

IRRIGATION HEAD KEY

KEY	RAIN BIRD
SPRAY HEADS	1800 SERIES
X ADJ	15Q
X Q	15120
X 120	15H
X H	15240
X 240	15TQ
X TQ	15F
X F	15EST
X EST	15CST
X CST	95ST
X 95ST	

NOTE: L SUFFIX INDICATES LOW GALLONAGE NOZZLE

BODY STYLE
 S SHRUB HEAD ON RISER
 P POP-UP (6")
 HP HIGH POP-UP (12")

ALL SPRAY HEADS ARE TO BE 6" POP-UP UNLESS OTHERWISE NOTED.

- ROTARY HEADS**
- RAINBIRD T-BIRD SERIES T-30-25, 12" SHRUB ROTOR
 - NELSON 6012-ADV # 7 NOZZEL

TREE BUBBLER
 ▲ TREE BUBBLER ON FLEX PVC, BY HARDIE MODEL #533

IRRIGATION LEGEND

- PROPOSED IRRIGATION MAIN LINE - SIZE AS NOTED ON DRAWINGS - RUBBER GASKETED
- EXISTING IRRIGATION MAIN LINE - SIZE AS NOTED ON DRAWINGS - RUBBER GASKETED
- IRRIGATION SLEEVES ARE INDICATED TO SPECIFIC USES AS FOLLOWS:
 IRRIG - IRRIGATION LINES
 PULSE - IRRIGATION PULSE WIRES
 MAIN - IRRIGATION MAIN LINE
- AUTOMATIC SECTION VALVE - NELSON # 7951 ANGLE MOUNT
- ISOLATION GATE VALVE - AT LINE SIZE
- HOSE BIB: 3/4" HOSE BIBB - ON 3/4" TAP. LOCATE WITHIN RECTANGULAR VALVE BOXES.
- RAINBIRD RC-1260C, 12 STA. CLOCK WITH LPP-K PRIMARY SURGE PROTECTION KIT, AND RAH-CHECK AUTOMATIC RAIN SHUT-OFF.
- WIRE CLOCKS AS FOLLOWS:
 CLOCK A: (EXISTING) STA. AB, CH, J, P, Q, R.
 CLOCK B: (EXISTING) STA. D, E, F, G, K, L, M, N, O.
 CLOCK C: (EXISTING) STA. S, T, U, V, W, X.
 CLOCK D: STA. Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ.
- VALVE NUMBER: 11
 VALVE SIZE: 3/4" SECTION GPM

PUMP STATION AT CISTERN

SHELL PATH

IRRIGATION NOTES:

- ALL IRRIGATION LAYOUT HAS BEEN DESIGNED TO PROVIDE 100% COVERAGE WITH A MINIMUM OF 90% OVERLAP. ANY CHANGES MADE IN HEAD LAYOUT DUE TO FIELD CONDITIONS SHALL BE IN ACCORDANCE WITH THESE STANDARDS.
- ALL VALVES, SPLICES WITHIN VALVE CONTROL LINES, AND QUICK COUPLERS SHALL BE LOCATED WITHIN NDS VALVE BOXES AS FOLLOWS: SECTION VALVES, QUICK COUPLERS AND/OR HOSE BIBBS - 10" CIRCULAR VALVE BOX MODEL NUMBER NDS #112BC; GATE VALVES AND SPLICES - 7" CIRCULAR VALVE BOX MODEL NUMBER NDS #108BC; FILTERS AND OTHER INSTALLATIONS REQUIRING MORE SPACE - RECTANGULAR 12"x17" MODEL NUMBER NDS #112BC.
- VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. MAIN LINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE PROJECT CONSTRUCTION MANAGER AND THE LANDSCAPE ARCHITECT.
- ALL PRESSURIZED MAIN LINES UNDER ASPHALT PAVEMENT SHALL BE WITHIN SLEEVES AS NOTED. WHERE ELECTRIC OR HYDRAULIC VALVE CONTROL LINES PASS THROUGH A SLEEVE WITH OTHER MAIN OR LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE, SMALLER CONDUIT.
- THE CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR ALL SLEEVING.
- ALL HEADS WITHIN TURF AREAS SHALL BE MOUNTED ON MINIMUM 18" LENGTHS OF FLEXIBLE PVC. HEADS WITHIN TURF AREAS ADJACENT TO VEHICULAR CIRCULATION AREAS AND NOT PROTECTED BY VERTICAL CURBS SHALL BE SET 6" INSIDE TURF FROM EDGE OF PAVEMENT, UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT.
- WHERE SHRUB HEADS HAVE BEEN CALLED FOR WITHIN GROUND COVER AREAS, RISERS SHALL BE SET 6" ABOVE HEIGHT OF PLANTED MATERIALS AND PAINTED FLAT BLACK WITH A PAINT WHICH ADHERES WELL TO PVC. SHRUB HEADS WITHIN OTHER SHRUB AREAS SHALL BE SET 4" ABOVE FINISH GRADE.
- CONTRACTORS ARE ADVISED TO REFER TO THE SPECIFICATIONS, CONTRACT DOCUMENTS, AND PLAN SHEETS FOR A MORE DETAILED DISCLOSURE OF PERFORMANCE STANDARDS AND REQUIREMENTS.

- LOCATE ALL VALVES IN PLANTING BEDS WITH A MINIMUM OF 3'-0" FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. PIPE SIZES ON EITHER SIDE OF SECTION VALVES CONNECTING MAIN LINE TO SECTION LATERAL SHALL BE ONE (1) PIPE SIZE LARGER THAN VALVE SIZE.
- ALL UNSIZED PIPE SHALL BE 1/2" UNLESS OTHERWISE NOTED.
- EACH TREE AND PALM (AS SHOWN ON THE PLANS) SHALL HAVE ONE (1) ADJUSTABLE FLOOD BUBBLER (SEE IRRIGATION HEAD KEY FOR SPECIFICATION). SUCH HEADS SHALL BE ON MINIMUM 5'-0" LENGTH OF FLEXIBLE PIPE TO ALLOW ITS POSITIONING AT THE TREE. LOCATE BUBBLER ON THE UPHILL SIDE OF TREES ON ALL SLOPES.
- NUMBER THE TOP OF ALL VALVE BOX LIDS WITH MINIMUM 1" HEIGHT BLACK LETTERS TO CORRESPOND TO AUTOMATIC AND GATE VALVE DESIGNATIONS. ALL HOSE BIBB VALVE BOXES SHALL BE LABELED IN A SIMILAR MANNER WITH THE DESIGNATION "HB". LETTER OUTSIDE OF TIMECLOCK CABINETS TO CORRESPOND WITH IRRIGATION CLOCK PROGRAM DESIGNATION.
- ALL 24 VAC WIRING SHALL BE UF DIRECT BURIAL COPPER WIRE AS FOLLOWS:
 PULSE WIRES - #14
 COMMON WIRES - #12
- EACH SECTION VALVE SHALL HAVE A SEPARATE PULSE WIRE RUNNING FROM CONTROLLER TO VALVE. CONTROL WIRING FOR VALVES SHALL BE LAID IN TRENCHES BENEATH MAINLINE.
- DURING INSTALLATION AND UPON COMPLETION OF THE IRRIGATION SYSTEM VALVES SHALL BE WIRED TO CONTROLLER STATION AS PER THE IRRIGATION PROGRAM.
- EACH SECTION VALVE SHALL HAVE A SEPARATE PULSE WIRE RUNNING FROM TIMECLOCK TO VALVE. CONTROL WIRING FOR VALVES SHALL BE LAID IN TRENCHES BENEATH MAINLINE. ONE (1) FOOT BELOW SITE FINISH GRADE, AND ABOVE ALL MAINS, THE IRRIGATION CONTRACTOR SHALL INSTALL A COLOR CODED METAL DETECTABLE MARKING TAPE WHICH CLEARLY NOTES: "CAUTION: IRRIGATION LINE BURIED BELOW." TAPE AS MANUFACTURED BY LINEGUARD, INC., WHEATON, IL 60187, OR EQUAL.
- RUN TWO SPARE PULSE WIRES FROM CLOCK LOCATION TO VALVE "DD". CAP AND COIL IN VALVE BOX.

