

BID SET NO. _____
REVISED 1/19/01
REVISED 6/21/01
REVISED 1/7/02

 INVESTIGATE
BEFORE YOU
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"CALL SUNSHINE STATE
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FL. STATUTE 553.851 (1979) REQUIRES
MIN. OF 2 DAYS AND MAX. OF 5 DAYS
NOTICE BEFORE YOU EXCAVATE.

SITE DEVELOPMENT PLANS FOR:

JOAN M. DURANTE COMMUNITY PARK PHASE IV

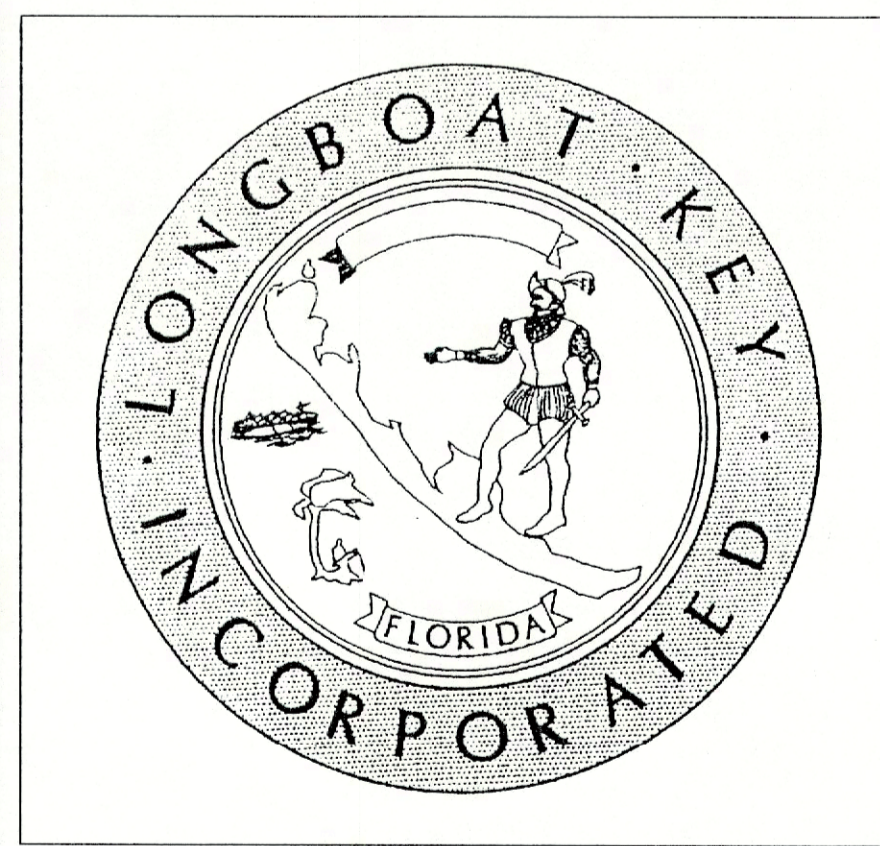
PREPARED BY:

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

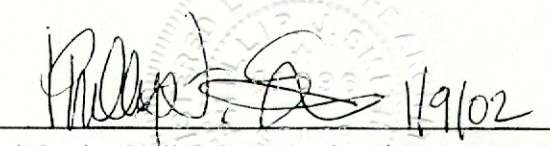
PREPARED BY:

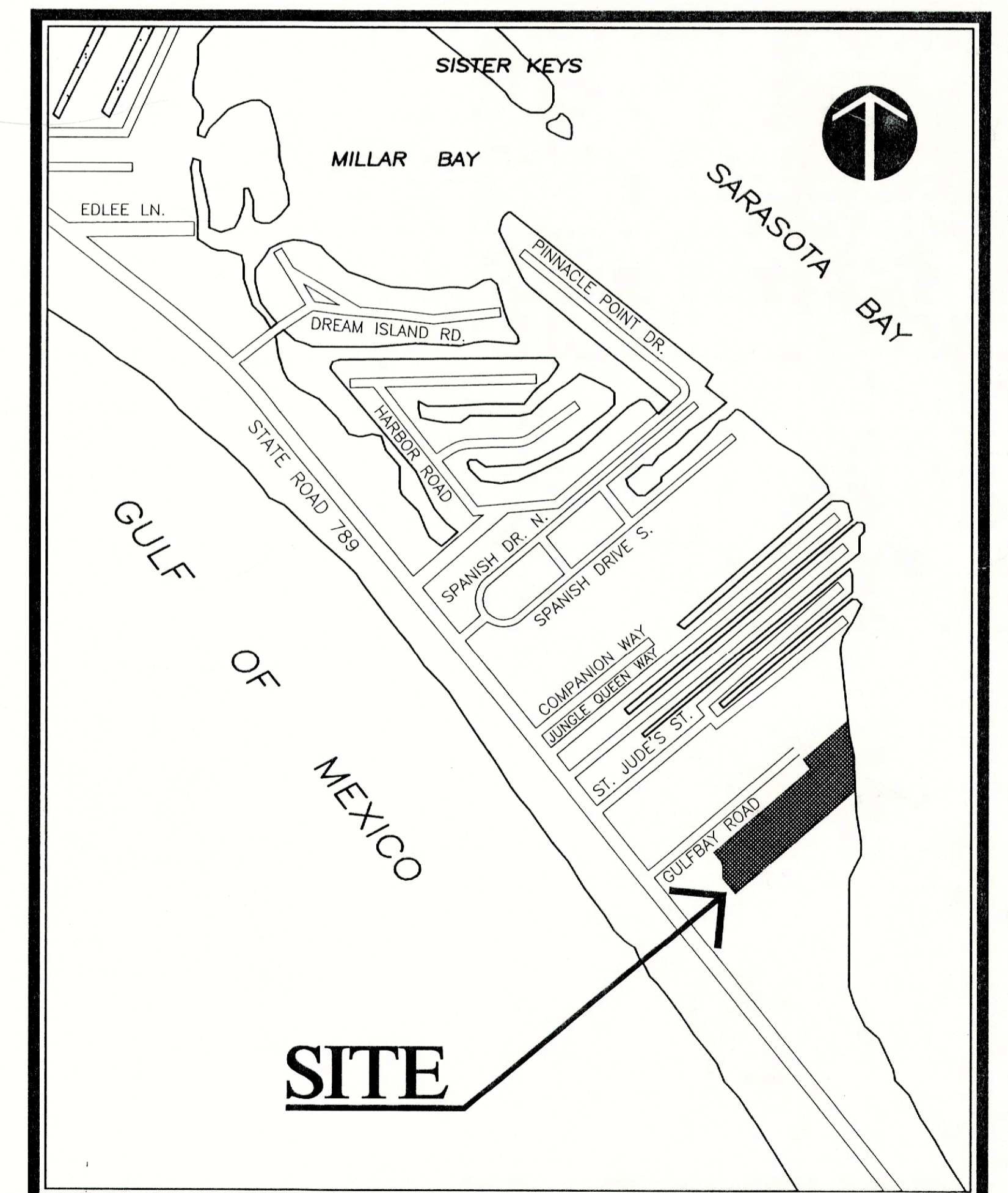
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LANDSCAPE ARCHITECTS

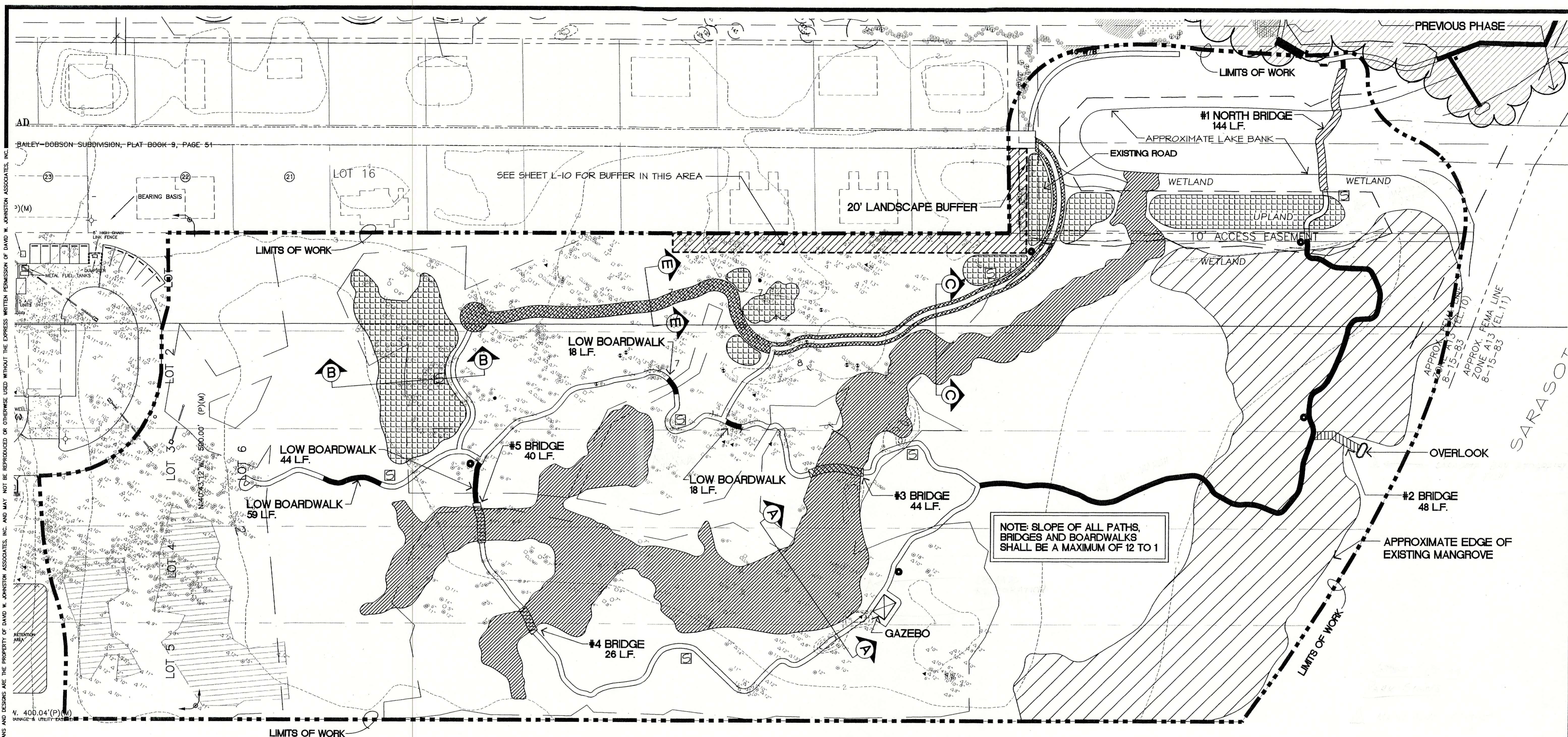
DAVID W. JOHNSTON ASSOCIATES

1491 SECOND STREET SUITE B • SARASOTA, FL 34236 • (941) 366-3159


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



SITE LOCATION MAP



AD
 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 BURYRY 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.

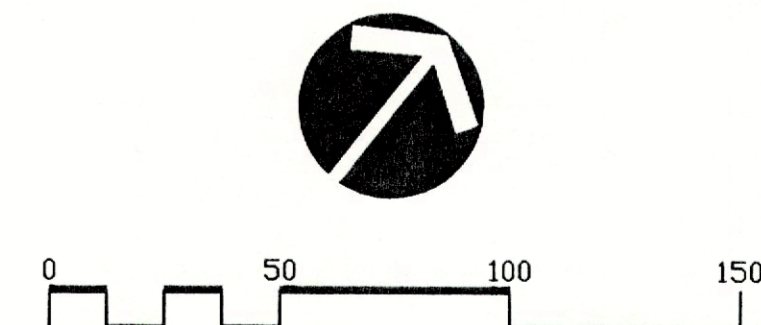
ALL FEATURES SHALL BE FIELD STAKED AND FIELD REVIEWED BY REPRESENTATIVES INDICATED ABOVE PRIOR TO CONSTRUCTION.

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



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

REVISED 1/19/01
 REVISED 6/21/01
 REVISED 7/1/01
 REVISED 12/12/01
 REVISED 1/1/02

SITE PLAN

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

PROJECT NO.	20-18
SCALE	1"=50'
DATE	9/13/00
DRAWN BY	PJS
CHECKED	11/16/00

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

SHEET NO.
 L-1

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NOTES

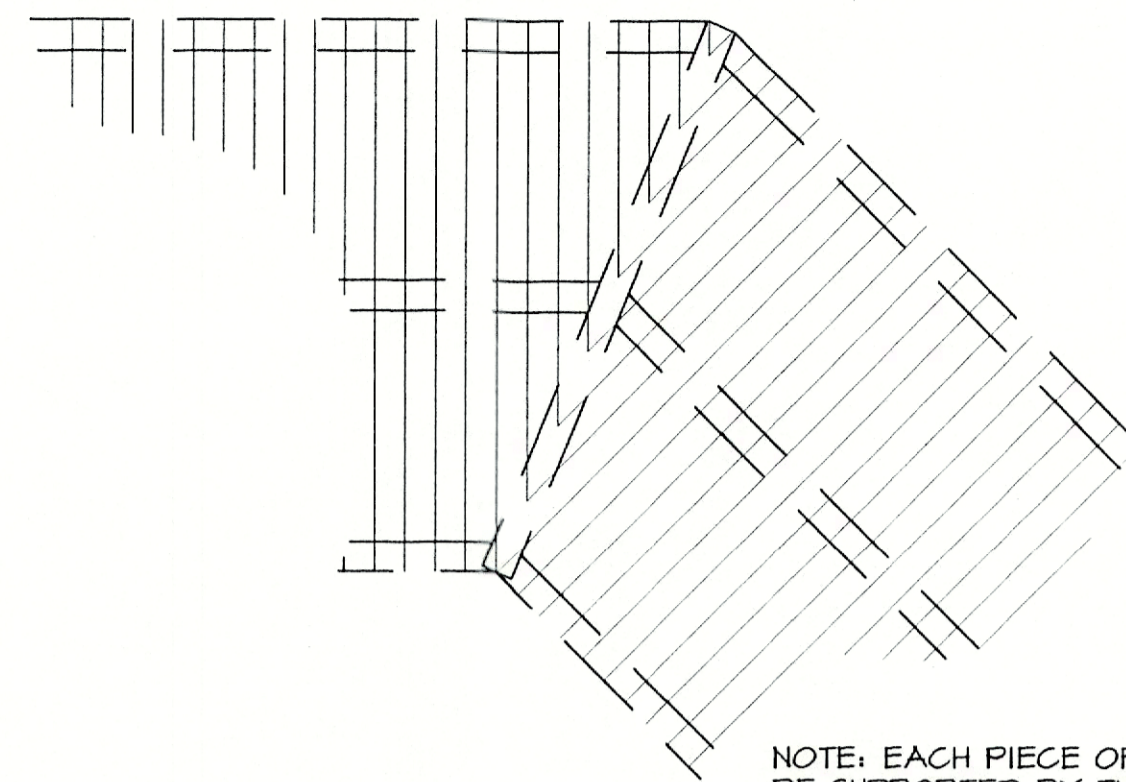
WOOD WALKWAY TO BE INSTALLED AS SHOWN ON THE PLANS. WALKWAY SHALL NOT EXCEED 2.0' ABOVE EXISTING GRADE.

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

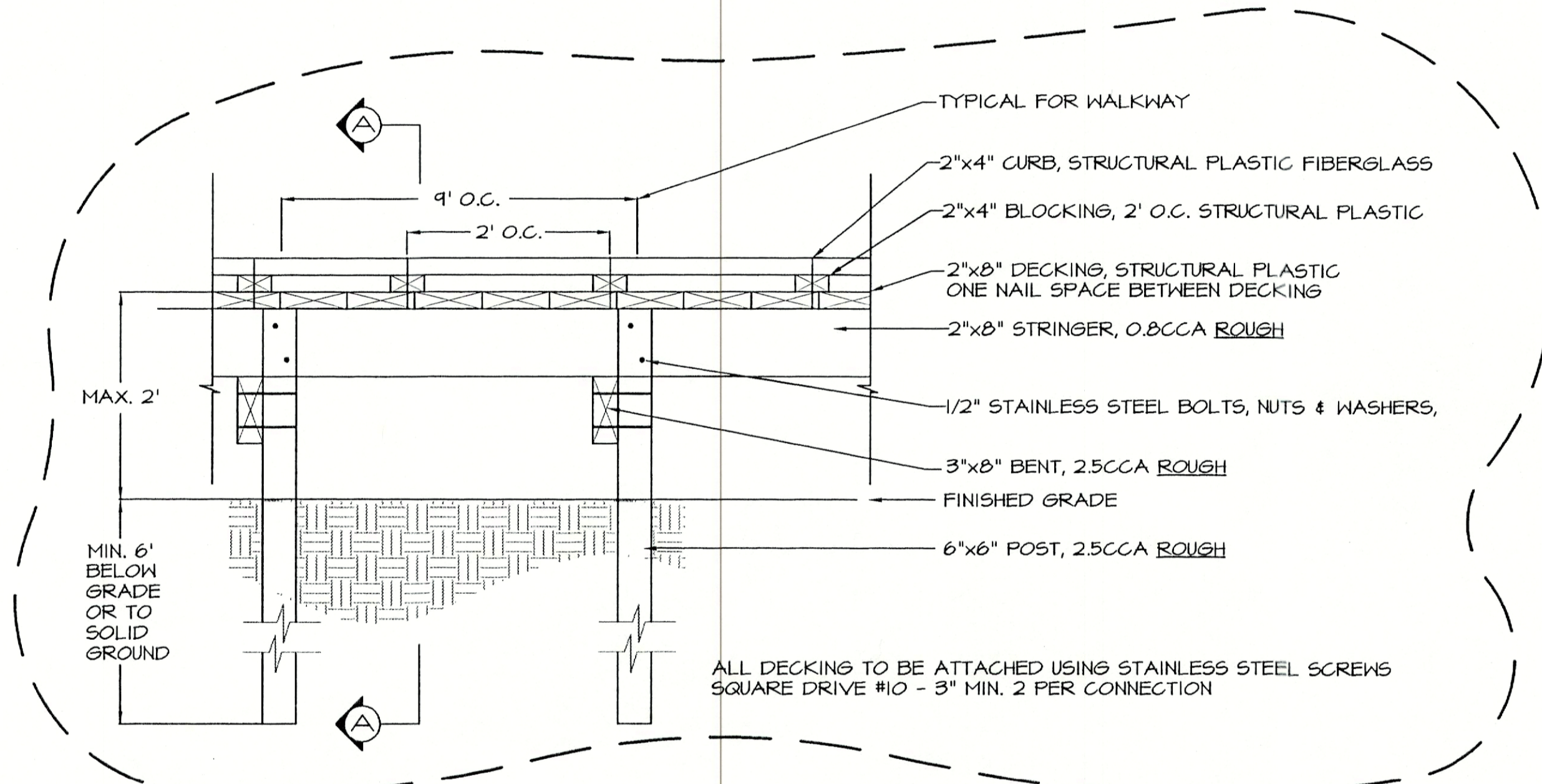
WOOD BRIDGE AND RAISED WALKWAY DESIGN SHALL BE USED FOR RAMP AREAS TO TRANSITION BETWEEN SHELL PATHS, WOOD WALKWAYS AND WOOD BRIDGE SECTIONS. RAMPS SHALL BE MAX. 1 ON 12 SLOPE.

