- g. Related equipment (as may be directed).

(5) Maintain record prints onsite at all times.

1.04 INSPECTIONS

A. Inspections will be required for:

- (1) Pressure test of irrigation main line.
- (2) Coverage test.
- (3) Final inspection/start of maintenance. Final inspection shall be performed by the City in the presence of owner or his representative.
- (4) Final acceptance.

B. Inspection Requests

Contractor shall notify the Park Projects Inspector in advance for requesting all inspections as follows:

- Pressure supply line installation and testing - 36 hours (1/2 working days)
- System layout - 36 hours (1/2 working days)
- Coverage tests - 36 hours (1/2 working days)
- Final inspection - 48 hours (two working days)

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2	0244

When inspections have been conducted by other than the Park Projects Inspector, the Contractor shall show evidence of when and by whom these inspections were made.

No inspection will commence without "record" prints. In the event the Contractor calls for an inspection without up to date "record" prints, without completing previously noted corrections, or without preparing the system for inspection, the inspection will be cancelled and the Contractor back charged for the direct costs of all City personnel time and consultant time lost.

C. Closing in unretroacted work:

Do not allow or cause any of the work of this section to be covered up or enclosed until it has been inspected, tested and approved by the City.

D. Coverage test:

When the sprinkler system is completed, Contractor shall perform a coverage test in the presence of the City to determine if the water coverage for planting areas is complete and adequate. This test shall be accomplished before any planting.

E. Hydrastatic test:

(1) Prior to the installation of any valves, all pressure lines shall be tested under a hydrastatic pressure of 150 psi for a period of not less than two hours, with all ends of lines capped and the line fully charged with water after all air has been expelled from the line.

(2) All hydrastatic tests shall be made in the presence of the City. No pressure line shall be backfilled until it has been inspected, tested and approved in writing.

(3) Contractor shall furnish necessary force pump and all other test equipment.

1.05 TURNOVER ITEMS:

A. Controller Charts:

- (1) Record prints must be approved by City before charts are prepared.
- (2) Provide one controller chart (of the maximum size controller door will allow) for each automatic controller. Chart shall show the area covered by controller.
- (3) The chart is to be a reduced copy of the actual "record" print. In the event the controller sequence is not visible when the print is reduced, it shall be enlarged to a readable size.

B. Gate Valves:

All gate valves shall be capable of withstanding a minimum working pressure of not less than 150 psi.

C. Valve Boxes:

Brooks Boxes: Add the following to Standard Specifications Section 212-2.2.7. All remote control valve boxes shall be rectangular concrete boxes with hinged locking cast-iron covers. Valve station number shall be stenciled in black on the cover using epoxy resin base paint of a contrasting color. Gate valve boxes shall be round concrete boxes with hinged locking cast iron covers marked either "Gate Valve" or "G. V." with letters cast or tooled in the cover.

D. BACKFLOW PREVENTERS:

Add the following to Standard Specifications Section 212-2.3: The backflow prevention unit shall be a reduced pressure type vacuum breaker as approved by the Public Utilities Department, Water Division, Backflow Technician, and as indicated on the drawings.

E. ELECTRICAL MATERIALS (LOW VOLTAGE):

A. Conduit:

Amend Standard Specifications Section 212-2.1.1 to read: Conduit used for wiring shall be schedule 40 PVC of sufficient size to carry all proposed wiring. Wiring shall be in a separate sleeve.

B. Wire:

Add the following to Standard Specifications Section 212-2.2: All control wire shall be with a colored stripe. Stripe color shall be different for each controller installed. All control wire shall be of one color other than white or green. A different color control wire shall be used for each controller installed.

C. CONTROLLER UNIT:

Controllers shall be well mounted type, as indicated on the drawings, with a heavy duty watertight cast and locking hinged cover.

D. IRRIGATION HEADS:

All irrigation heads shall be as shown on the plans and shall conform with Section 212-2.4 of the Standard Specifications.

PART 2 - MATERIALS

2.01 GENERAL:

All materials shall conform with Section 212 of the Standard Specification except as modified herein.

2.02 PIPE AND FITTINGS:

A. Pipe - General:

(1) Pressure supply lines 8 inches in diameter and larger shall be 40 psi.

(2) Pressure supply lines 2 inches in diameter and up to 8 inches in diameter shall be either Class 215 solvent weld PVC or Class 200, rubber gasket type PVC. Solvent weld and ring type pipe shall not be used together on the same pressure supply line.

(3) Pressure supply lines 1/2 inches in diameter and smaller shall be minimum schedule 40 solvent weld PVC.

(4) Non-pressure lines shall be minimum Class 200 PVC.

B. Steel Pipe:

Amend Standard Specifications Section 212-2.1.2 to read: "All steel pipe shall be hot-dipped galvanized..." All fittings for steel pipe shall be 250 pound rated galvanized malleable iron, flanged bottom. Pipe sizes indicated on the drawings are nominal inside diameter, unless otherwise noted.

C. Plastic Pipe:

Add the following to Standard Specifications Section 212-2.1.1: (d) All plastic pipe shall bear the following markings: manufacturer's name, nominal pipe size, schedule or class, type of material, pressure rating in PSI, NSF seal of approval, and date of installation.

Amend Standard Specifications Section 212-2.1.3 to read: All fittings shall be standard weight schedule 40 and shall be injection molded of an improved PVC fitting compound. All threaded plastic fittings shall have injection molded threads. Cast threads will be accepted on PVC pipe and fittings. All steel and all iron pipe shall be standard weight schedule 40 with welded threads.

D. Backfill:

(1) Add the following to Standard Specifications Section 308-5.2: Provide backfill a minimum of 5 inches over and under all piping under paved areas.

(2) Amend Standard Specifications Section 308-5.2 to read: Backfill shall be placed in 4-inch layers under the pipe and uniformly on both sides for the full width of the trench and the full length of the pipe. Materials shall be sufficiently damp to permit thorough compaction, free of voids. Backfill shall be compacted to dry density equal to adjacent undisturbed soil and shall conform to adjacent grades.

(3) Amend Standard Specifications Section 308-5.2 to read: Backfill shall be placed in 4-inch layers under the pipe and uniformly on both sides for the full width of the trench and the full length of the pipe. Materials shall be sufficiently damp to permit thorough compaction, free of voids. Backfill shall be compacted to dry density equal to adjacent undisturbed soil and shall conform to adjacent grades.

(4) Amend Standard Specifications Section 308-5.2 to read: Backfill shall be placed in 4-inch layers under the pipe and uniformly on both sides for the full width of the trench and the full length of the pipe. Materials shall be sufficiently damp to permit thorough compaction, free of voids. Backfill shall be compacted to dry density equal to adjacent undisturbed soil and shall conform to adjacent grades.

(5) Amend Standard Specifications Section 308-5.2 to read: Backfill shall be placed in 4-inch layers under the pipe and uniformly on both sides for the full width of the trench and the full length of the pipe. Materials shall be sufficiently damp to permit thorough compaction, free of voids. Backfill shall be compacted to dry density equal to adjacent undisturbed soil and shall conform to adjacent grades.

(6) Amend Standard Specifications Section 308-5.2 to read: Backfill shall be placed in 4-inch layers under the pipe and uniformly on both sides for the full width of the trench and the full length of the pipe. Materials shall be sufficiently damp to permit thorough compaction, free of voids. Backfill shall be compacted to dry density equal to adjacent undisturbed soil and shall conform to adjacent grades.

(7) Amend Standard Specifications Section 308-5.2 to read: Backfill shall be placed in 4-inch layers under the pipe and uniformly on both sides for the full width of the trench and the full length of the pipe. Materials shall be sufficiently damp to permit thorough compaction, free of voids. Backfill shall be compacted to dry density equal to adjacent undisturbed soil and shall conform to adjacent grades.

(8) Amend Standard Specifications Section 308-5.2 to read: Backfill shall be placed in 4-inch layers under the pipe and uniformly on both sides for the full width of the trench and the full length of the pipe. Materials shall be sufficiently damp to permit thorough compaction, free of voids. Backfill shall be compacted to dry density equal to adjacent undisturbed soil and shall conform to adjacent grades.

(9) Amend Standard Specifications Section 308-5.2 to read: Backfill shall be placed in 4-inch layers under the pipe and uniformly on both sides for the full width of the trench and the full length of the pipe. Materials shall be sufficiently damp to permit thorough compaction, free of voids. Backfill shall be compacted to dry density equal to adjacent undisturbed soil and shall conform to adjacent grades.

