

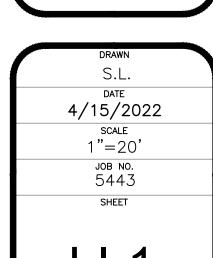
REVISIONS

THE SECTION OF THE SE

S GN ect #1549 DE

BUILDING





IRRIGATION SPECIFICATIONS

SCOPE OF WORK

- A. Provide all permits, labor, materials, transportation, and maintenance required to furnish and install a complete irrigation system as shown on plans and described herein.
- B. The intent of these plans and specifications is to provide an irrigation system complete and operable in an efficient and satisfactory manner, providing complete and even coverage.
- C. The Contractor shall inspect the site and check all finish grades within the work area to insure proper soil depth for the pipes, to check dimensions. and to verify the source and size of water supply.

- A. All materials and equipment shall be of the type and size indicated on the plans unless permission to change is granted by the Owner's representative. Materials are to be in new and perfect condition. All materials required but not specified on the plans shall be provided by the Contractor.
- B. Plastic pipe and fittings shall be 100% virgin PVC, well-formed, free of blisters, cracks, holes, and foreign materials, wrinkles, and dents.
- C. Control wire between remote control valves and controller shall be 24-volt, solid copper wire, number 14 UF (minimum size), direct-burial wire (UL-listed). Use white wire for common, blue for lawn systems, and black for shrub systems.

III. <u>INSTALLATION</u>:

A. General:

- 1. Do not willfully install the irrigation system as shown on the plans when it is obvious that obstructions, grade differences, or measurement discrepancies exist that may not have been considered in the design. Immediately report such differences to the Owner's representative. In the event that this notification is not performed, the Irrigation Contractor shall assume full responsibility for any revision necessary.
- 2. Irrigation plans are diagrammatic and approximate. All valves shall be located in planting areas. Mainlines and laterals shall be placed in the same trench and in planting areas wherever possible. Provide minimum horizontal clearance of 4 inches between parallel pipes.
- 3. All equipment shall be installed as detailed on the plans. If the plans or specifications do not thoroughly describe the methods to be used, Contractor shall follow manufacturer's installation instructions.
- Verify exact locations of all underground utilities prior to trenching. 2. Trenches shall be cut to the required grade to provide uniform support for the full length of the pipe and to provide minimum coverage as shown in detail.
- 3. Initial backfill to be fine granular material with no foreign objects larger than 1/2 inch. Tamp moist backfill to compact and conform to adiacent grades without sunken greas or other irregularities.
- 4. Trenches under a.c. paving shall be backfilled with sand. 5. Backfill shall be compacted to the same density as adjacent soil. If settlement occurs, Contractor shall make any adjustments in pipes, valves, heads, finish grades, or sod necessary at no extra cost.
- C. Pipe: 1. All piping, PVC electrical sleeves, etc., under paving shall be installed and tested prior to paving work. No tees, ells, or other turns in piping
- allowed under paving. Cap all ends hand—tight prior to backfill. 2. All mainlines shall be capped and pressure—tested at system design pressure for one hour. Any leaks found shall be corrected by removing the leaking pipe or fittings and replacing with new materials, and then re-testing. All tests shall be observed and approved by Owner's
- Representative and shall be completed prior to backfilling. 3. Wrap all galvanized pipe and fitting threads with teflon tape. D. Backflow Preventer: Contractor shall verify that backflow prevention device(s)

specified meet(s) local plumbing & health code requirements. E. Bubbler Heads:

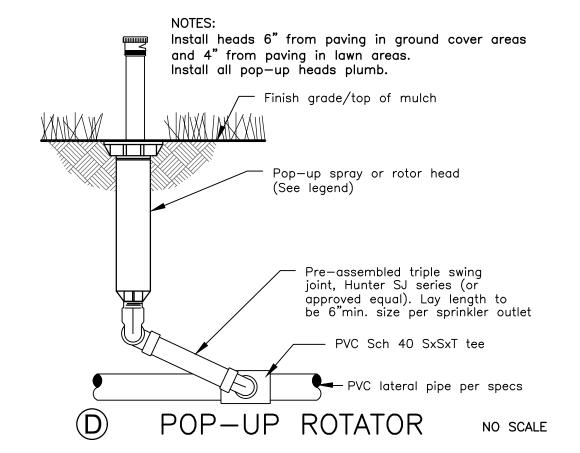
- Install all heads on double—swing joints.
- 2. Prior to installing heads, all laterals shall be flushed out with a full head of water. 3. Risers to bubbler heads shall be set perpendicular to finish grade.
- F. Controller:
- 1. 120—volt service and hookup to controller shall be provided by others.
- 2. Automatic controller shall be set plumb. 3. Bundle and tape wires every 10 feet.
- 4. Wire connections shall be made with Scotch-Lok Wire-Sealing Packs #3576, or approved equal.

