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 REVISED 1/19/01
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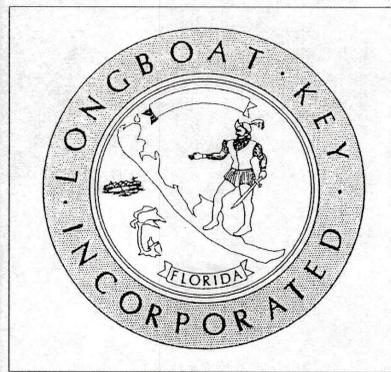
SITE DEVELOPMENT PLANS FOR:

**JOAN M. DURANTE
 COMMUNITY PARK PHASE IV**

PREPARED BY:

dwja
 LANDSCAPE ARCHITECTS
**DAVID W. JOHNSTON
 ASSOCIATES**

1491 Second Street, Suite B
 Sarasota, Florida 34236
 (941) 366-3159 FAX (941) 954-4616



PREPARED FOR:
 TOWN OF LONGBOAT KEY

NOVEMBER 2000

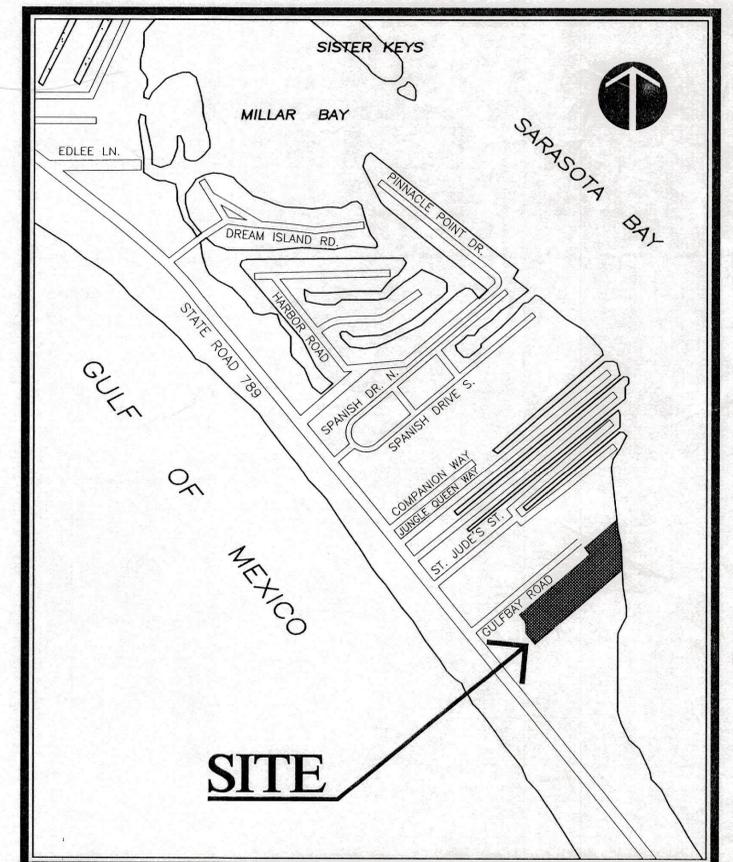
**TOWN OF LONGBOAT KEY, FLORIDA
 SCHEDULE OF DRAWINGS:**

- COVER SHEET
 L-1 SITE PLAN
 L-2 DECK DETAILS
 L-3 CONSTRUCTION DETAILS
 L-4 CONSTRUCTION DETAILS
 L-5 GAZEBO CONSTRUCTION DETAILS
 L-6 BUFFER PLANTING
 L-7A DISPOSAL SITE PLANTING
 L-7B DISPOSAL SITE PLANTING
 L-8 PLANTING DETAILS
 L-9 BUFFER IRRIGATION
 L-10 IRRIGATION DETAILS
 L-11 BID ALTERNATE 1 - OFFSHORE RESTORATION

PREPARED BY:

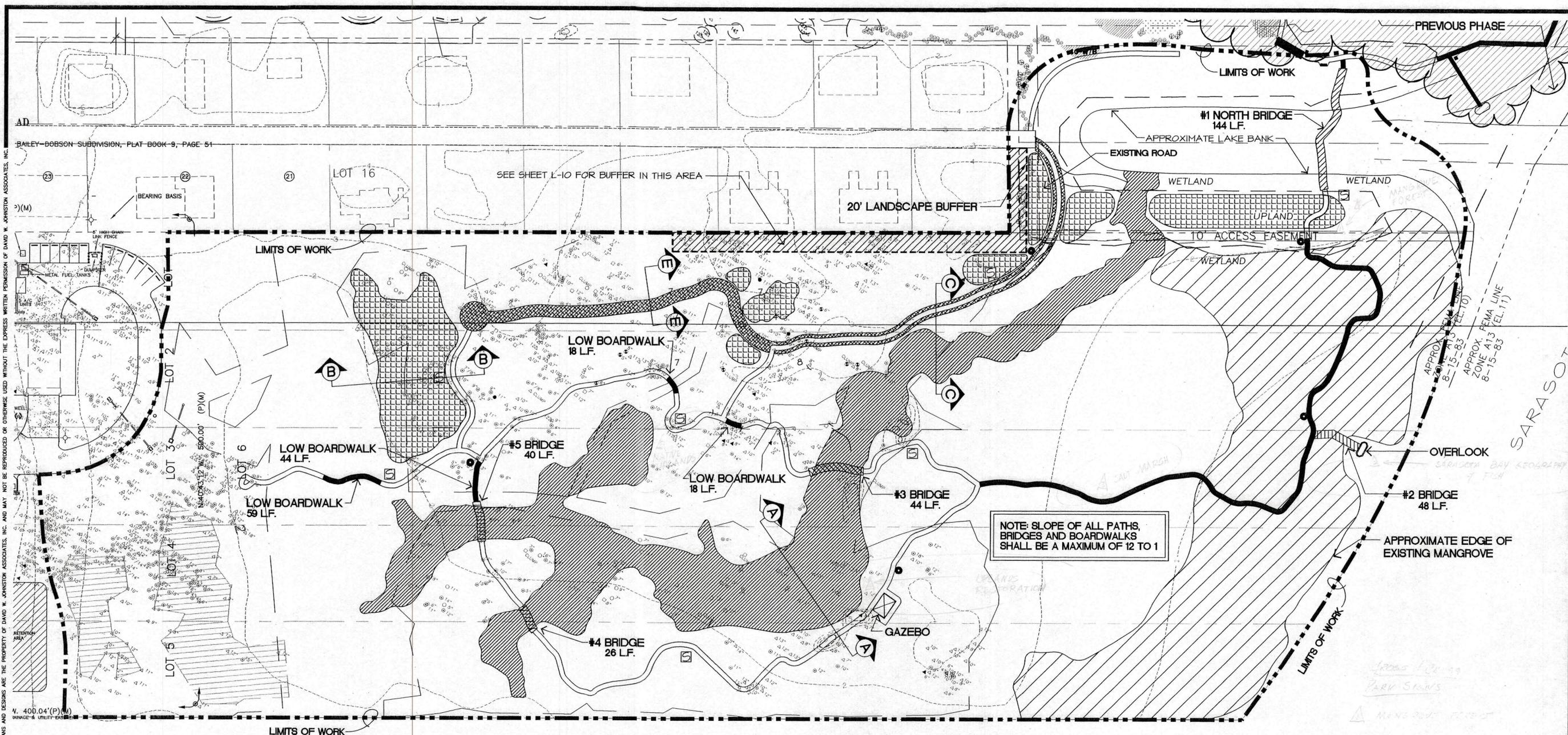
dwja
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Phillip J. Smith
 PHILLIP J. SMITH, R.L.A. #0001096



SITE LOCATION MAP

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BAILEY-DOBSON SUBDIVISION, PLAT BOOK 9, PAGE 51

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NOTES

EXISTING UPLAND AREA TO BE USED AS DISPOSAL SITE FOR EXCAVATION MATERIAL. CONTRACTOR SHALL SEPERATE ROOTS, LITTER AND DEBRI FROM FILL MATERIAL. CONTRACTOR SHALL SPREAD OR MOUND MATERIAL ON SITE AS DIRECTED. THE DISPOSAL SITE SHOWN ON THIS PLAN IS APPROXIMATE AND WILL BE FIELD ADJUSTED AS NECESSARY TO SAVE EXISTING TREES. TREES AND STUMPS WHICH ARE REMOVED MAY BE DISPOSED OF AS SHOWN IN PLAN DETAILS.

CONTRACTOR TO REMOVE ALL EXOTIC SPECIES OF PLANT MATERIAL WITHIN THE LIMITS OF CONSTRUCTION FOR THIS THIS PHASE. THIS WORK IS TO INCLUDE ALL NON-NATIVE PLANT MATERIAL AS FIELD DIRECTED BY LANDSCAPE ARCHITECT OR DEP REPRESENTATIVE. ALL MATERIAL REMOVED MUST BE DISCARDED.

THE CONTRACTOR MUST INCLUDE IN THE BID PRICE TO CHIP AND BURY ON SITE OR DISCARD OFF SITE ONCE BURRY AREA IS FULL.

LOCATION OF PATHS AND BOARDWALKS ARE APPROXIMATE AND ILLUSTRATE GENERAL INTENT OF CONSTRUCTION. CONTRACTOR SHALL BE PREPARED TO ADJUST AS FIELD DIRECTED BY THE LANDSCAPE ARCHITECT, DEP REPRESENTATIVE OR TOWN OF LONGBOAT KEY REPRESENTATIVE.

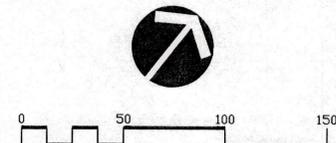
ALL FEATURES SHALL BE FIELD STAKED AND FIELD REVIEWED BY REPRESENTATIVES INDICATED ABOVE PRIOR TO CONSTRUCTION.