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

PLAN VIEW
NOT TO SCALE

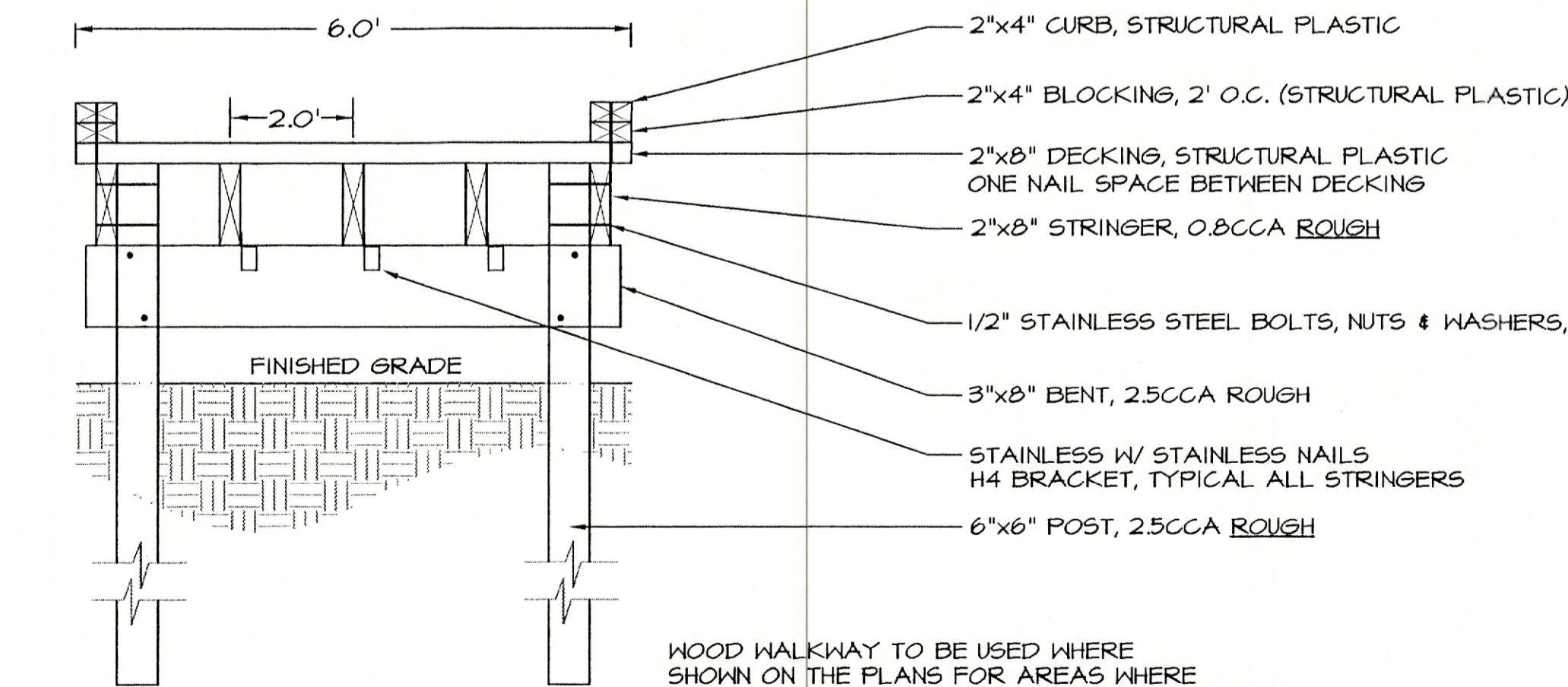


NOTE: EACH PIECE OF DECKING SHALL BE SUPPORTED BY TWO STRINGERS AND NAILED TO EACH. INTERMEDIATE BLOCKING TO PROVIDE SUPPORT SHALL BE PROVIDED AS REQUIRED.



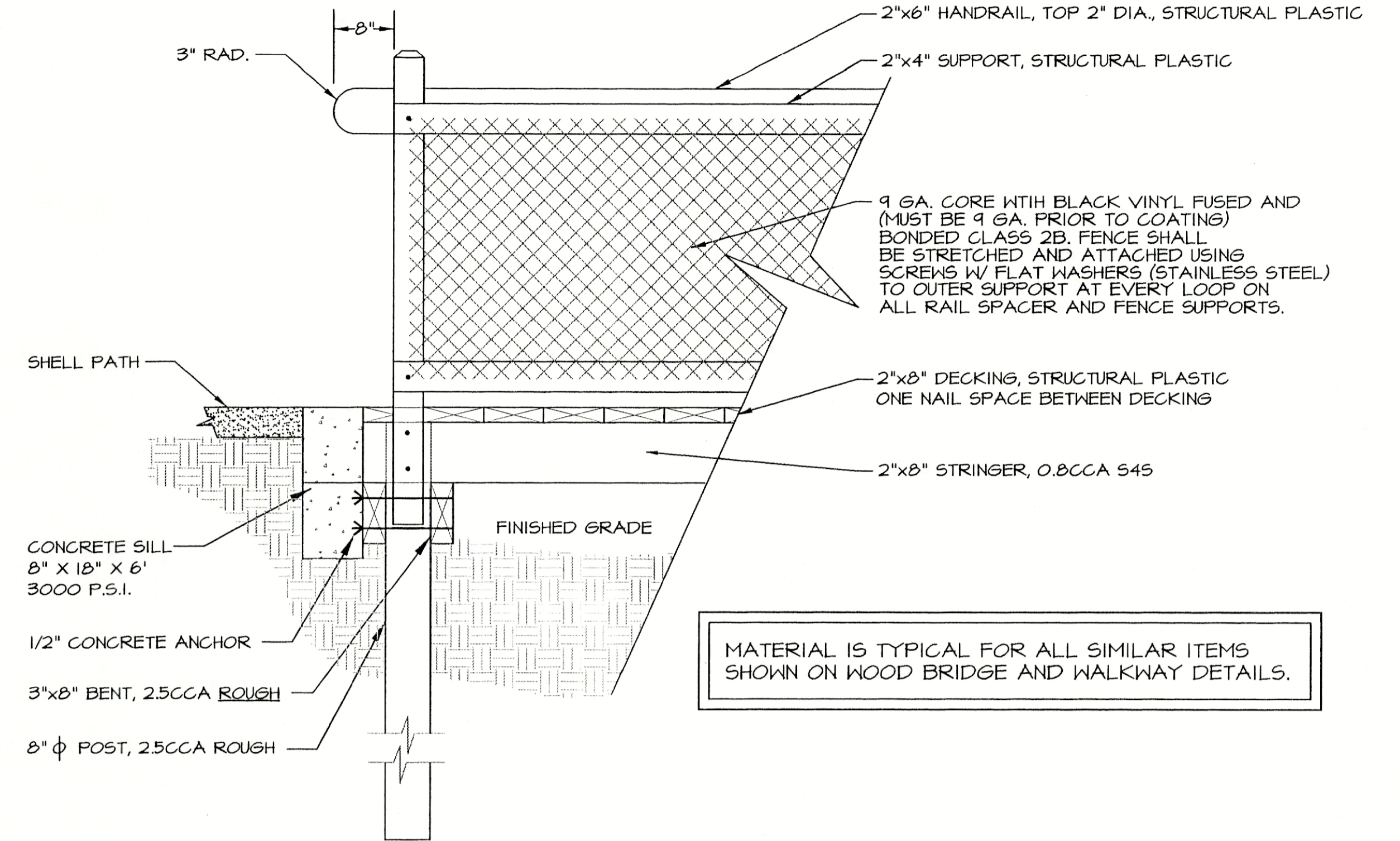
- TYPICAL FOR WALKWAY
- 2"x4" CURB, STRUCTURAL PLASTIC FIBERGLASS
- 2"x4" BLOCKING, 2' O.C. STRUCTURAL PLASTIC
- 2"x8" DECKING, STRUCTURAL PLASTIC ONE NAIL SPACE BETWEEN DECKING
- 2"x8" STRINGER, O.B.C.C.A. ROUGH
- 1/2" STAINLESS STEEL BOLTS, NUTS & WASHERS,
- 3"x8" BENT, 2.5CCA ROUGH
- FINISHED GRADE
- 6"x6" POST, 2.5CCA ROUGH

ALL DECKING TO BE ATTACHED USING STAINLESS STEEL SCREWS SQUARE DRIVE #10 - 3" MIN. 2 PER CONNECTION



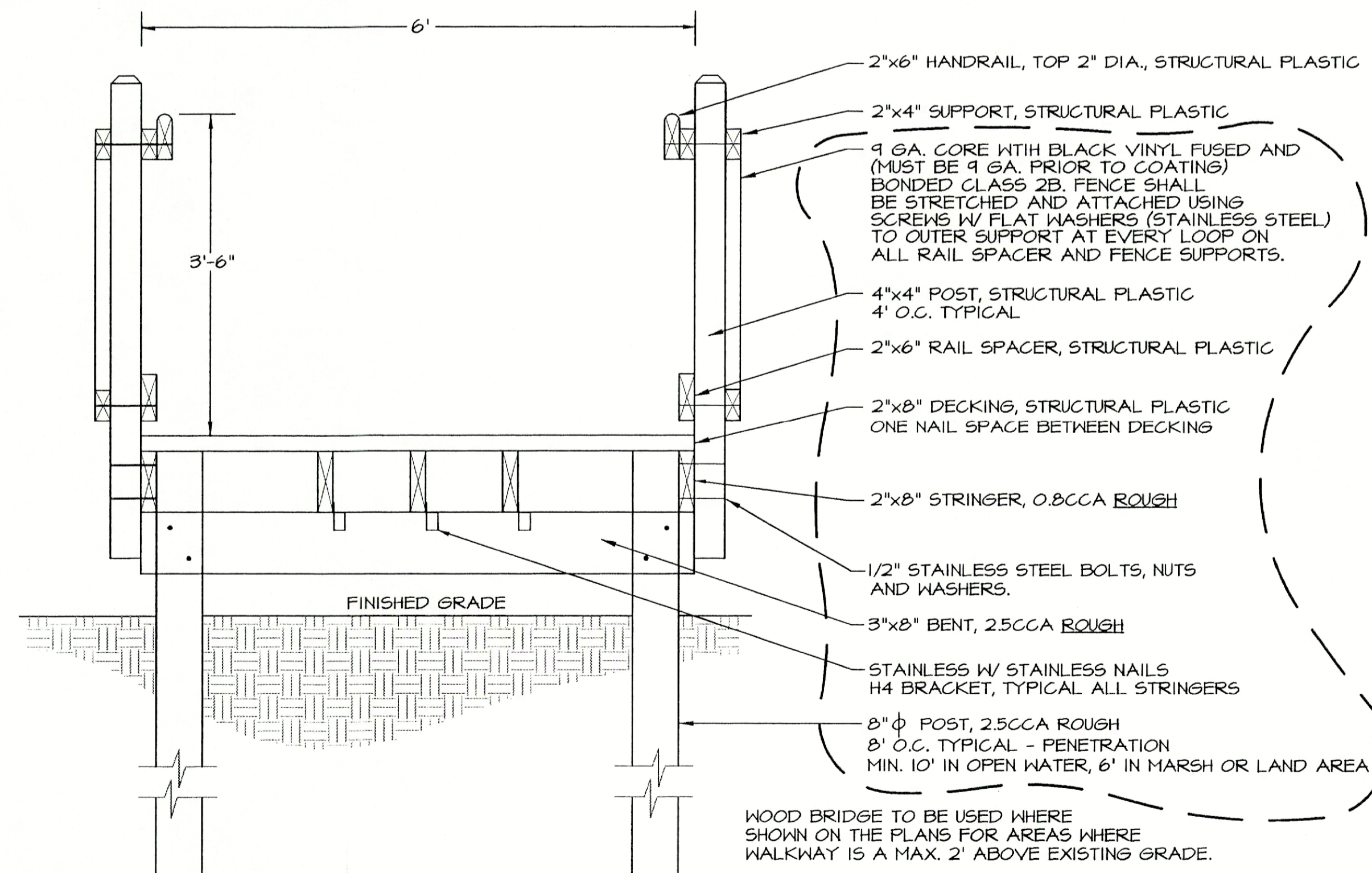
RAISED WOOD WALKWAY
NOT TO SCALE

WOOD WALKWAY TO BE USED WHERE SHOWN ON THE PLANS FOR AREAS WHERE WALKWAY IS A MAX. 2' ABOVE EXISTING GRADE.



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

MATERIAL IS TYPICAL FOR ALL SIMILAR ITEMS SHOWN ON WOOD BRIDGE AND WALKWAY DETAILS.



WOOD BRIDGE
NOT TO SCALE

WOOD BRIDGE TO BE USED WHERE SHOWN ON THE PLANS FOR AREAS WHERE WALKWAY IS A MAX. 2' ABOVE EXISTING GRADE.

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

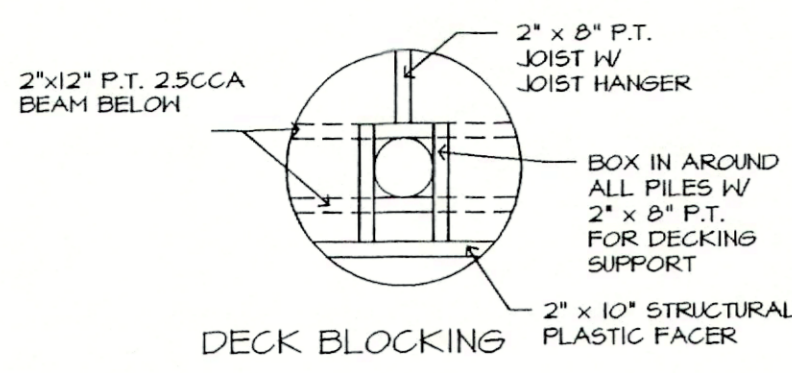
REVISED DETAILS 6/6/01 PER D.E.P. COMMENTS
REVISED DETAILS 6/21/01 BUILDING PERMIT
REVISED DETAILS 1/1/02 SILL MODIFICATIONS