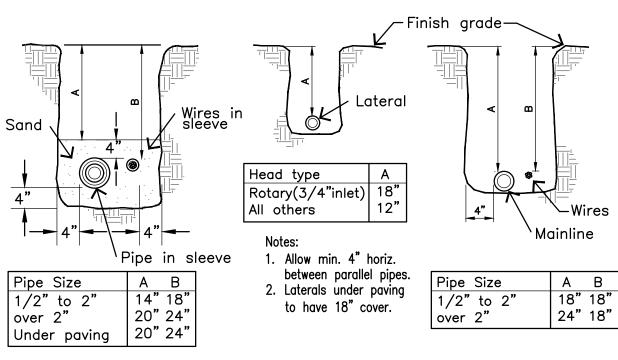
G. Drip Line Irrigation Systems: Refer to legend and details for materials.

- 2. Approximate drip line tubing runs are shown on the plan. All drip line systems shall be installed per the mfr's instructions. This includes, but is not limited to, soil type, plant type, slope locations, typical tubing layout, supply headers, flush headers, air-release valves, flush valves, soil staples, operation indicators, etc.
- 3. PVC lateral piping from valve to drip line areas are shown schematically on plan. All supply headers and flush headers shall be PVC per legend, unless otherwise noted.
- 4. Tubing shall run generally parallel to the long axis of the planting areas. The exception is on slopes, where tubing shall run parallel to the slope contours.
- 5. Flush valves shall be installed at the low points of zones. Air—release valves shall be installed at the high points. Refer to mfr's directions for quantity of flush valves and air-release valves for each zone/valve.
- 6. Drip line tubing shall be installed on finish grade, stapled down, and covered with mulch per planting plan, unless noted otherwise.
- 7. Each drip line zone/valve shall include an operation indicator shall be installed at the farthest point away from the zone's valve.
- IV. <u>CLEAN-UP</u>: Clean up site as each portion of work progresses. Refuse and excess dirt shall be removed from the site; all walks and paving shall be swept and any damage to others' work shall be repaired.

V. INSPECTIONS, AS-BUILTS, GUARANTEES

- A. All inspections shall be made by Owner's Representative, as follows: (Give 48-hour notice prior to inspection)
- 1. Open trenches.
- Pressure tests.
- 3. Coverage tests. B. Contractor shall furnish to Owner a complete "as-built" drawing showing exact locations of all items installed, dimensioned in two directions from permanent structures on site including the following items:
- Gate valves.
- 2. Routing of all main lines.
- Connections to existing water lines.
- 4. Routing of control wires.
- 5. Irrigation control valves. C. Contractor shall guarantee irrigation system for one year against defective equipment, installation deficiency, and all problems not related to vandalism. Guarantee period shall commence on date of final acceptance of the work. Any operational difficulties which, in the opinion of the Owner's Representative, are due to inferior materials and/or workmanship, shall be immediately corrected by the Contractor at no additional cost to Owner.
- VI. MAINTENANCE: Complete system shall be maintained 60 days after completion of planting. System shall be flushed and automatic controller reset at completion of maintenance period.





LATERAL PIPES MAINLINE & CONTROL WIRES MAINLINE & CONTROL WIRES in rocky soil & under paving TRENCHING DETAIL

—Finish grade

— PVC mainline

— Common brick (4 reg'd)

10" round valve box

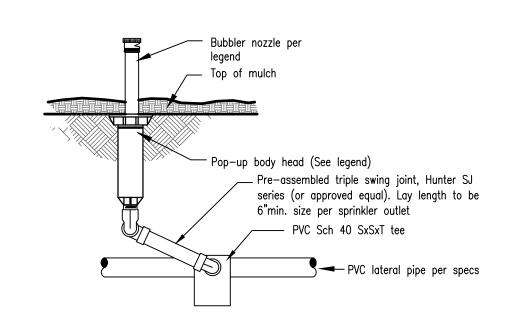
Ball valve

Use Teflon tape on all male pipe threads.