12' WIDE GRASS DRIVE SHALL BE GRADED SMOOTH TO DRAIN AND SODDED PER SPECIFICATION

LEGEND

- BOARDWALK APPROX. 891 LINEAR FEET
- BRIDGE (SECTION EE) SEE SITE PLAN (APPROX. 344 L.F.)
- SHELL PATH APPROX. 2,200 LINEAR FEET
- NEW GRASS DRIVE (12' WIDE- SECTION FF) APPROX. 1,180 SQ. YARDS
- AREA OF FILL APPROX. 3,500 CUBIC YARDS
- WETLANDS (NEWLY CREATED WATER SYSTEM) APPROX. 3,500 CUBIC YARDS
- TRASH RECEPTACLE TO BE FIELD VERIFIED WITH LANDSCAPE ARCHITECT
- BENCH LOCATION TO BE FIELD VERIFIED WITH LANDSCAPE ARCHITECT

NOTE: SLOPE OF ALL PATHS, BRIDGES AND BOARDWALKS SHALL BE A MAXIMUM OF 12 TO 1



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PROJECT NO.	20-18
SCALE	1"=50'
DATE	9/18/00
DRAWN BY	PJS
CHECKED	11/16/00

LANDSCAPE DEVELOPMENT PLANS FOR
DURANTE PARK PHASE IV
 LONGBOAT KEY, FLORIDA

SHEET NO.
L-1

REVISIONS:
 1/19/01
 6/21/01
 7/1/01
 12/12/01
 1/1/02
 PHILLIP J. SMITH, R.L.A. #0001096

SITE PLAN

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NOTES

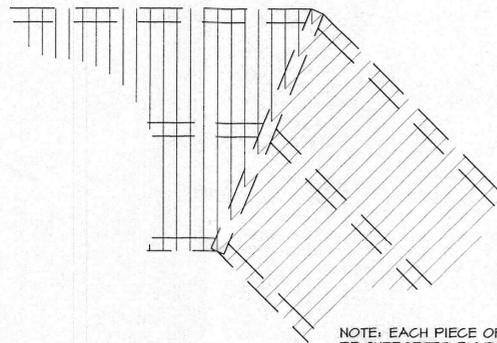
WOOD WALKWAY TO BE INSTALLED AS SHOWN ON THE PLANS. WALKWAY SHALL NOT EXCEED 2.0' ABOVE EXISTING GRADE.

WOOD BRIDGE TO BE USED WHERE SHOWN ON PLANS FOR WALKWAY GREATER THAN 2.0' ABOVE GRADE.

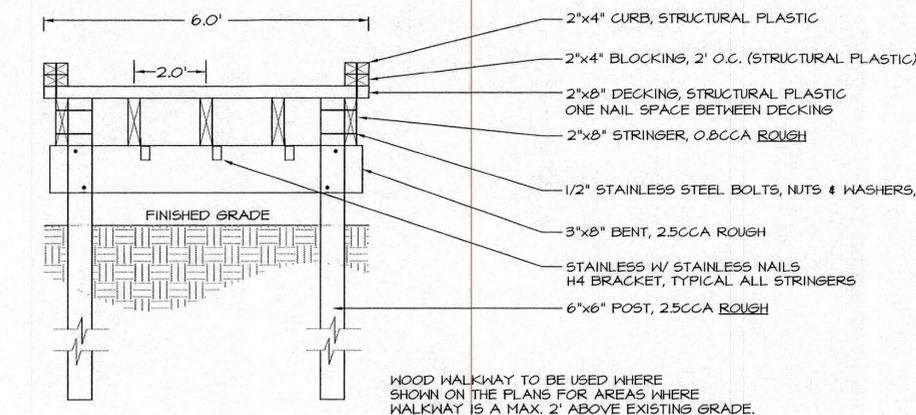
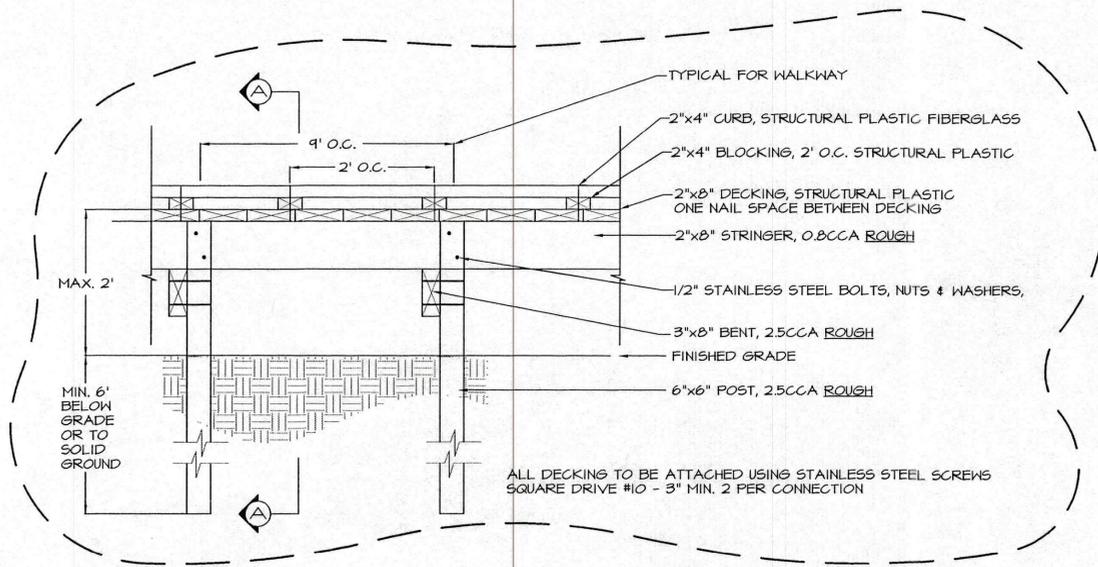
WOOD BRIDGE AND RAISED WALKWAY DESIGN SHALL BE USED FOR RAMP AREAS TO TRANSITION BETWEEN SHELL PATHS, WOOD WALKWAYS AND WOOD BRIDGE SECTIONS. RAMPS SHALL BE MAX. 1 ON 12 SLOPE.

ALL 6" X 6" POST ARE TO PENETRATE A MINIMUM OF 6' BELOW GRADE.

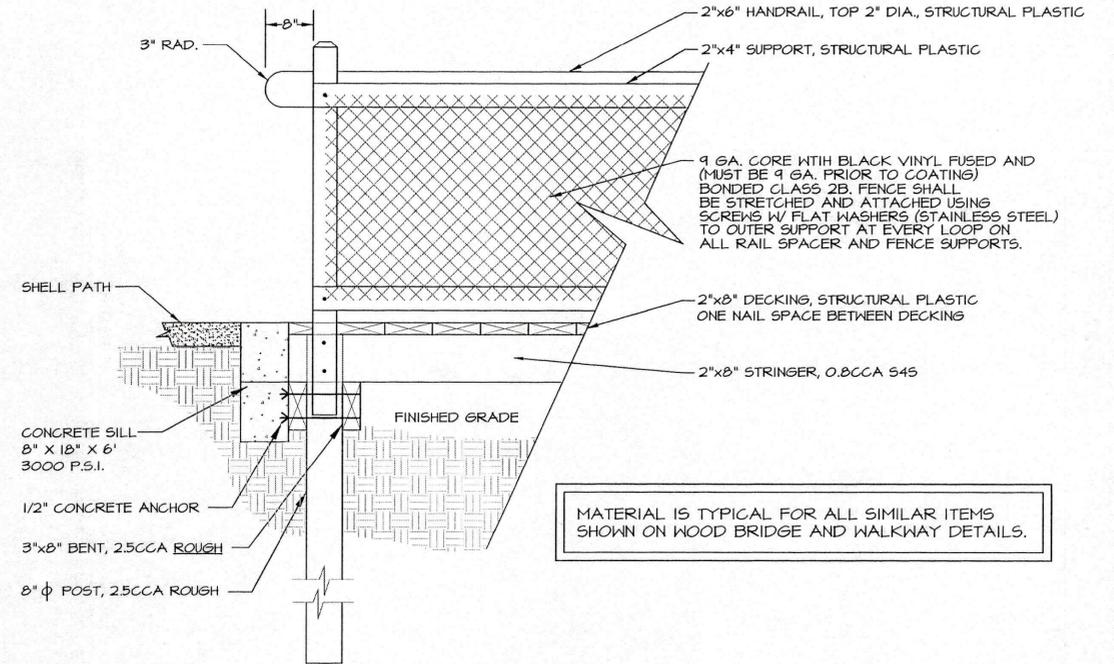
PLAN VIEW
NOT TO SCALE



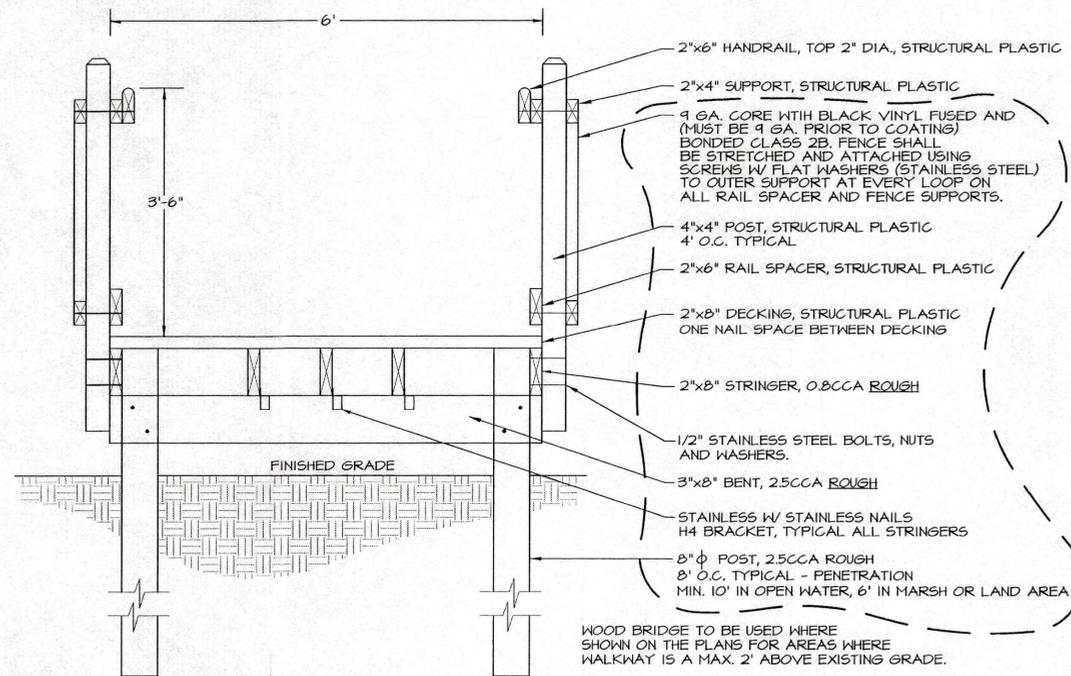
NOTE: EACH PIECE OF DECKING SHALL BE SUPPORTED BY TWO STRINGERS AND NAILED TO EACH. INTERMEDIATE BLOCKING TO PROVIDE SUPPORT SHALL BE PROVIDED AS REQUIRED.