(10) Amend Standard Specifications Section 308-5.2 to read: Backfill shall be placed in 4-inch layers under the pipe and uniformly on both sides for the full width of the trench and the full length of the pipe. Materials shall be sufficiently damp to permit thorough compaction, free of voids. Backfill shall be compacted to dry density equal to adjacent undisturbed soil and shall conform to adjacent grades.

(11) Amend Standard Specifications Section 308-5.2 to read: Backfill shall be placed in 4-inch layers under the pipe and uniformly on both sides for the full width of the trench and the full length of the pipe. Materials shall be sufficiently damp to permit thorough compaction, free of voids. Backfill shall be compacted to dry density equal to adjacent undisturbed soil and shall conform to adjacent grades.

(12) Amend Standard Specifications Section 308-5.2 to read: Backfill shall be placed in 4-inch layers under the pipe and uniformly on both sides for the full width of the trench and the full length of the pipe. Materials shall be sufficiently damp to permit thorough compaction, free of voids. Backfill shall be compacted to dry density equal to adjacent undisturbed soil and shall conform to adjacent grades.

(13) Amend Standard Specifications Section 308-5.2 to read: Backfill shall be placed in 4-inch layers under the pipe and uniformly on both sides for the full width of the trench and the full length of the pipe. Materials shall be sufficiently damp to permit thorough compaction, free of voids. Backfill shall be compacted to dry density equal to adjacent undisturbed soil and shall conform to adjacent grades.

(14) Amend Standard Specifications Section 308-5.2 to read: Backfill shall be placed in 4-inch layers under the pipe and uniformly on both sides for the full width of the trench and the full length of the pipe. Materials shall be sufficiently damp to permit thorough compaction, free of voids. Backfill shall be compacted to dry density equal to adjacent undisturbed soil and shall conform to adjacent grades.

(15) Amend Standard Specifications Section 308-5.2 to read: Backfill shall be placed in 4-inch layers under the pipe and uniformly on both sides for the full width of the trench and the full length of the pipe. Materials shall be sufficiently damp to permit thorough compaction, free of voids. Backfill shall be compacted to dry density equal to adjacent undisturbed soil and shall conform to adjacent grades.

(16) Amend Standard Specifications Section 308-5.2 to read: Backfill shall be placed in 4-inch layers under the pipe and uniformly on both sides for the full width of the trench and the full length of the pipe. Materials shall be sufficiently damp to permit thorough compaction, free of voids. Backfill shall be compacted to dry density equal to adjacent undisturbed soil and shall conform to adjacent grades.

(17) Amend Standard Specifications Section 308-5.2 to read: Backfill shall be placed in 4-inch layers under the pipe and uniformly on both sides for the full width of the trench and the full length of the pipe. Materials shall be sufficiently damp to permit thorough compaction, free of voids. Backfill shall be compacted to dry density equal to adjacent undisturbed soil and shall conform to adjacent grades.

(18) Amend Standard Specifications Section 308-5.2 to read: Backfill shall be placed in 4-inch layers under the pipe and uniformly on both sides for the full width of the trench and the full length of the pipe. Materials shall be sufficiently damp to permit thorough compaction, free of voids. Backfill shall be compacted to dry density equal to adjacent undisturbed soil and shall conform to adjacent grades.

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2.03 VALVES AND VALVE BOXES:

A. Remote Control Valves:

Amend Standard Specifications Section 212-2.2.4: All remote control valves shall be with a colored stripe. Stripe color shall be different for each controller installed. All remote control wire shall be of one color other than white or green. A different color control wire shall be used for each controller installed.

B. Remote Control Valves:

Add the following to Standard Specifications Section 212-2.2.4: All remote control valves shall be with a colored stripe. Stripe color shall be different for each controller installed. All remote control wire shall be of one color other than white or green. A different color control wire shall be used for each controller installed.

C. Quick-Coupling Valves:

Valve shall be completely serviceable in the field without removing the valve from the line. Valve shall be installed in a location accessible to the operator.

D. Quick-Coupling Valves:

Valve shall be completely serviceable in the field without removing the valve from the line. Valve shall be installed in a location accessible to the operator.

E. Quick-Coupling Valves:

Valve shall be completely serviceable in the field without removing the valve from the line. Valve shall be installed in a location accessible to the operator.

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H. Quick-Coupling Valves:

Valve shall be completely serviceable in the field without removing the valve from the line. Valve shall be installed in a location accessible to the operator.

I. Quick-Coupling Valves:

Valve shall be completely serviceable in the field without removing the valve from the line. Valve shall be installed in a location accessible to the operator.

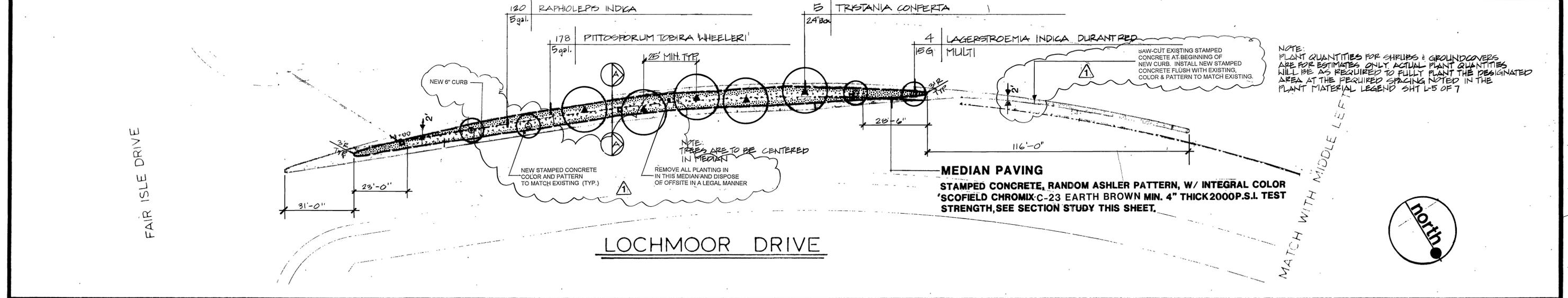
J. Quick-Coupling Valves:

Valve shall be completely serviceable in the field without removing the valve from the line. Valve shall be installed in a location accessible to the operator.

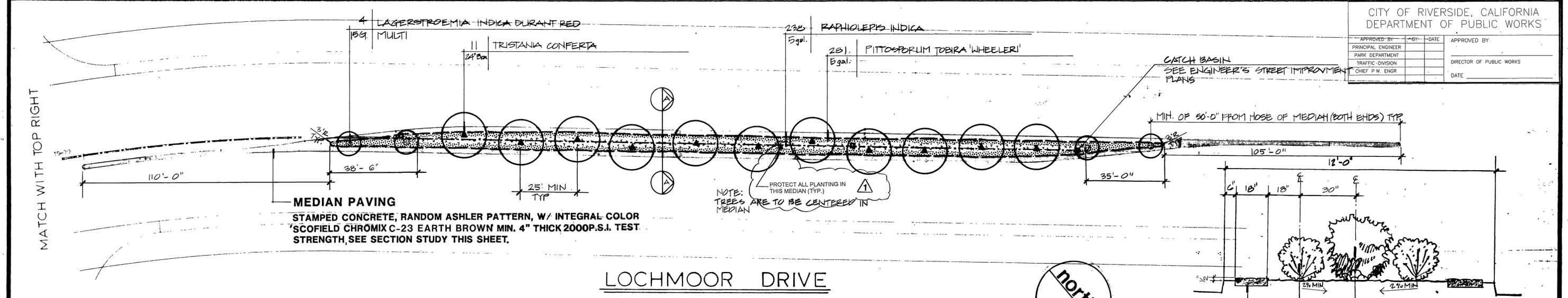
K. Quick-Coupling Valves:

Valve shall be completely serviceable in the field without removing the valve from the line. Valve shall be installed in a location accessible to the operator.