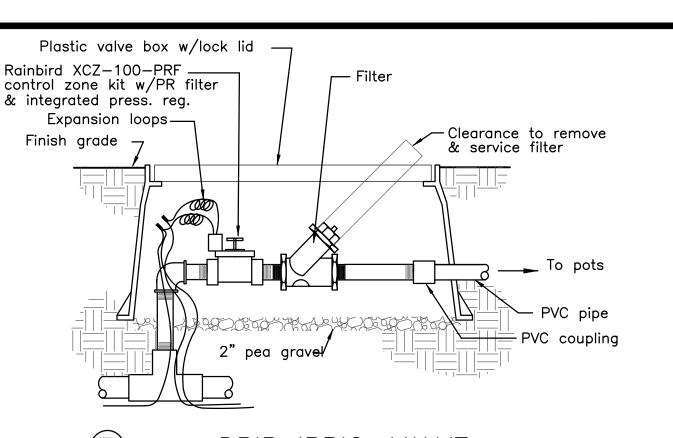
NOTE:

w/locking lid marked 'BV'

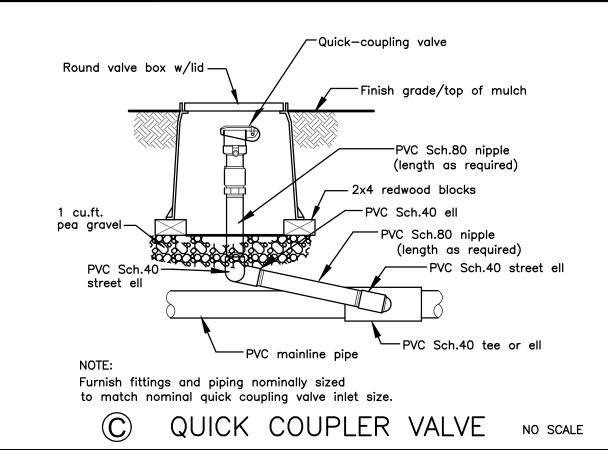
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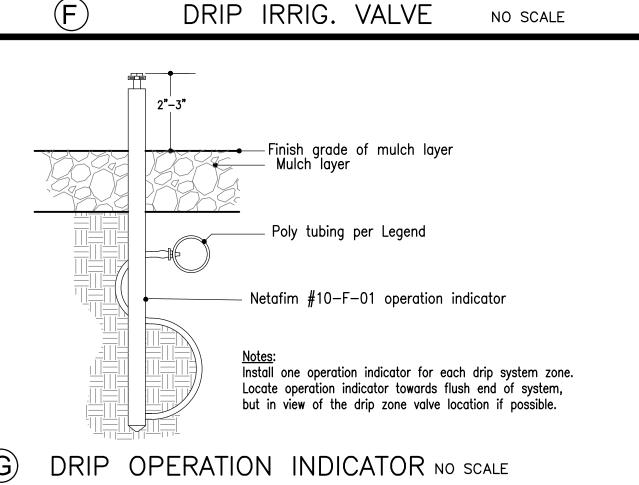
 \bigcirc STREAM BUBBLER

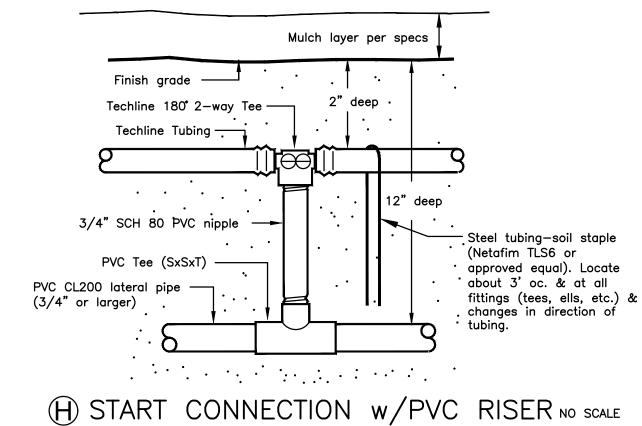


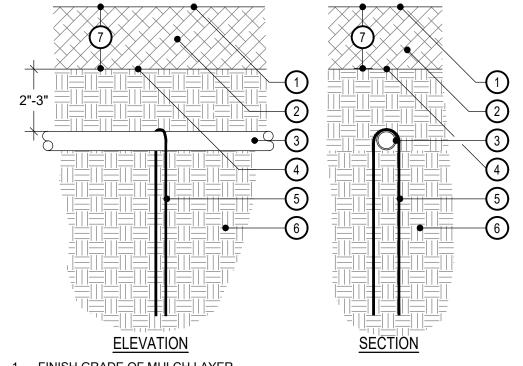
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BALL VALVE DETAIL