RAISED WOOD WALKWAY
NOT TO SCALE



WOOD BRIDGE AND RAISED WALKWAY CONNECTOR AT SHELL PATH
NOT TO SCALE



WOOD BRIDGE
NOT TO SCALE

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REVISED DETAILS 6/6/01 PER D.E.P. COMMENTS
REVISED DETAILS 6/21/01 BUILDING PERMIT
REVISED DETAILS 1/1/02 SILL MODIFICATIONS

DECKING DETAILS

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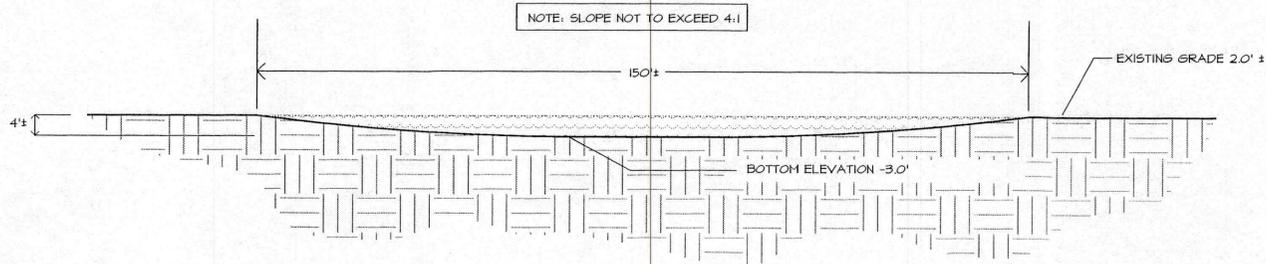
PROJECT NO.	20-13
SCALE	N/A
DATE	9/18/00
DRAWN BY	P.J.S.
ISSUED	11/16/00

LANDSCAPE DEVELOPMENT PLANS FOR
DURANTE PARK PHASE IV
 LONGBOAT KEY, FLORIDA

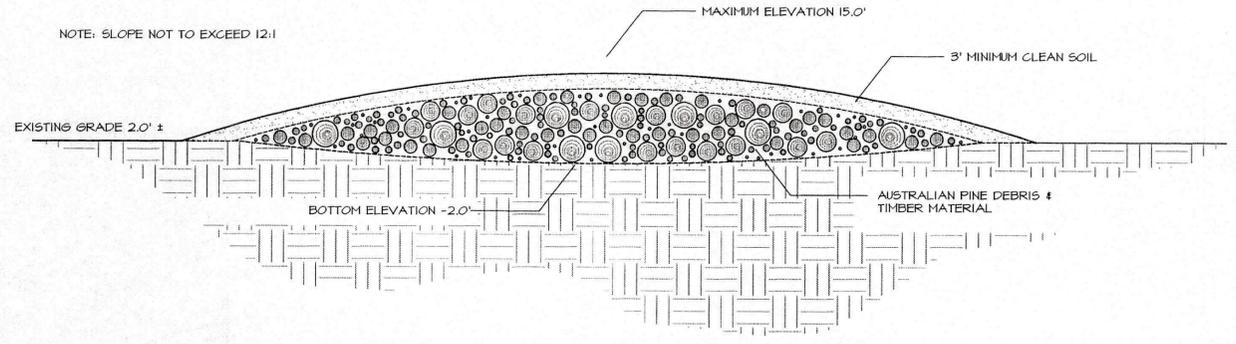
SHEET NO.

L-2

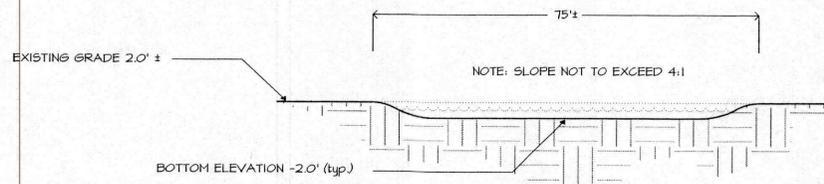
NOTE: CONTRACTOR SHALL FIELD ADJUST GRADES IN WETLAND AREA AS DIRECTED BY LANDSCAPE ARCHITECT, D.E.P. OR LONGBOAT KEY REPRESENTATIVES. GRADES WILL BE REQUIRED TO BE ADJUSTED FOR WETLAND TO HAVE POSITIVE FLOW.



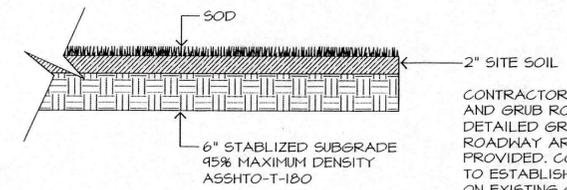
SECTION AA: WETLAND RESOURCE RECOVERY
NOT TO SCALE



SECTION BB: SITE CLEARING DEBRIS
NOT TO SCALE



SECTION CC: WETLAND RESOURCE RECOVERY
NOT TO SCALE



GRASS ROAD SECTION DETAIL
NOT TO SCALE

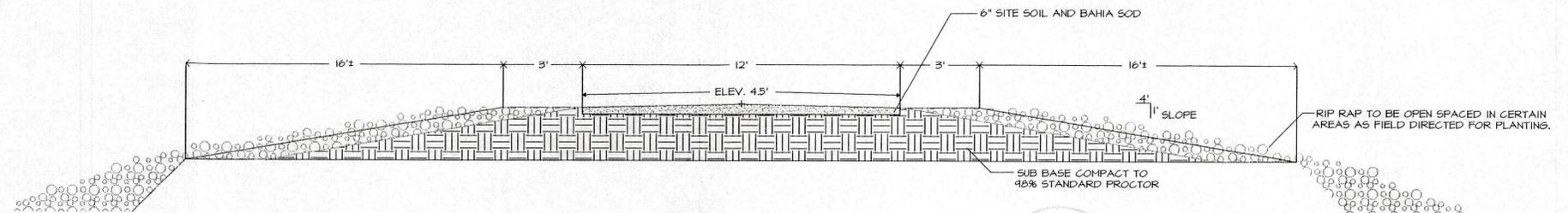
WETLAND RESOURCE RECOVERY AND PATH AREA PLANTING

NOTE: THE CONTRACTOR SHALL INSTALL THE FOLLOWING VEGETATION PLANTS AFTER COMPLETION OF ALL EXCAVATION AROUND SHELL PATHWAY INSTALLATION.

PLANTINGS SHALL BE INSTALLED IN LOCATIONS AS FIELD DIRECTED BY LANDSCAPE ARCHITECT.

ALL PLANTINGS SHALL BE WATERED BY TRUCK AND WATER TANK A MINIMUM OF TWO TIMES PER WEEK FOR 30 DAYS AFTER INSTALLATION.

QTY.	BOTANICAL NAME	COMMON NAME	SIZE
1000	SPARTINA BAKERI	CORDGRASS	1 GALLON FULL
2000	JUNCUS ROEMERIANUS	NEEDLE RUSH	1 GALLON FULL
500	COCCOLOBA UVIFERA	SEA GRAPE	1 GALLON FULL
2000	HELIANTHUS DEBILIS	DUNE SUNFLOWER	4" POT
2000	BORRICHIA FRUTESCENS	SILVER SEA OXEYE DAISY	2" LINER
500	CONOCARPUS ERECTUS	GREEN BUTTWOOD	1 GALLON FULL



SECTION EE: ACCESS ROADWAY
NOT TO SCALE

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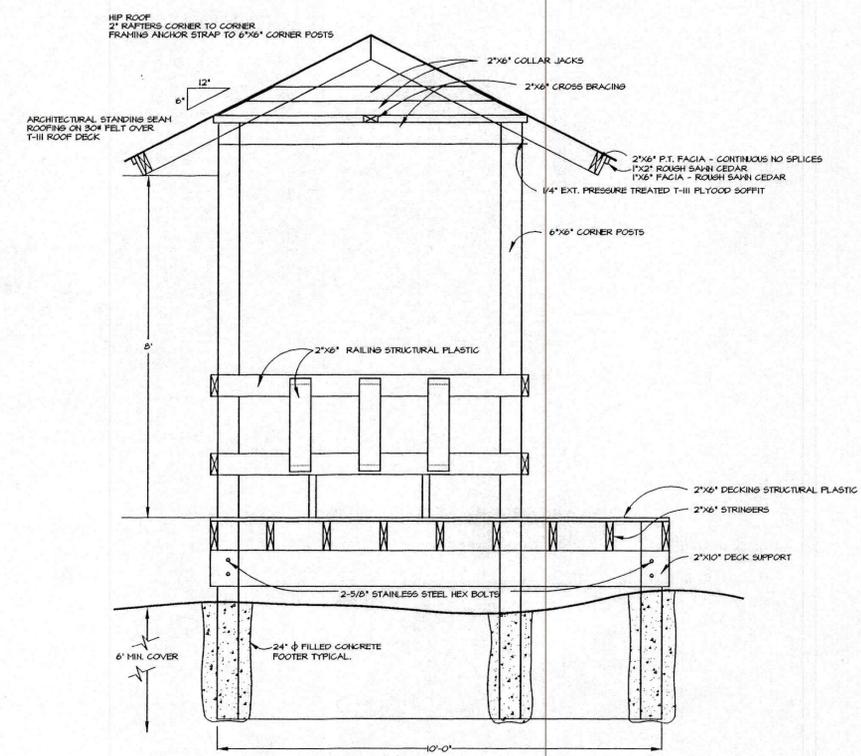
REVISED 6/21/01 BUILDING PERMIT
REVISED 1/1/02 - BERM