L. Quick-Coupling Valves:</



NOTE: PLANT QUANTITIES FOR SHRUBS & GROUNDCOVERS ARE FOR ESTIMATES ONLY. ACTUAL PLANT QUANTITIES WILL BE AS REQUIRED TO FULLY PLANT THE DESIGNATED AREA AT THE REQUIRED SPACING LISTED IN THE PLANT MATERIAL LEGEND. SHT L-5 OF 7



CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	
APPROVED BY: _____	DATE: _____
PRINCIPAL ENGINEER	APPROVED BY: _____
PARK DEPARTMENT	DIRECTOR OF PUBLIC WORKS
TRAFFIC DIVISION	DATE: _____
CHIEF P.W. ENGR	

MATCH WITH TOP RIGHT

CATCH BASIN
SEE ENGINEER'S STREET IMPROVEMENT PLANS

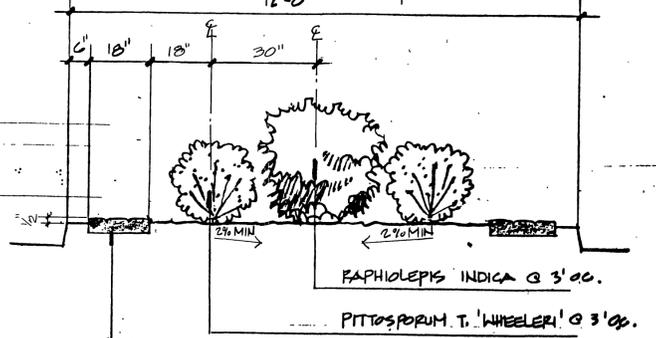


GENERAL NOTES:

- ALL RELATED WORK SHALL CONFORM TO THE CITY OF RIVERSIDE PARK AND RECREATION DEPARTMENT STANDARDS AND CITY OF RIVERSIDE POLICIES.
- WHEN CALLING FOR INSPECTIONS, CONTACT THE PARK PROJECTS INSPECTOR A MINIMUM OF 48 HOURS IN ADVANCE AT (951) 712-1489 TO SCHEDULE AN INSPECTION. A FIELD NOTICE WILL BE ISSUED AS WRITTEN APPROVAL FOR EACH STAGE OF INSPECTION. A VERBAL APPROVAL WILL NOT BE ACCEPTABLE. INSPECTIONS ARE REQUIRED AT THE FOLLOWING TIMES DURING THE COURSE OF THE PROJECT:
 - PRIOR TO COMMENCEMENT OF ANY WORK, FOR THE PURPOSE OF A PRE-CONSTRUCTION MEETING.
 - PRIOR TO THE INSTALLATION OF IRRIGATION LINES OR COMPONENTS.
 - PRIOR TO POURING CONCRETE FOR INSPECTION OF HARDSCAPE FORMWORK.
 - DURING HYDROSTATIC PRESSURE TEST OF IRRIGATION MAINLINE PRIOR TO BACKFILL OF MAINLINE TRENCH.
 - INSPECTION OF LATERAL LINES AND HEADS PRIOR TO BACKFILL OF TRENCHES.
 - UPON COMPLETION OF FINE GRADING, BUT PRIOR TO COMMENCEMENT OF SOIL PREPARATION, FOR ACCEPTANCE OF GRADING WORK.
 - INSPECTION OF COMPLETED FINISH GRADING WORK AFTER SOIL AMENDMENT WORK.
 - UPON COMPLETION OF THE IRRIGATION SYSTEM FOR A COVERAGE TEST AND DEMONSTRATION OF THE SYSTEM AS FULLY OPERATIONAL.
 - WHEN PLANT LOCATIONS HAVE BEEN SPOTTED IN THE FIELD BUT PRIOR TO DIGGING PLANT PITS.
 - WHILE DIGGING PLANT PITS AND PLANTING/RELOCATING TREES.
 - DURING APPLICATION OF PRE-EMERGENT CHEMICAL. PRE-EMERGENT CHEMICAL TREATMENT SHALL BE APPLIED AT THE FOLLOWING TIMES DURING THE CONTRACT:
 - BEFORE PLANTING.
 - AT THE BEGINNING OF PLANT ESTABLISHMENT PERIOD.
 - PERIODICALLY AS NECESSARY DURING PLANT ESTABLISHMENT PERIOD, AND
 - AT THE END OF PLANT ESTABLISHMENT PERIOD.
 - AFTER PLANTING AND ALL OTHER INDICATED OR SPECIFIED WORK HAS BEEN COMPLETED, FOR START OF MAINTENANCE.
 - AT FORMAL QUARTERLY INSPECTIONS.
 - AFTER COMPLETION OF THE MAINTENANCE PERIOD.
- UPON COMPLETION OF WRITTEN ACKNOWLEDGMENT OF THE CITY'S FINAL ACCEPTANCE, THE DEVELOPER WILL BE RELEASED FROM MAINTENANCE. (UNTIL RECEIPT OF WRITTEN NOTIFICATION FROM THE CITY THAT THE PARK AND RECREATION DEPARTMENT IS ASSUMING MAINTENANCE RESPONSIBILITIES, THE DEVELOPER SHALL REMAIN RESPONSIBLE FOR THE PROJECT)
- THE DEVELOPER SHALL BE RESPONSIBLE TO HAVE ALL PLANTINGS ACCEPTABLY MAINTAINED FOR A MINIMUM PERIOD OF ONE (1) YEAR.
 - ALL WIRES UNDER PAVEMENT SHALL BE INSTALLED IN A SEPARATE SLEEVE FROM PIPING PER CITY OF RIVERSIDE-PARK AND RECREATION DEPARTMENT STANDARDS.
 - ALL PIPING UNDER PAVEMENT SHALL BE INDIVIDUALLY SLEEVED PER CITY OF RIVERSIDE-PARK AND RECREATION DEPARTMENT STANDARDS.
 - IRRIGATION SYSTEMS SHALL BE SPLIT AND VALVED IN A MANNER TO AVOID NON-PRESSURE LATERAL LINES UNDER STREETS.
 - ANGLED FITTINGS ARE NOT ALLOWED IN PIPE OR WIRE SLEEVING.

NOTE: TREE PLANTING PITS SHALL BE EXCAVATED IN CENTERLINE OF MEDIAN.

NOTE: ALL MEDIAN LANDSCAPE SHALL CONTAIN 40% HARDSCAPE AND DRAINAGE SYSTEM SHOWN REFER TO STREET IMPROVEMENT PLANS R-2941 FOR DRAINAGE SYSTEM



BENCH MARK
3.5 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, 76 FEET SOUTHEAST OF MILEPOST 6, SET VERTICALLY IN THE SOUTHWEST FACE OF A ROCK CUT 7 FEET NORTHEAST OF THE NORTHEAST RAIL, 1.9 FEET ABOVE THE GROUND, AND ABOUT 1 FOOT HIGHER THAN THE TRACT. BRASS DISK STAMPED D1144 1961 ELEVATION 1451.887 (BRASS DISK IS BROKEN OFF P.D. ORIGINAL SHANK OF B.D WITH P.K. NAIL DRIVEN ALONG SIDE SHANK)

SOUTHERN CALIFORNIA GAS CO		APPROVED BY: _____ REG. CIVIL ENGINEER NO. _____		NBS/LOWRY ENGINEERS & PLANNERS P.O. BOX 851 HEMET, CA 92343 (714) 658-7116		CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT		LUSK HIGHLANDER MEDIAN DETAILS FOR LOCHMOOR DRIVE AND FAIR ISLE DRIVE		ACCOUNT NO. 002705 R-2941-L L-4 SHEET 4 OF 7	
PACIFIC BELL TELEPHONE		DATE: _____		SCALE: 1" = 20'		APPROVED BY: _____ PRINCIPAL ENGINEER		APPROVED BY: _____ PUBLIC WORKS DIRECTOR		HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 20'	
APPROVED BY: _____ DATE: _____		APPROVED BY: _____ DATE: _____		DATE: MAR 1987		DESIGNED BY: AJP DRAWN BY: AJP CHECKED BY: ED		DATE: 3/14/91		H-80011061	

FOR CONSTRUCTION
2/28/91

30 OF 33

Randolph Hlubik Associates, Inc.
Landscape Architecture • Planning
Old City Hall • Third Floor
3612 Seventh Street • Riverside, California 92501
License #1512 (714) 781-1930



MEDIAN PLANTING
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TRI-SPACING BETWEEN PITTOSPORUM TOBIIRA 'WHEELERI' & RAPHIOLEPIS INDICA