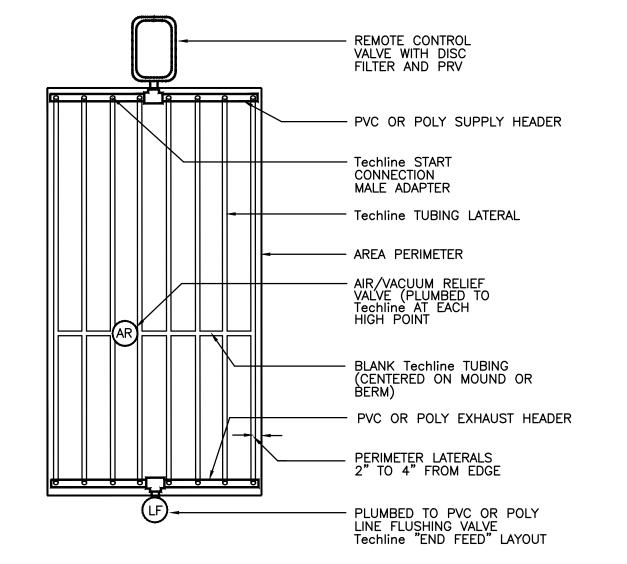




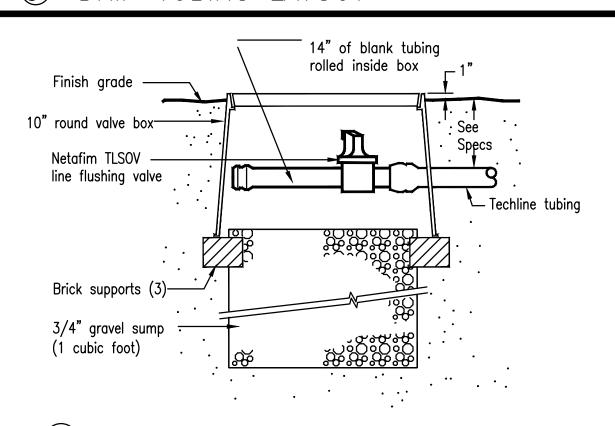
- 1. FINISH GRADE OF MULCH LAYER MULCH TOP DRESSING PER PLANTING PLAN
- POLY TUBING PER IRRIGATION LEGEND
- 4. FINISH GRADE STEEL TUBING-SOIL STAPLE (NETAFIM TLS6 OR APPROVED EQUAL)
- NATIVE SOIL 7. DEPTH OF MULCH PER PLANTING PLAN OR SPECIFICATIONS

LOCATE STAPLES ALONG TUBING AT ABOUT 5' O.C. AND AT ALL FITTINGS (TEES, ELLS, ETC.) AND CHANGES IN DIRECTION OF TUBING. BURY TUBING PER THE IRRIGATION PLAN / NOTES.