CONSTRUCTION DETAILS

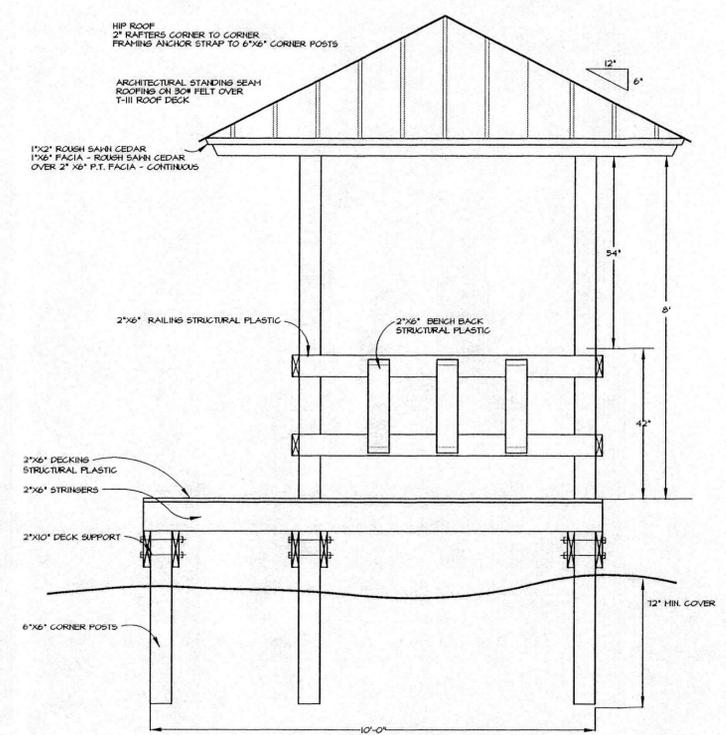
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SCALE	AS NOTED
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DRAWN BY	PLS/LFH
ISSUED	1/16/00

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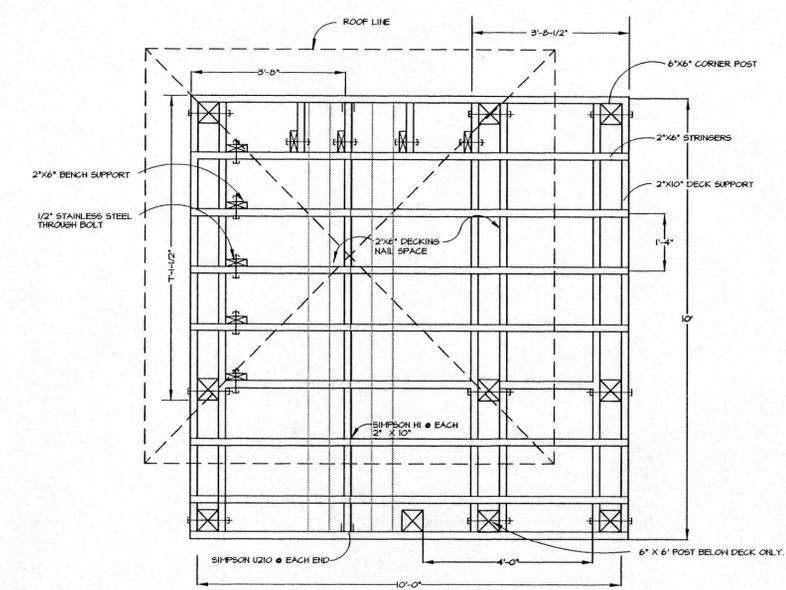
PROJECT NO.	20-18
SCALE	1/2"=1'
DATE	9/19/00
DRAWN BY	PJS
ISSUED	11/16/00



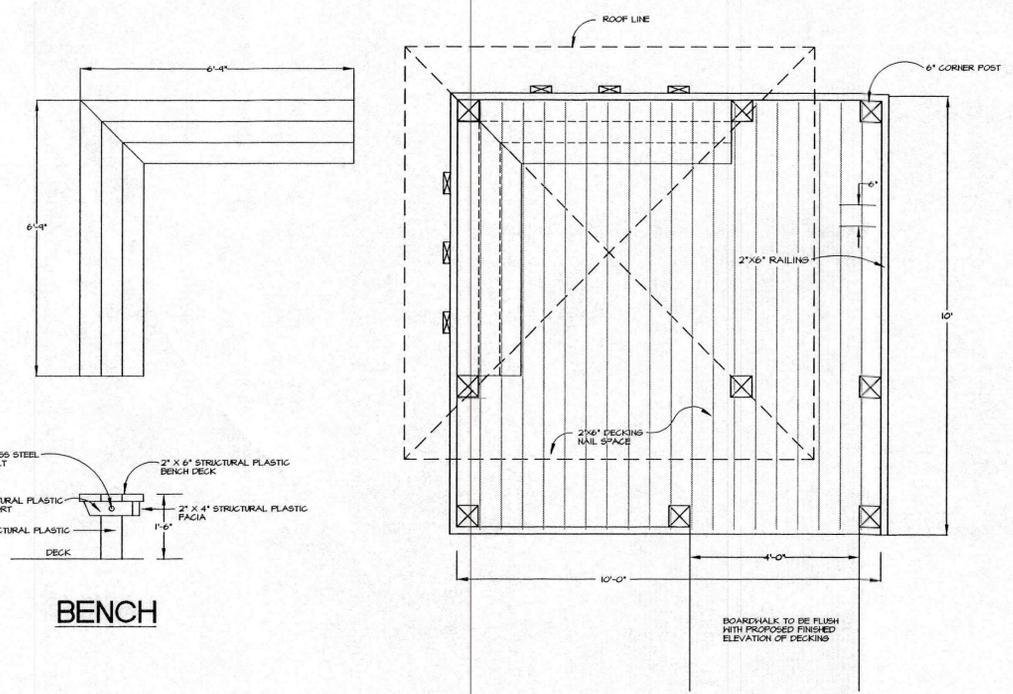
SECTION



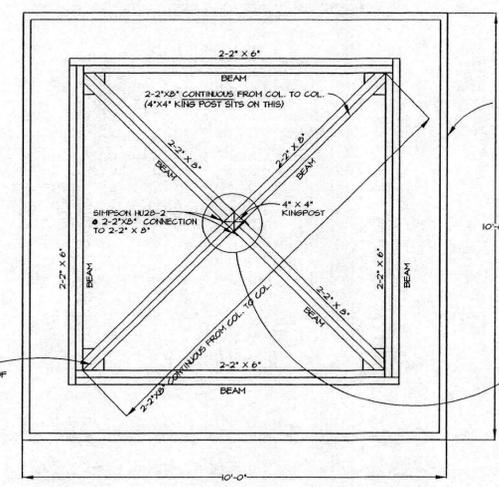
ELEVATION



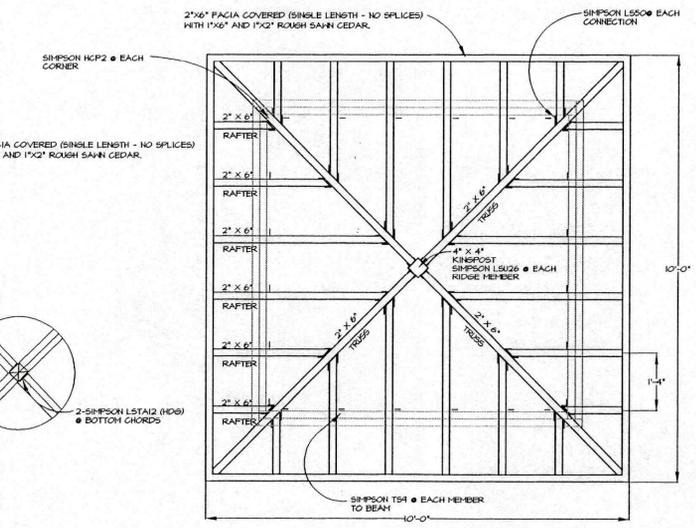
FLOOR FRAMING PLAN



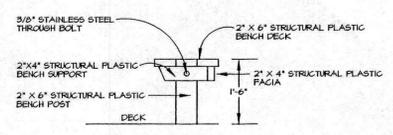
PLAN VIEW



ROOF SUPPORT PLAN



ROOF FRAMING PLAN



BENCH

- CONSTRUCTION NOTES:**
1. ALL CONSTRUCTION LUMBER SHALL BE CERTIFIED PRESSURE TREATED LUMBER, FOR MARINE CONTACT (0.60 PCF CCA)
 2. ALL COMPONENTS SHALL BE CONNECTED USING STAINLESS HARDWARE, STAPLES OR ZINC COATED MATERIAL SHALL NOT BE USED. ALL DECKING SHALL BE SCREWED TO FLOOR JOISTS.
 3. SIMPSON STRONG TIE CONNECTORS SHALL BE USED ON ALL FRAMING. (STAINLESS STEEL)
 4. ALL EXPOSED WOOD SURFACES SHALL BE ROUTED OR SANDED SMOOTH.
 5. ALL 6\"/>


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REVISED 6/1/01 PER D.E.P. COMMENTS
 REVISED 6/21/01 BUILDING PERMIT
 REVISED 7/9/01 PER L.B.K. COMMENTS
 REVISED 1/1/02 DELETED FENCE FABRIC

