

HAW. IM-STP-0750(10) 86 1999 PLAN VIEW SET CROWN OF ROOTBALL FLUSH WITH FINISH GRADE. - BACKFILL MIX TO BE: 1 PART SOIL AMENDMENT PART MANURE SINGLE ROW HEDGE 3 PARTS SOIL BY VOLUME ON CENTER SPACING, SEE SPECIFICATIONS SEE PLANTING PLAN - 4" BERM AROUND PLANTING PIT TO BE REMOVED AT END OF MAINTENANCE PERIOD. -FINISH GRADE. DEPTH OF ROOT ROOTBALL ROUGHEN SIDES OF HOLE BALL AND ROOTBALL. UNDISTURBED SUBGRADE. 2X ROOTBALL DIAMETER

FED. ROAD DIST. NO.

FISCAL SHEET TOTAL YEAR NO. SHEETS

SHRUB PLANTING DETAIL NOT TO SCALE

# PLANT LEGEND

QTY	UNIT	DESCRIPTION	REMARKS
9	ea	MONKEYPOD TREE	Relocate existing trees to temporary nursery prior to grading and to final position following grading.
322	ea	PINK HIBISCUS	3 gallon, 30" height, species to match existing.
26,0	00 sf	WEDELIA TRILOBATA	Rooted Cutting, triangular spacing, 10" on center.
Plant	ting P	lans shall have precede	Legend are approximate.  nce over the Plant Legend.  uantities to complete work

## STAINLESS STEEL TIE WIRES - FINISH GRADE THREADED COUPLING FLEX RISER - TEE OR ELL - LATERAL LINE

TREE TRANSPLANTING DETAIL

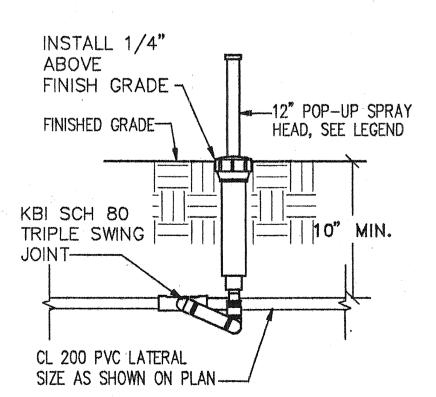
#4 REBAR STAKE MIN. 24" LONG

GRAY PVC RISER

-SHRUB SPRAY NOZZLE

NO SCALE

## SPRAY HEAD ON RISER NOT TO SCALE



NOTE: CONTRACTOR TO SEE MANUFACTURER'S INSTRUCTIONS FOR INSTALLING AND ADJUSTING IRRIGATION HEADS.

POP-UP SPRAY HEAD NOT TO SCALE

## IRRIGATION LEGEND

shown on the Planting Plans.

SYMBOL	DESCRIPTION	MANUF.	MODEL NO.	RAD	GPM	PSI	SEE SHEET / DETAIL
Δ	SHRUB SPRAY NOZZLE ON RISER Half Circle Pattern	TORO	570S-15H	15'	1.65	30	SPRAY HEAD ON RISER
	,						,
	GEAR DRIVE ROTOR HEAD ON HIGH POP—UP BODY Part Circle Pattern	TORO	S700HP-PC-7.5-LA	37'	5.92	30	12" POP UP SPRAY HEAD
-	EXISTING SPRINKLER HEAD TO REMAIN	·			,		
SYMBOL	DESCRIPTION				A. gapsonaraniaudinustysystysynd	kriikanii dapayaaneeneeseeseeseeseeseeseesee	
	EXISTING CONTROLLER TO REMAIN						
$\bigcirc$	EXISTING CONTROL VALVE TO REMAIN						
	EXISTING MAIN LINE TO REMAIN			<del>litery grave on a consistent front fron</del>	may mit mariticum; dann a mariemetera subsequen	<del>descentar adjective con acc</del>	
	EXISTING LATERAL LINE TO REMAIN						
-4444	EXISTING LATERAL LINE TO BE CAPPED OFF						
17	NEW LATERAL LINE	CLASS 2	00 PVC				