BURIED DRIP TUBING NO SCALE



J DRIP TUBING LAYOUT



(K) MANUAL FLUSH VALVE

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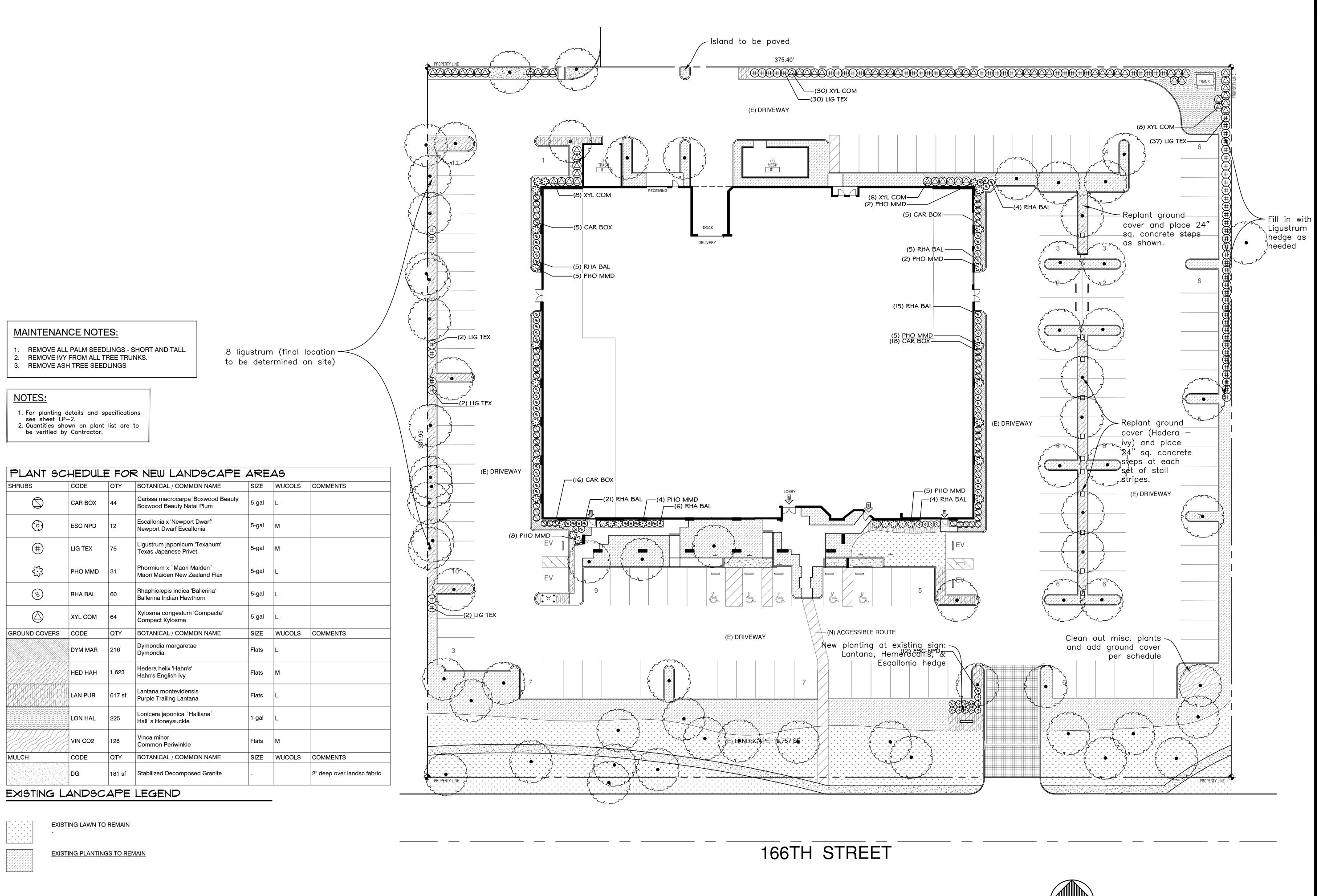
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SPECIFICA જ IRRIGATION DETAILS STREET, .DING BUIL