MEDIAN PAVING

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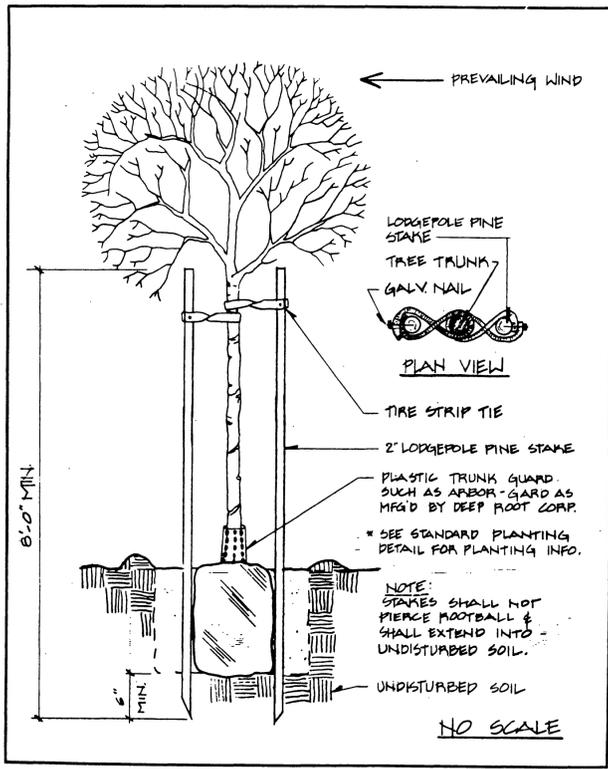
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MEDIAN PLANTING

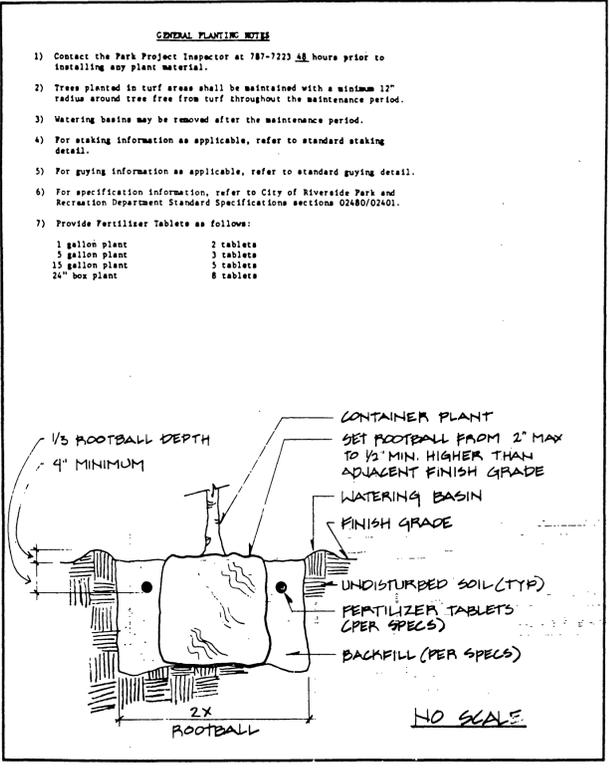
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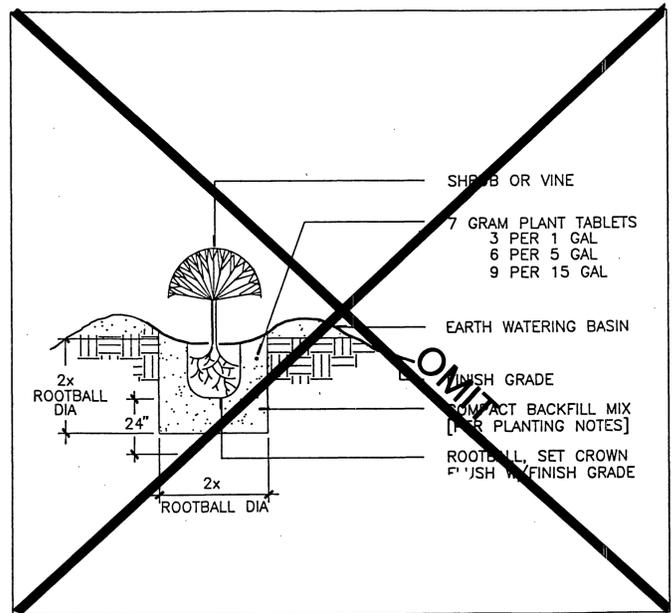
MEDIAN PLANTING



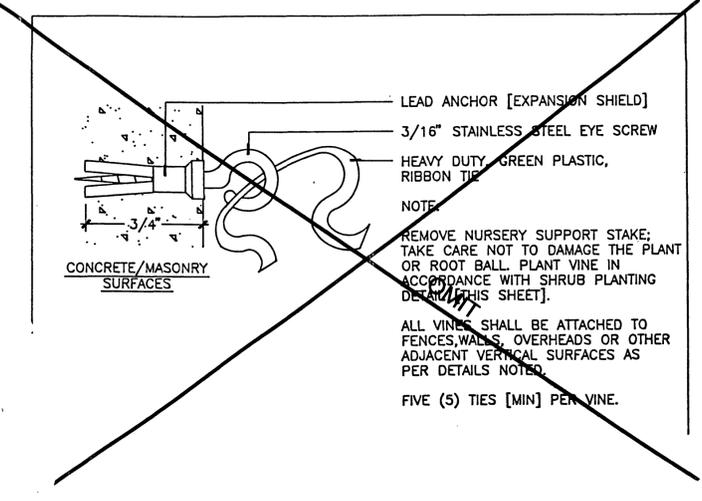
A TREE DETAIL



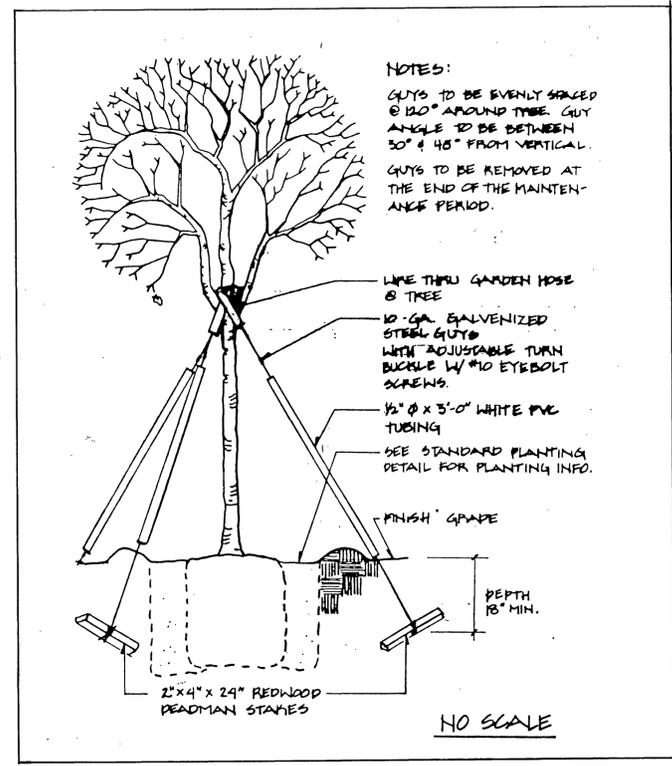
B PLANTING DETAIL



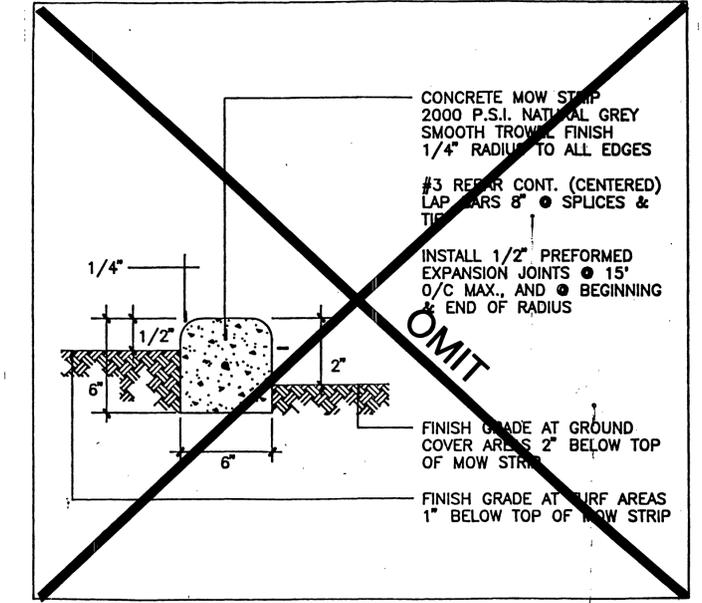
C SHRUB DETAIL



D VINE TIES



E TREE GUYING DETAIL



F CONC. MOW CURB

BOTANICAL NAME	SIZE	DETAIL REFERENCE	REMARKS
TREES			MIN. HGT. @ SPRD
LAGERSTROEMIA INDICA 'DURANT RED'	15 GAL	A & B	7-8' X 2-3'
TRISTANTIA CONFERTA	24" BOX	C	10-12' X 4-5'
SHRUBS			
PITOSPORUM TOBIRA 'WHEELER'	5 GAL	B	PLANT @ 3' O.C. WELL FORMED, BUSHY
RAPHIOLEPIS INDICA	"	"	PLANT @ 3' O.C. " " " "
GROUND COVER			
2" SHREDDED MULCH			MEDIUM GRIND SHREDDED MULCH SOURCE: BLUE RIBBON LANDSCAPE ORANGE, CA. (714) 633-3666 INSTALL UNDER ALL SHRUBS