IRRIGATION SCHEDULE:

ZONE	GPM	TYPE	RUN TIME
Y	30	ROTOR	40
Z	40	BUBBLER	20
AA	42	BUBBLER	20
BB	30	ROTOR	40
CC	48	ROTOR	40
DD	56	BUBBLER	20
EE	50	SPRAY	20
FF	52	SPRAY	20
GG	38	BUBBLER	20
HH	39	ROTOR	40
II	36	ROTOR	40
JJ	40	BUBBLER	20

NOTE: RUN TIMES MAY VARY. VERIFY TIMES WITH LANDSCAPE ARCHITECT.

dmja LANDSCAPE ARCHITECTS
DAVID W. JOHNSTON ASSOCIATES
 1487 SECOND STREET SUITE E • SARASOTA, FL 34236 • (813) 366-3159

PROJECT NO.	857
SCALE	1"=20'-0"
DATE	7/2/96
DRAWN BY	LES
CHECKED	WRS

SITE DEVELOPMENT PLANS
DURANTE PARK PHASE III
 TOWN OF LONGBOAT KEY, FLORIDA

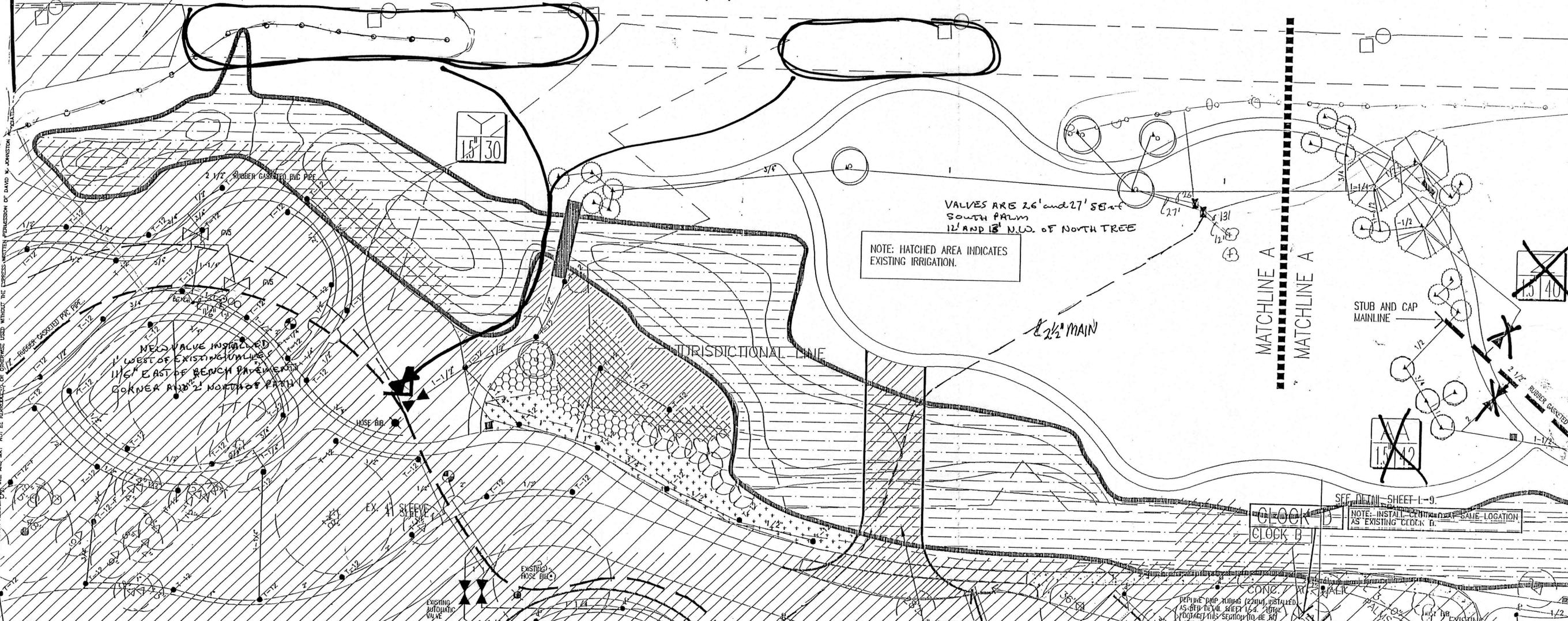
REV. 1/7/96
REV. 6/11/97

SHEET NO.

IR-3

20' LANDSCAPE BUFFER

SPRAY FUNGUS ON BERMS 6" POP



IRRIGATION HEAD KEY

KEY	RAIN BIRD
SPRAY HEADS	1800 SERIES
X ADJ	15Q
X Q	15120
X 120	15H
X H	15240
X 240	15TQ
X TQ	15F
X F	15EST
X EST	15CST
X CST	9SST

NOTE: L SUFFIX INDICATES LOW GALLONAGE NOZZLE

BODY STYLE
S SHRUB HEAD ON RISER
P POP-UP (6")
HP HIGH POP-UP (12")

ALL SPRAY HEADS ARE TO BE 6" POP-UP UNLESS OTHERWISE NOTED.