NOTES

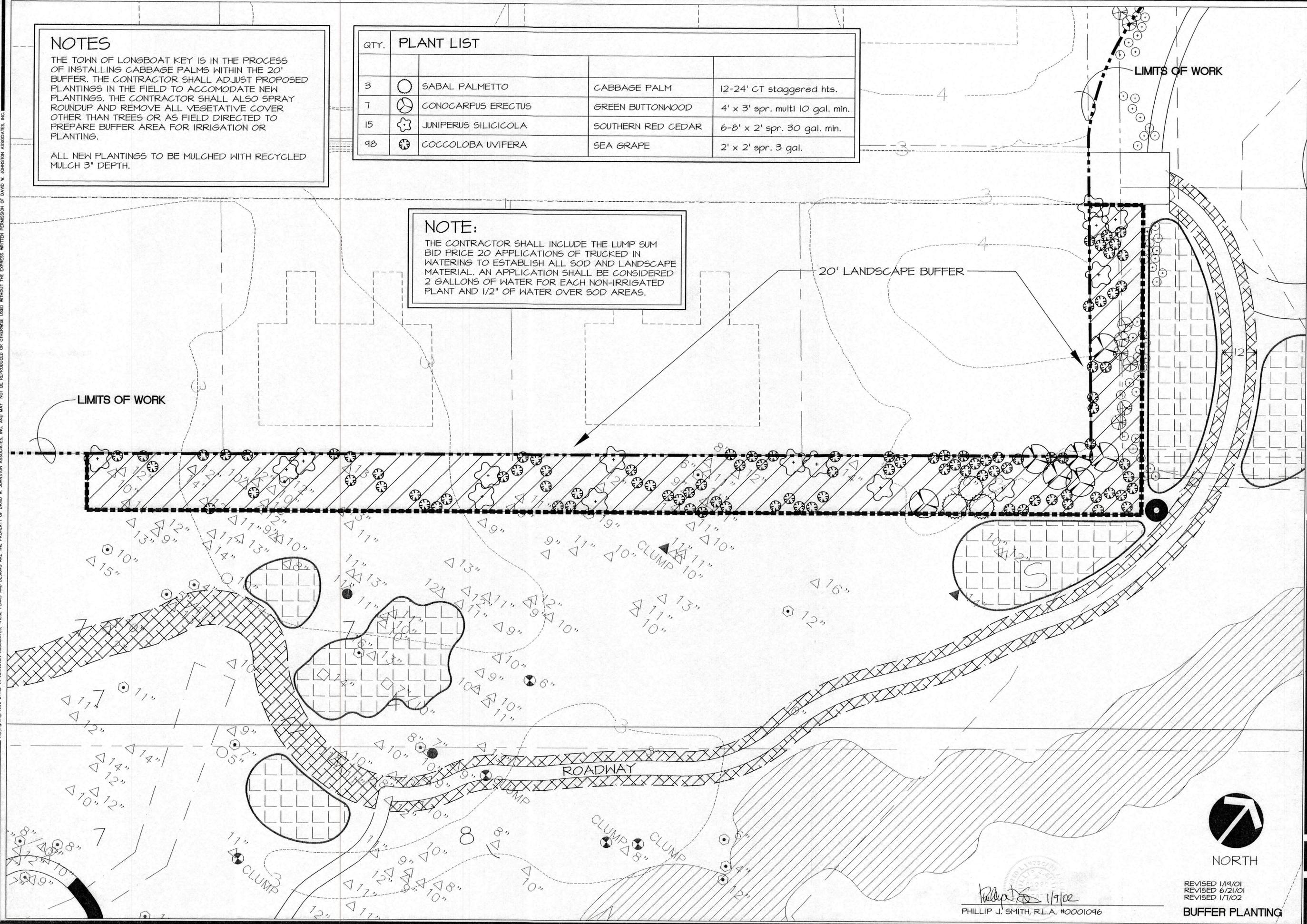
THE TOWN OF LONGBOAT KEY IS IN THE PROCESS OF INSTALLING CABBAGE PALMS WITHIN THE 20' BUFFER. THE CONTRACTOR SHALL ADJUST PROPOSED PLANTINGS IN THE FIELD TO ACCOMMODATE NEW PLANTINGS. THE CONTRACTOR SHALL ALSO SPRAY ROUNDUP AND REMOVE ALL VEGETATIVE COVER OTHER THAN TREES OR AS FIELD DIRECTED TO PREPARE BUFFER AREA FOR IRRIGATION OR PLANTING.

ALL NEW PLANTINGS TO BE MULCHED WITH RECYCLED MULCH 3" DEPTH.

QTY.	PLANT LIST			
3		SABAL PALMETTO	CABBAGE PALM	12-24' CT staggered hts.
7		CONOCARPUS ERECTUS	GREEN BUTTONWOOD	4' x 3' spr. multi 10 gal. min.
15		JUNIPERUS SILICICOLA	SOUTHERN RED CEDAR	6-8' x 2' spr. 30 gal. min.
98		COCCOLOBA UVIFERA	SEA GRAPE	2' x 2' spr. 3 gal.

NOTE:

THE CONTRACTOR SHALL INCLUDE THE LUMP SUM BID PRICE 20 APPLICATIONS OF TRUCKED IN WATERING TO ESTABLISH ALL SOD AND LANDSCAPE MATERIAL. AN APPLICATION SHALL BE CONSIDERED 2 GALLONS OF WATER FOR EACH NON-IRRIGATED PLANT AND 1/2" OF WATER OVER SOD AREAS.



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PROJECT NO.	20-13
SCALE	1"=4'
DATE	9/19/00
DRAWN BY	LH
ISSUED	11/9/00

LANDSCAPE DEVELOPMENT PLANS FOR
DURANTE PARK PHASE IV
 LONGBOAT KEY, FLORIDA

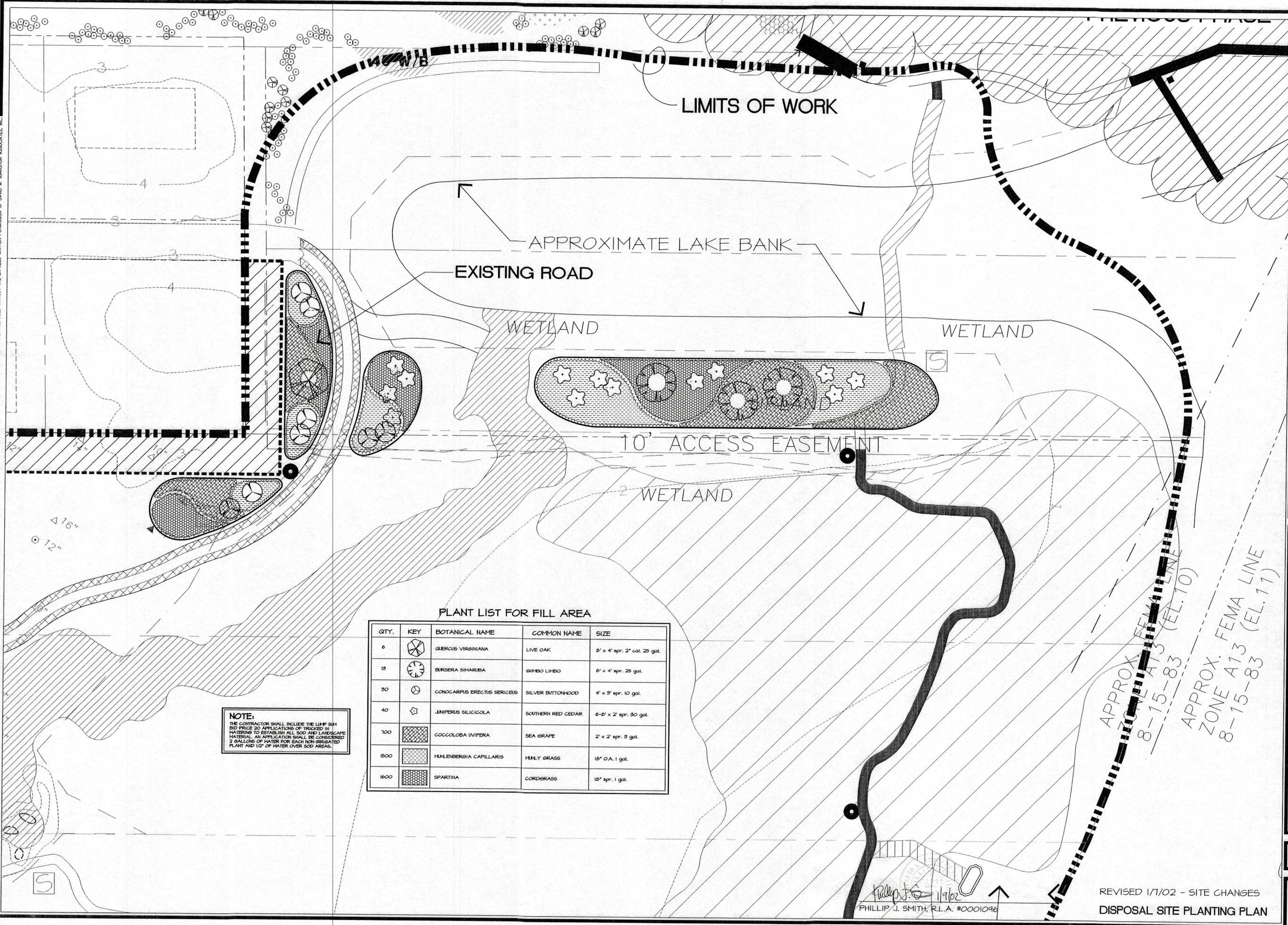
SHEET NO.	L-6
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 1/19/02

REVISD 1/19/01
 REVISD 6/21/01
 REVISD 1/1/02
BUFFER PLANTING

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PLANT LIST FOR FILL AREA

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE
6		QUERCUS VIRGINIANA	LIVE OAK	8' x 4' spr. 2" cal. 25 gal.
15		BURSERA SIMARUBA	GUMBO LIMBO	8' x 4' spr. 25 gal.
30		CONOCARPUS ERECTUS SERICEUS	SILVER BUTTONWOOD	4' x 3' spr. 10 gal.
40		JUNIPERUS SILICICOLA	SOUTHERN RED CEDAR	6-8' x 2' spr. 30 gal.
700		COCCOLOBA UVIFERA	SEA GRAPE	2' x 2' spr. 3 gal.
1500		MIMLENERGIA CAPILLARIS	MIMLY GRASS	15' O.A. 1 gal.
1600		SPARTINA	CORDERASS	15' spr. 1 gal.