PLANTING LEGEND

Randolph Hlubik Associates, Inc.
Landscape Architecture • Planning
Old City Hall • Third Floor
3612 Seventh Street • Riverside, California 92501
License #1912 (714) 781-1930

FOR CONSTRUCTION 2/28/91

PLANTING DETAILS



CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT		THE LUSK CO. LUSK HIGHLANDER		ACCOUNT NO.
APPROVED BY PRINCIPAL ENGINEER PARK DEPARTMENT	DATE 3/8/91 128-91	BY WJA JH	APPROVED BY <i>[Signature]</i> PUBLIC WORKS DIRECTOR	L-5 SHEET 5 OF 7
TRAFFIC DIVISION	CHIEF P.W. ENGINEER	DATE	DATE	
DESIGNED BY: AP	DRAWN BY: AP	CHECKED BY: PD	DATE: 3/14/91	HORIZ. SCALE: 1" =

SECTION 02400 - PLANTING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

The provisions of the "Standard Specifications for Public Works Construction" shall apply except as modified herein.

1.02 SCOPE:

The work required is indicated on the drawings and includes, but is not necessarily limited to: soil preparation; finish grading (as distinguished from fine grading per Section 02100); planting trees; grading and staking trees; planting shrubs and groundcover; hydroseeding turf; soil erosion control; maintenance; plant establishment; guarantee; and replacements.

1.03 SOILS TEST:

The Contractor shall notify the Park Projects Inspector upon completion of fine grading and prior to commencement of soil preparation work. The City will obtain agronomic soils tests for all planting areas after completion of fine grading and prior to start of soil preparation work. Tests will be performed by an approved agronomic soils testing laboratory and will include a fertility and suitability analysis with written recommendations for soil preparation, planting backfill mix, sugar note requirements, and post plant fertilization program. The soils report recommendations shall take precedence over the minimum amendment and fertilizer application rates specified herein only when they exceed the specified minimum. Contractor shall allow a minimum two week period for the soils testing work commencing upon acceptance of the fine grading work per Section 02100 by the Park Projects Inspector.

1.04 GUARANTEE:

- A. All trees installed under the contract shall be guaranteed against any and all poor, inadequate or inferior materials and/or workmanship for a period of one (1) year following final acceptance.
B. During the guarantee period, any material found to be dead, missing, or in poor condition shall be replaced by the contractor within ten (10) days of written notification.
C. Replacement shall be made in accordance with City standards.
D. Material and labor involved in replacing plant material shall be provided by the contractor at no additional cost to the City.

PG. 1

1.05 INSPECTIONS:

Inspections will be required. The Contractor shall contact the Park Projects Inspector at least 48 hours (2 working days) in advance of an anticipated inspection. An inspection will be required at each of the steps listed below:

- A. Upon completion of fine grading and prior to commencement of soil preparation, for acceptance of fine grading work and taking of soils samples.
B. Inspection of completed finish grading work following soil amendment work.
C. When container plants and/or bare root stock are spotted for planting, but before planting holes are excavated.
D. When planting and all other indicated or specified work has been completed.
E. During application of pre-emergent chemical.
F. At start of plant establishment period.
G. At end of the plant establishment period, prior to final acceptance of the project for maintenance by the City. This acceptance for maintenance will be confirmed in writing by the Park and Recreation Department.

1.06 SUBMITTALS:

- A. The following written certifications are required to be submitted to the Park Projects Inspector upon delivery of the respective materials to the job site:
- Total Quantity of commercial fertilizers, by type
- Total Quantity of soil amendments and conditioners, by type
- Total Quantity of seed, by type
- Total Quantity of mulch
- Total Quantity of iron sulphate

1.07 PLANT ESTABLISHMENT PERIOD:

The length of the Plant Establishment Period shall be a minimum of one (1) year. See also Subsection 3.11 of this section regarding start of plant establishment period.

PART 2 - MATERIALS

2.01 GENERAL:

All materials shall conform with Section 212 of the Standard Specifications except as modified herein.

PG. 2

2.02 FERTILIZER, SOIL AMENDMENTS AND CONDITIONS:

Add the following to Standard Specifications Section 212-1.2.3:
A. Planting Tablets: Tightly compressed long-lasting, slow-release fertilizer tablets weighing 21 grams, with a potential activity of not more than 5 percent by weight and having an analysis of 20-10-5 derived from the sources listed in the following guaranteed analysis:

GUARANTEED ANALYSIS

Table with 2 columns: Component and Percentage. Includes Total Nitrogen (20%), Available Phosphoric Acid (10%), Soluble Potash (5%), Combined Calcium (2.6%), Combined Sulfur (1.6%), and Iron (3%).

- B. Commercial fertilizer shall bear the manufacturer's guaranteed statement of analysis and shall meet the following minimum requirements: 18% nitrogen, 6% phosphoric acid, and 8% potash.
C. Organic Soil Amendment: Shall be type 1 organic soil amendment, wood based product, nitrogen stabilized.
D. Soil Conditioners: Add to Standard Specifications, new Section 212-1.2.4: Organic conditioners shall be agricultural grade gypsum, soil sulfur and iron sulfate.

PG. 3

2.03 SEED:

Table with 4 columns: Seed Name, Purity, Germination, and Proportion. Lists seeds like Turf Seed Mix, Perennial Ryegrass, and Un-Weeded Bermuda.

2.04 HYDROSEEDING MATERIALS:

Add the following to Standard Specifications Section 212-1.3:
HYDRATE: All water used shall be potable domestic water as drawn from the City pressure main. See General Provisions, section 7-1.5 regarding temporary construction meter and charges for water drawn from City fire hydrants.
SEED: Turf seed mix as specified.
MULCH: Fiber shall be produced from cellulose such as wood pulp or similar organic material and shall be of such character that it will disperse into a uniform slurry when mixed with water.

2.05 PLANTS:

- A. Add the following to Standard Specifications Section 212-1.4.1: All plants shall be true to name, and one of each bundle or lot shall be tagged with the name and size of plants in accordance with the standards of practice recommended by the American Association of Nurserymen.
B. Single super phosphate 0-10-0.

PG. 4

2.07 HEADERS, STAKES AND TIES:

- A. Add the following to Standard Specifications Section 212-1.5.3:
(1) Tree stakes shall be straight-grained lodgepole pine, or City approved equal. Stakes shall be free from knots, checks, splits, or disfigurements.
(2) Tree ties shall be made from tire casing, 2 1/2" long by 3/4" wide, fastened to tree stake with two galvanized 50 roofing nails each.
B. Add the following new section to Standard Specifications Section 212-1.5(6): Concrete Curbing - Concrete shall be 5 test, set with a maximum slump test of four inches (4").

2.08 JUTE NETTING:

Jute netting shall be new and shall be of uniform, plain-weave, flame-retardant mesh. The mesh shall be dyed green and shall be made from unbleached single jute yarn. The yarn shall be of loosely twisted construction and shall not vary in thickness by more than one-half its normal diameter. Jute netting shall be furnished in rolled strips and shall meet the following requirements:
Width - 48 inches, with a tolerance of one inch wider or narrower.
Minimum 78 warp ends per width of roll.
Minimum 41 weft ends per yard of length.
Weight shall average 1.22 pounds per linear yard, with a tolerance of 5 percent heavier or lighter.

PART 3 - EXECUTION

3.01 GENERAL:

All work shall conform with Section 308 of the Standard Specification, except as modified herein.

3.02 NEED CONTROL MEASURES:

- A. Upon completion of all fine grading work per Section 02100 Grading, and prior to soil preparation, perform seed control measures as follows:
1. Irrigate all areas designated to be planted for a minimum of 10 minutes per setting. Two settings per day for seven days to germinate all weed seed possible.

PG. 6

3.10 MAINTENANCE:

Amend the Standard Specifications Section 308-6 to read: All areas within the work limits of this contract shall be maintained by the contractor for the duration of the contract until final acceptance.