ROTARY HEADS

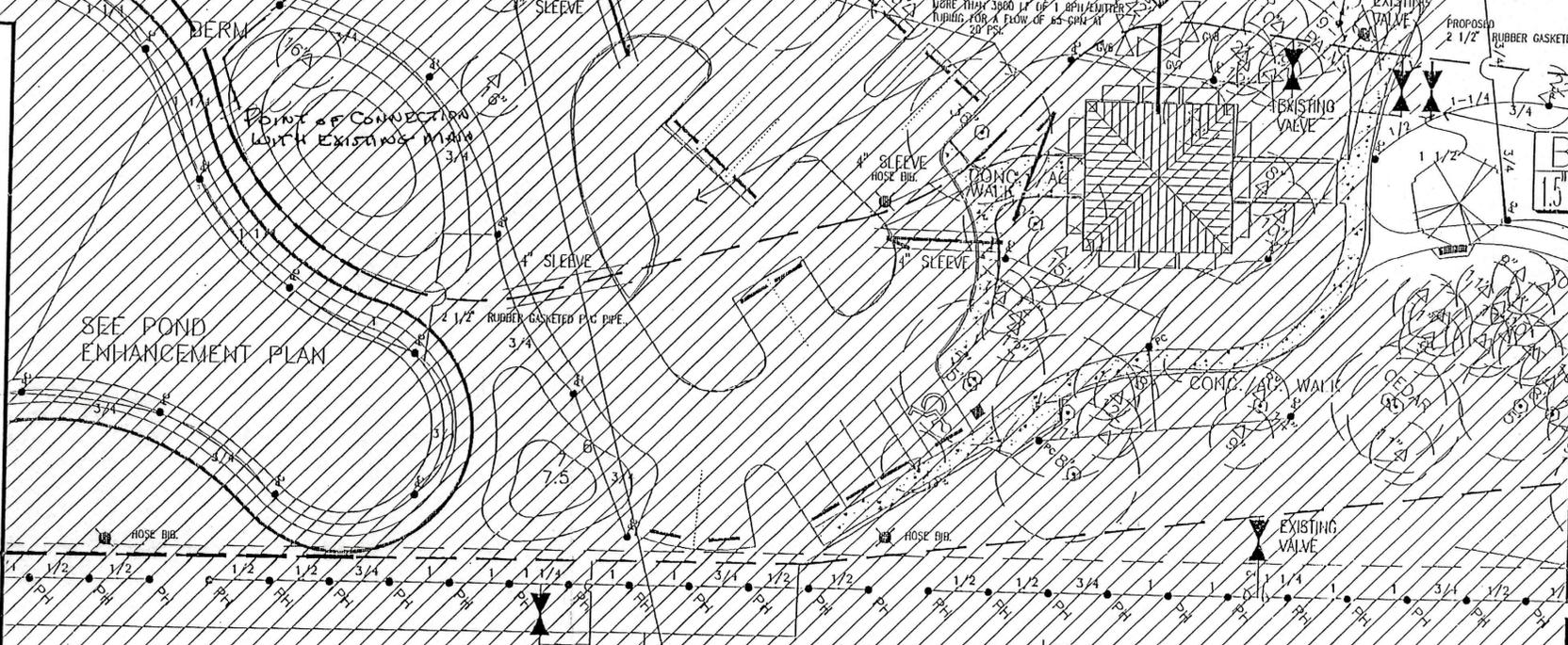
- RAINBIRD T-BIRD SERIES T-30-25, 12" SHRUB ROTOR
- NELSON 6012-ADV # 7 NOZZEL

TREE BUBBLER

- TREE BUBBLER ON FLEX PVC, BY HARDIE MODEL #533

IRRIGATION LEGEND

- PROPOSED IRRIGATION MAIN LINE - SIZE AS NOTED ON DRAWINGS - RUBBER GASKETED
- EXISTING IRRIGATION MAIN LINE - SIZE AS NOTED ON DRAWINGS - RUBBER GASKETED
- IRRIGATION SLEEVES SLEEVES ARE DEDICATED TO SPECIFIC USES AS FOLLOWS:
IRRIG - IRRIGATION LINES
PULSE - IRRIGATION PULSE WIRES
MAIN - IRRIGATION MAIN LINE
- AUTOMATIC SECTION VALVE - NELSON # 7951 ANGLE MOUNT
- ISOLATION GATE VALVE - AT LINE SIZE
- HOSE BIB. 3/4" HOSE BIBB - ON 3/4" TAP. LOCATE WITHIN RECTANGULAR VALVE BOXES.
- RAINBIRD RC-1260C, 12 STA. CLOCK WITH IPP-K PRIMARY SURGE PROTECTION KIT, AND RAH-CHECK AUTOMATIC RAIN SHUT-OFF
- WIRE CLOCKS AS FOLLOWS:
CLOCK A (EXISTING) STA. A,B,C,H,I,J,P,Q,R
CLOCK B (EXISTING) STA. D,E,F,G,K,L,M,N,O
CLOCK C (EXISTING) STA. S,T,U,V,W,X
CLOCK D (EXISTING) STA. Y,Z,A,AA,BB,CC,DD,EE,FF,GG,H,II,III,II,II
- VALVE NUMBER
- SECTION GPM



SEE POND ENHANCEMENT PLAN

ACCESS ROADWAY



IRRIGATION PLAN AS BUILT

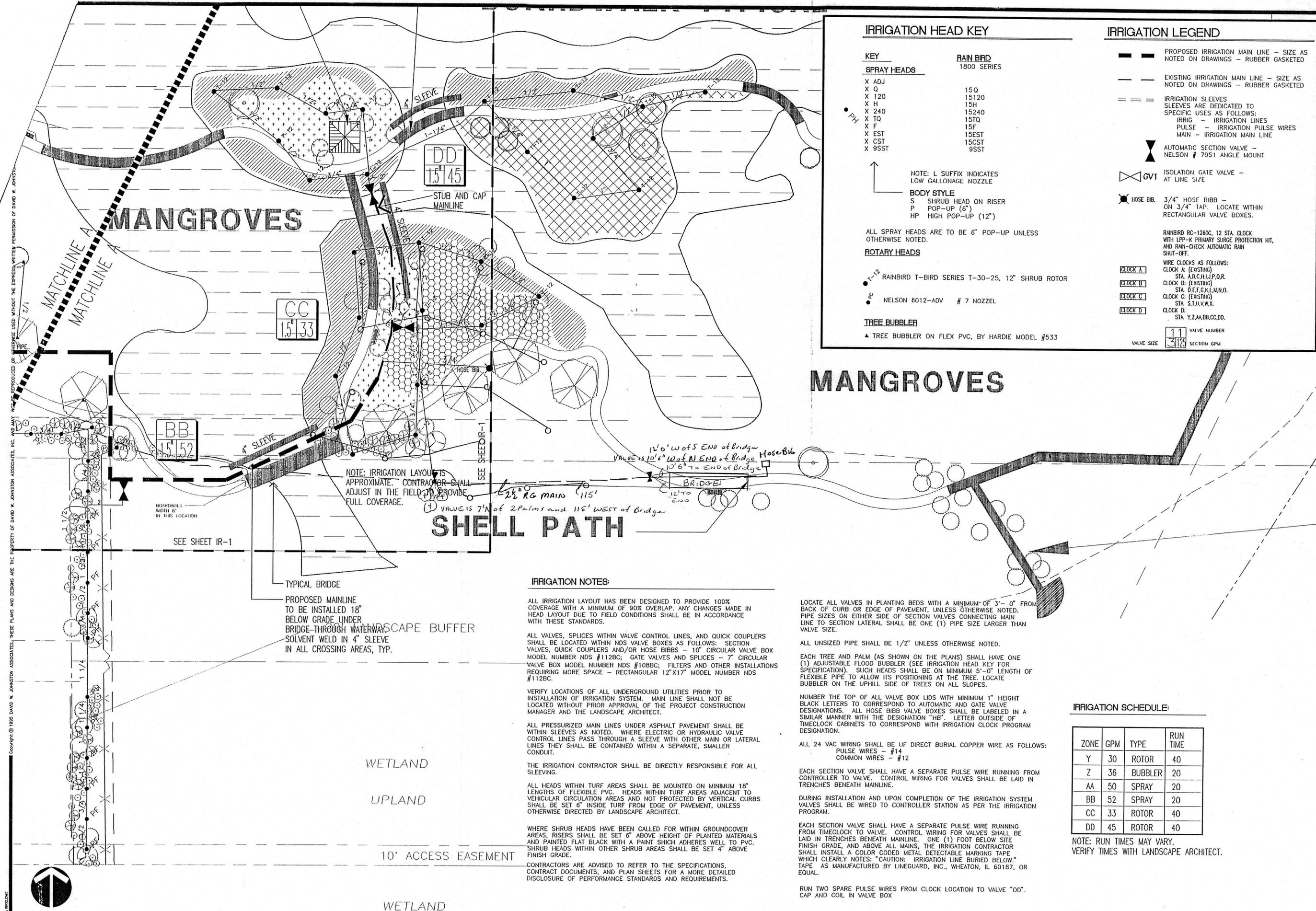
dwja LANDSCAPE ARCHITECTS
DAVID W. JOHNSTON ASSOCIATES
 1457 SECOND STREET SUITE E • SARASOTA, FL 34236 • (813) 366-3159