NOTE:
 THE CONTRACTOR SHALL INCLUDE THE LUMP SUM BID PRICE TO APPLICATIONS OF TRUCKED IN MATERIALS TO ESTABLISH ALL SOIL AND LANDSCAPE MATERIAL. AN APPLICATION SHALL BE CONSIDERED 2 GALLONS OF WATER FOR EACH NON-IRRIGATED PLANT AND 1/2" OF WATER OVER SOIL AREAS.

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PROJECT NO.	20-18
SCALE	T = 20'
DATE	9/30/00
DRAWN BY	LFH
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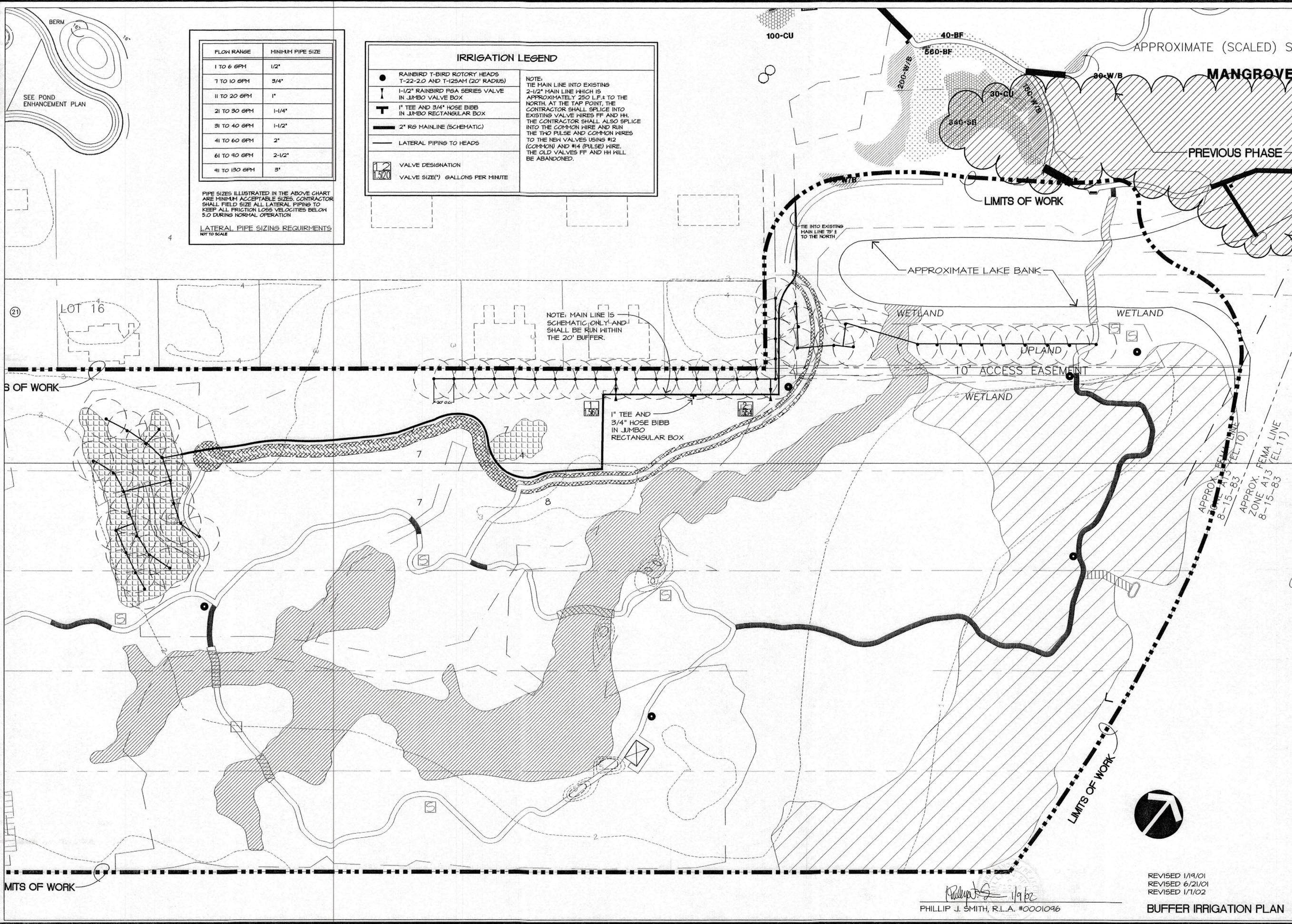
LANDSCAPE DEVELOPMENT PLANS FOR
DURANTE PARK PHASE IV
 LONGBOAT KEY, FLORIDA

REV. 6/21/01

SHEET NO.
L-7B

REVISED 1/7/02 - SITE CHANGES
 DISPOSAL SITE PLANTING PLAN

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FLOW RANGE	MINIMUM PIPE SIZE
1 TO 6 GPM	1/2"
7 TO 10 GPM	3/4"
11 TO 20 GPM	1"
21 TO 30 GPM	1-1/4"
31 TO 40 GPM	1-1/2"
41 TO 60 GPM	2"
61 TO 90 GPM	2-1/2"
91 TO 130 GPM	3"

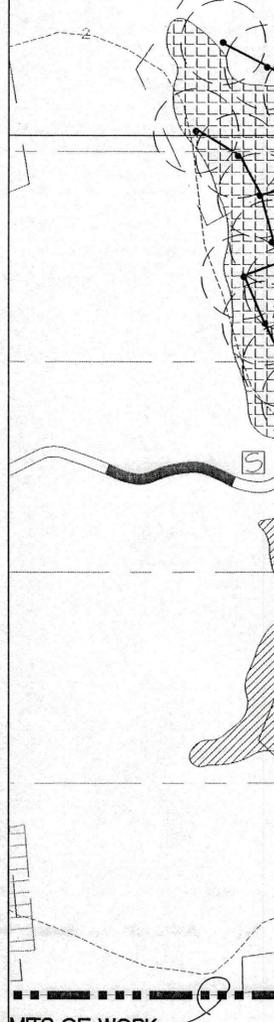
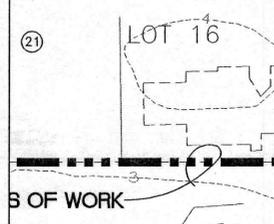
PIPE SIZES ILLUSTRATED IN THE ABOVE CHART ARE MINIMUM ACCEPTABLE SIZES. CONTRACTOR SHALL FIELD SIZE ALL LATERAL PIPING TO KEEP ALL FRICTION LOSS VELOCITIES BELOW 5.0 DURING NORMAL OPERATION.

LATERAL PIPE SIZING REQUIREMENTS NOT TO SCALE

IRRIGATION LEGEND

<ul style="list-style-type: none"> ● RAINBIRD T-BIRD ROTARY HEADS T-22-2.0 AND T-125AM (20' RADIUS) ⊥ 1-1/2" RAINBIRD PGA SERIES VALVE IN JUMBO VALVE BOX T 1" TEE AND 3/4" HOSE BIBB IN JUMBO RECTANGULAR BOX — 2" RØ MAINLINE (SCHEMATIC) — LATERAL PIPING TO HEADS 	<p>NOTE: TIE MAIN LINE INTO EXISTING 2-1/2" MAIN LINE WHICH IS APPROXIMATELY 250 L.F. ± TO THE NORTH. AT THE TAP POINT, THE CONTRACTOR SHALL SPLICE INTO EXISTING VALVE WIRES FF AND HH. THE CONTRACTOR SHALL ALSO SPLICE INTO THE COMMON WIRE AND RUN THE TWO PULSE AND COMMON WIRES TO THE NEW VALVES USING #12 (COMMON) AND #14 (PULSE) WIRE. THE OLD VALVES FF AND HH WILL BE ABANDONED.</p>
--	--

	VALVE DESIGNATION
	VALVE SIZE(") GALLONS PER MINUTE



NOTE: MAIN LINE IS SCHEMATIC ONLY AND SHALL BE RUN WITHIN THE 20' BUFFER.

1" TEE AND 3/4" HOSE BIBB IN JUMBO RECTANGULAR BOX



PHILLIP J. SMITH, R.L.A. #0001096

REVISED 1/19/01
 REVISED 6/21/01
 REVISED 1/1/02
BUFFER IRRIGATION PLAN

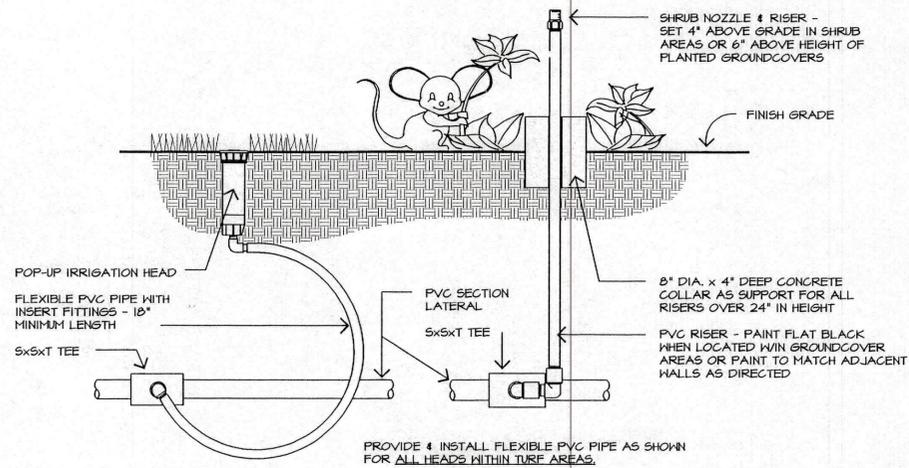
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PROJECT NO.	20-13
SCALE	1"=40'
DATE	9/13/00
DRAWN BY	LH
ISSUED	11/16/00