3.11 START OF PLANT ESTABLISHMENT:

- Add the following to Standard Specifications Section 308-6:
A. Criteria for Start of Plant Establishment Period:
(1) The plant establishment period shall not start until all elements of the project that impact the landscape are completed in accordance with the contract documents.
(2) Permanent power to remote controllers shall be established.
(3) The plant establishment period for the project shall not begin until after the first mowing of the newly-laid turf areas.
(4) Written acceptance of the City must be obtained to start the plant establishment period.
(5) If the project maintenance fails to continuously meet standards required, the plant establishment period "day count" will be suspended and will not recommence until the Contractor has corrected all deficiencies.

3.12 MAINTENANCE TASKS:

Add the following to Standard Specifications Section 308-6:
A. GENERAL:
During the contract period provide all watering, weeding, mowing, fertilizing and protection and spraying necessary to keep the plants and turf in a healthy growing condition and to keep the planted areas neat, edged, and attractive. All shrubs planted by the contractor shall be pinched and pruned as necessary to encourage new growth and to eliminate rank sucker growth. Old wilted flowers and dead foliage shall be immediately pinched or cut off. Do not prune trees without written approval of the City.

PG. 11

3.03 SOIL PREPARATION:

Add the following to Standard Specifications Section 308-2.3:
A. All fine grading and mounding per Section 02100 and weed control measures shall be completed prior to soil preparation.
B. This work shall not commence until the agronomic soils test has been completed. Should 30 calendar days elapse between completion of soil preparation and commencement of planting, all areas shall be prepared again.

3.04 FINISH GRADING:

- The Contractor shall finish grade all planting areas (filling as needed or removing surplus dirt, raking to remove all rocks and debris over 1 inch in diameter, and floating to a smooth uniform grade. All areas shall slope to drain. Flow lines shall be established to existing roads, curbs, sidewalks, and/or a sidewalk as shown on the plans and as directed. All fill material placed within the top 12" from finish grade elevations in all planting areas shall be topsoil.
(1) 6 cubic yards organic amendment.
(2) 15 pounds commercial fertilizer.
(3) 100 pounds gypsum.
(4) Soil sulfur per soils report.

PG. 7

3.05 EROSION CONTROL:

Add new section to the Standard Specifications: 308-4.6(F) Jute Netting:
All slopes areas exceeding 3:1 shall receive jute netting. Netting shall also be provided during the maintenance period, when and as directed by the Park Projects Inspector. Slope flow lines and other locations where erosion is evident. Jute netting shall be installed loosely, up and down the slope. The installed netting shall fit the soil surface contour and shall be held in place by 9-inch long, 1 1/2-gauge (minimum) steel wire staples driven vertically into the soil at approximately 18-inch spacing. Jute netting strips shall overlap along the slope at least 6 inches. Ends of strips shall be buried into the soil at least 6 inches. Lap all ends of rolls a minimum of 24".

3.06 PLANTING:

- A. Amend the Standard Specifications Section 308-4.5 to coordinate with Section 2.06 herein for specified backfill mix.
B. Add the following to the Standard Specification Section 308-4.5:
(1) Soil surrounding planting pit shall be in a friable condition and moist to a depth of 8".
(2) Backfill using specified soil mix to within 8" of finish grade. At this depth, place the plant fertilizer tablets Agriform 20-10-5, 21 gram each, or City approved equal - 8 minimum of 1 tablet for 5 gallon, 3 tablets for 15 gallons, 5 tablets for 15 gallons, and 8 tablets for a 24" box. Complete backfilling to finish grade.
(3) Trees (other than relocated palms) shall be planted at such a depth that the crown roots bear the same relative position to finish grade as they did to the soil where they were grown. Backfill after planting shall be compacted carefully into place without injuring the roots of the tree or breaking up the ball of earth surrounding the roots.
C. Add the following to Standard Specifications Section 308-4.7:
(1) On slopes exceeding 3:1 ratio, apply 2 gram Agriform tablets, one per plant to line of soil preparation work.

PG. 8

3.07 TREE STAKING:

Amend the Standard Specifications Section 308-4.6.1 and 308-4.6.2 to read: Stake trees per Park and Recreation Department standard detail.
(3) All groundcover and bare dirt areas are to be treated with a pre-emergent chemical (subject to approval by the Park Inspector prior to application). Chemicals are to be applied by a licensed Pest Control Agent. This treatment shall be applied at the following times during the contract: a) before planting, b) at beginning of plant establishment period, and c) at end of plant establishment period. The Park Projects Inspector (714) 782-5223, shall be given a minimum of 48 hours (2 working days) notice prior to each application. No chemicals shall be applied other than in the presence of the Inspector.

3.08 TURF PLANTING:

Add the following to Standard Specifications Section 308-4.6.2:
Mixing of hydroseed slurry: Mixing shall be performed in a tank, with a built-in continuous agitation and recirculation system of sufficient operating capacity to produce a homogeneous slurry of fiber, M-Binder, seed, fertilizer and water to the designated unit proportions.
Fiber 1,000 lbs./acre
Fertilizers:
MFC 870 lbs./acre
Single superphosphate 200 lb./acre
Seed as specified in Section 2.03
M-Binder 100 lbs./acre on slopes exceeding 5:1
Water 3,000 gal./acre
Agricultural Grade Gypsum 500 lb./acre
With agitation system operating at part speed, water shall be added to the tank, good recirculation shall be established. Materials shall be added in such a manner that they are uniformly blended into the mixture in the following sequence:
When tank is 3/4 filled with water:
Add seeding agent - 1/2 acre requirement.
Add 3 - 50 pound bales of fiber.
Add seed - 1/2 acre requirement.
Add fertilizer - 1/2 acre requirement.

PG. 9

each species or variety except when container-grown plants are from several different sources; in which case, the roots of not less than two plants of each species or variety from each source shall be checked by the Park Projects Inspector at his option. The selection of plants to be checked will be made by the Park Projects Inspector.

All plants rendered unsuitable for planting shall be considered as samples, and replacements shall be provided at no additional cost. In case the sample plants are found to be defective, the entire lot or lots of plants represented by the defective samples will be rejected.

Amend the Standard Specifications Section 212-1.4.2 and 212-1.4.3: All trees and shrubs supplied by contractor shall be of the specified standard height and diameter set by the American Standard for Nursery Stock. The height of the trees shall be measured from the root crown to the last division of the terminal leader and the diameter shall be measured six (6) inches above the crown roots. The trees shall stand erect without support.

Add to Standard Specifications, new Section 212-1.4.6: Rooted cuttings will also be acceptable.
Bare root stock shall conform to the American Nurseryman's Association standards. Minimum caliper shall be two (2) inch diameter and minimum height shall be twelve (12) feet.

2.06 BACKFILL MATERIAL:

- Add the following to the Standard Specifications Section 212:
A. Top soil shall be free of noxious weed seed and shall be of a loam characteristic, fertile and friable.
B. Good shavings shall be leached nitrogen fortified and shall be free of foreign matter.
C. Soil used for backfill of planting pits for container plants shall be aeriched using the following blend per cubic yard (agronomic soil test recommendations to be reviewed prior to soil mixing):
80% site soil
20% 10% gypsum
2% 10% iron sulphate
2 lbs. commercial fertilizer
Bare root stock backfill shall consist of 10% wood shavings and 90% site soil with fertilizer and soil conditioners as specified for container plants.
D. All soil backfill shall be bulk mixed, not individually mixed at each plant pit.

PG. 5

Mulch mixture at full speed when the tank is half-filled with water. Add remainder fiber requirement, 7 bales before tank is 3/4 full. Add remainder fertilizers, seed and gypsum. Slurry distribution should begin immediately.

Area to be hydroseeded shall be moistened to a depth of six inches just prior to application.

Application: Hydroseed slurry shall be applied under high pressure evenly and result in a uniform coat of all areas to be treated. Care shall be exercised to insure that plants in place are not subjected to the direct force of the application. Slurry shall be immediately removed from walls, structures, plants, etc. that are inadvertently sprayed.

All bare spots shall be reseeded by the Contractor within 10 days. The Contractor shall be responsible for all reseeded areas for as long after seeding as necessary until acceptable germination and establishment is realized and approved by the City.

The slurry shall not be sprayed on undesignated areas. Any slurry spilled or sprayed into areas other than those designated to receive spray shall be cleaned up at the Contractor's expense to the satisfaction of the City.

3.09 WATERING:

- Add the following to Standard Specifications Section 308-4.9.5:
A. It shall be the Contractor's responsibility to maintain a balanced watering program to ensure proper growth until final acceptance of the work.
B. Immediately after planting, apply water to each plant. Apply water in a moderate stream in the planting hole until the material above the roots is completely saturated from the bottom of the hole to the top of the ground.
C. Apply water in sufficient quantities and as often as seasonal conditions require to keep the planted areas moist at all times, well below the root system of plants.
D. Irrigation:
(1) Contractor shall properly and completely maintain the irrigation system. A balanced water program shall be maintained to ensure proper germination and growth until final acceptance of the work. Plants which cannot be watered sufficiently with the irrigation system shall be watered by means of a hose.