PROJECT NO.	8557
SCALE	1"=20'-0"
DATE	7/2/96
DRAWN BY	MEB
ISSUED	7/8/96

SITE DEVELOPMENT PLANS
DURANTE PARK PHASE III
 TOWN OF LONGBOAT KEY, FLORIDA

REV. 11/7/95
REV. 6/14/97

SHEET NO.
 IR-1



IRRIGATION HEAD KEY

KEY	RAIN BIRD
SPRAY HEADS	1800 SERIES
X ADJ	15Q
X Q	15120
X 120	15H
X H	15240
X 240	15TQ
X TO	15F
X F	15EST
X EST	15CST
X CST	9SST
X 9SST	

NOTE: L SUFFIX INDICATES LOW GALLONAGE NOZZLE

BODY STYLE
 S SHRUB HEAD ON RISER
 P POP-UP (6")
 HP HIGH POP-UP (12")

ALL SPRAY HEADS ARE TO BE 6" POP-UP UNLESS OTHERWISE NOTED.

ROTARY HEADS

- T-12 RAINBIRD T-BIRD SERIES T-30-25, 12" SHRUB ROTOR
- NELSON 6012-ADV # 7 NOZZEL

TREE BUBBLER

▲ TREE BUBBLER ON FLEX PVC, BY HARDIE MODEL #533

IRRIGATION LEGEND

- PROPOSED IRRIGATION MAIN LINE - SIZE AS NOTED ON DRAWINGS - RUBBER GASKETED
- EXISTING IRRIGATION MAIN LINE - SIZE AS NOTED ON DRAWINGS - RUBBER GASKETED
- IRRIGATION SLEEVES
 SLEEVES ARE DEDICATED TO SPECIFIC USES AS FOLLOWS:
 IRRIG - IRRIGATION LINES
 PULSE - IRRIGATION PULSE WIRES
 MAIN - IRRIGATION MAIN LINE
- AUTOMATIC SECTION VALVE - NELSON # 7951 ANGLE MOUNT
- ISOLATION GATE VALVE - AT LINE SIZE
- HOSE BIB. 3/4" HOSE BIBB - ON 3/4" TAP. LOCATE WITHIN RECTANGULAR VALVE BOXES.
- RAINBIRD RC-1260C, 12 STA. CLOCK WITH LPP-K PRIMARY SURGE PROTECTION KIT, AND RAIN-CHECK AUTOMATIC RAIN SHUT-OFF.
- WIRE CLOCKS AS FOLLOWS:
 CLOCK A: (EXISTING) STA. A,B,C,H,I,J,P,Q,R
 CLOCK B: (EXISTING) STA. D,E,F,G,K,L,M,N,O
 CLOCK C: (EXISTING) STA. S,T,U,V,W,X
 CLOCK D: (EXISTING) STA. Y,Z,AA,AB,CC,DD.
- VALVE NUMBER: 11
 VALVE SIZE: 3/4" SECTION GPM

IRRIGATION NOTES:

ALL IRRIGATION LAYOUT HAS BEEN DESIGNED TO PROVIDE 100% COVERAGE WITH A MINIMUM OF 90% OVERLAP. ANY CHANGES MADE IN HEAD LAYOUT DUE TO FIELD CONDITIONS SHALL BE IN ACCORDANCE WITH THESE STANDARDS.

ALL VALVES, SPLICES WITHIN VALVE CONTROL LINES, AND QUICK COUPLERS SHALL BE LOCATED WITHIN NDS VALVE BOXES AS FOLLOWS: SECTION VALVES, QUICK COUPLERS AND/OR HOSE BIBBS - 10" CIRCULAR VALVE BOX MODEL NUMBER NDS #112BC; GATE VALVES AND SPLICES - 7" CIRCULAR VALVE BOX MODEL NUMBER NDS #108BC; FILTERS AND OTHER INSTALLATIONS REQUIRING MORE SPACE - RECTANGULAR 12"x17" MODEL NUMBER NDS #112BC.

VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. MAIN LINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE PROJECT CONSTRUCTION MANAGER AND THE LANDSCAPE ARCHITECT.

ALL PRESSURIZED MAIN LINES UNDER ASPHALT PAVEMENT SHALL BE WITHIN SLEEVES AS NOTED. WHERE ELECTRIC OR HYDRAULIC VALVE CONTROL LINES PASS THROUGH A SLEEVE WITH OTHER MAIN OR LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE, SMALLER CONDUIT.

THE IRRIGATION CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR ALL SLEEVING.

ALL HEADS WITHIN TURF AREAS SHALL BE MOUNTED ON MINIMUM 18" LENGTHS OF FLEXIBLE PVC. HEADS WITHIN TURF AREAS ADJACENT TO VEHICULAR CIRCULATION AREAS AND NOT PROTECTED BY VERTICAL CURBS SHALL BE SET 6" INSIDE TURF FROM EDGE OF PAVEMENT, UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT.

WHERE SHRUB HEADS HAVE BEEN CALLED FOR WITHIN GROUND COVER AREAS, RISERS SHALL BE SET 6" ABOVE HEIGHT OF PLANTED MATERIALS AND PAINTED FLAT BLACK WITH A PAINT WHICH ADHERES WELL TO PVC. SHRUB HEADS WITHIN OTHER SHRUB AREAS SHALL BE SET 4" ABOVE FINISH GRADE.

CONTRACTORS ARE ADVISED TO REFER TO THE SPECIFICATIONS, CONTRACT DOCUMENTS, AND PLAN SHEETS FOR A MORE DETAILED DISCLOSURE OF PERFORMANCE STANDARDS AND REQUIREMENTS.

LOCATE ALL VALVES IN PLANTING BEDS WITH A MINIMUM OF 3'-0" FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. PIPE SIZES ON EITHER SIDE OF SECTION VALVES CONNECTING MAIN LINE TO SECTION LATERAL SHALL BE ONE (1) PIPE SIZE LARGER THAN VALVE SIZE.

ALL UNSIZED PIPE SHALL BE 1/2" UNLESS OTHERWISE NOTED.

EACH TREE AND PALM (AS SHOWN ON THE PLANS) SHALL HAVE ONE (1) ADJUSTABLE FLOOD BUBBLER (SEE IRRIGATION HEAD KEY FOR SPECIFICATION). SUCH HEADS SHALL BE ON MINIMUM 5'-0" LENGTH OF FLEXIBLE PIPE TO ALLOW ITS POSITIONING AT THE TREE. LOCATE BUBBLER ON THE UPHILL SIDE OF TREES ON ALL SLOPES.

NUMBER THE TOP OF ALL VALVE BOX LIDS WITH MINIMUM 1" HEIGHT BLACK LETTERS TO CORRESPOND TO AUTOMATIC AND GATE VALVE DESIGNATIONS. ALL HOSE BIBB VALVE BOXES SHALL BE LABELED IN A SIMILAR MANNER WITH THE DESIGNATION "HB". LETTER OUTSIDE OF TIMECLOCK CABINETS TO CORRESPOND WITH IRRIGATION CLOCK PROGRAM DESIGNATION.