4/15/2022 AS SHOWN 5443



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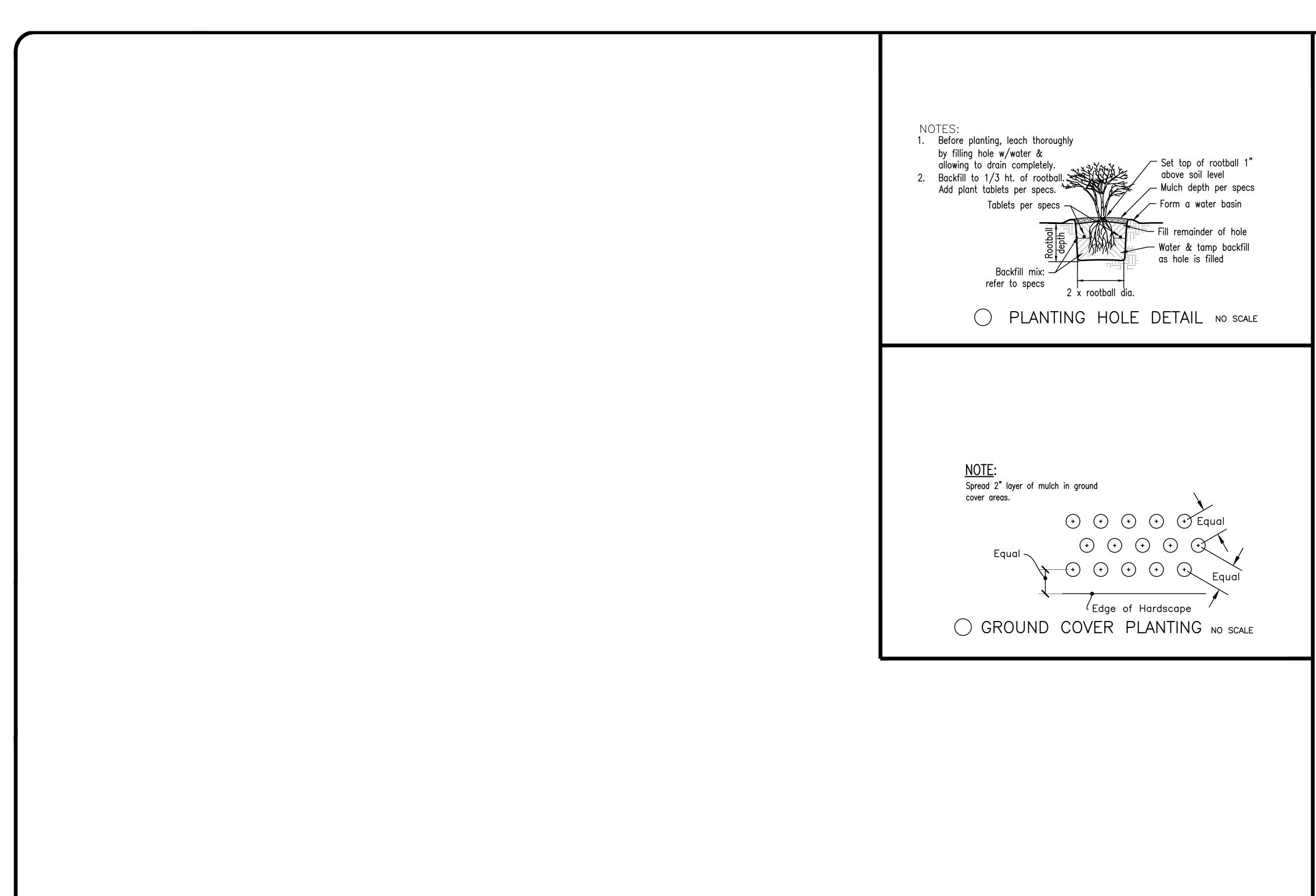
ROYAL Sylvia E. Lyons

PLANTING PLAN BUILDING



S.L. 4/15/2022 1"=20' јов no. 5443

LP-1



PLANTING SPECIFICATIONS

I. PREPARATION:

A. Coordination: All irrigation work shall be completed and approved by the Owner's representative prior to starting planting work.

B. Soil Test: contractor is to supply complete soil test, including pH, nutrients, texture, salinity, etc., as per Note II A-2 below.

II. PLANTING:

A. Soil Preparation:

1. Cultivate all lawn and planting areas (except slopes) to a depth of 6 inches. Dispose of all debris and rocks over 3 inches in size.

2. Soil amendments and quantities shall be determined by soil analysis. The Contractor shall take 2 samples from 2 different areas 6 to 12 inches deep and submit these to a local agricultural soil testing laboratory, who shall test for nutrients, pH, soil texture, and salts. A copy of the test results and amendment recommendations shall be sent directly to the Owner's representative. For bidding purposes, the following shall be used: (quantities per

1000 s.f.)

4 c.y. composted nitrogen—stabilized redwood or fir shavings 150 lbs. "GroPower Plus" (5-3-1) soil conditioner 100 lbs. agricultural gypsum

3. Spread soil amendments evenly over all areas and till into top 4 inches of soil.

1. Grade all lawn and planting areas to smooth, uniform levels or slopes without abrupt changes of surface. Soil areas adjacent to buildings shall be graded to allow free flow of water to drainage devices.

2. Finish grade after adding soil amendment and settlement shall be one inch below curbs, headers, and paving in lawn areas, and two inches below in

C. Shrub and Tree Planting:

1. Planting pits shall be as shown on detail. Backfill mix shall be determined by soil test per section A-2 above. For bidding purposes, the following mix shall

6 parts by volume rock—free on—site soil 4 parts by volume composted nitrogen—stabilized redwood or fir shavings

2. Plant tablets shall be installed in plant pits as shown on detail. Tablets shall be Gro-Power 7-gram tablets at the following rates:

> 1-gallon plant = 2 tablets5-gallon plant = 6 tablets

3. Water each plant immediately after planting. Apply water in such a manner as to not disturb backfill and in such a quantity that all materials in hole are

4. Trees shall be staked per detail. Remove all nursery stakes and ties.

D. Ground Cover Planting:

1. Grade out earth berms around shrubs and trees before planting ground cover. 2. Spacing and varieties of ground covers shall be as shown on plan. Soil shall be firmly pressed around each plant and excess soil removed from the crown.