PG. 10

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PG. 13

Table with columns: MARK, REVISIONS, APPR. DATE, DESIGNED BY, DRAWN BY, CHECKED BY. Includes entries for APPROVED BY, PRINCIPAL ENGINEER, PARK DEPARTMENT, TRAFFIC DIVISION, CHIEF P.W. ENGINEER, PLANNING.

FOR CONSTRUCTION 2/28/91 PLANTING NOTES

CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT. THE LUSK CO. LUSK HIGHLANDER MEDIAN DETAILS FOR LOCHMOOR DRIVE AND FAIR ISLE DRIVE. ACCOUNT NO. R-2941-L SHEET 6 OF 7. L-6. HORIZ. SCALE: 1" = VERT. SCALE: 1" = INDEXED 4-16-91 fth



CITY OF RIVERSIDE
 PARK AND RECREATION DEPARTMENT
 STANDARD SPECIFICATIONS
 SECTION 02480-1 - STREET TREE PLANTING
 PART 1 - GENERAL
 1.01 RELATED DOCUMENTS
 The provisions of the "Standard Specifications for Public Works Construction", current Edition, shall apply except as modified herein.
 1.02 SCOPE
 The work required is indicated on the drawings and includes, but is not necessarily limited to: planting trees; grading and staking trees; maintenance; watering; and replacement. The plant quantities are approximate; the actual quantity of trees to be planted will be determined on-site by the inspector to conform with site constraints while providing a minimum of one tree per lot and an average spacing of 45' O.C. whichever results in the greater number of trees.
 1.03 GUARANTEE
 A. All trees installed under the contract shall be guaranteed against any and all poor, inadequate or inferior materials and/or workmanship for a period of one (1) year. Guarantee period shall run concurrently with maintenance period.
 B. During the guarantee period, any material found to be dead, missing, or in poor condition, whether or not due to the fault of the contractor, shall be replaced by the contractor within ten (10) days of written notification. Park and Recreation Department shall be the sole judge as to the condition of the material.
 C. Replacement shall be made in accordance with City standards.
 D. Material and labor involved in replacing plant material shall be provided by the contractor at no additional cost to the City.
 1.04 INSPECTIONS
 Inspections will be required. The Contractor shall contact the Park Department Representative at least 48 hours (2 working days) in advance of an anticipated inspection. An inspection will be required at each of the steps listed below:
 A. when stumps are spotted for planting, but before planting holes are excavated.
 B. when planting - all other indicated or specified work has been completed.
 2/86 Street Tree Planting Page 2 Section 02480-1

As start of plant establishment and maintenance period.
 Final inspection (end of maintenance) prior to release of project. This release will be confirmed in writing by the City and Recreation Department.
 PART 2 - MATERIALS
 2.01 GENERAL
 All materials shall conform with Section 212 of the Standard Specifications except as modified herein.
 2.02 FERTILIZER, SOIL AMENDMENTS AND CONDITIONS
 Add the following to Standard Specifications Section 212-1.2.3:
 A. Planting Tablets: Flighty, compressed long-lasting, slow-release fertilizer tablets weighing 35 grams, with a potential acidity of not more than 5 percent by weight, and having an analysis of 20-10-5 derived from the sources listed in the following guaranteed analysis:
 GUARANTEED ANALYSIS
 Total Nitrogen (N) 20%
 Derived from urea formaldehyde
 1.0% water soluble nitrogen
 1.0% water insoluble nitrogen
 Available Phosphoric Acid (P₂O₅) 10%
 Derived from calcium phosphate
 Soluble Potash (K₂O) 5%
 Combined Calcium (Ca) 2.0%
 Derived from calcium phosphates
 Combined Sulfur (S) 0.5%
 Derived from ferrous and potassium sulfates
 Iron (expressed as elemental Fe) 35%
 Derived from ferrous sulfate
 B. Commercial fertilizer shall bear the manufacturer's guaranteed letter-ident of analysis and shall meet the following minimum requirements:
 1. 15% nitrogen, 7% phosphoric acid, and 5% potash
 2. 10% nitrogen
 2/86 Street Tree Planting Page 3 Section 02480-1

Type I organic soil amendment, nitrogen stabilized, shall be used.
 Soil Conditions:
 Add to Standard Specifications, new section 212-1.2.6: Inorganic conditions shall be agricultural grade gypsum, soil sulfur and Iron sulfate.
 2.03 PLANTS
 A. Add the following to Standard Specifications Section 212-1.4.1:
 All plants shall be true to name, and one of each bundle or set shall be tagged with the name and size of plant in accordance with the standards of practice recommended by the American Association of Nurserymen. The root condition of plants furnished by containers shall be determined by removal of roots from the roots of not less than ten plants per more than 25 of the total number of plants of each species or variety except when container-grown plants are from several different sources; in which case, the roots of not less than ten plants of each species or variety from each source shall be checked by the Park Department Representative at his option. The selection of plants to be checked will be made by the Park Representative. All plants numbered unacceptable for planting shall be considered as samples, and replacement shall be provided at no additional cost. In case the sample plants are found to be defective, the entire lot or lots of plants represented by the defective samples will be rejected.
 B. Amend the Standard Specifications Section 212-1.4.2 and 212-1.4.3: All trees supplied by contractor shall be of the specified standard height and diameter set by the American Standard for Nursery Stock. The height of the trees shall be measured from the root crown to the last division of the terminal leader and the diameter shall be measured six (6) inches above the crown roots. The trees shall stand erect without support.
 C. Bare root stock shall conform to the American Nurserymen's Association standards. Minimum caliper shall be 2" and minimum height shall be 12 feet.
 D. All oak trees shall be of a minimum overall height of 8 to 12 feet as measured from the crown of the rootball to the tip of the crown, or four feet of brown trunk whichever is greater.
 E. All container grown plants shall be of a minimum 15 gallon container size with minimum caliper and height in accordance with the American Association of Nurserymen standards for container plants.
 2.04 BACKFILL MATERIAL
 Add the following to the Standard Specifications Section 212:
 A. Top soil shall be free of noxious weed seed and shall be of a low characteristic, fertile, and friable.
 2/86 Street Tree Planting Page 4 Section 02480-1

Wood shavings shall be leached nitrogen fortified and shall be free of foreign matter.
 Soil used for backfill of planting pits for container plants shall be enriched using the following blend per cubic yard:
 60% site soil
 40% wood shavings
 2 lbs. commercial fertilizer
 2 lbs. iron sulphate
 B. Bare root stock backfill shall consist of 100% wood shavings and 50% site soil with fertilizer and soil conditioners as specified for container plants.
 2.05 HEADERS, STAKES AND TIES
 A. Add the following to Standard Specifications Section 212-1.5.3:
 (1) Tree stakes shall be straight-grained lodgepole pine or approved equal. Stakes shall be free from knots, checks, splits, or discolorations.
 (2) Tree ties shall be made from 1/2" casing, 2" long by 3/4" wide, fastened to tree stake with galvanized 5d roofing nails each.
 B. Add the following new section to Standard Specifications Section 212-1.5(4): Concrete Curing - Concrete shall be 5 sack mix with a maximum slump test of four (4) inches (10"). Provide sufficient concrete forming and staking (maximum 3' o.c.) to provide continuous line without waving.
 PART 3 - EXECUTION
 3.01 GENERAL
 All work shall conform with Section 308 of the Standard Specification except as modified herein.
 3.02 PLANTING
 A. Amend the Standard Specifications Section 308-4.5 to coordinate with Section 2.04 herein for specified backfill mix.
 B. Add the following to the Standard Specification Section 308-4.5:
 (1) Soil surrounding planting pit shall be in a friable condition and moist to a depth of 8".
 (2) Backfill using specified soil mix to within 8" of finish grade. At this depth, place the plant fertilizer tablets Agriform 20-10-5, 21 grams each or equal. A minimum of 2 tablets per tree.
 2/86 Street Tree Planting Page 4 Section 02480-1