ALL 24 VAC WIRING SHALL BE UF DIRECT BURIAL COPPER WIRE AS FOLLOWS:
 PULSE WIRES - #14
 COMMON WIRES - #12

EACH SECTION VALVE SHALL HAVE A SEPARATE PULSE WIRE RUNNING FROM CONTROLLER TO VALVE. CONTROL WIRING FOR VALVES SHALL BE LAID IN TRENCHES BENEATH MAINLINE.

DURING INSTALLATION AND UPON COMPLETION OF THE IRRIGATION SYSTEM VALVES SHALL BE WIRED TO CONTROLLER STATION AS PER THE IRRIGATION PROGRAM.

EACH SECTION VALVE SHALL HAVE A SEPARATE PULSE WIRE RUNNING FROM TIMECLOCK TO VALVE. CONTROL WIRING FOR VALVES SHALL BE LAID IN TRENCHES BENEATH MAINLINE. ONE (1) FOOT BELOW SITE FINISH GRADE, AND ABOVE ALL MAINS, THE IRRIGATION CONTRACTOR SHALL INSTALL A COLOR CODED METAL DETECTABLE MARKING TAPE WHICH CLEARLY NOTES: "CAUTION: IRRIGATION LINE BURIED BELOW." TAPE AS MANUFACTURED BY LINEGUARD, INC., WHEATON, IL 60187, OR EQUAL.

RUN TWO SPARE PULSE WIRES FROM CLOCK LOCATION TO VALVE "DD". CAP AND COIL IN VALVE BOX

IRRIGATION SCHEDULE:

ZONE	GPM	TYPE	RUN TIME
Y	30	ROTOR	40
Z	36	BUBBLER	20
AA	50	SPRAY	20
BB	52	SPRAY	20
CC	33	ROTOR	40
DD	45	ROTOR	40

NOTE: RUN TIMES MAY VARY. VERIFY TIMES WITH LANDSCAPE ARCHITECT.

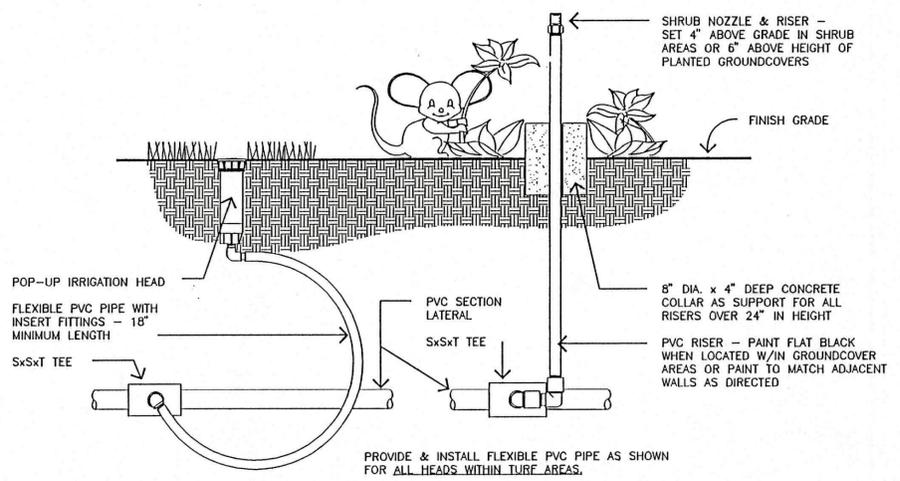
dwja LANDSCAPE ARCHITECTS
DAVID W. JOHNSTON ASSOCIATES
 1487 SECOND STREET SUITE E • SARASOTA, FL 34236 • (813) 966-3159

PROJECT NO.	957
SCALE	1"=20'-0"
DATE	7/2/96
DRAWN BY	MES
ISSUED	7/18/96

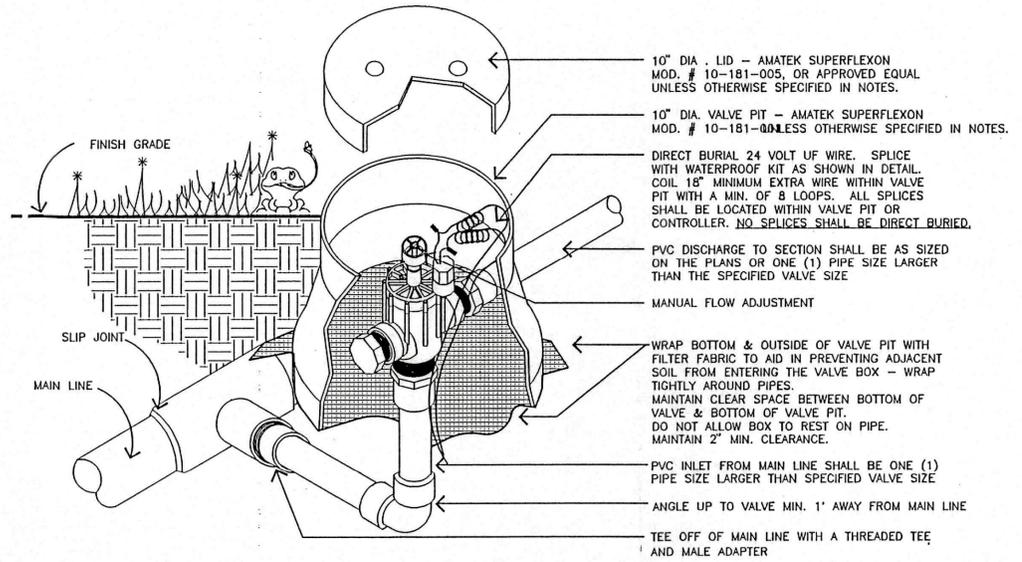
SITE DEVELOPMENT PLANS
DURANTE PARK PHASE III
 TOWN OF LONGBOAT KEY, FLORIDA

SHEET NO.
IR-2

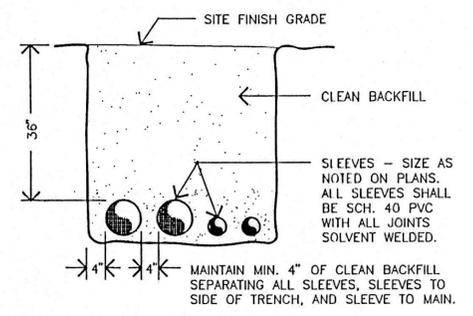
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TYP. POP-UP / RISER INSTALLATION
NOT TO SCALE



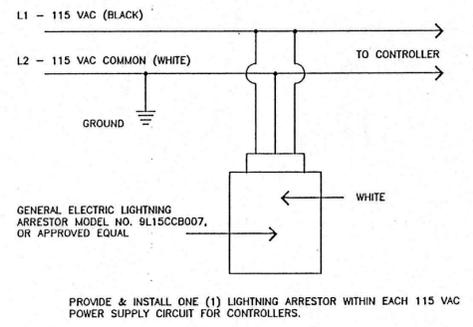
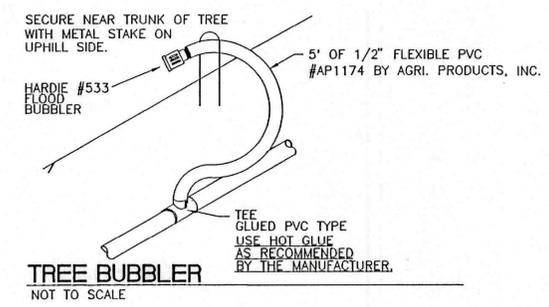
TYPICAL ANGLE AUTOMATIC VALVE
NOT TO SCALE



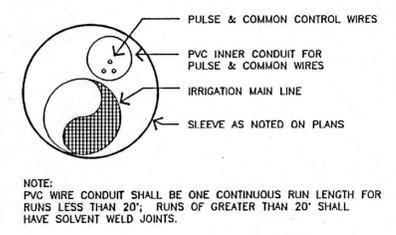
SLEEVE / TRENCH DETAIL
NOT TO SCALE

SET TOP OF SLEEVES 36" BELOW SITE FINISH GRADE AT SLEEVE LOCATION. BACKFILL TRENCH WITH CLEAN FILL MATERIAL FREE OF ORGANIC MATERIAL AND ROCK.