LANDSCAPE DEVELOPMENT PLANS FOR
DURANTE PARK PHASE IV
 LONGBOAT KEY, FLORIDA

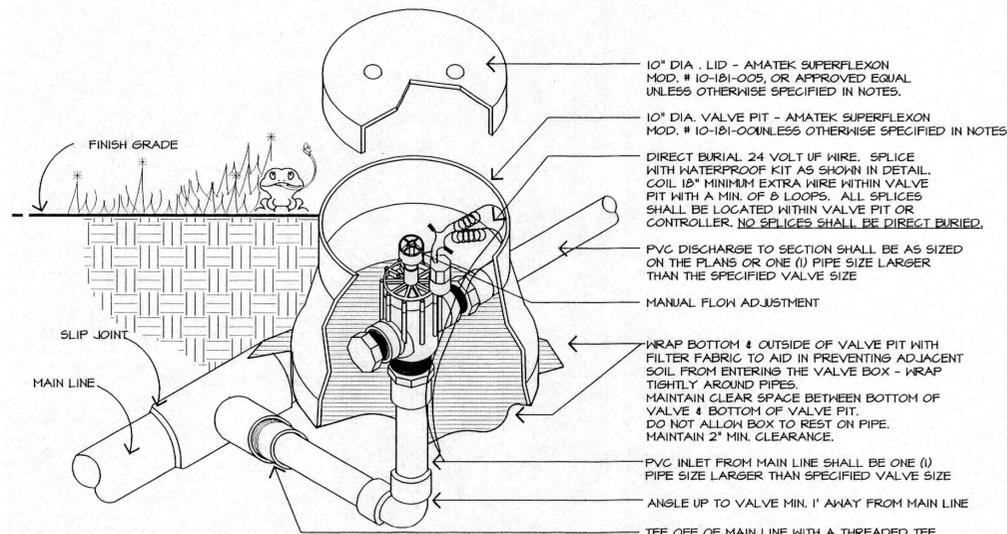
SHEET NO.
L-9

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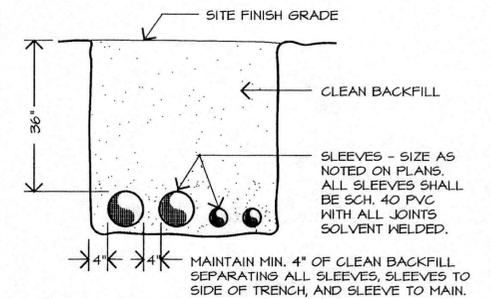
TYP. POP-UP / RISER INSTALLATION

NOT TO SCALE



TYPICAL ANGLE AUTOMATIC VALVE

NOT TO SCALE



SLEEVE / TRENCH DETAIL

NOT TO SCALE

IRRIGATION NOTES:

ALL HEAD LAYOUT HAS BEEN DESIGNED TO PROVIDE 100% COVERAGE WITH A MINIMUM OF 30% 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 10-181-014 WITH COVER MODEL NUMBER 10-181-015; 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 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.

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.

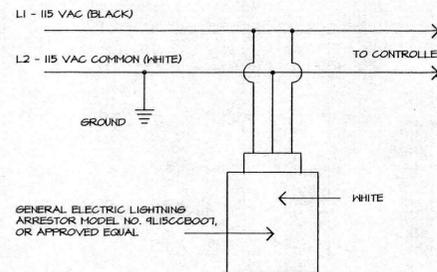
ALL 24 VAC WIRING SHALL BE OF DIRECT BURIAL COPPER WIRE AS FOLLOWS:
PULSE WIRES - #14
COMMON WIRES - #12

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 FURTHEST 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.

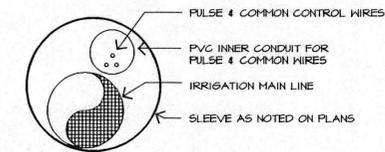
INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE.

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



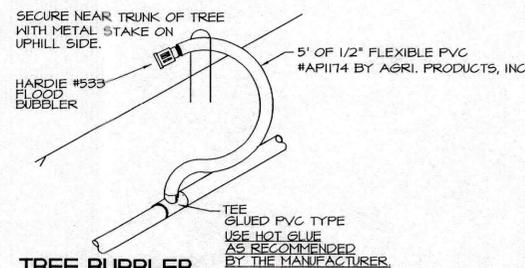
LIGHTNING ARRESTOR DETAIL

NOT TO SCALE



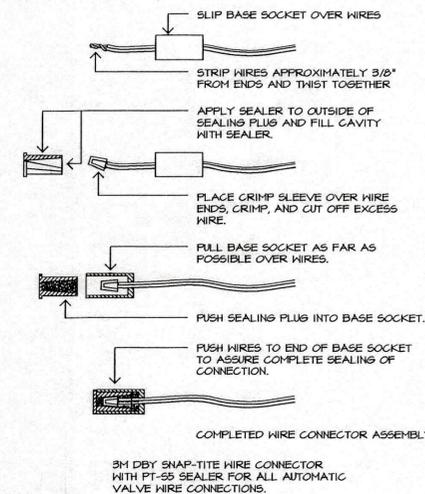
SLEEVE DETAIL

NOT TO SCALE



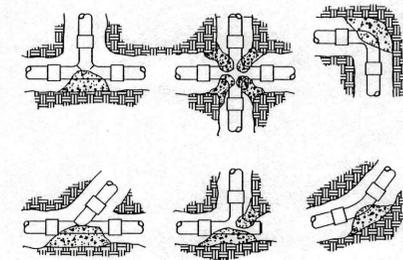
TREE BUBBLER

NOT TO SCALE



TYPICAL WIRE CONNECTION

NOT TO SCALE



THRUST BLOCKS SHALL BE CONSTRUCTED BEHIND ALL MAIN LINE FITTINGS, TEES, BENDS, REDUCERS, LINE VALVES, PLUGS, CAPS, ETC., IN ACCORDANCE WITH PIPE MANUFACTURERS RECOMMENDATIONS.
THRUST BLOCK SHALL BEAR AGAINST UNDISTURBED EARTH AND IN CASE THIS IS NOT POSSIBLE, THEY SHALL BE MADE CORRESPONDINGLY LARGER.
THRUST BLOCKS SHALL BE SO PLACED AS NOT TO INTERFERE WITH REPAIR TO JOINTS AND COUPLINGS AND SHALL BE A CONCRETE MIX CONSISTING OF ONE PART CEMENT, TWO PARTS SAND, AND 5 PARTS GRAVEL, MIXED AND PLACED FAIRLY DRY SO THEY MAY BE SHAPED EASILY. NO PRECAST UNITS SHALL BE USED.
PROVIDE & INSTALL 15# ROOFING FELT AS A SEPARATOR BETWEEN PIPE, FITTINGS & THRUST BLOCKS. PLACE CONCRETE DIRECTLY AGAINST FELT BUT NOT AGAINST PVC.
THRUST BLOCKS SHALL BE INSPECTED PRIOR TO BACKFILLING.

THRUST BLOCKING

NOT TO SCALE

PHILLIP J. SMITH, R.L.A. #0001096

REVISED 6/21/01 BUILDING PERMIT

IRRIGATION DETAILS

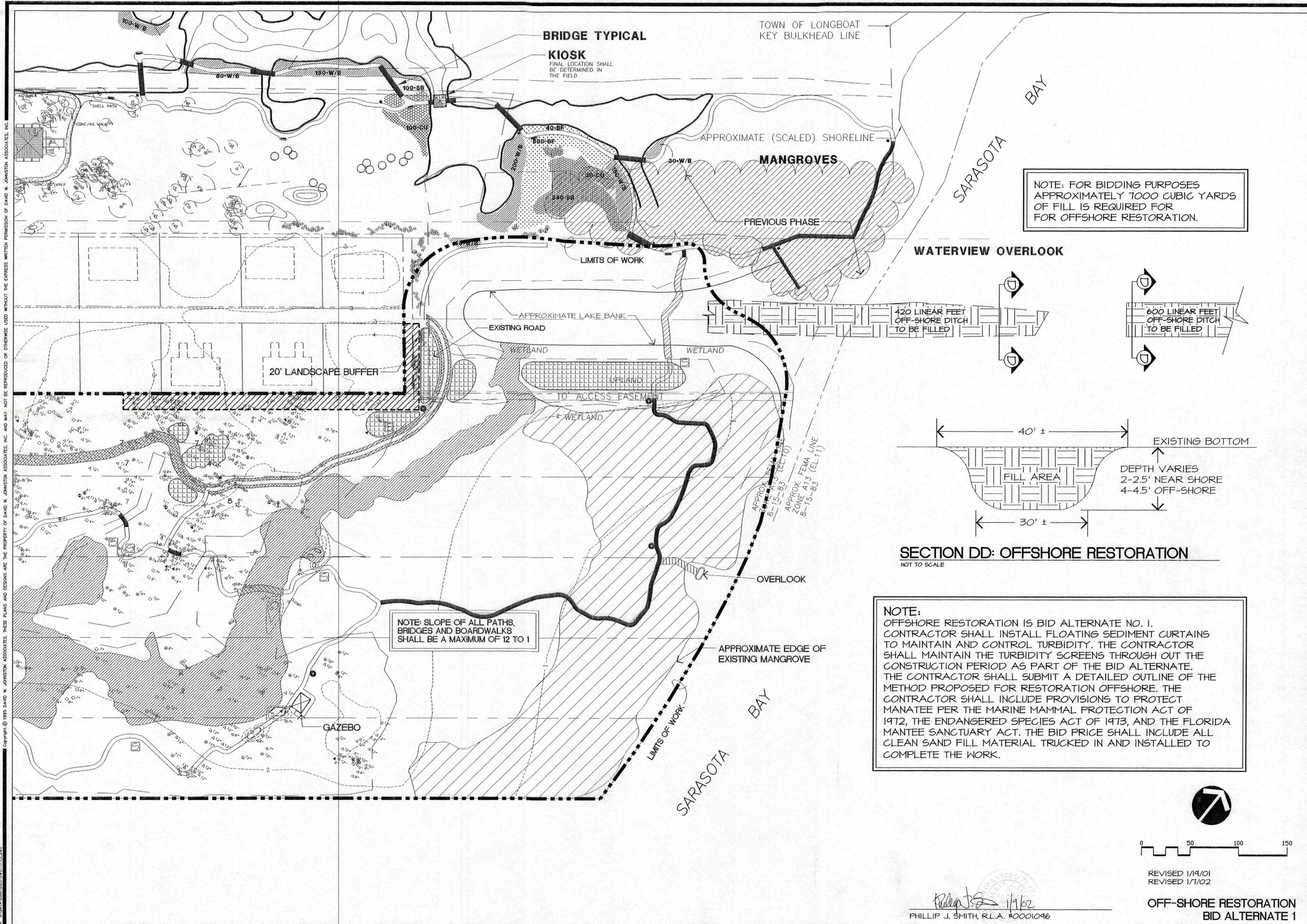
dwjja LANDSCAPE ARCHITECTS
DAVID W. JOHNSON ASSOCIATES
1487 SECOND STREET, SUITE E • SARASOTA, FL 34236 • (813) 966-3159

PROJECT NO.	20-18
SCALE	N/A
DATE	9/15/00
DRAWN BY	PJS
ISSUED	11/6/00

LANDSCAPE DEVELOPMENT PLANS FOR
DURANTE PARK PHASE IV
LONGBOAT KEY, FLORIDA

SHEET NO.