3. Each section of ground cover shall be thoroughly watered immediately after

4. All ground cover areas shall be treated with a pre-emergent per mfr's instructions before final inspection. Weed all areas prior to application.

5. Spread mulch 2 inches deep in all planting areas.

III. MISCELLANEOUS:

A. Cleanup: Upon completion of all planting work and before final acceptance, Contractor shall remove all material and debris resulting from his work. Remove all tags, labels, nursery stakes, and ties from plants. All paved areas shall be swept clean and site left in a neat and acceptable condition as approved by Owner's

B. Guarantees: Contractor shall guarantee all plants, 15-gallon and larger for a period of one year. All other plants shall be guaranteed for a period of 90 days. Plants which die or lose more than 30% of their original leaves during this period shall be replaced by the Contractor. Replacements shall be made within 7 days of

written notification to Contractor. C. Maintenance:

1. Entire project shall be satisfactorily maintained for a period of sixty (60) days

prior to final approval. 2. 30 days after planting, fertilize all lawn and ground cover areas with 16-6-8commercial fertilizer at the rate of 6 lbs. per 1,000 s.f. (apply per mfr's instructions.).

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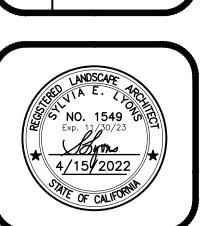
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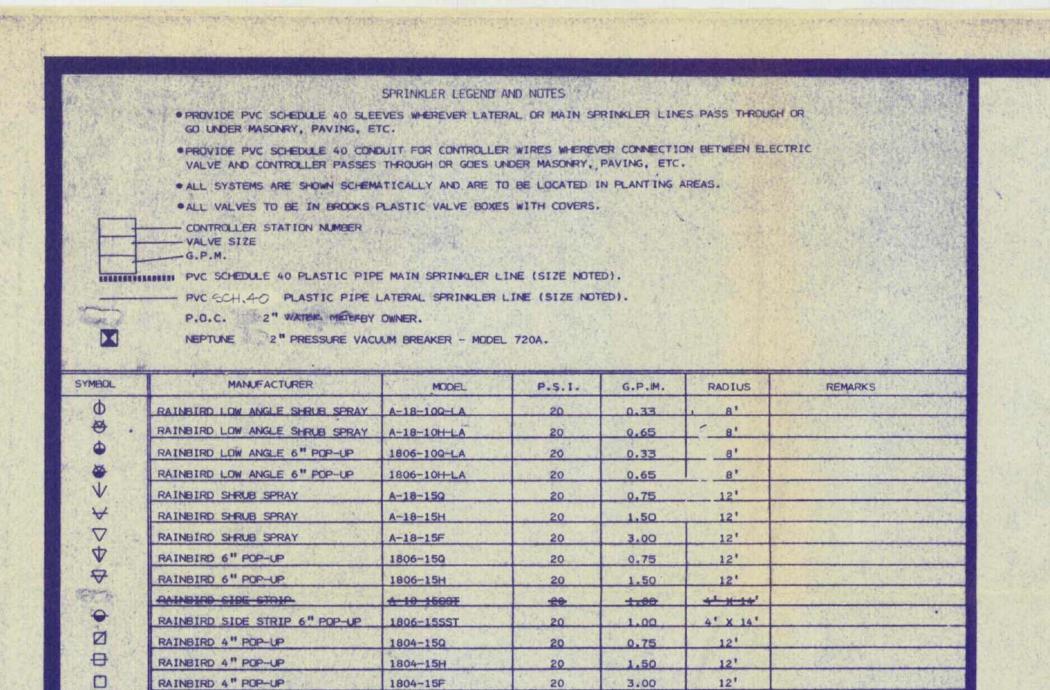
SPECIFICATIONS

90703 CERRITOS, PLANTING

BUILDING



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S.L.	
DATE	
4/15/2022	
SCALE	_
AS SHOWN	
JOB NO.	_
5443	
SHEET	



LOCATE IN VALVE BOX

PRESSURE COMPENSATING

City of Cerritos Plan Approval

all irrigation work to be Date

ISSUANCE OF PERMIT(S) SHALL NOT BE

COMPLIED WITH PRIOR TO ISSUANCE OF

OCCUPANCY.