DECKING DETAILS

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

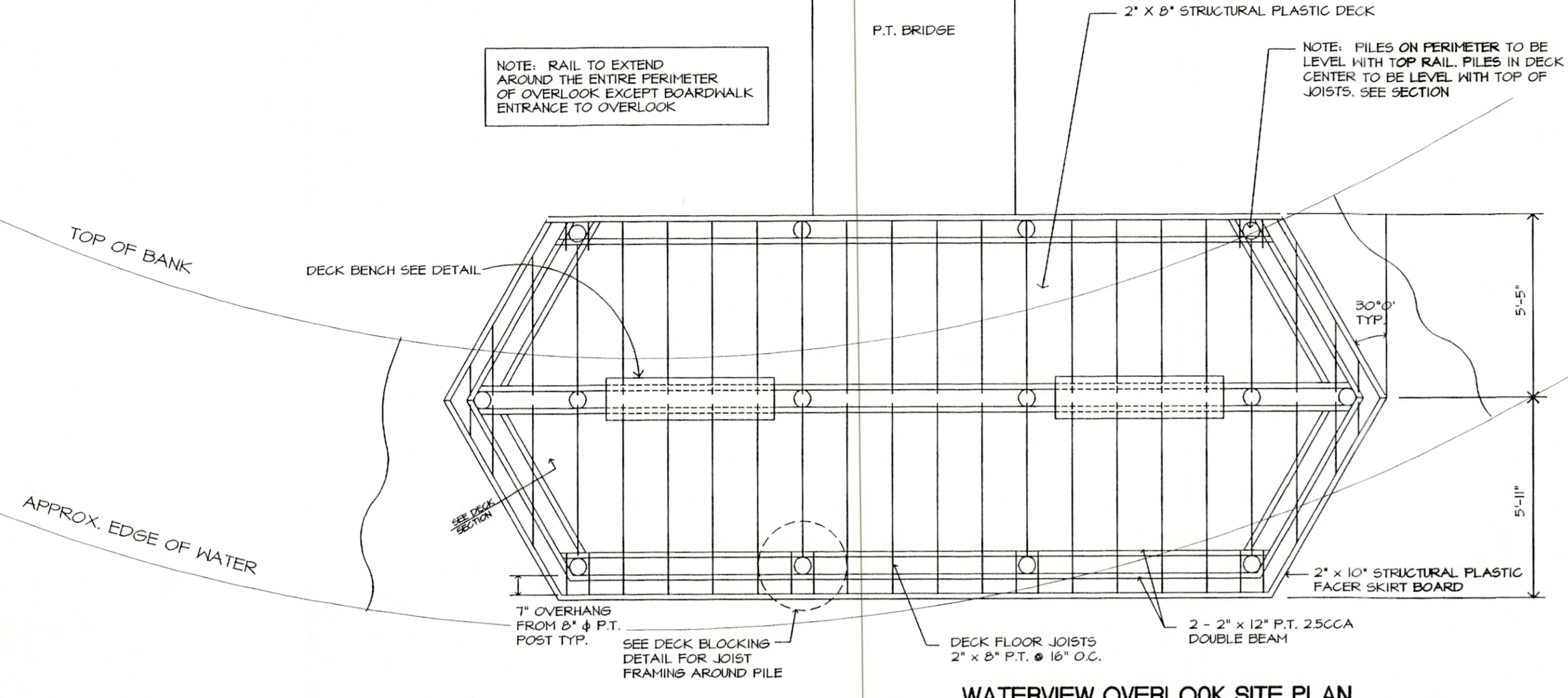
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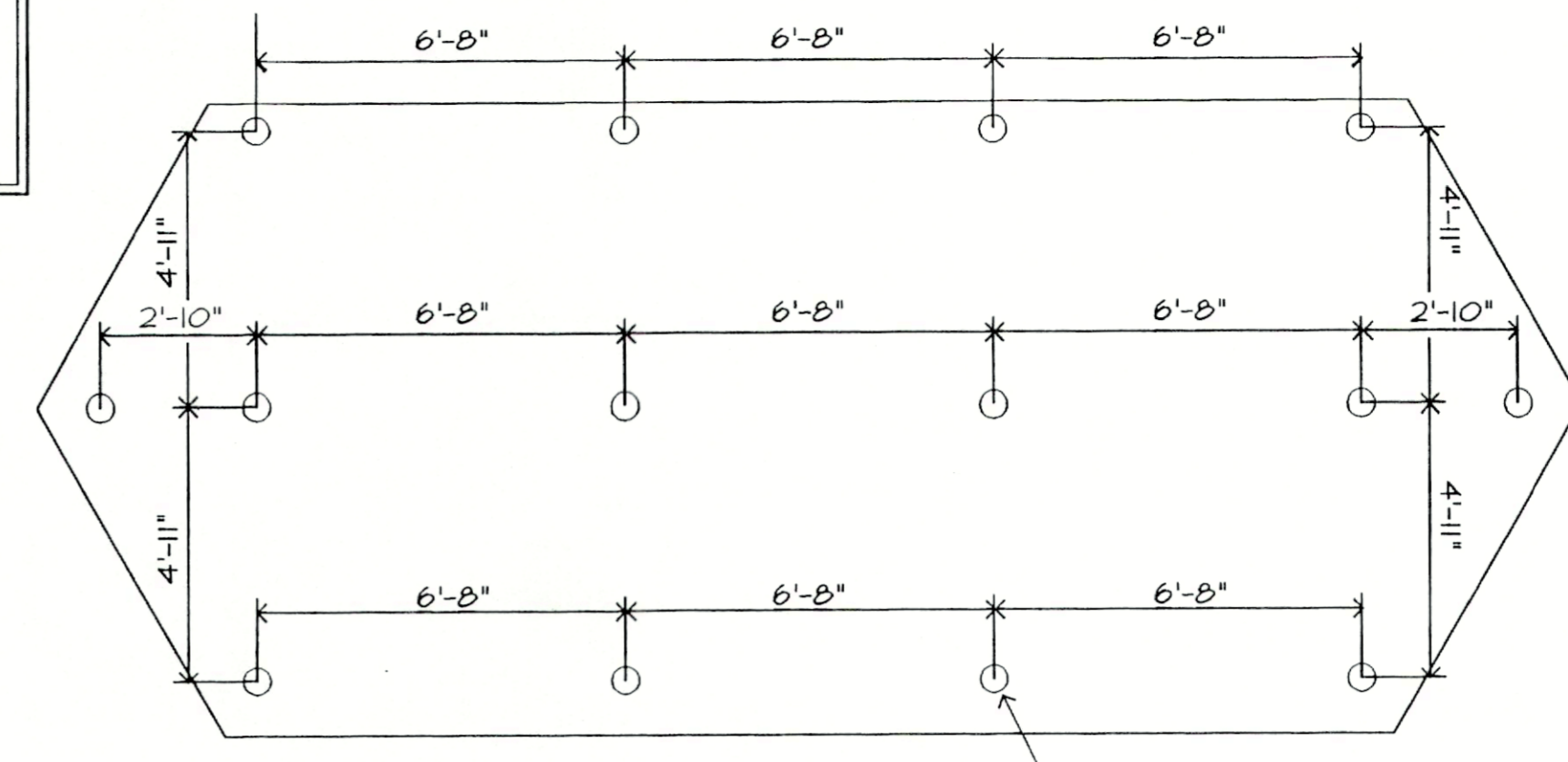


NOTE: RAIL TO EXTEND AROUND THE ENTIRE PERIMETER OF OVERLOOK EXCEPT BOARDWALK ENTRANCE TO OVERLOOK

NOTES:
 ALL P.T. LUMBER SHALL BE CERTIFIED PRESSURE TREATED FOR MARINE CONTACT 25 CCA MIN.
 ALL MATERIAL ABOVE STRUCTURE SHALL BE STRUCTURAL PLASTIC.
 CONTRACTOR SHALL INSTALL HURRICANE STRAPS ON ALL OVERLOOK STRINERS.

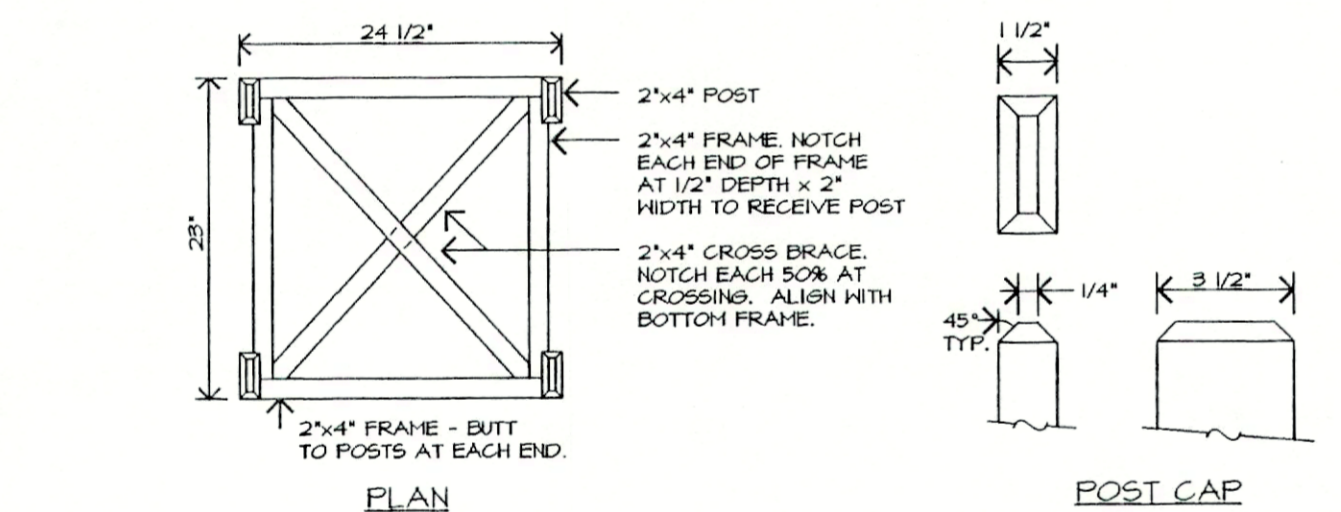


WATERVIEW OVERLOOK SITE PLAN



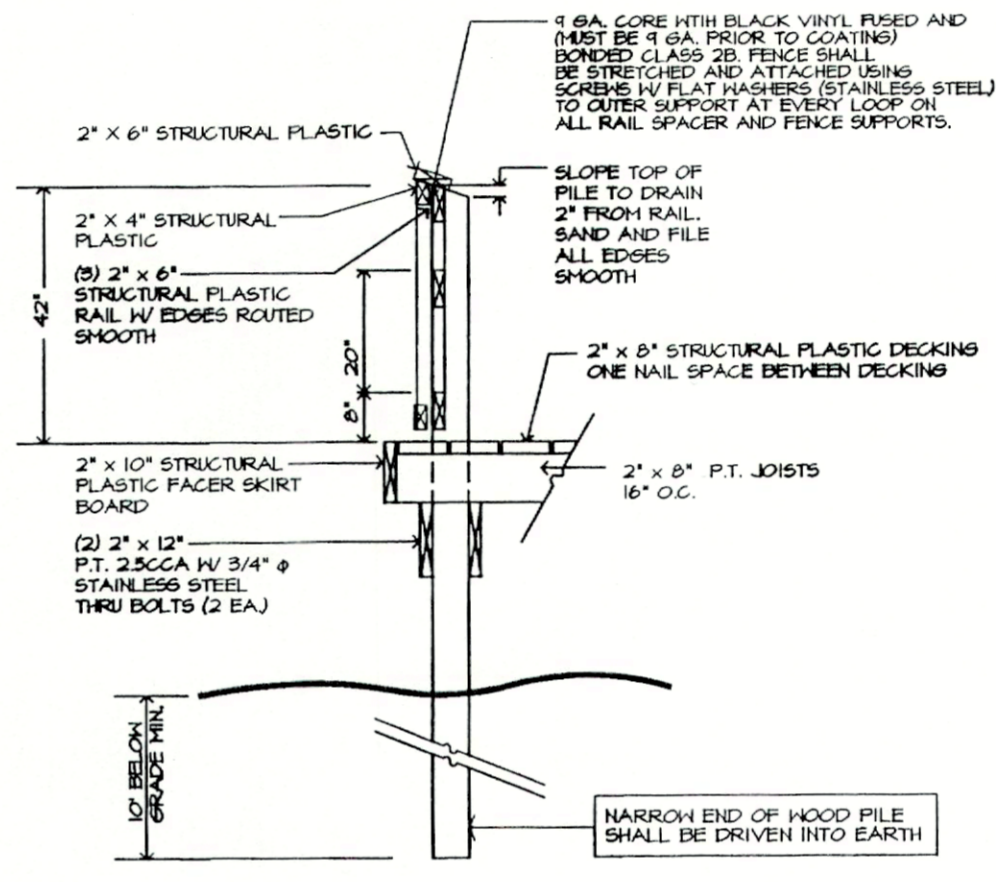
PILE DIMENSION PLAN

NOTE: ALL DIMENSIONS ARE TO CENTER OF PILES

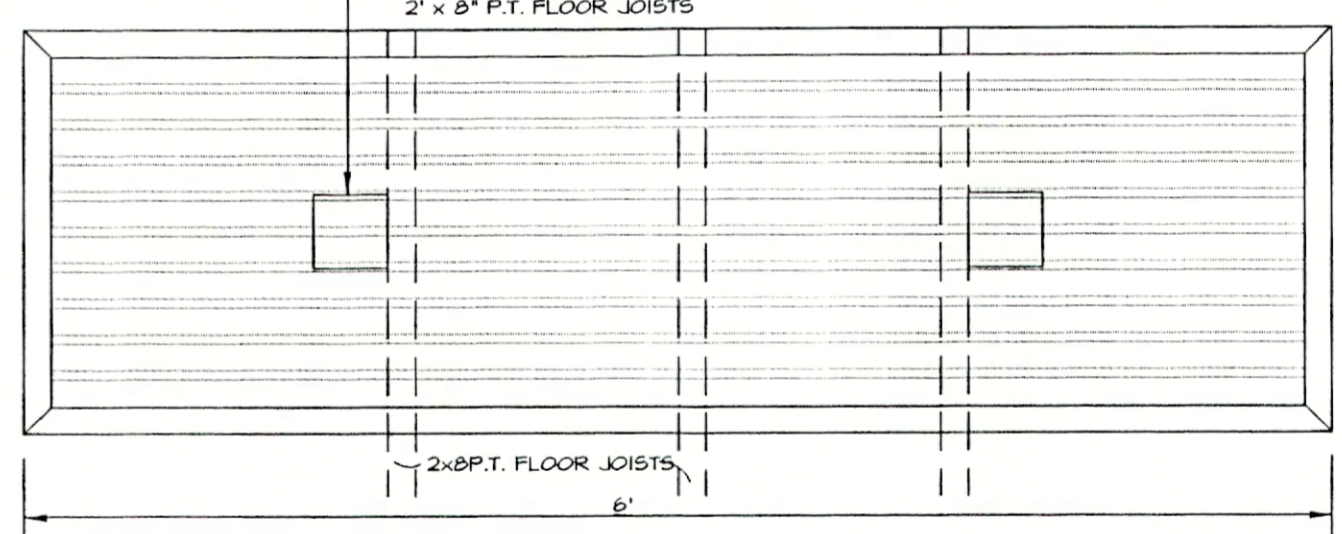
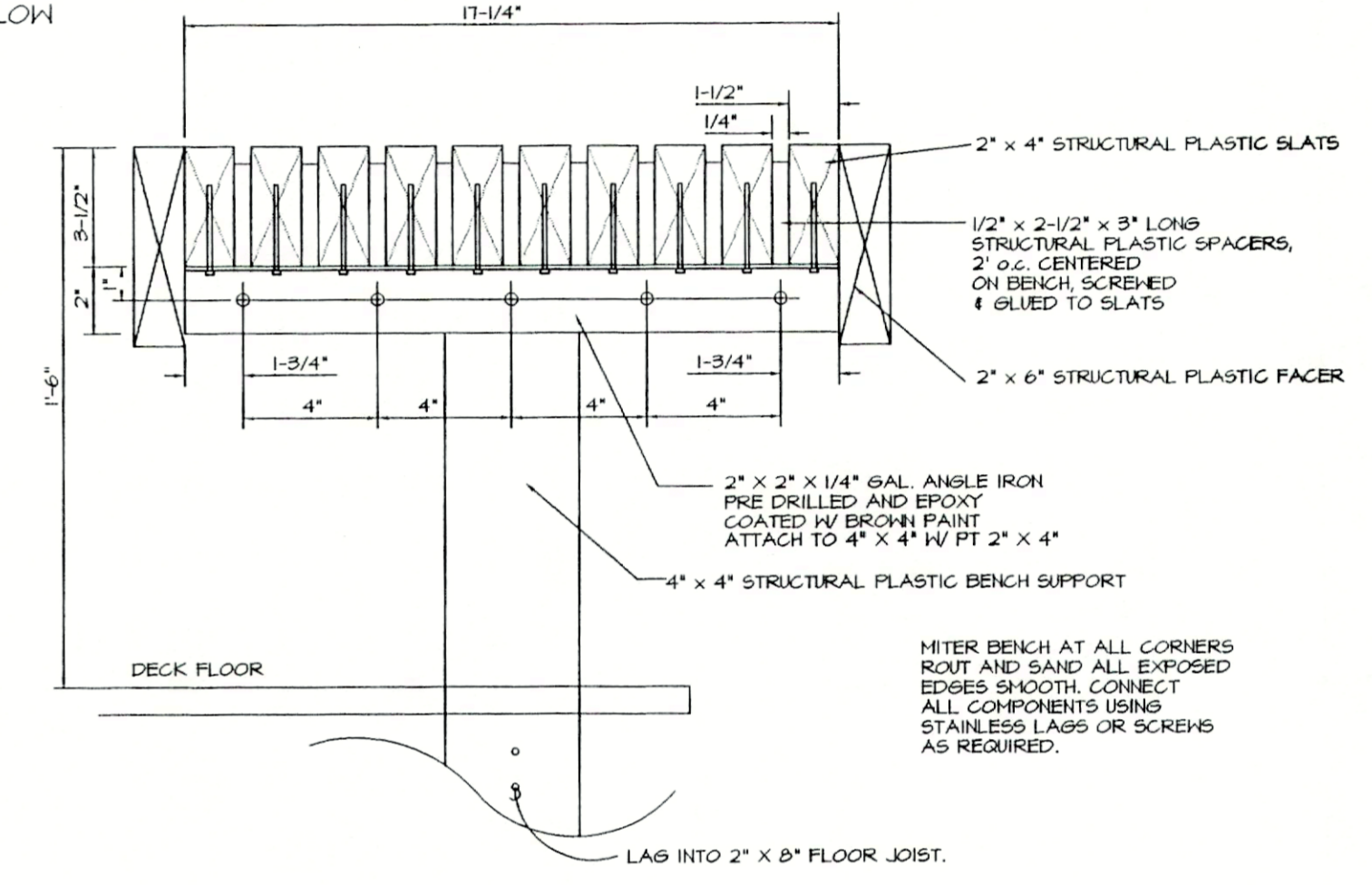


NOTES:
 ALL HOOD FOR TRASH CAN HOLDER SHALL BE CERTIFIED PRESSURE TREATED PINE. WOOD WITH KNOTS THAT KEEP FITCH OR PRESERVATIVES SHALL NOT BE USED.
 ALL HARDWARE SHALL BE HOT DIPPED GALV. STEEL.
 2x4 FRAMING SHALL BE ASSEMBLED WITH 16d GALV. STEEL BOX NAILS.
 TRASH CAN HOLDER SHALL BE SET PLUMB & LEVEL.
 PROVIDE AND INSTALL (1) 30 GALLON PLASTIC TRASH CAN AND LID IN EACH HOLDER AS SPECIFIED. VERIFY SIZE OF HOLDER WITH CAN PRIOR TO CONSTRUCTING. ADJUST AS NECESSARY TO ACCOMMODATE CAN.