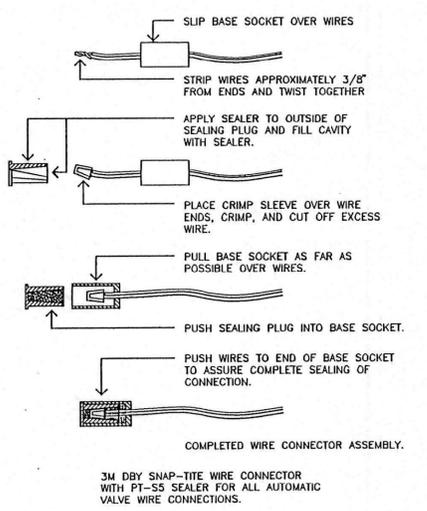
EXTEND SLEEVES 36" BEYOND THE OUTSIDE EDGE OF PAVEMENT OR BACK OF CURB. STAKE EACH END OF SLEEVES WITH SURVEYORS LATH MARKED "IRRIG SLEEVES".



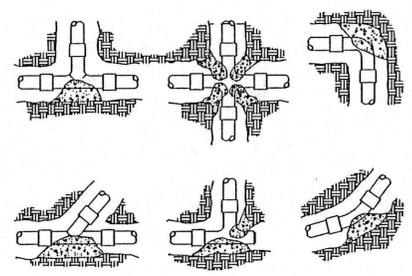
LIGHTNING ARRESTOR DETAIL
NOT TO SCALE



SLEEVE DETAIL
NOT TO SCALE



TYPICAL WIRE CONNECTION
NOT TO SCALE



THRUST BLOCKING
NOT TO SCALE

IRRIGATION CONTROLLER AS SPECIFIED ON PLANS

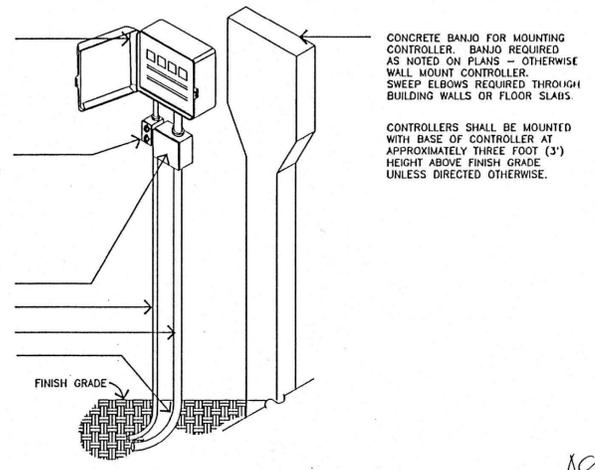
WEATHERPROOF 115 VAC DUPLEX OUTLET TO PROVIDE POWER TO CONTROLLER. OUTLETS SHALL BE GROUND FAULT INTERRUPT PROTECTED. WIRING & INSTALLATION BETWEEN CIRCUIT BREAKER PANEL OR JUNCTION BOX LOCATION SHALL BE AS NOTED ON PLANS. ALL WORK SHALL BE PER APPLICABLE CODES. SEE PLANS FOR LOCATION OF ELECTRICAL POWER SOURCE FOR CONTROLLER & OUTLETS.

WEATHERPROOF ELECTRICAL MAKE-UP BOX FOR PULSE WIRE SPLICES. MAKE-UP BOX REQUIRED ONLY IF NECESSARY TO CONNECT SEVERAL VALVE PULSE WIRES TO A SINGLE CONTROLLER STATION WHERE THERE IS INSUFFICIENT SPACE WITHIN THE CONTROLLER CABINET. ALL CONNECTIONS WITHIN THE MAKE-UP BOX SHALL BE MADE UTILIZING TERMINAL STRIPS. ALL WIRES SHALL BE LABELED TO MATCH VALVE SECTION NUMBERS FOR EASY REFERENCE.

CONDUIT FOR 115 VAC POWER SUPPLY.

CONDUIT FOR VALVE PULSE WIRES.

SWEEP ELBOW FOR PULSE WIRES.