L-10



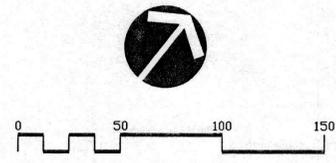
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NOTE: FOR BIDDING PURPOSES
 APPROXIMATELY 7000 CUBIC YARDS
 OF FILL IS REQUIRED FOR
 FOR OFFSHORE RESTORATION.

NOTE: SLOPE OF ALL PATHS,
 BRIDGES AND BOARDWALKS
 SHALL BE A MAXIMUM OF 12 TO 1

NOTE:
 OFFSHORE RESTORATION IS BID ALTERNATE NO. 1.
 CONTRACTOR SHALL INSTALL FLOATING SEDIMENT CURTAINS
 TO MAINTAIN AND CONTROL TURBIDITY. THE CONTRACTOR
 SHALL MAINTAIN THE TURBIDITY SCREENS THROUGH OUT THE
 CONSTRUCTION PERIOD AS PART OF THE BID ALTERNATE.
 THE CONTRACTOR SHALL SUBMIT A DETAILED OUTLINE OF THE
 METHOD PROPOSED FOR RESTORATION OFFSHORE. THE
 CONTRACTOR SHALL INCLUDE PROVISIONS TO PROTECT
 MANATEE PER THE MARINE MAMMAL PROTECTION ACT OF
 1972, THE ENDANGERED SPECIES ACT OF 1973, AND THE FLORIDA
 MANATEE SANCTUARY ACT. THE BID PRICE SHALL INCLUDE ALL
 CLEAN SAND FILL MATERIAL TRUCKED IN AND INSTALLED TO
 COMPLETE THE WORK.

SECTION DD: OFFSHORE RESTORATION
 NOT TO SCALE



Phillip J. Smith 1/16/02
 PHILLIP J. SMITH, R.L.A. #0001096

REVISED 1/19/01
 REVISED 1/7/02

OFF-SHORE RESTORATION
 BID ALTERNATE 1

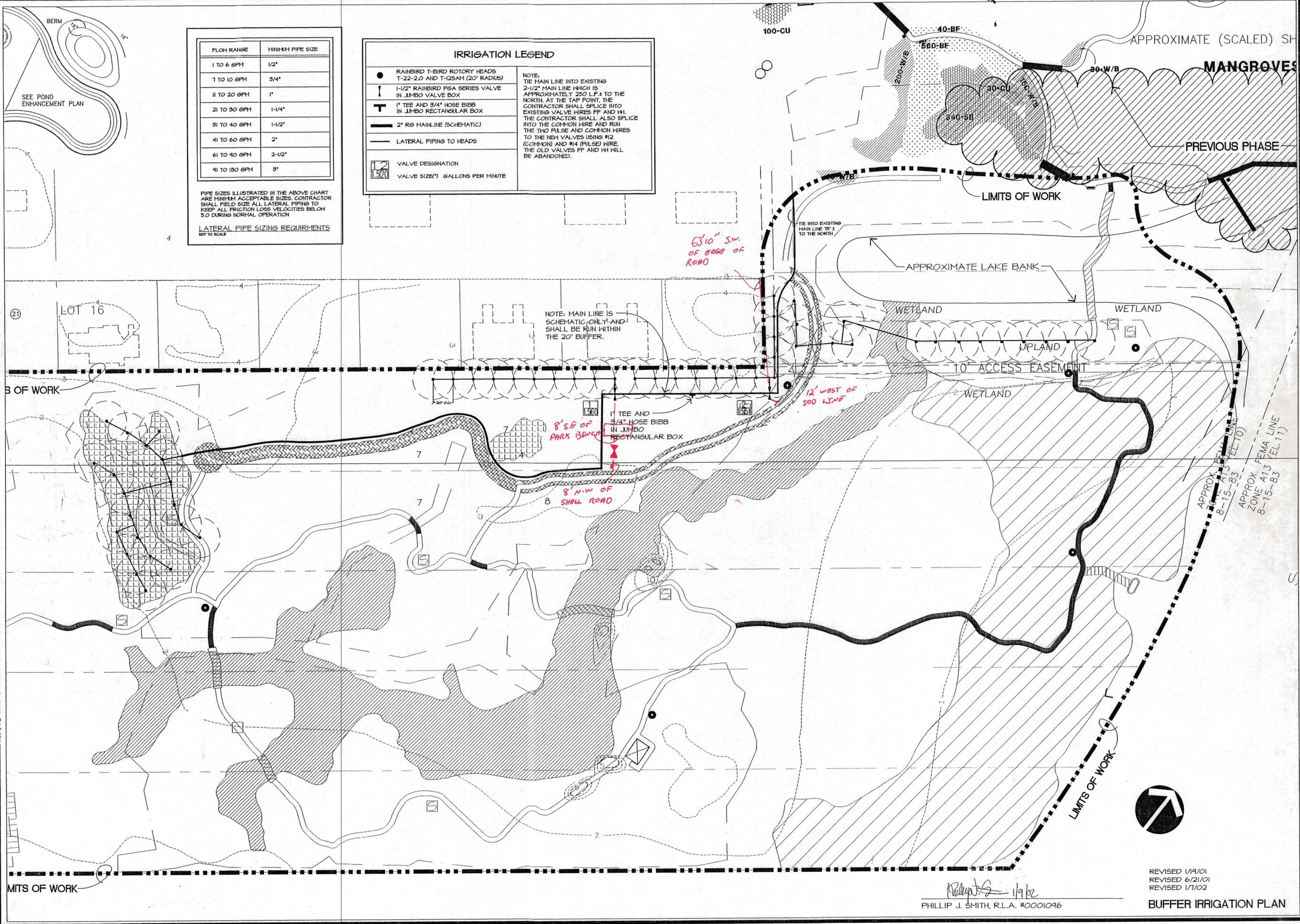
dwja LANDSCAPE ARCHITECTS
DAVID W. JOHNSTON ASSOCIATES
 1487 SECOND STREET SUITE E • SARASOTA, FL 34236 • (813) 366-3159

PROJECT NO.	20-13
SCALE	1"=50'
DATE	9/19/00
DRAWN BY	PJS
ISSUED	11/19/00

LANDSCAPE DEVELOPMENT PLANS FOR
DURANTE PARK PHASE IV
 LONGBOAT KEY, FLORIDA

SHEET NO.
 L-11

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FLOW RANGE	MINIMUM PIPE SIZE
1 TO 6 GPM	1/2"
7 TO 10 GPM	3/4"
11 TO 20 GPM	1"
21 TO 30 GPM	1-1/4"
31 TO 40 GPM	1-1/2"
41 TO 60 GPM	2"
61 TO 90 GPM	2-1/2"
91 TO 130 GPM	3"

PIPE SIZES ILLUSTRATED IN THE ABOVE CHART ARE MINIMUM ACCEPTABLE SIZES. CONTRACTOR SHALL FIELD SIZE ALL LATERAL PIPING TO KEEP ALL FRICTION LOSS VELOCITIES BELOW 5.0 DURING NORMAL OPERATION.

LATERAL PIPE SIZING REQUIREMENTS NOT TO SCALE

IRRIGATION LEGEND

- RAINBIRD T-BIRD ROTARY HEADS T-22-2.0 AND T-125AM (20' RADIUS)
- I 1-1/2" RAINBIRD PSA SERIES VALVE IN JUMBO VALVE BOX
- T 1" TEE AND 3/4" HOSE BIBB IN JUMBO RECTANGULAR BOX
- 2" RG MAINLINE (SCHEMATIC)
- LATERAL PIPING TO HEADS

NOTE:
TIE MAIN LINE INTO EXISTING 2-1/2" MAIN LINE WHICH IS APPROXIMATELY 250 L.F. TO THE NORTH AT THE TAP POINT. THE CONTRACTOR SHALL SPLICE INTO EXISTING VALVE WIRES FF AND HI. THE CONTRACTOR SHALL ALSO SPLICE INTO THE COMMON WIRE AND RUN THE TWO PULSE AND COMMON WIRES TO THE NEW VALVES USING #12 (COMMON) AND #14 (PULSE) WIRE. THE OLD VALVES FF AND HI WILL BE ABANDONED.

VALVE DESIGNATION
VALVE SIZE(") GALLONS PER MINUTE

NOTE: MAIN LINE IS SCHEMATIC ONLY AND SHALL BE RUN WITHIN THE 20' BUFFER.

1" TEE AND 3/4" HOSE BIBB IN JUMBO RECTANGULAR BOX



PHILLIP J. SMITH, R.L.A. #0001096

REVISED 1/19/01
REVISED 6/21/01
REVISED 1/1/02

BUFFER IRRIGATION PLAN

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

PROJECT NO.	20-13
SCALE	1"=40'
DATE	9/13/00
DRAWN BY	LH
ISSUED	11/16/00

LANDSCAPE DEVELOPMENT PLANS FOR
DURANTE PARK PHASE IV
LONGBOAT KEY, FLORIDA
IRRIGATION AS BUILTS

SHEET NO.
L-9