WATERVIEW OVERLOOK ELEVATION

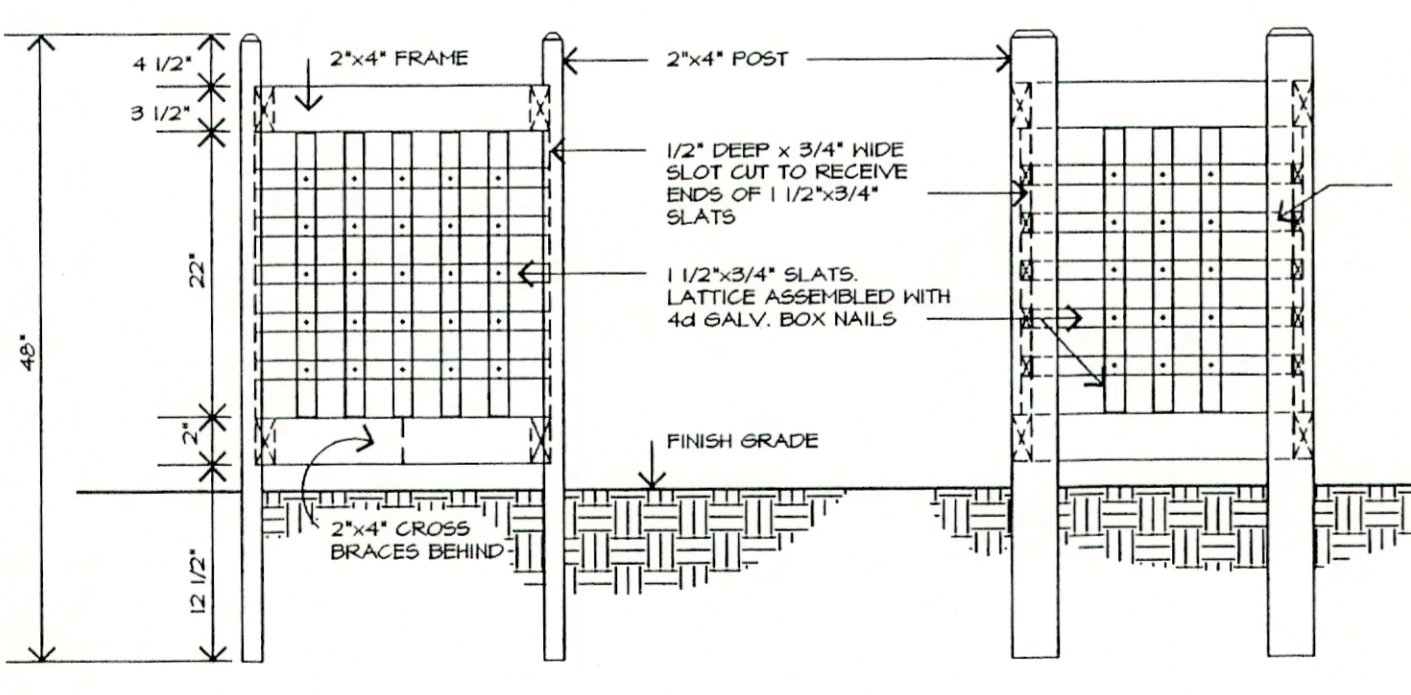


WATERVIEW OVERLOOK SECTION

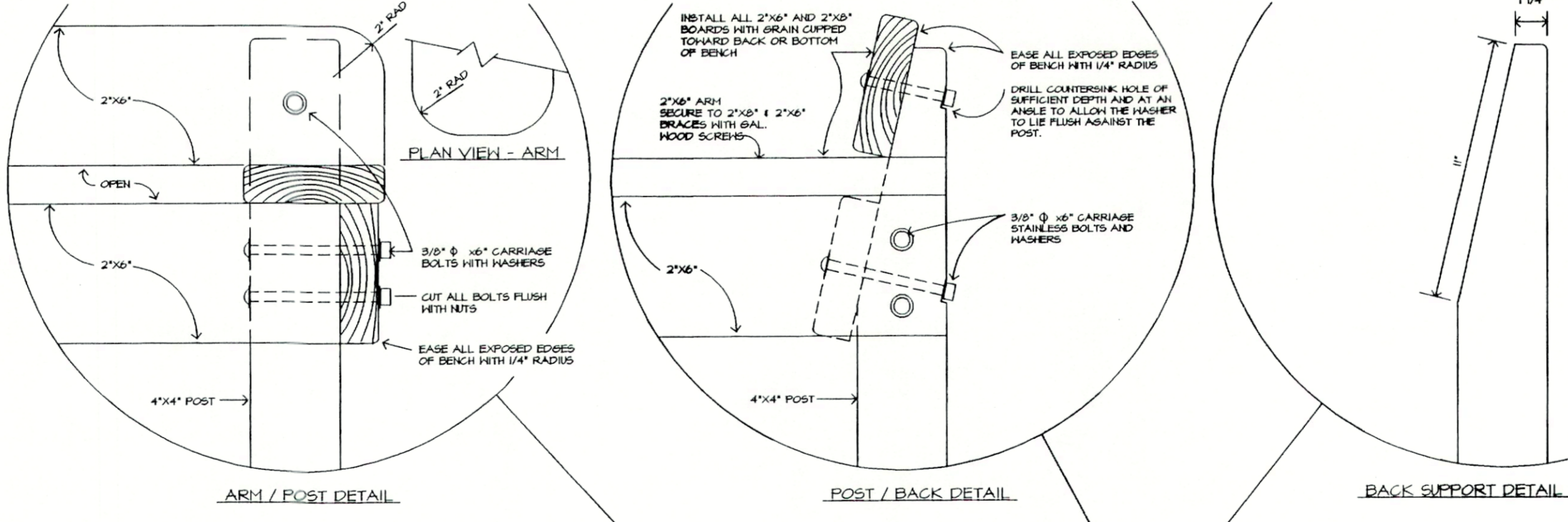


BACKLESS DECK BENCH

NOTE: ALL EXPOSED WOOD SURFACES TO BE ROUNDED OR SANDED SMOOTH.

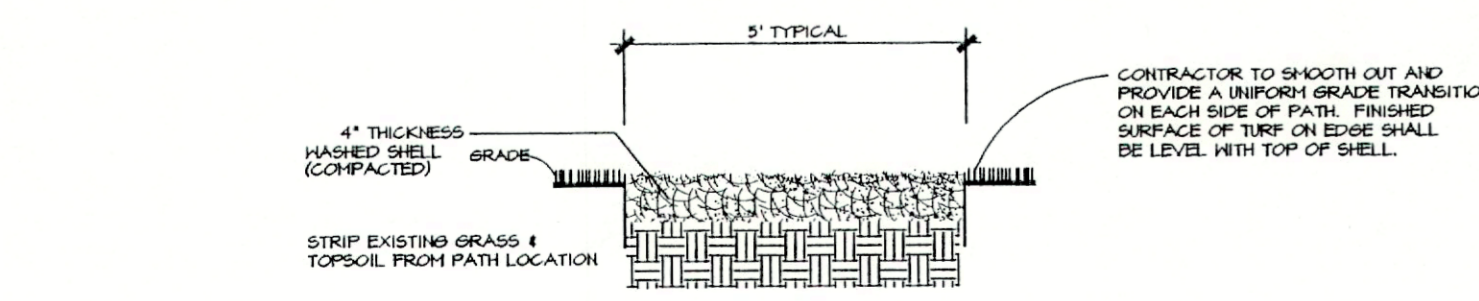


TRASH CAN HOLDER DETAIL



BACKED BENCH DETAILS

NOTES:
 ALL WOOD FOR BENCH CONSTRUCTION SHALL BE CERTIFIED PRESSURE TREATED PINE. WOOD WITH KNOTS THAT KEEP FITCH OR PRESERVATIVE SALTS SHALL NOT BE USED.
 ALL HARDWARE SHALL BE STAINLESS STEEL.
 PLUGS FOR FRONT OF BENCH SHALL BE CUT FROM BIRDHOOD BOWELS AND REBED IN PLACE. PLUGS REQUIRED ONLY FOR THREADED ROD AT FRONT SIDE OF BENCH. INSTALL PLUGS FLUSH WITH FACE OF POST.
 AT BENCH LOCATIONS CONTRACTOR SHALL INSTALL SHELL UNDER THE ENTIRE BENCH AREA. CONTRACTOR SHALL FIELD STAKE AND REQUEST APPROVAL FROM LANDSCAPE ARCHITECT PRIOR TO INSTALLING SHELL.



SHELL PATH

NOTE: PATH SHALL BE FIELD ADJUSTED AS DIRECTED BY THE LANDSCAPE ARCHITECT. CONTRACTOR SHALL ROUGH STAKE AND REVIEW LAYOUT PRIOR TO CONSTRUCTION.

PHILLIP J. SMITH, R.L.A. #0001096
 1/19/02

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

CONSTRUCTION DETAILS

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

PROJECT NO.	957
SCALE	AS NOTED
DATE	9/15/00
DRAWN BY	P.B.
ISSUED	11/16/00

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

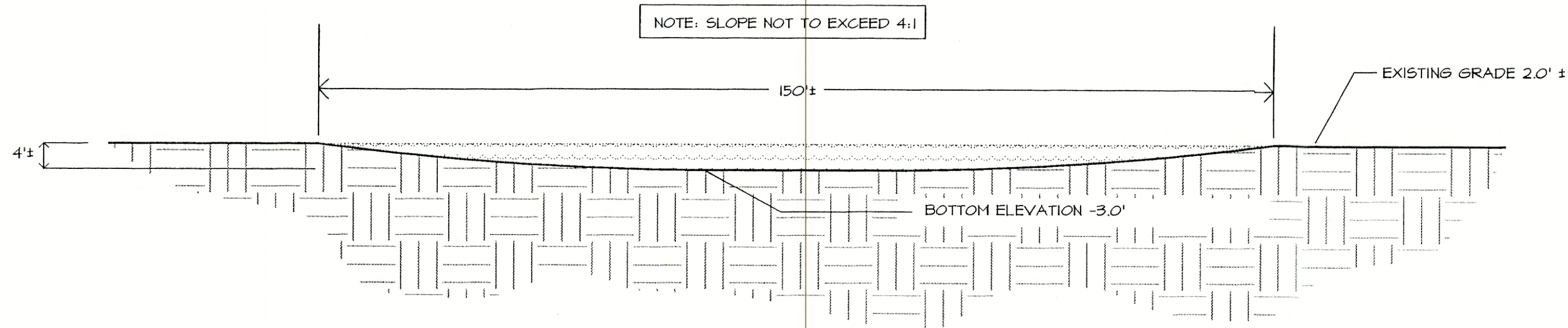
REV. 10/2/96

SHEET NO.

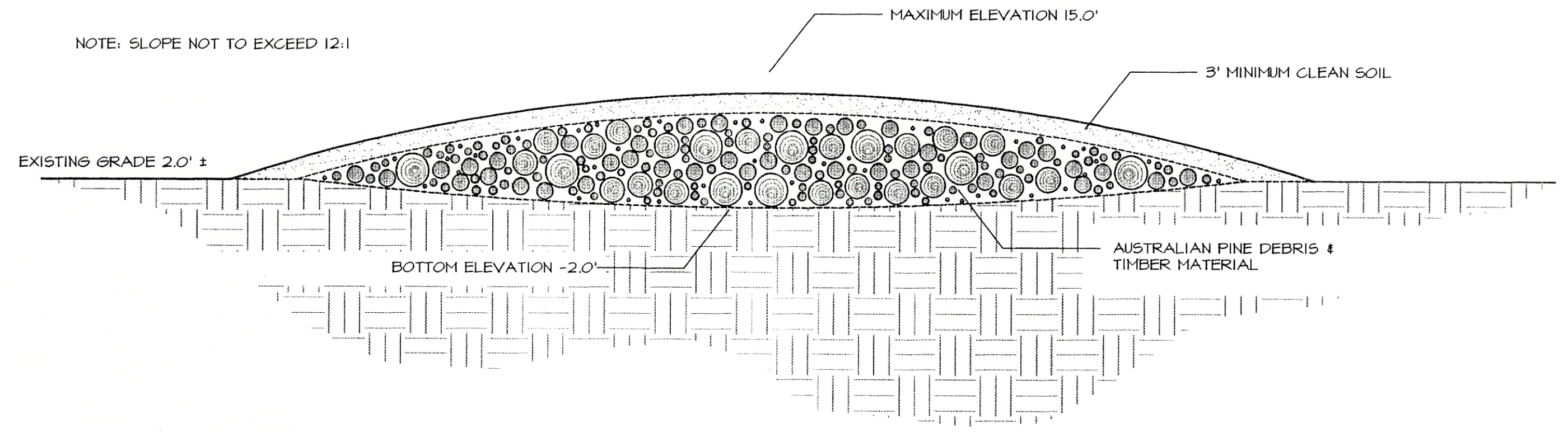
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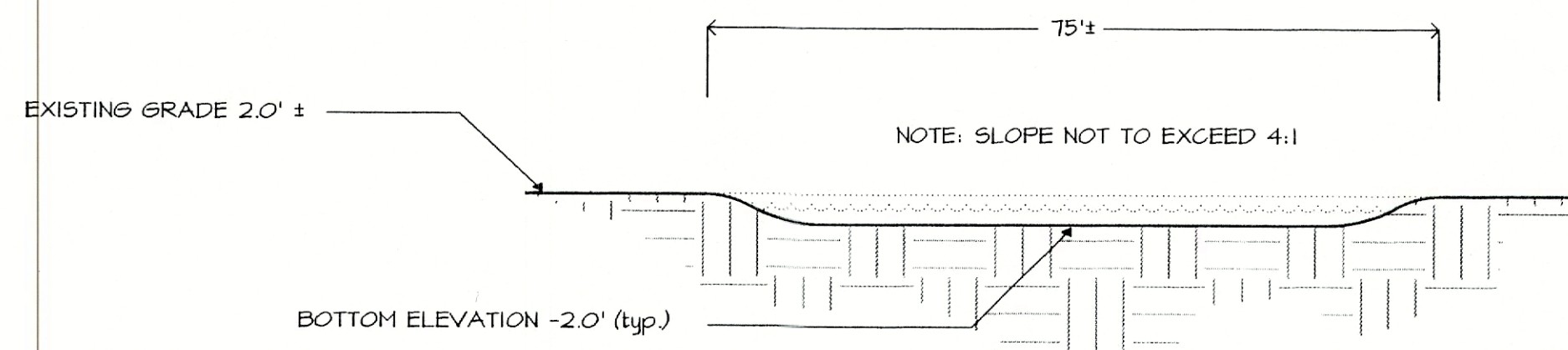
NOTE: CONTRACTOR SHALL FIELD ADJUST GRADES IN WETLAND AREA AS DIRECTED BY LANDSCAPE ARCHITECT, D.E.P. OR LONGBOAT KEY REPRESENTATIVES. GRADES WILL BE REQUIRED TO BE ADJUSTED FOR WETLAND TO HAVE POSITIVE FLOW.