TYP. WALL MOUNT CONTROLLER INSTALLATION
NOT TO SCALE

AS PERMIT
IRRIGATION DETAILS

dwja LANDSCAPE ARCHITECTS
DAVID W. JOHNSTON ASSOCIATES
1487 SECOND STREET SUITE E • SARASOTA, FL 34236 • (813) 966-3159

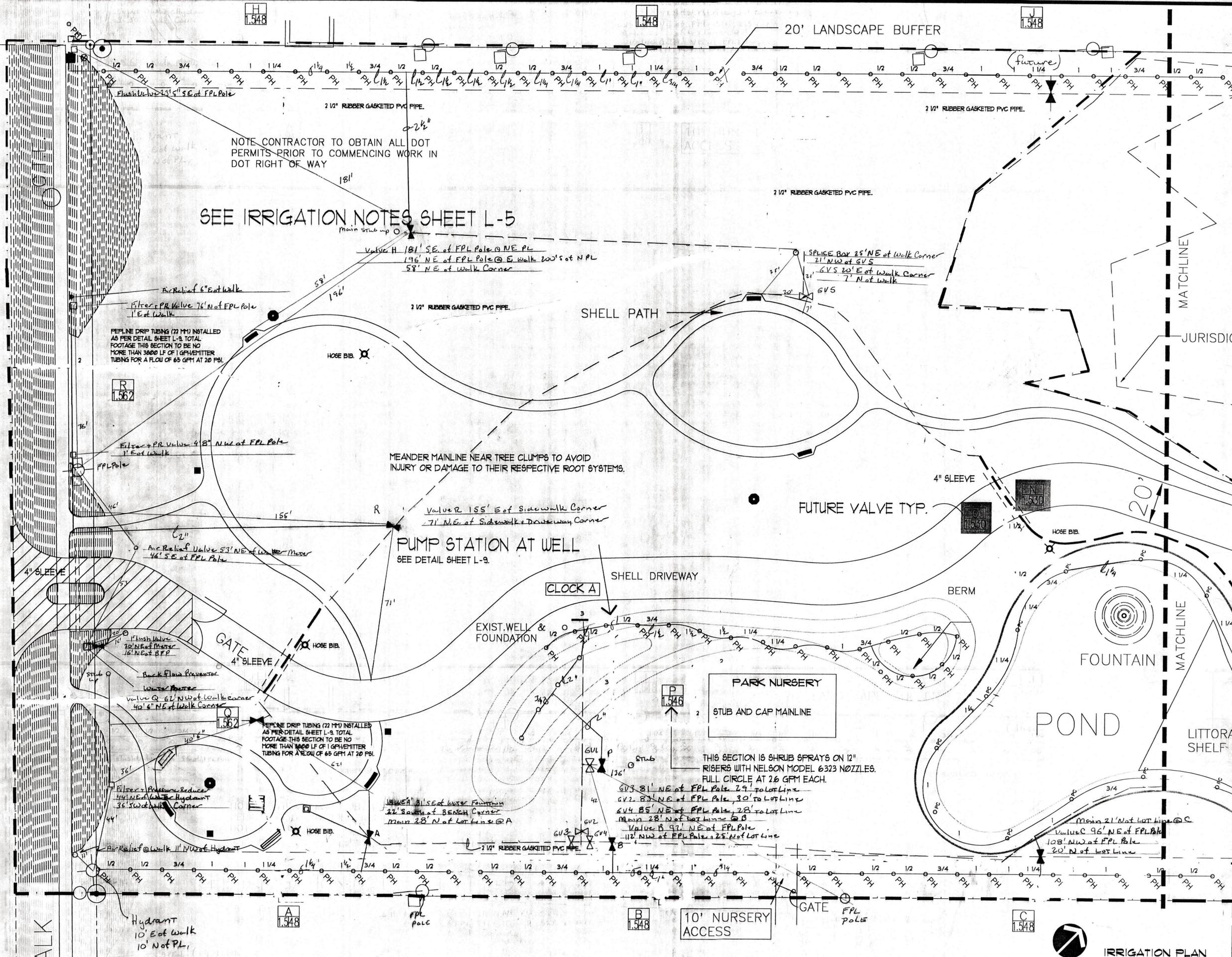
PROJECT NO.	6557
SCALE	N/A
DATE	7/2/96
DRAWN BY	MES
ISSUED	7/17/96

SITE DEVELOPMENT PLANS
DURANTE PARK PHASE III
TOWN OF LONGBOAT KEY, FLORIDA

SHEET NO.
IR-3

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MEXICO DRIVE



LANDSCAPE ARCHITECTS
DAVID W. JOHNSTON ASSOCIATES
1497 SECOND STREET SUITE E, SARASOTA, FLORIDA 34236 813-366-3186

PROJECT NO.	9437
SCALE	1" = 20'
DATE	9/26/94
DRAWN BY	DWJ
ISSUED	10/7/94

SITE DEVELOPMENT PLANS FOR
DURANTE COMMUNITY PARK PH1
TOWN OF LONGBOAT KEY, FLORIDA

SHEET



IRRIGATION PLAN

IRRIGATION NOTES:

ALL HEAD LAYOUT HAS BEEN DESIGNED TO PROVIDE 100% COVERAGE WITH A MINIMUM OF 90% OVERLAP. ANY CHANGES MADE IN HEAD LAYOUT DUE TO FIELD CONDITIONS SHALL BE IN ACCORDANCE WITH THESE STANDARDS. ROTARY HEADS SHALL BE SPACED A MAXIMUM OF 36' ON CENTER.

ALL VALVES, SPLICES WITHIN VALVE CONTROL LINES, AND HOSE BIBBS SHALL BE LOCATED WITHIN AN AMATEK VALVE BOX AS FOLLOWS: SECTION VALVES AND HOSE BIBBS - 10" CIRCULAR VALVE BOX MODEL NUMBER 10-101-014 WITH COVER MODEL NUMBER 10-101-015; GATE VALVES AND SPLICES - 5 1/4" POLYIRON MODEL NUMBER 10-111-036 WITH COVER MODEL NUMBER 10-111-031.

VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. MAIN LINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE PROJECT CONSTRUCTION MANAGER AND THE LANDSCAPE ARCHITECT.

ALL PRESSURIZED MAIN LINES UNDER ASPHALT PAVEMENT SHALL BE WITHIN SLEEVES AS NOTED. WHERE ELECTRIC OR VALVE CONTROL LINES PASS THROUGH A SLEEVE WITH OTHER MAIN OR LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE, SMALLER CONDUIT.

SLEEVES AS SHOWN ON THESE PLANS SHALL BE INSTALLED BY THE IRRIGATION CONTRACTOR. SLEEVES ARE DEDICATED TO SPECIFIC USES AS NOTED AT EACH SLEEVE.

ALL HEADS WITHIN TURF AREAS SHALL BE MOUNTED ON MINIMUM 18" LENGTHS OF FLEXIBLE PVC. HEADS WITHIN TURF AREAS ADJACENT TO VEHICULAR CIRCULATION AREAS AND NOT PROTECTED BY VERTICAL CURBS SHALL BE SET 6" INSIDE TURF FROM EDGE OF PAVEMENT, UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT.

WHERE SHRUB HEADS HAVE BEEN CALLED FOR WITHIN GROUNDCOVER AREAS RISERS SHALL BE SET 6" ABOVE HEIGHT OF PLANTED MATERIALS AND PAINTED FLAT BLACK WITH A PAINT WHICH ADHERES WELL TO PVC. SHRUB HEADS WITHIN OTHER SHRUB AREAS SHALL BE SET 4" ABOVE FINISH GRADE.

MAIN LINE AND VALVES ARE SHOWN IN SCHEMATIC FORM. LOCATE AS NOTED ON PLANS. CLUSTER VALVES AS SHOWN, AND TO THE EXTENT POSSIBLE, LOCATE VALVES WITHIN PLANTING AREAS RATHER THAN TURF AREAS.

LOCATE ALL VALVES MINIMUM 5'-0" FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS NOTED OTHERWISE.

PIPE SIZES ON EITHER SIDE OF SECTION VALVES CONNECTING MAIN LINE TO SECTION LATERAL SHALL BE ONE (1) PIPE SIZE LARGER THAN VALVE SIZE.

ALL UNSIZED PIPE SHALL BE 1/2" UNLESS OTHERWISE NOTED.

NUMBER THE TOP OF ALL VALVE BOX LIDS WITH MINIMUM 1" HEIGHT WHITE LETTERS TO CORRESPOND TO AUTOMATIC AND GATE VALVE DESIGNATIONS. ALL HOSE BIBB VALVE BOXES SHALL BE LABELED IN A SIMILAR MANNER WITH THE DESIGNATION "HB". LETTER OUTSIDE OF TIMECLOCK CABINETS TO CORRESPOND WITH IRRIGATION CLOCK PROGRAM DESIGNATION.

ELECTRIC POWER SUPPLY FOR CONTROLLER LOCATIONS TO BE PROVIDED AND INSTALLED BY IRRIGATION CONTRACTOR.

ALL 24 VAC WIRING SHALL BE UF DIRECT BURIAL COPPER WIRE AS FOLLOWS:
PULSE WIRES - #14
COMMON WIRES - #12

EACH SECTION VALVE SHALL HAVE A SEPARATE PULSE WIRE RUNNING FROM TIMECLOCK TO VALVE. CONTROL WIRING FOR VALVES SHALL BE LAID IN TRENCHES BENEATH MAINLINE. RUN 2 SPARE PULSE WIRES TO FURTHEREST VALVE FROM EA. CLOCK.