CONSTRUED AS FINAL APPROVAL OF THIS DEVELOPMENT. ALL APPLICABLE CONDITIONS OF APPROVAL, CERRITOS REGULATIONS AND DEVELOPMENT STANDARDS MUST BE FULLY

WALL MOUNT

RAINBIRD ELEC. REMOTE VALVE

IRRI-TROL AUTO. CONTROLLER

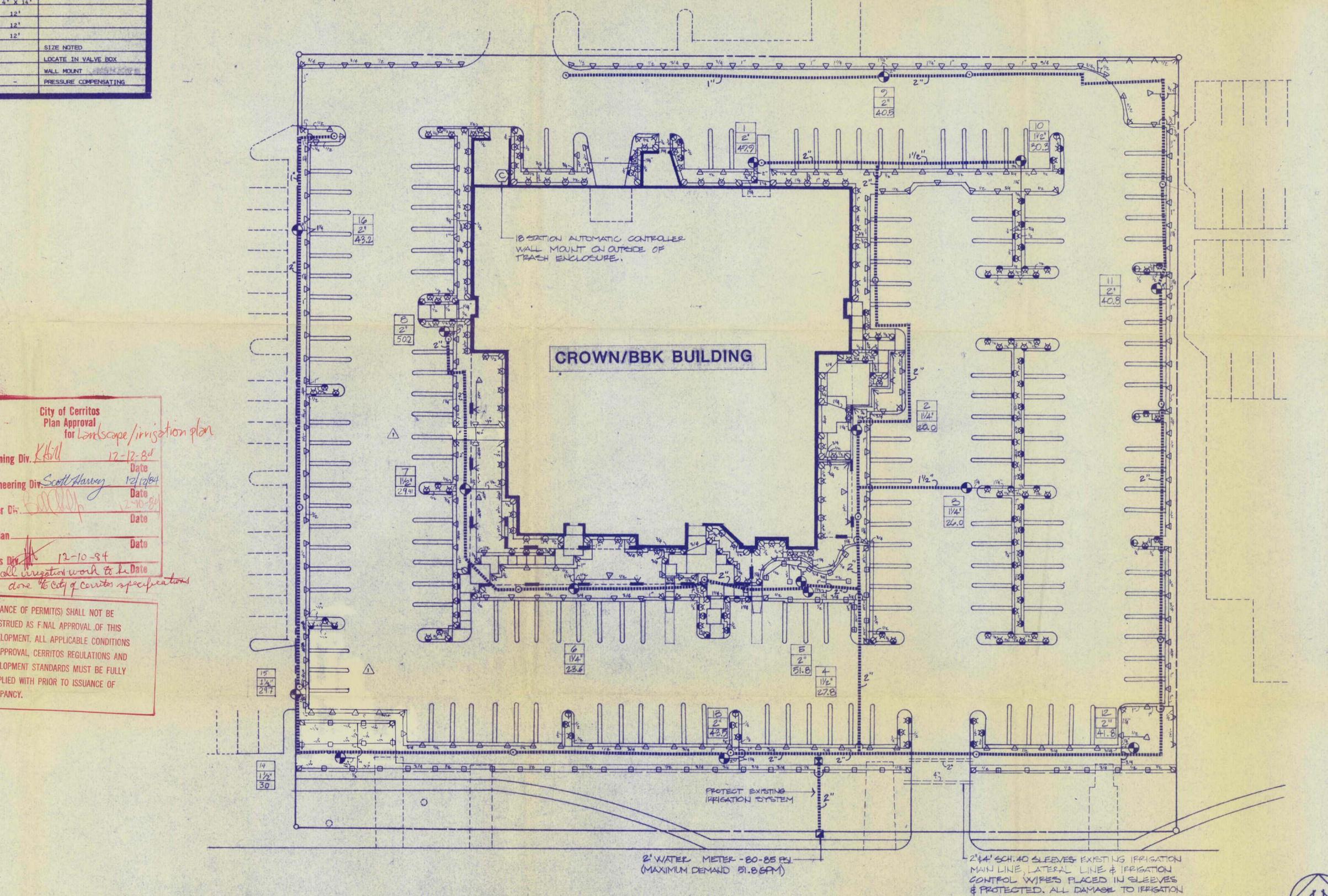
RAINBIRD QUICK COUPLER

RAINBIRD FLOOD BUBBLER

EFA SERIES

44-44K

MC-18



SHEET INCLUDED FOR REFERENCE ONLY

SYSTEM TO BE PERAIRED WITHIN

24 HPS.

SCALE: |=20'-0"

SHEET

900