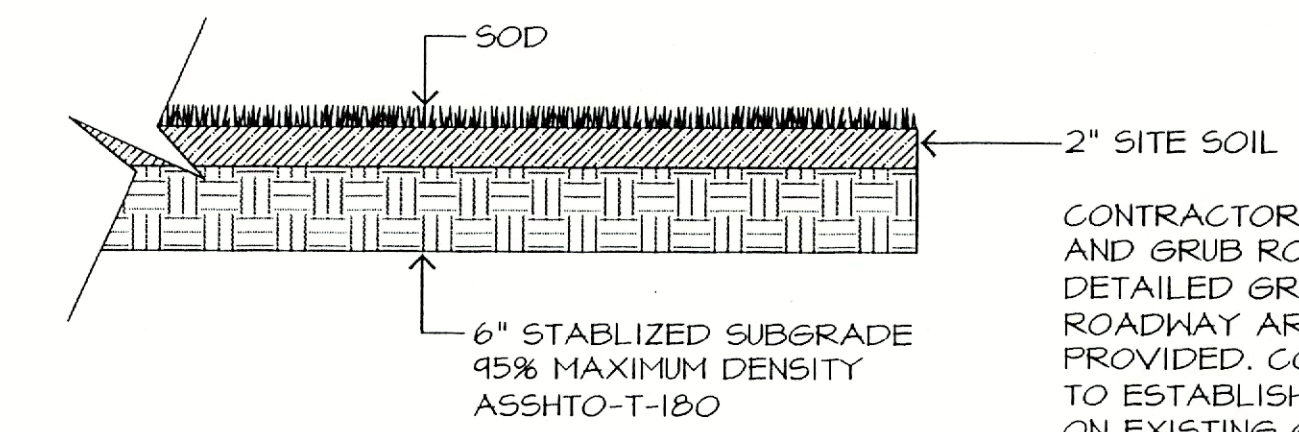
SECTION AA: WETLAND RESOURCE RECOVERY
NOT TO SCALE



SECTION BB: SITE CLEARING DEBRIS
NOT TO SCALE



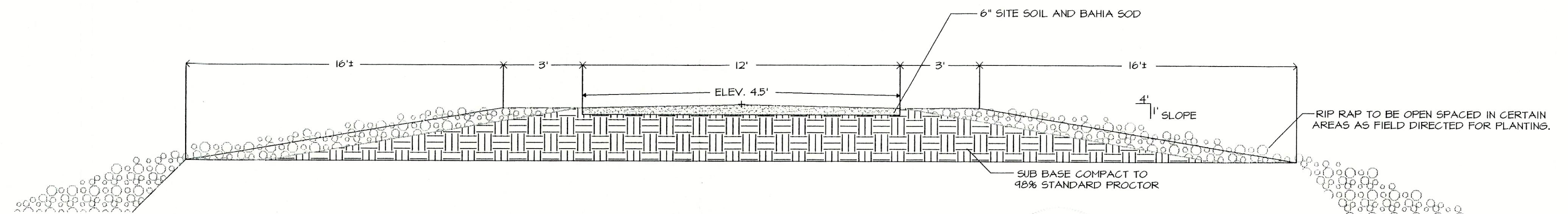
SECTION CC: WETLAND RESOURCE RECOVERY
NOT TO SCALE



GRASS ROAD SECTION DETAIL
NOT TO SCALE

CONTRACTOR TO CLEAR AND GRUB ROADWAY. DETAILED GRADES FOR ROADWAY ARE NOT PROVIDED. CONTRACTOR TO ESTABLISH ROADWAY ON EXISTING GRADE. CONTRACTOR SHALL REMOVE IRREGULARITIES IN GRADE AND PROVIDE POSITIVE DRAINAGE AS FIELD DIRECTED.

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

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

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

CONSTRUCTION DETAILS

dwja LANDSCAPE ARCHITECTS
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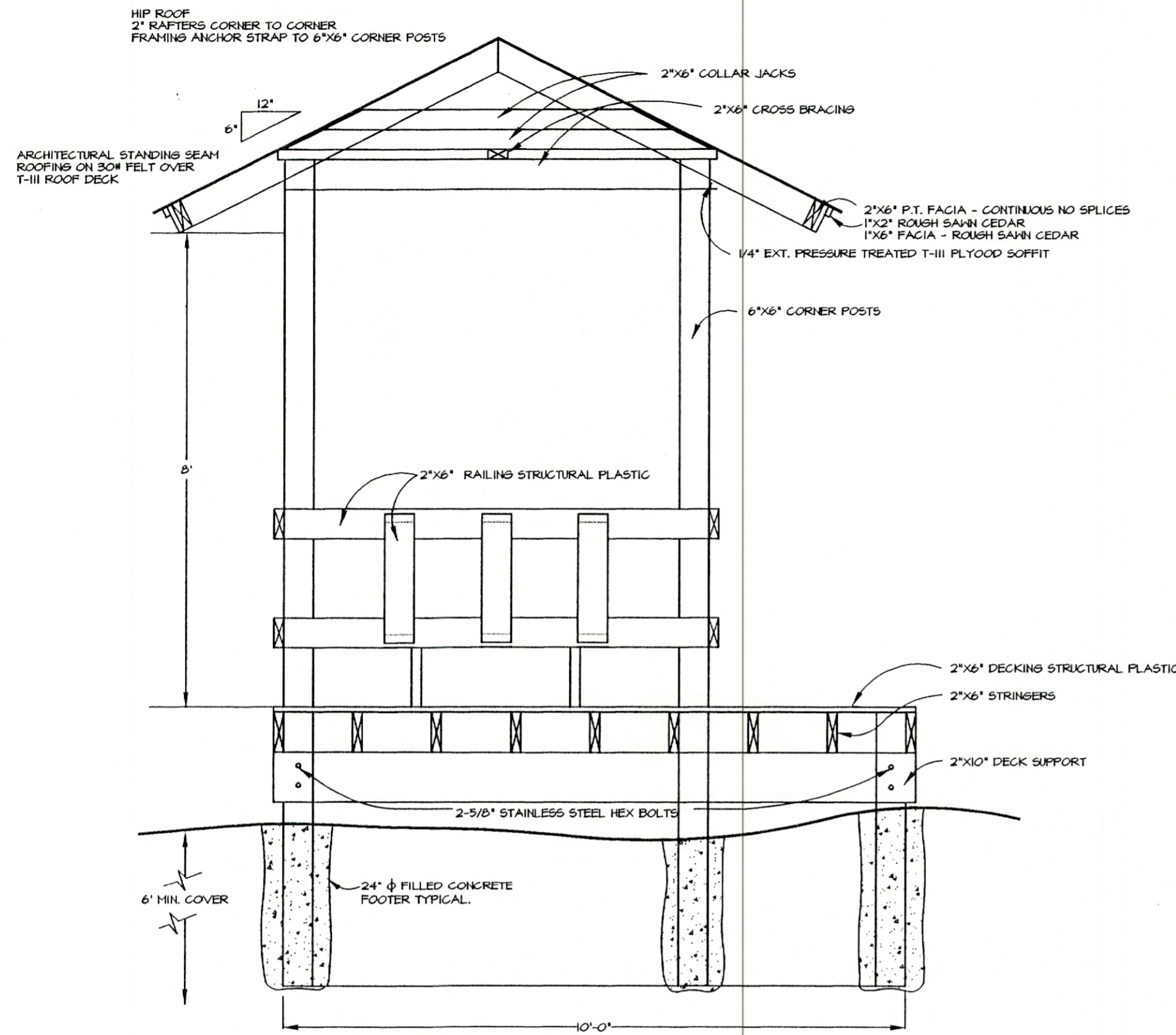
PROJECT NO.	2013
SCALE	AS NOTED
DATE	9/13/00
DRAWN BY	PLS/LFH
ISSUED	1/16/00

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

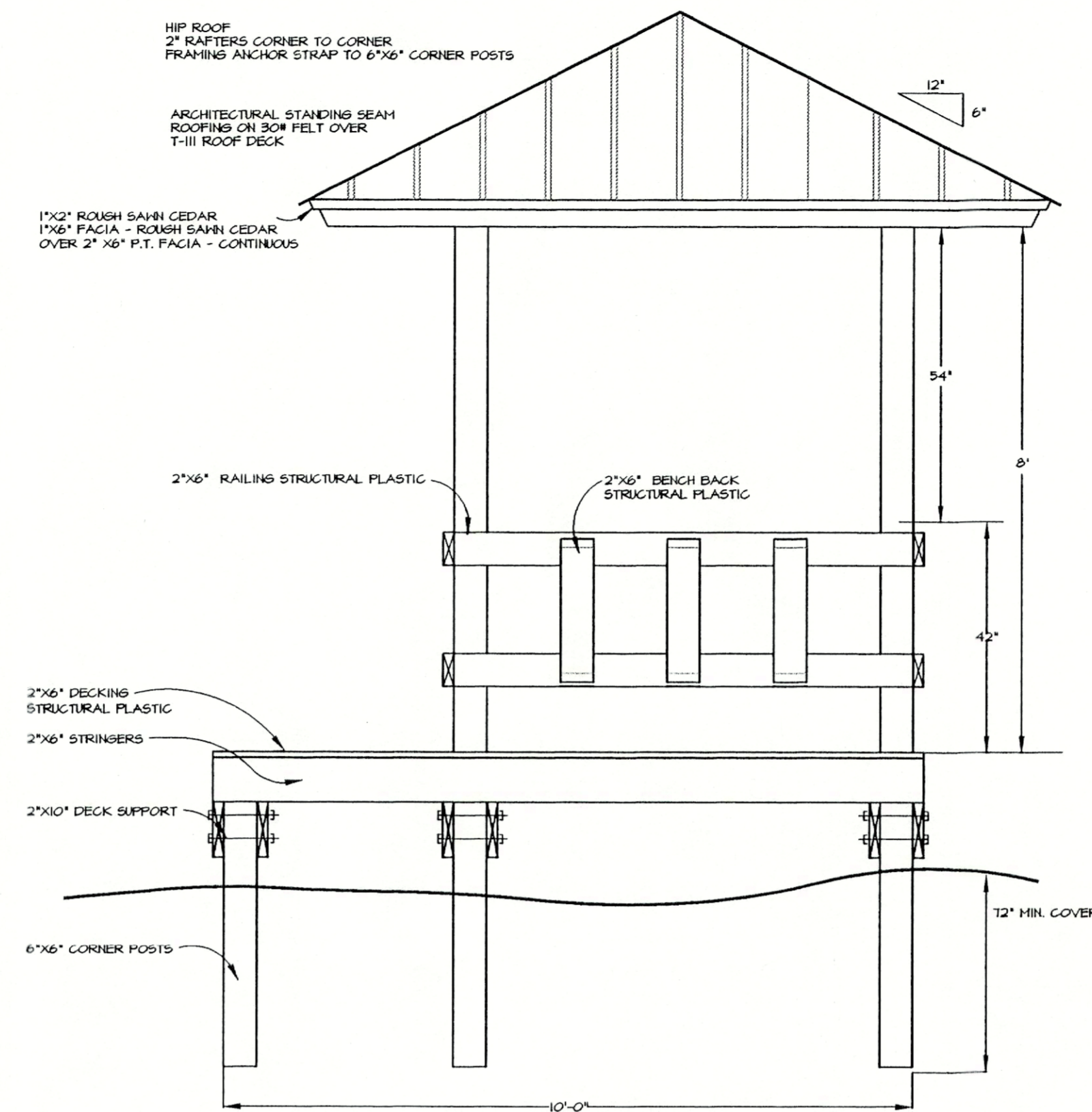
SHEET NO.
L-4

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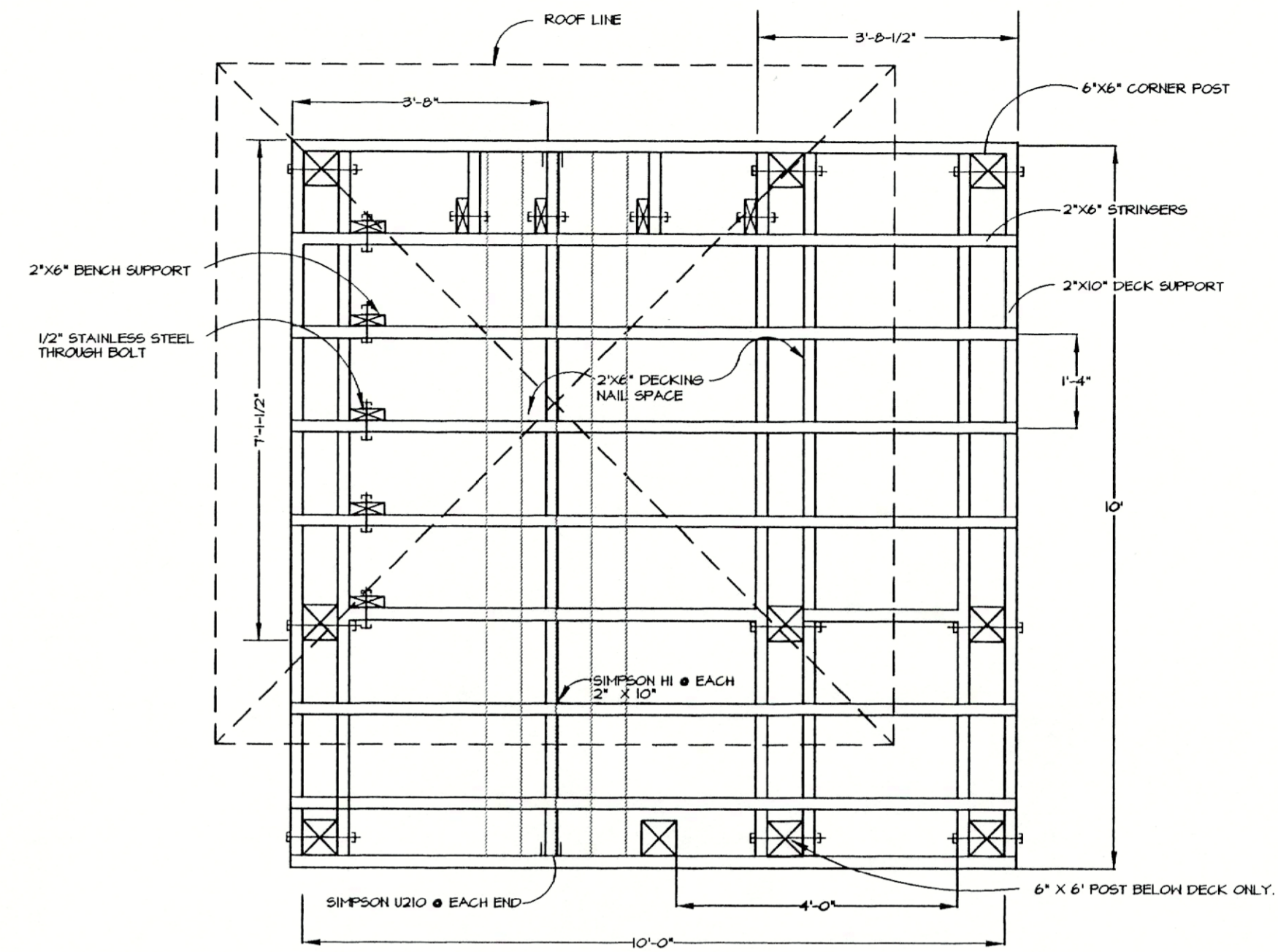
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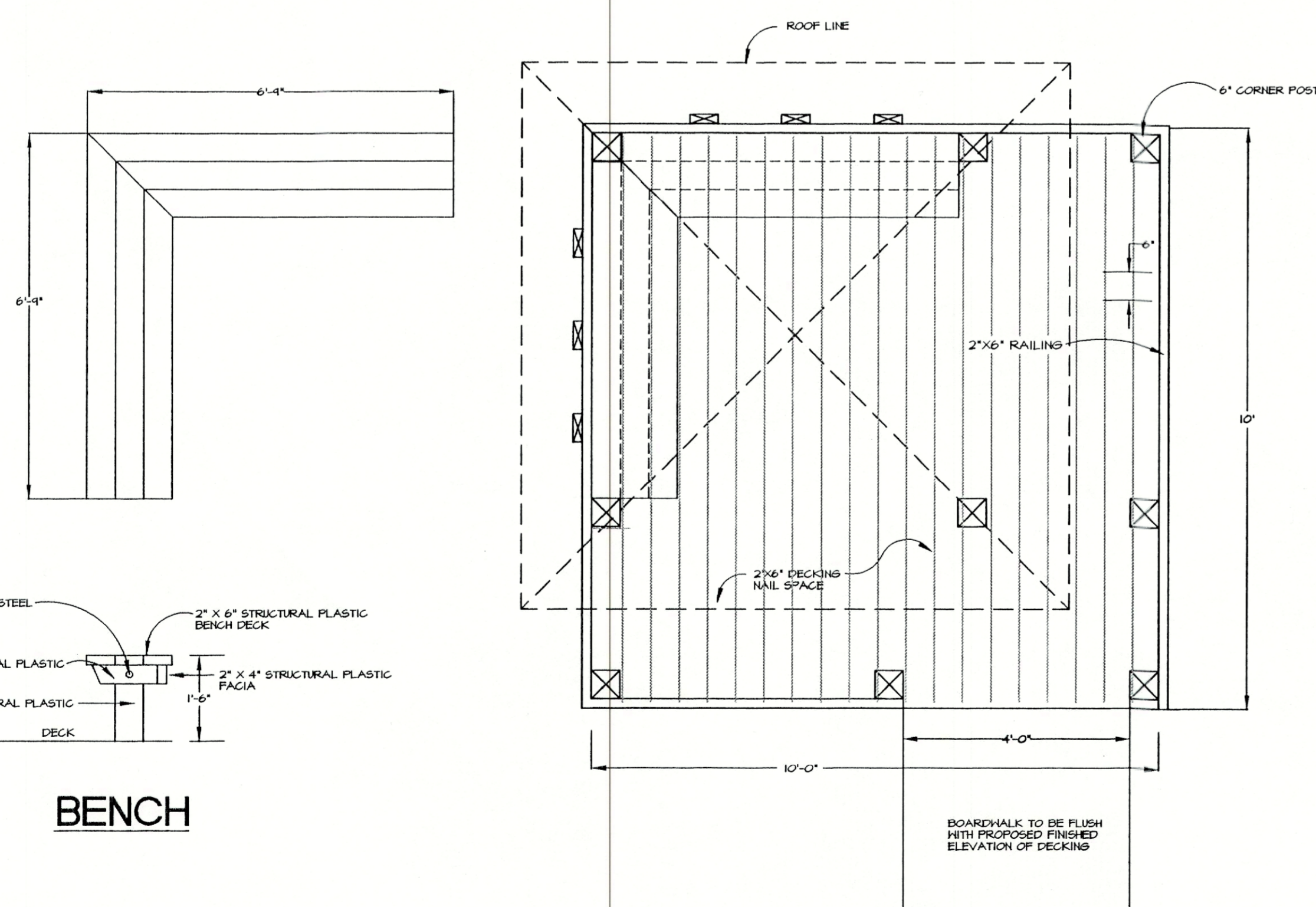
SECTION