root stock; 5 tablets for 15 gallons, and 8 tablets for a 24" box. Complete backfilling to finish grade.
 (3) Trees shall be planted at such a depth that the crown roots bear the same relative position to finish grade as they did to the soils where they were grown. Backfill after planting shall be compacted carefully into place without injuring the roots of the tree or breaking up the ball of earth surrounding the roots.
 3.03 TREE STAKING
 Amend the Standard Specifications Section 308-4.6.1 and 308-4.6.2 to read: Stake trees as per Parks and Recreation Department standard detail.
 3.04 WATERING
 Add the following to Standard Specifications Section 308-4.9.5:
 A. It shall be the contractor's responsibility to maintain a balanced watering program to ensure proper growth until final acceptance of the work.
 B. Immediately after planting, apply water to each plant. Apply water in a moderate stream in the planting hole until the material about the roots is completely saturated from the bottom of the hole to the top of the ground.
 C. Apply water in sufficient quantities and as often as seasonal conditions require to keep the planted areas moist at all times, well below the root system of plants.
 D. Irrigation:
 (1) Contractor shall properly and complete maintain the irrigation system. A balanced water program shall be maintained to insure proper germination and growth until final acceptance of the work. Plants which cannot be watered efficiently with the irrigation system shall be watered by means of a hose.
 (2) All controllers are to have each station individually adjusted on a weekly basis. System shall be set considering the application rate each area is capable of receiving. The system shall operate on short intervals, with the cycle repeating at a later time to reduce runoff.
 3.05 MAINTENANCE
 Amend the Standard Specifications Section 308-6 to read: All trees planted by the Contractor under this contract shall be maintained by him for a period of not less than one calendar year from the date of written acceptance for start of maintenance. Start of maintenance date will be confirmed in writing by the Park and Recreation Department.
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Street Tree Planting Page 2 Section 02480-1
 Add the following to Standard Specifications Section 308-6: Start of maintenance criteria:
 (1) Maintenance period shall not start until all elements of the project are completed in accordance with the contract documents. Projects will not be segmented into phases.
 (2) Written acceptance of the City must be obtained prior to the beginning of the maintenance period.
 (3) If the project maintenance fails to continuously meet standards required for start of maintenance, the project will be placed on extended maintenance. The required one year maintenance period will not resume until contractor has corrected all deficiencies.
 B. End of Maintenance:
 (1) On completion of the maintenance period and meeting of the criteria required for the start of maintenance, the City will inspect the project.
 (2) Deficiencies noted during inspection shall extend the maintenance period until all are corrected.
 (3) End of maintenance shall occur only on written acceptance by the City.
 C. During the maintenance period, provide all watering, weeding, fertilizing and cultivation, and spraying necessary to keep the plants in a healthy growing condition and to keep the planted areas neat, edged, and attractive. All trees shall be pinched pruned as necessary to encourage new growth and to eliminate weak branch growth. Old wilted flowers and dead foliage shall be immediately removed or cut off. Do no major tree pruning without proper approval of the City.
 D. After planting and during the maintenance period, in the event that trees exhibit any chlorosis symptoms, apply FE 100, Cal-Gro or equivalent at manufacturer's recommended rates.
 E. During the maintenance period, should the appearance of any plant indicate weakness, or should any plant be dying, that plant shall be replaced immediately with a new, healthy plant. At the end of the maintenance period, all plant materials shall be in a healthy growing condition and spaced as indicated on the plans.
 F. Damage to planting areas shall be repaired immediately and throughout the maintenance period.
 G. Any plants that do not show a prompt establishment shall be replanted at 30-day intervals until accepted by the Park Department Representative.
 (1) Depressions caused by vehicles, bicycles, or foot traffic shall be filled and leveled.
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Street Tree Planting Page 2 Section 02480-1
 SECTION 03355 - STAMPED CONCRETE
 PART 1 - GENERAL
 1.01 RELATED DOCUMENTS:
 The General and Special Provisions of the Specification as well as the "Standard Specifications for Public Works Construction", current addition, shall apply except as modified herein.
 1.02 SCOPE OF WORK:
 Exterior slabs as shown on drawings
 Forming
 Cement, finish
 Curing
 Placing of sleeves and drain lines under slabs
 1.03 QUALITY ASSURANCE:
 The work shall be performed by qualified personnel trained to obtain the textured finish specified herein. The contractor shall provide written evidence to the Park Department that the installer for this work has satisfactorily completed at least three installations.
 1.04 SAMPLE POUR:
 The contractor shall provide a sample pour on site of sufficient size, minimum 10 S.F., to demonstrate the required stamped concrete work, including integral color, wax curing and finishing compounds. A minimum period of 28 days will be required for adequate curing of the sample pour prior to inspection. Stamped concrete work shall not be performed prior to the inspection and written approval of the sample by the Park Projects Inspector. If not approved, additional sample panels will be required until approval is achieved. All other portions of the stamped concrete work shall match the color and finish of the approved sample pour.
 1.05 DEFECTIVE WORK:
 Defective sections shall be removed and replaced. Inconsistencies in color will be considered as defective work. No extension of time will be allowed for correcting defective work.
 1.06 INSPECTIONS:
 Inspections are required. Contractor shall call for inspection a minimum of 48 hours (two working days) prior to need.
 The contractor shall call for inspection at specific steps in the construction process including those points in time when:
 1) All sleeve and drainline installation is complete, but prior to backfill of trenches.
 2) All form work is placed and all subgrade work is complete, but prior to pour
 Contractor shall notify the Park Projects Inspector, (714) 782-5223, a minimum of 48 hours prior to pouring any concrete.
 Any work covered prior to inspection shall be opened to view by the Contractor at his expense if so directed by the Inspector.
 PART 2 - MATERIALS
 2.01 All materials shall conform to Section 201 of the Standard Specifications, except as modified in the following subsections.
 2.02 CONCRETE:
 Concrete shall conform to Concrete Class Use Table, Section 201-1, of the Standard Specifications and shall be a 5-sack mix, with a maximum 4-inch slump, 2,000 pounds per square inch ultimate compressive strength at 28 days. No admixtures, other than integral color admixture, will be allowed.
 2.03 INTEGRAL COLOR:
 The required color shall be O-24 Charcoal by L. M. Scofield, or City approved equal.
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Street Tree Planting Page 4 Section 02480-1
 PART 3 - EXECUTION
 3.01 GENERAL:
 All work shall conform to the requirements of Section 303 of the Standard Specifications.
 Install concrete and cement finish work true to lines, dimensions and levels.
 Color conditioning admixture shall be added to the concrete using the integral color Method 'B' per Std. Spec's Section 303-6.3.2(a).
 3.02 PLACING CONCRETE:
 Transport, place and spread in a manner to prevent segregation of aggregate. Reinforcing shall be supported by metal or plastic chairs; concrete supports shall not be used. Reference Section 303-1.7.1, 303-6.2.
 3.03 CONCRETE FINISH:
 While the concrete is still in the plastic stage of set, the forming tools shall be applied to make the patterned surface. The pattern used shall be Random Ashlar
 All per Standard Spec's Section 303-6.4.
 After finishing, apply color hardener.
 A pigmented, heavy duty wax curing and finishing compound shall be applied. The wax compound in the matching color shall be applied uniformly in accordance with manufacturer's printed instructions.
 The sealed surface shall be polished using a fine brush which removes residual dust from the surface.
 Protect all finished concrete from graffiti. Contractor shall be responsible for providing concrete watchmen. A graffiti finish will not be acceptable.
 Remove and replace defective concrete with new materials. Permission to patch any defective area shall not be a waiver of the Park and Recreation Department's right to require complete removal of defective work if patching does not restore quality and appearance of work.
 No advertising impression, stamp, or mark of any description other than the specified pattern will be permitted in the cement finish.
 3.04 CURING:
 Per Standard Specification Section 303-6.5.
 END OF SECTION
 MH/03830/c
 09/12/89

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FOR CONSTRUCTION 2/28/91

CITY OF RIVERSIDE		PUBLIC WORKS DEPARTMENT	
APPROVED BY	DATE	APPROVED BY	DATE
PINCIPAL ENGINEER	3/18/91	<i>[Signature]</i>	3/14/91
PARK DEPARTMENT	12/24/89	PUBLIC WORKS DIRECTOR	
TRAFFIC DIVISION			
CHIEF P. W. ENGINEER	3/18/91		
DESIGNED BY	APPR. DATE	DATE	
ALP	ALP	ED	3/14/91
DRAWN BY	CHECKED BY	PLANNING	

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LUSK HIGHLANDER
MEDIANS
LOCHMOOR DRIVE AND
FAIR ISLE DRIVE

R-2941-L
 ACCOUNT NO. 002705
L-7
 SHEET 7 OF 7
 HORIZ. SCALE: 1"=10'
 VERT. SCALE: 1"=10'
 INDEXED 4-16-91



PC 2215 - M