## TREE PROTECTION NOTES

- 1. All existing trees which are not designated to be relocated shall remain and shall be protected during construction. Contractor shall construct a 6' high temporary fence to enclose the area under the existing tree canopy. In no case shall any vehicle or equipment be permitted to be stored within the enclosed area. The fence shall remain in place until final planting operations are completed.
- 2. No Storage of materials or topsoil shall be allowed within the fenced tree protection area.
- 3. Any trenching within the rootzone of any tree shall be done by hand. Any tree roots encountered smaller than 2 inches shall be cut clean with approved 3. It is the responsibility of the Contractor to provide and install the tree pruning tools. Tree roots 2 inches and larger shall not be cut unless directed the Engineer. Route pipes to alternate location to avoid conflicts.
- 4. Any grading within the dripline of existing trees shall be limited to 6 inches of cut or fill from the original grade.
- 5. Contractor shall be responsible for replacement of any existing tree damaged due to operations related to construction. Replacement trees must be of same species and size and must meet the approval of the Engineer.

#### IRRIGATION NOTES

- 1. Contractor shall inspect the site conditions prior to commencing with the work. Any discrepancies or unusual conditions shall be brought to the attention of the Engineer. By commencing with the work, The Contractor accepts existing conditions and responsibility for maintaining those conditions.
- 2. The irrigation system shoen on the plans is diagrammatic and subject to minor adjustments due to unanticipated field conditions. Adjust all systems to assure proper coverage and to avoid any conflicts between irrigation systems, planting, utilities and architectural elements.
- 3. Test and verify the operation of the existing irrigation system. Any discrepancies shall be brought to the immediate attention of the Engineer.
- 4. The irrigation systems are designed to operate at the pressure listed for the sprinkler types listed on the Irrigation Legend. The Contractor shall adjust all valves to ensure that the furthest sprinkler head on each circuit operates at the pressure shown.
- 5. Contractor shall install all equipment according to local codes and per manufacturer's specifications.
- 6. Flush and clean out all cirsuits prior to installation of nozzles.
- 7. Coordinate all work on the existing irrigation system with the current landscape maintenance contractor(s) of the properties.

## GENERAL PLANTING NOTES

- 1. All work shall performed by persons familiar with planting work and under the supervision of a qualified planting foreman. Work in progress is to be coordinated with the Engineer as areas become available for planting.
- 2. Contractor shall be responsible for verifying all quantities, measure ments and site conditions including the location of all on-site utilities and irrigation piping and wiring before commencing with the work. Contractor shall also be responsible for the repair of any utilities damaged due to operations associated with construction.
- necessary landscape materials in quantitites sufficient to fulfill the desgin at the spacing specified and as described on the Plan.
- 4. Shrub and tree pits shall be dug prior to moving plants to their respective locations. All tree pits shall be water tested prior to planting to assure that water will drain. Notify the Engineer in writing of all soil or drainage conditions wacountered during planting operations which the Contractor considers detrimental to growth of plant material.
- 5. The Landscape Contractor shall take all reasonable precautions to coordinate work and to minimize damage to completed grading, irrigation, and related work.
- 6. Guy wires, stakes and flagging shall be maintained and replaced if necessary by the Contractor unitl the tree is able to stand by itself at which time the Contractor shall remove these materials from the
- 7. No. 9 gauge galvanized steel wire shall be used for auying all relocated trees.
- 8. All planting, backfill and guying materials shall be considered incidental to planting and transplanting and will not be measured for payment



Signature IF Nov. 97

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

CONSTRUCTION NOTES

KUNIA ROAD WIDENING; AND THIS WORK WAS PREPARED BY H-1, KUNIA I.C., RAMP KO WIDENING ME OR UNDER MY SUPERVISION. F.A.I. PROJECT NO. IM-STP-0750(10)

SHEET No. 2 OF SHEETS

DATE: FEBRUARY, 1999

SPECTOR FOR TOP A CONTROL

SCALE: AS NOTED



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