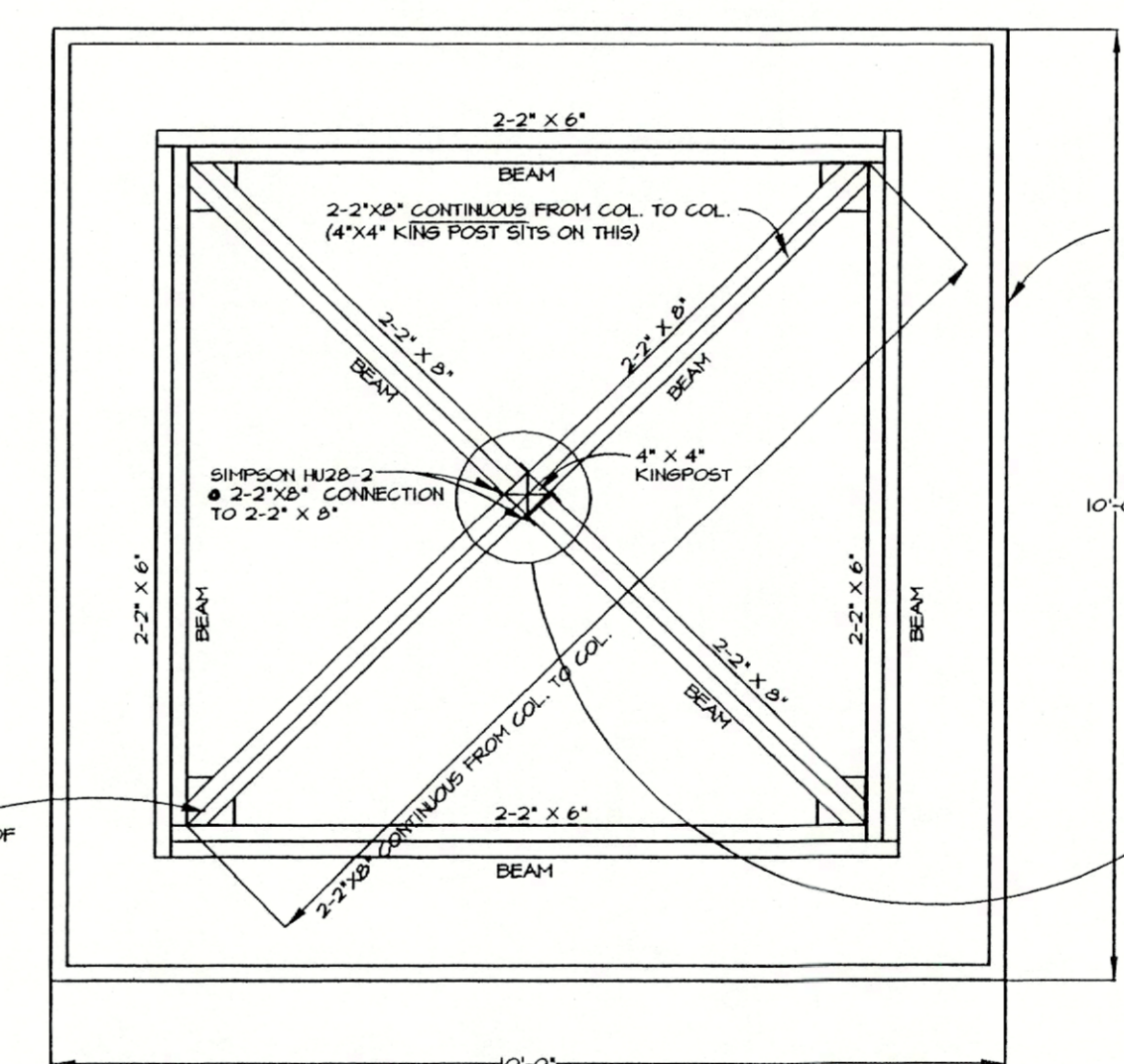
ELEVATION



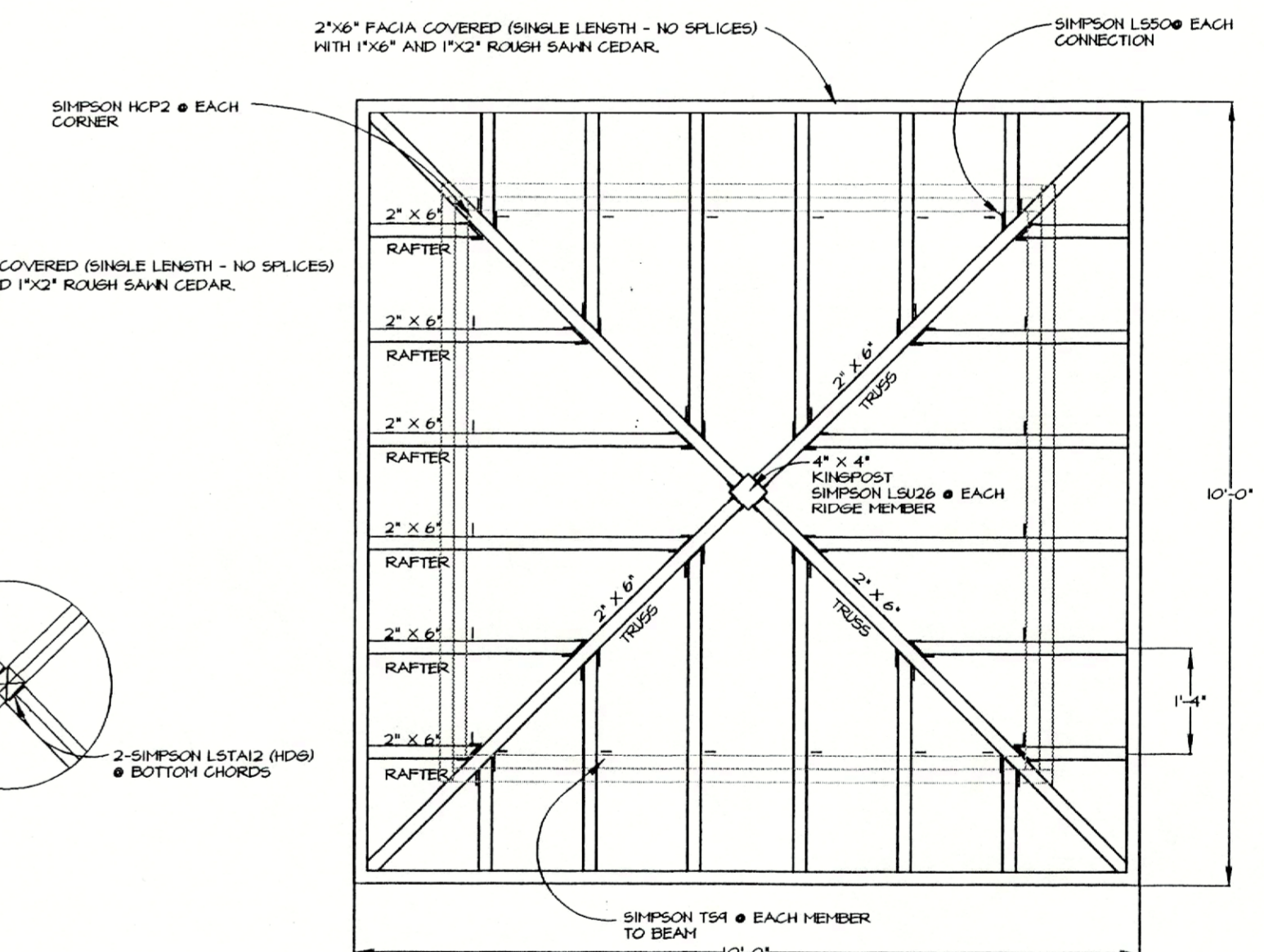
FLOOR FRAMING PLAN



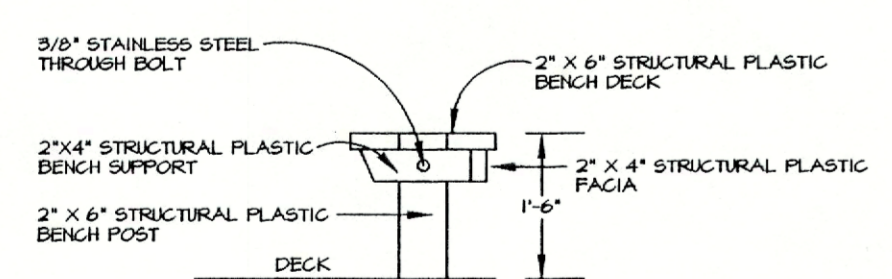
PLAN VIEW



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\"/>

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

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

GAZEBO CONSTRUCTION DETAILS

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

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

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

SHEET NO.

L-5

NOTES

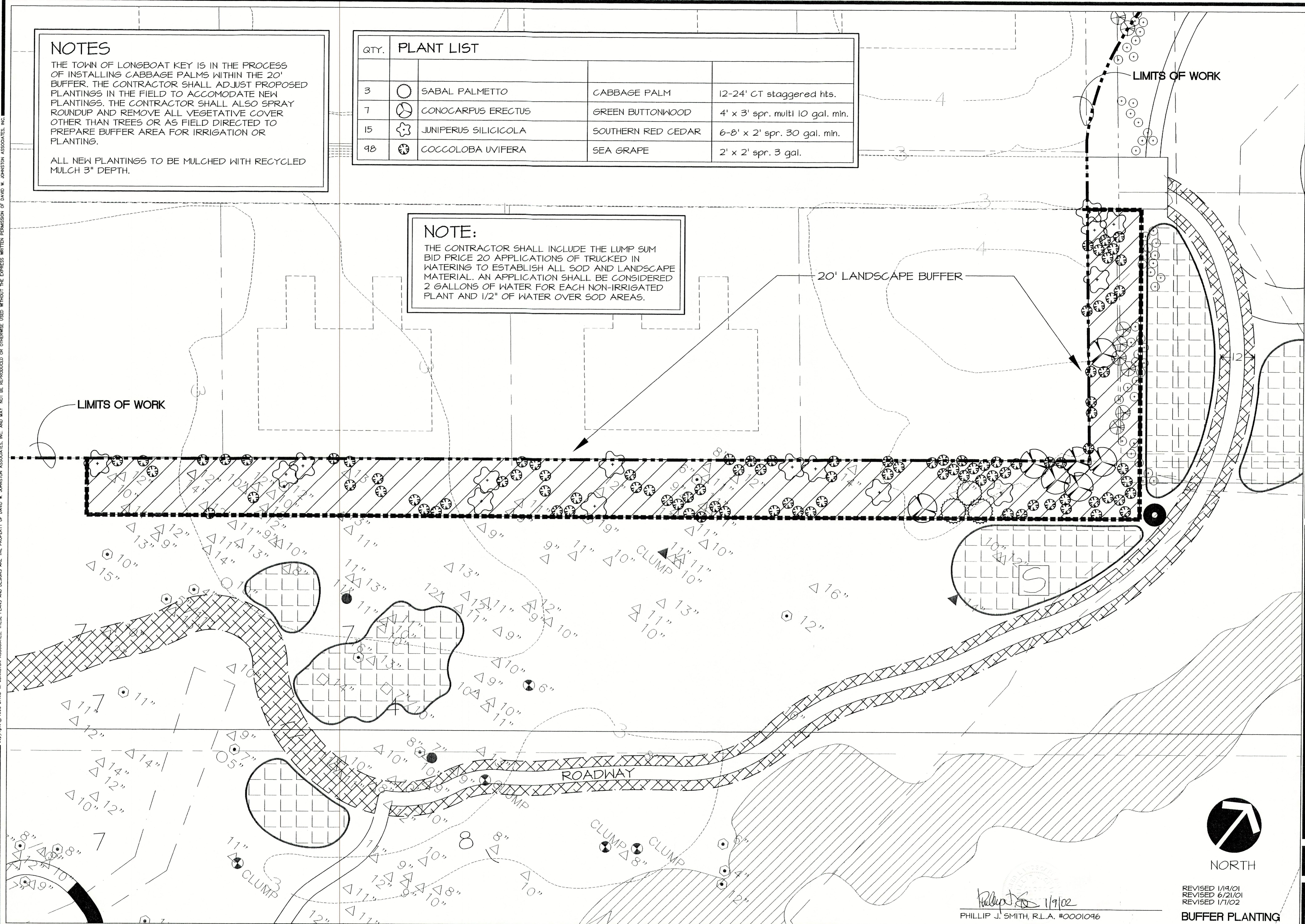
THE TOWN OF LONGBOAT KEY IS IN THE PROCESS OF INSTALLING CABBAGE PALMS WITHIN THE 20' BUFFER. THE CONTRACTOR SHALL ADJUST PROPOSED PLANTINGS IN THE FIELD TO ACCOMMODATE NEW PLANTINGS. THE CONTRACTOR SHALL ALSO SPRAY ROUNDUP AND REMOVE ALL VEGETATIVE COVER OTHER THAN TREES OR AS FIELD DIRECTED TO PREPARE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



LIMITS OF WORK

20' LANDSCAPE BUFFER

LIMITS OF WORK

ROADWAY



NORTH

Phillip J. Smith 1/19/02
 PHILLIP J. SMITH, R.L.A. #0001096

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

BUFFER PLANTING

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

PROJECT NO.	20-18
SCALE	T-1/4"
DATE	9/19/00
DRAWN BY	LH
ISSUED	11/19/00

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

SHEET NO.
L-6

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21

LOT 16

LIMITS OF WORK

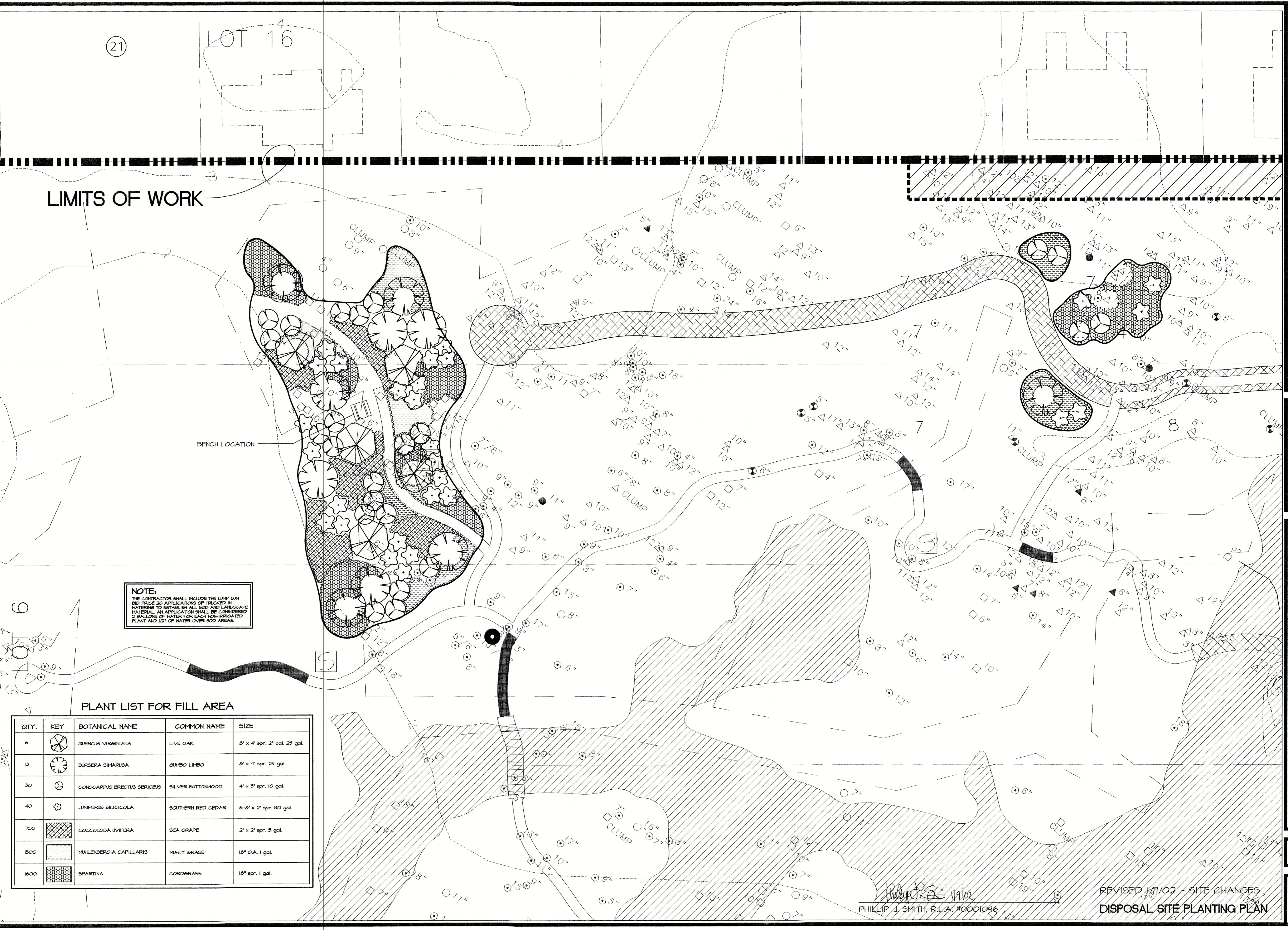
BENCH LOCATION

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.

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.
13		BURSERIA SIMARUBA	GUMBO LIMBO	8' x 4' spr. 25 gal.
30		CONOCARPUS ERECTUS SERICEUS	SILVER BUTTONHOOD	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		MUHLENBERGIA CAPILLARIS	MUHLY GRASS	18" O.A. 1 gal.
1600		SPARTINA	CORDGRASS	18" spr. 1 gal.