DURING INSTALLATION AND UPON COMPLETION OF THE IRRIGATION SYSTEM VALVES SHALL BE WIRED TO CONTROLLER STATION AS PER THE IRRIGATION PROGRAM.

INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE.

CONTRACTORS ARE ADVISED TO REFER TO THE SPECIFICATIONS, CONTRACT DOCUMENTS, AND PLAN SHEETS FOR A MORE DETAILED DISCLOSURE OF PERFORMANCE STANDARDS AND REQUIREMENTS.

PUMP STATION AT CISTERN

SEE DETAIL SHEET L-9. LOCATION TO BE DETERMINED IN THE FIELD WITH THE ARCHITECT APPROXIMATELY 30' NORTH OF BUILDING - CONTRACTOR TO SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION

M 1.565
L 1.527

FUTURE VALVE TYP.

IRRIGATION HEAD KEY

KEY	NELSON	RAIN BIRD	RICHDEL
SPRAY HEADS			
X Q	8312 X 15Q	15 Q	100 15Q
X H	8312 X 15 H	15 H	100 15H
X T	8312 X 15 T	15 T	100 15T
X F	8312 X 15 F	15 F	100 15F
X EST	8312 X 4 EST	15 EST	100 15ES
X CST	8312 X 4 CST	15 CST	100 15CS
X R			533
X S			537 050
X I			537 100
NOTE: L SUFFIX INDICATES LOW GALLONAGE NOZZLE			
BODY STYLE			
S	SHRUB HEAD ON RISER		
P	POP-UP (8")		
HP	HIGH POP-UP (12")		
T	TREE BUBBLER ON FLEX PVC		
ROTARY HEADS			
F X	8002-ADV # 7 NOZZEL	R-50	530PR X
PC X	8002-ADV # 7 NOZZEL	R-50	530PR X
INSERT NOZZLE SIZE AS KEVED ON PLAN			
ALL HEADS SHALL BE BY ONE MANUFACTURER UNLESS AN EQUIVALENT HEAD OF A GIVEN PATTERN IS NOT PRODUCED BY THAT MANUFACTURER. IN WHICH CASE AN EQUAL SUBSTITUTE FROM THE ABOVE KEY MAY BE SELECTED.			

IRRIGATION LEGEND

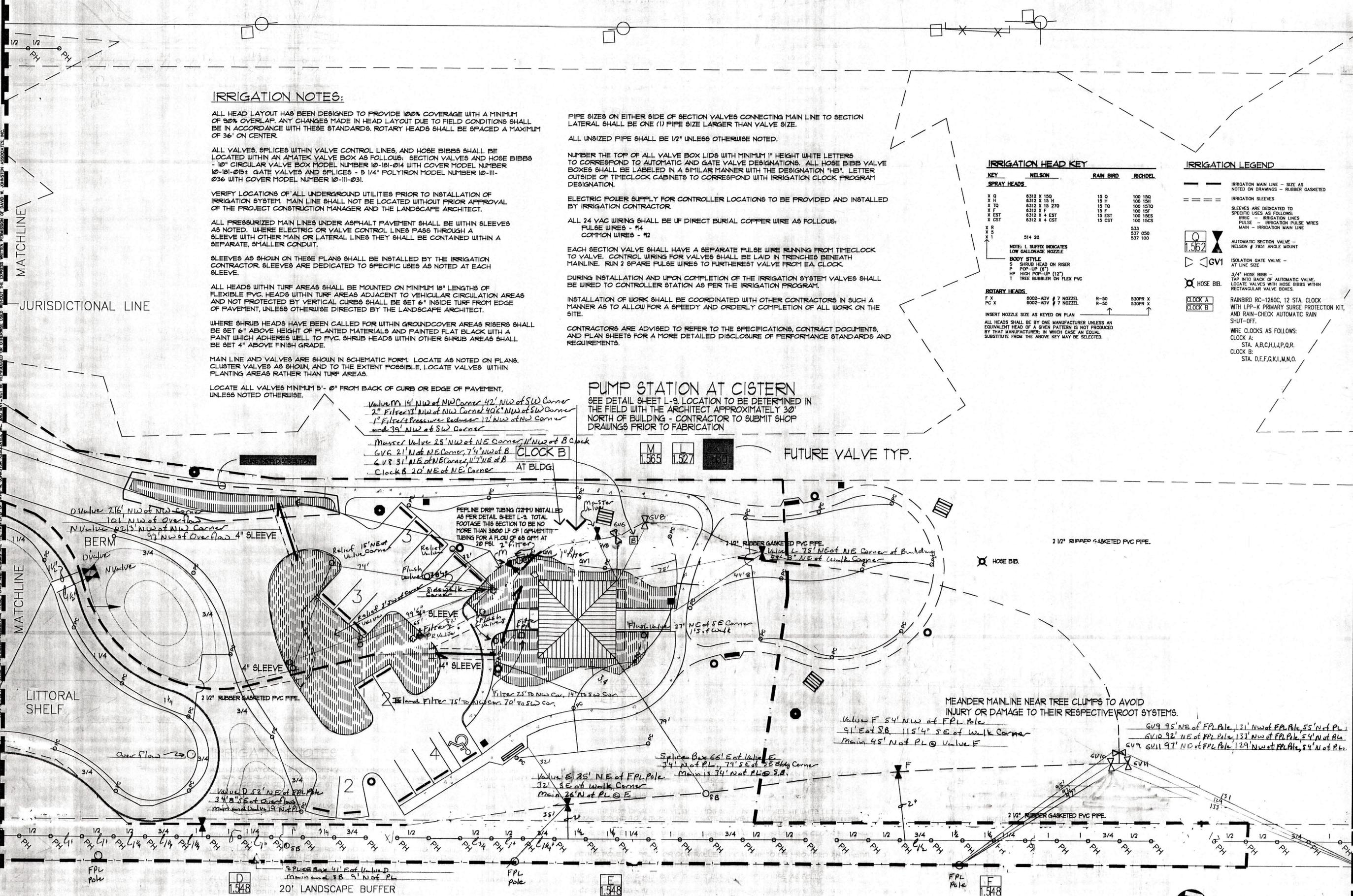
- IRRIGATION MAIN LINE - SIZE AS NOTED ON DRAWINGS - RUBBER GASKETED
- IRRIGATION SLEEVES
- SLEEVES ARE DEDICATED TO SPECIFIC USES AS FOLLOWS:
IRRG - IRRIGATION LINES
PULSE - IRRIGATION PULSE WIRES
MAIN - IRRIGATION MAIN LINE
- AUTOMATIC SECTION VALVE - NELSON # 7951 ANGLE MOUNT
- ISOLATION GATE VALVE - AT LINE SIZE
- 3/4" HOSE BIBB - TAP INTO BACK OF AUTOMATIC VALVE. LOCATE VALVES WITH HOSE BIBBS WITHIN RECTANGULAR VALVE BOXES.
- RAINBIRD RC-1260C, 12 STA. CLOCK WITH LPP-K PRIMARY SURGE PROTECTION KIT, AND RAIN-CHECK AUTOMATIC RAIN SHUT-OFF.
- WIRE CLOCKS AS FOLLOWS:
CLOCK A:
STA. A,B,C,H,I,J,P,Q,R.
CLOCK B:
STA. D,E,F,G,K,L,M,N,O.

MATCHLINE

JURISDICTIONAL LINE

MATCHLINE

LITTORAL SHELF



D 1.548

E 1.548

F 1.548



IRRIGATION PLAN