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Phillip J. Smith
 PHILLIP J. SMITH, R.L.A. #0001046

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

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

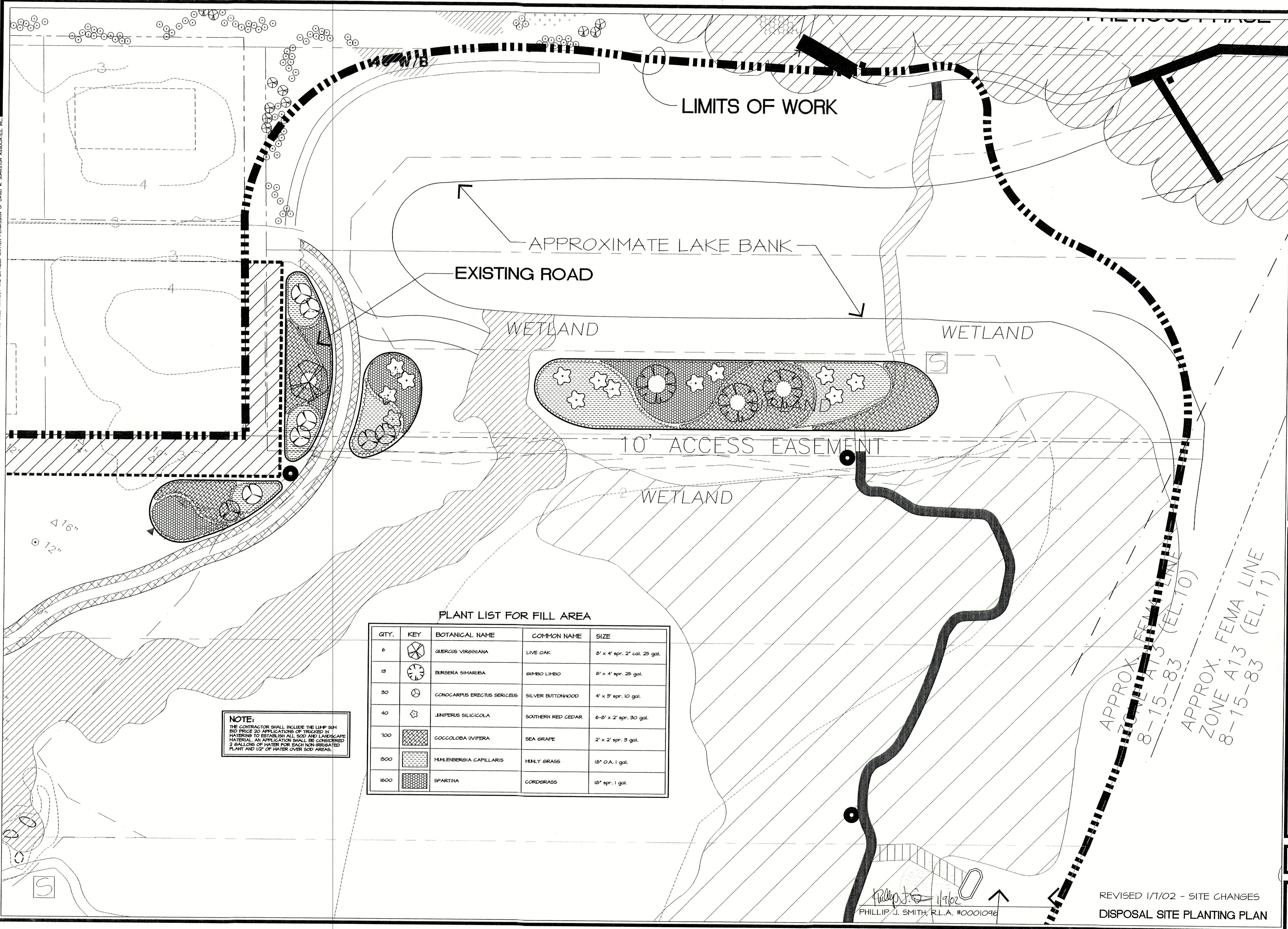
PROJECT NO.	20-R
SCALE	1" = 20'
DATE	9/18/00
DRAWN BY	LFI
ISSUED	11/16/00

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

REV. 6/21/01

SHEET NO.
L-7A

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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		MILLENBERGIA CAPILLARIS	MILKY GRASS	18" O.A. 1 gal.
1600		SPARTINA	CORDERASS	18" spr. 1 gal.

NOTE:
 THE CONTRACTOR SHALL INCLUDE THE LUMP SUM BID PRICE TO APPLICATIONS OF TRUCKED IN MATERIAL 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.

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

PROJECT NO. 20-18
 SCALE T = 20'
 DATE 9/30/00
 DRAWN BY LFH
 ISSUED 11/16/00

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

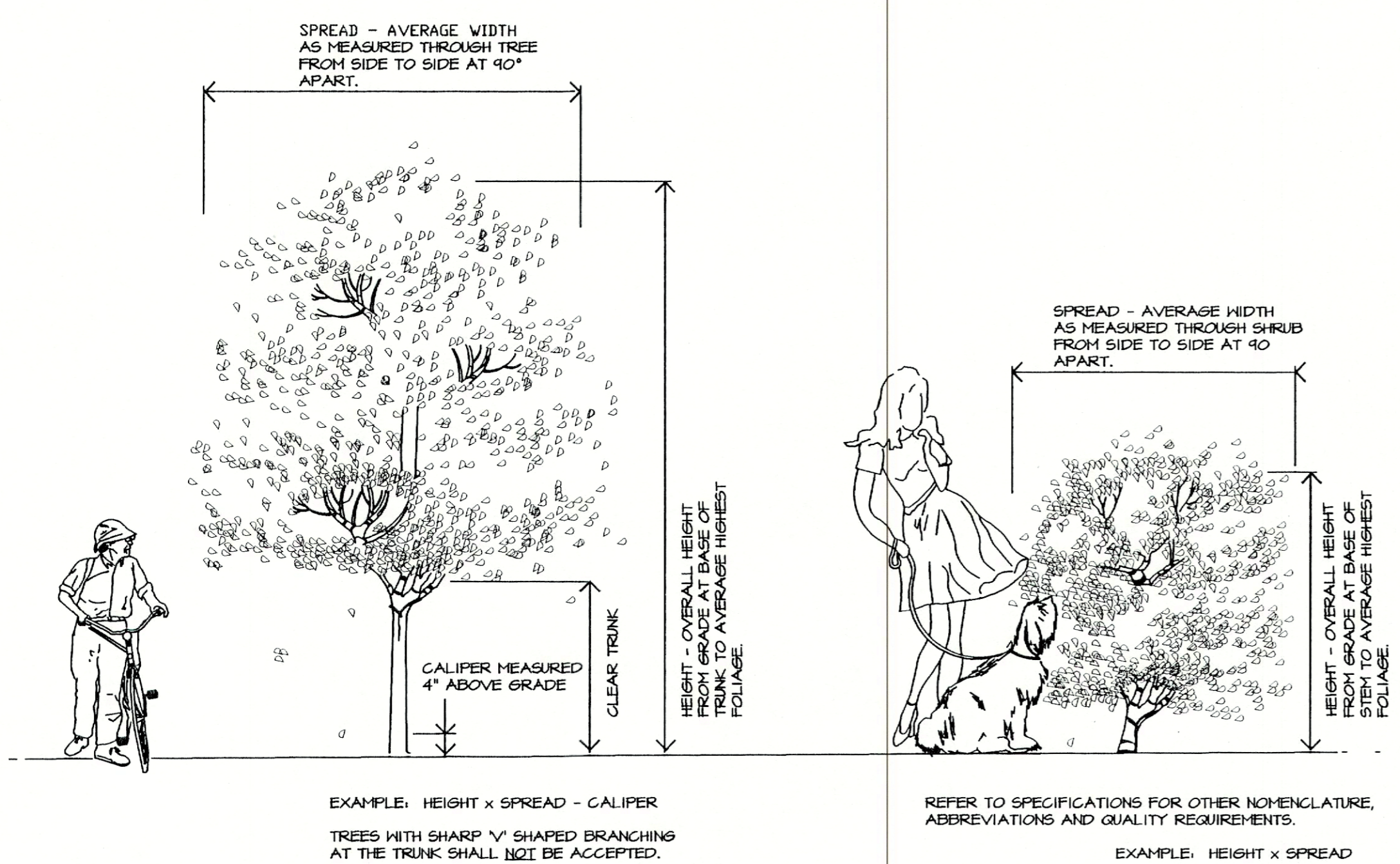
REV. 6/21/01

SHEET NO.
L-7B

Phillip J. Smith 11/16/02
 PHILLIP J. SMITH, R.L.A. #0001096

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

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TREE AND SHRUB SIZING SPECIFICATION
NOT TO SCALE

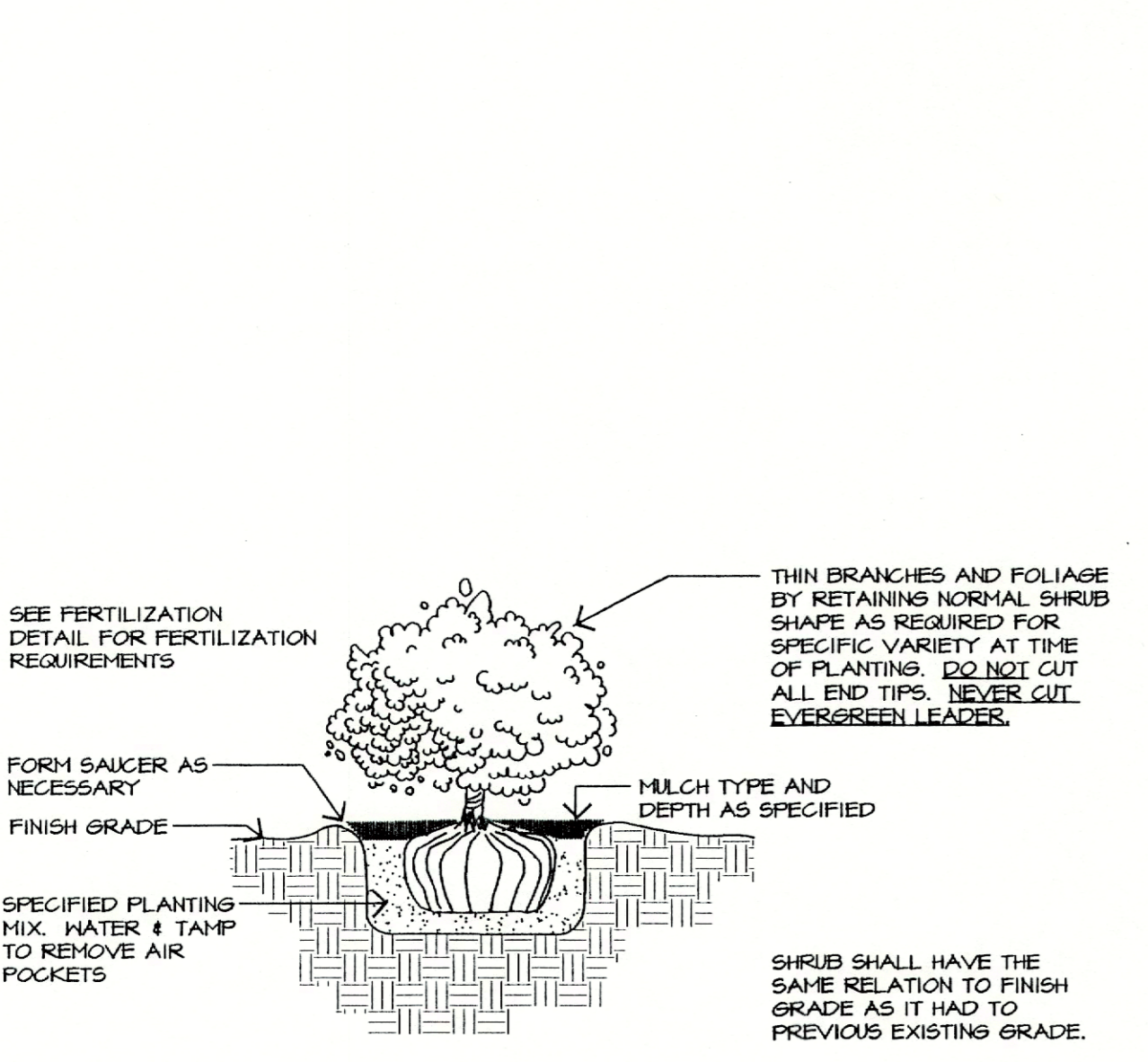
ALL PLANTINGS SHALL BE FERTILIZED WITH ASRIFORM 20-10-15 PLANTING TABLETS AT THE TIME OF INSTALLATION AND PRIOR TO COMPLETION OF BACKFILLING. ASRIFORM PLANTING TABLETS SHALL BE PLACED INFORMALLY AROUND THE ROOT MASS AT THE DEPTH THAT IS BETWEEN THE MIDDLE AND THE BOTTOM OF THE ROOT MASS.

21 GRAM TABLET		10 GRAM TABLET		5 GRAM TABLET	
1 GALLON CAN PLANTS	3 GALLON CAN PLANTS	1 GALLON CAN PLANTS	3 GALLON CAN PLANTS	1 GALLON CAN PLANTS	3 GALLON CAN PLANTS
1 TABLET	2 TABLETS	1 TABLET	2 TABLETS	1 TABLET	2 TABLETS
		LARGE TREES OR B & B TREES	MATURE PALMS	HELL ROOTED LINERS	SMALL GROUNDCOVERS OR PERENNIALS
		TREES, 5 TABLETS/EA. 1/2" OF CALIPER SHRUBS, 1 TABLET FOR EA. 1' OF HEIGHT	10 TABLETS PER PALM	1 TO 2 TABLETS EACH	1 TABLET EACH

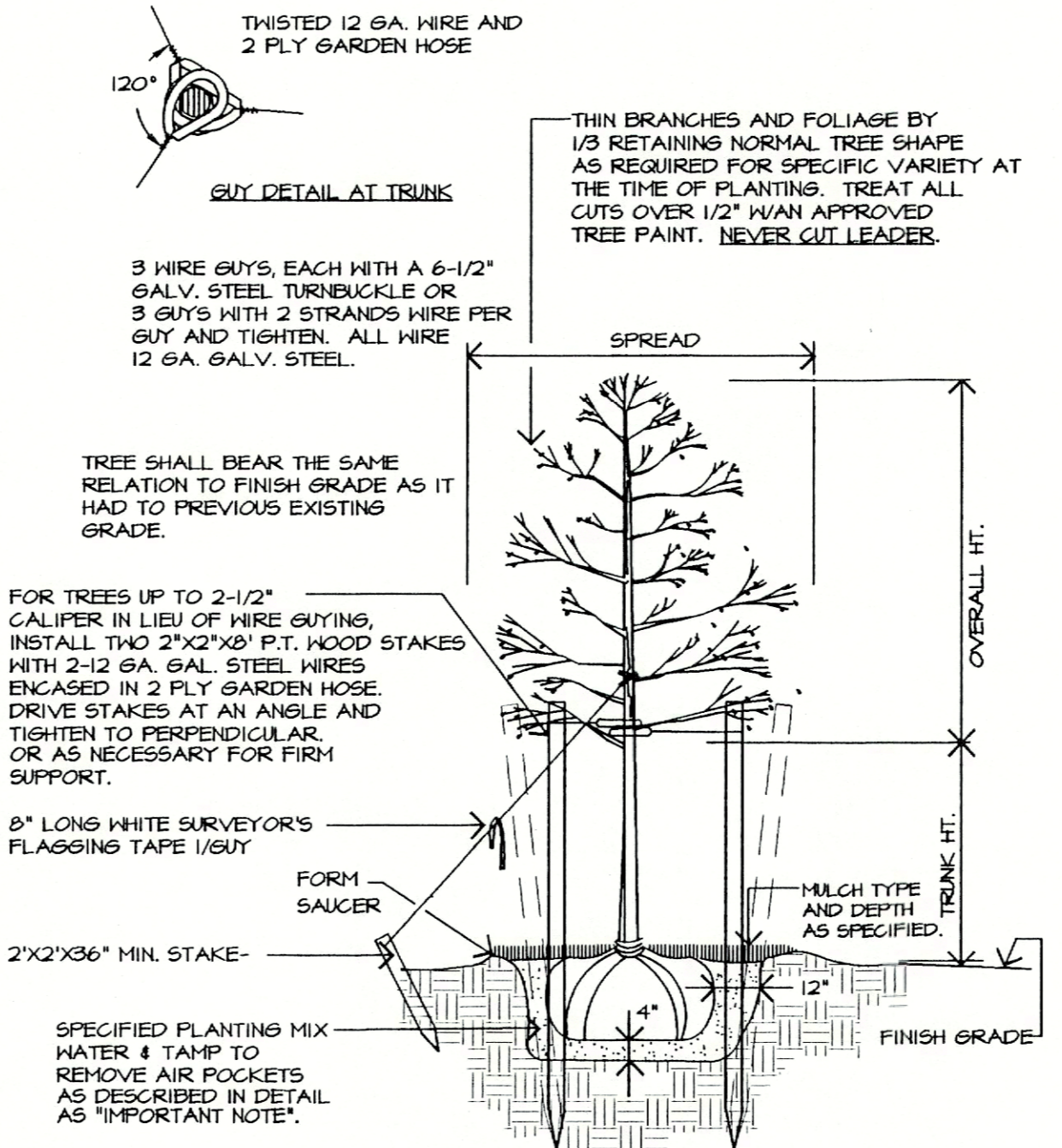
ASRIFORM 20-10-15 PLANTING TABLETS AS MANUFACTURED BY SIERRA CHEMICAL COMPANY 1001 YOSEMITE DRIVE MILPITAS, CA 95035

NOTE: LANDSCAPE ARCHITECT MAY MAKE A RANDOM SAMPLING OF PLANT PITS TO DETERMINE THE UNIFORMITY OF APPLICATION.

FERTILIZATION - TREES, SHRUBS AND GROUNDCOVERS
NOT TO SCALE



SHRUB PLANTING
NOT TO SCALE



TREE PLANTING, STAKING AND PRUNING
NOT TO SCALE

MAINTENANCE PROGRAM

UPON FINAL ACCEPTANCE BY THE OWNER, A MAINTENANCE PROGRAM FOR ALL PLANT MATERIAL AND IRRIGATION SHALL COMMENCE AND CONTINUE FOR NINETY (90) DAYS.

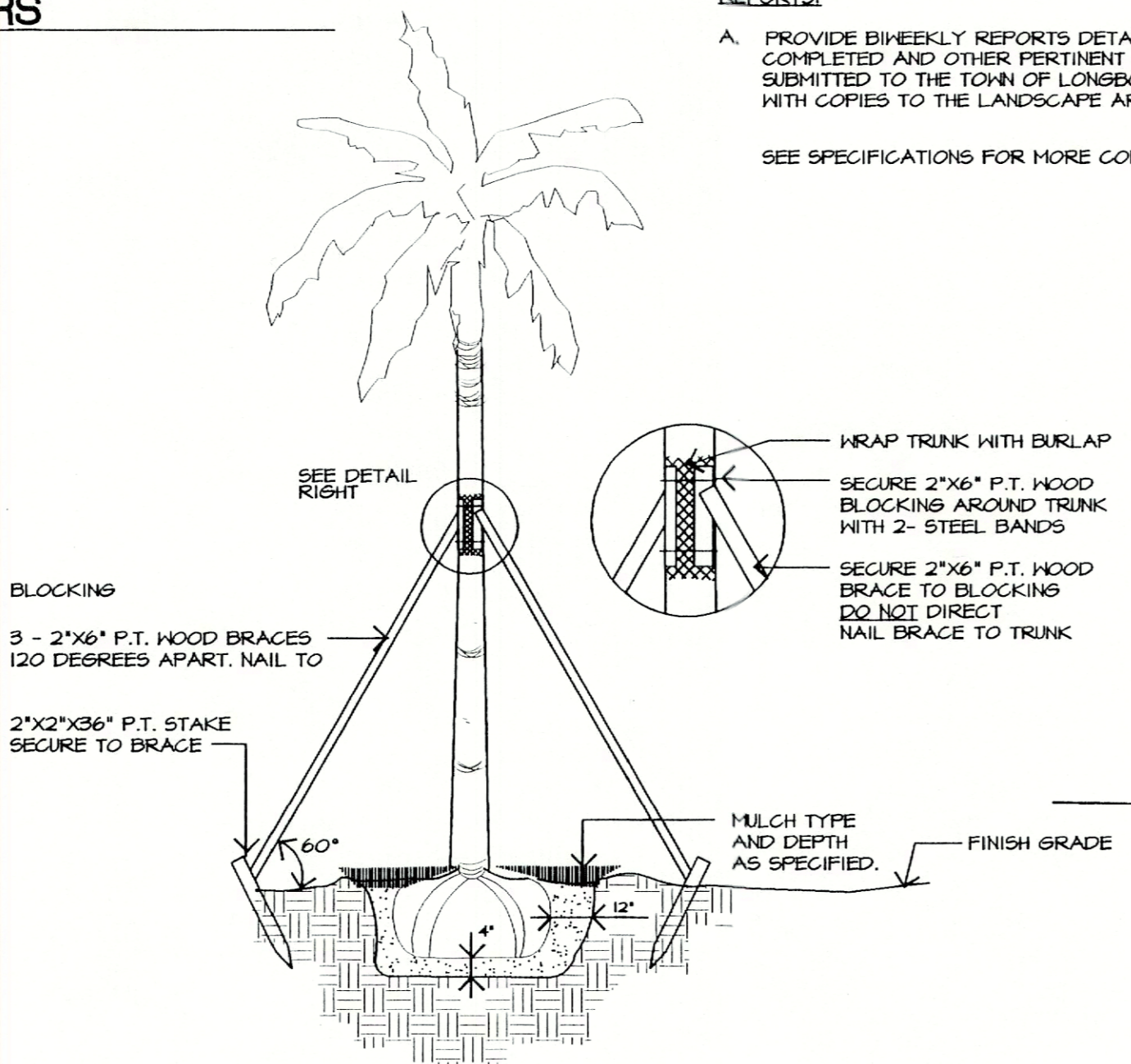
- PLANTING:**
- A. THE CONTRACTOR SHALL MAINTAIN ALL NEWLY PLANTED MATERIALS BY WATERING, PRUNING, CULTIVATING, FERTILIZING, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH AND KEEP FREE PLANTING BEDS OR SAUCERS.
 - B. RESTORE PLANTING SAUCERS, TIGHTEN AND REPAIR STAKES, RESET TREES OR PALMS TO PROPER GRADE OR VERTICAL POSITION AS REQUIRED.
 - C. SPRAY MATERIAL AS REQUIRED TO KEEP FREE FROM INSECTS AND DISEASE.
- IRRIGATION:**
- A. MAINTAIN THE INSTALLED IRRIGATION SYSTEM IN AN OPERABLE CONDITION AT ALL TIMES.
 - B. CHECK FOR LINE BREAKS AND CLEAN BUBBLERS OF DEBRIS SO THAT THEY PROVIDE UNIFORM WATER DISTRIBUTION AT ALL TIMES.
- REPORTS:**
- A. PROVIDE BIWEEKLY REPORTS DETAILING MAINTENANCE WORK COMPLETED AND OTHER PERTINENT INFORMATION. REPORT SHALL BE SUBMITTED TO THE TOWN OF LONGBOAT KEY PUBLIC WORKS DEPT. WITH COPIES TO THE LANDSCAPE ARCHITECT.
- SEE SPECIFICATIONS FOR MORE COMPLETE DETAILS.

NOTE

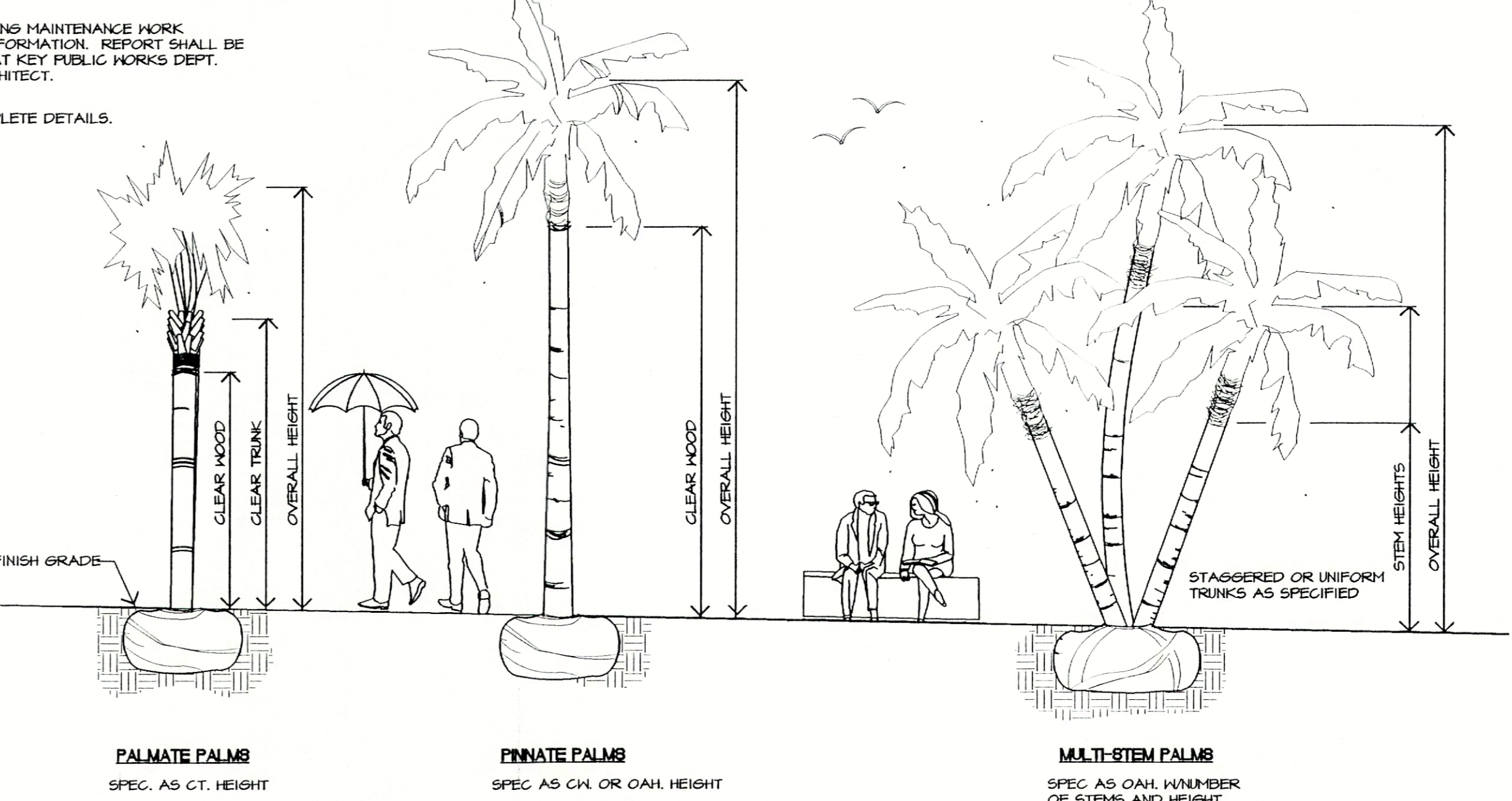
THIS CONTRACT IS SUBJECT TO THE RULES AND REGULATIONS OF GRADES AND STANDARDS FOR NURSERY PLANTS AS PUBLISHED BY THE DIVISION OF PLANT INDUSTRY, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.

ALL PLANTS NOT LISTED IN GRADES AND STANDARDS FOR NURSERY PLANTS, PUBLISHED BY THE DIVISION OF PLANT INDUSTRY, SHALL CONFORM TO A FLORIDA NO. 1 AS TO: 1. HEALTH AND VITALITY, 2. CONDITION OF FOLIAGE, 3. ROOT SYSTEM, 4. FREEDOM FROM PEST OR MECHANICAL DAMAGE, 5. HEAVILY BRANCHED AND DENSELY FOLIATED ACCORDING TO THE ACCEPTED NORMAL SHAPE OF THE SPECIES OR SORT.

AT THE CONCLUSION OF THIS PLANTING, IF THE LANDSCAPE ARCHITECT OR OWNER HAS REASON TO BELIEVE THAT THE PLANTS ARE NOT OF THE SPECIFIED GRADE, HE WILL REQUEST A REGRADING INSPECTION BY THE DIVISION OF PLANT INDUSTRY, AND SUCH EVIDENCE WILL BE THE BASIS FOR REQUESTING REPLACEMENT OF PLANTS AND FOR LEGAL OR OTHER ACTION TAKEN BY THE DIVISION OF PLANT INDUSTRY ACCORDING TO LAH SHOULD THIS BECOME NECESSARY.



PALM STAKING DETAIL
NOT TO SCALE



PALM SIZING SPECIFICATIONS
NOT TO SCALE

PALMS SHALL HAVE FRONDS TIED AROUND BUDS. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL TIES AND INITIAL PRUNING OF FRONDS WITHIN A TIME PERIOD OF NINETY (90) TO ONE HUNDRED TWENTY (120) DAYS AFTER PLANTING.

BALL SIZE VARIES. MINIMUM ACCEPTED SIZES ARE AS FOLLOWS:

SABAL PALMS:	36"X24" DEEP
WASHINGTONIA PALMS (OVER 10' CT)	60"X48" DEEP
WASHINGTONIA PALMS (UNDER 10' CT)	48"X36" DEEP
CANARY ISLAND DATE PALMS:	60"X36" DEEP
QUEEN PALMS:	36"X36" DEEP
PINDO PALMS:	36"X24" DEEP

REFER TO SPECIFICATIONS FOR OTHER NOMENCLATURE, ABBREVIATIONS AND QUALITY REQUIREMENTS.

WIRE AND BURLAP BALLS AS NECESSARY FOR GIVEN SPECIMEN.

LANDSCAPE NOTES:

- 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.
- THE CONTRACTOR IS CAUTIONED TO BE AWARE OF UNDERGROUND UTILITIES. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CHECK WITH THE JOB SITE SUPERINTENDENT, CANDY, AND LONGBOAT KEY UTILITIES FOR LOCATION OF ALL UTILITIES A MINIMUM OF 48 HOURS BEFORE BEGINNING WORK.
- ALL SOD SHALL BE PASPALUM NOTADUM 'BAHIA' SAND GROWN CERTIFIED SOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINISH GRADING IN SOD AREAS. HAND RAKE PRIOR TO INSTALLING SOD. CONTRACTOR TO CUT AND MATCH IN ALL NEW SOD TO EXISTING SOD. STAGGER AND KICK ALL JOINT TIGHT. ALL SOD TO BE ROLLED IMMEDIATELY AFTER INSTALLATION.
- CONTRACTOR SHALL APPLY MINIMUM 2 APPLICATIONS OF ROUNDUP HERBICIDE (OR APPROVED EQUAL) ON EXISTING VEGETATION WHERE IT IS REQUIRED TO BE REMOVED FOR PLANTING. ROUNDUP MUST BE SPRAYED PRIOR TO COMMENCING ANY GRADING OPERATIONS. CONTRACTOR SHALL REVIEW VEGETATION KILL WITH LANDSCAPE ARCHITECT OR OWNER REPRESENTATIVE FOR APPROVAL. ALL HERBICIDES MUST BE APPLIED BY LICENSED APPLICATORS PER MANUFACTURERS RECOMMENDED RATES AND INSTRUCTIONS. POST ALL APPLICATIONS.
- CONTRACTOR SHALL INSTALL ALL FILL TO CONSTRUCT BERMING TO BLEND IN WITH EXISTING GRADE. FILL MATERIAL SHALL BE SECOND CUT CLEAN FILL SUITABLE FOR PLANT GROWTH. SUBMIT SAMPLE OF SECOND CUT CLEAN FILL TO LANDSCAPE ARCHITECT FOR REVIEW. ALL NEW TURF OR WILDFLOWER AREAS TO BE TRACTOR GRADED TO A SMOOTH UNIFORM GRADE. NO FILL IS TO BE PLACED AROUND EXISTING TREES.
- ANY EXCESS SOIL OR DEBRIS FROM CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND TAKEN TO THE COUNTY LAND FILL OR OTHER LOCATION AS APPROVED.
- MULCH ALL NEW PLANTINGS WITH 3" (OR AS NOTED OTHERWISE ON PLAN) OF RECYCLED MULCH.
- THE CONTRACTOR SHALL HAND WATER ALL PALMS AND FIELD GROWN TREES AND SHRUBS A MINIMUM OF FIVE (5) TIMES A WEEK. THE LANDSCAPE CONTRACTOR SHALL BE LIABLE FOR REPLACING TREES AND SHRUBS EXPERIENCING TRANSPLANT SHOCK DUE TO LACK OF WATER AT ANY TIME DURING THE COURSE OF LANDSCAPE INSTALLATION.
- ALL TREES AND PALMS WITHIN SOD AREAS SHALL BE MULCHED WITH 3" MIN. DIAMETER RING 2" DEEP STAKES WHENEVER POSSIBLE SHALL BE WITHIN MULCH RINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EXISTING VEGETATION SOD, DEBRIS, WEEDS, AND HANDWORK UNDER EXISTING TREES IN PREPARATION FOR ANY PLANTING.
- CONTRACTOR SHALL REPAIR ANY AREAS DISTURBED DURING THE COMPLETION OF WORK INCLUDING RESODDING OF IRRIGATION TRENCHES AND PLANTING PITS RESULTING FROM MATERIAL RELOCATIONS.
- AN AUTOMATIC IRRIGATION SYSTEM WILL BE INSTALLED TO PROVIDE 100% COVERAGE ON ALL NEW PLANT MATERIAL.
- ALL NEW PLANT MATERIALS USED SHALL CONFORM TO THE STANDARDS FOR FLORIDA NO. 1 OR BETTER AS ESTABLISHED IN "GRADES AND STANDARDS FOR NURSERY PLANTS" PART I AND PART II STATE OF FLORIDA DEPARTMENT OF AGRICULTURE.
- THE CONTRACTOR SHALL INCORPORATE TERRA-SORB INTO ALL PLANTING PITS AS PER MANUFACTURERS RECOMMENDATIONS. TERRA-SORB MANUFACTURED BY INDUSTRIAL SERVICES INTERNATIONAL, INC., BRADENTON, FLORIDA; (800) 227-6721
- ALL PLANT MATERIAL SHALL BE SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO PURCHASE BY CONTRACTOR.
- CONTRACTOR SHALL STAKE ALL TREES AS PER DETAILS.
- ALL PLANT MATERIAL SHALL BE FERTILIZED ACCORDING TO THE CHART AS SHOWN ON THIS SHEET.
- ALL TREE RINGS EVIDENCING WEED GROWTH SHALL BE SPRAYED WITH ROUND-UP AT THE MFG RECOMMENDED APPLICATION RATE. TREE RINGS AND ALL BEDS ARE TO BE WEED FREE AT FINAL INSPECTION FOR ACCEPTANCE.
- CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL DISTURBED AREAS CREATED BY THE CONSTRUCTION. THIS SHALL INCLUDE ALL SOD AND HAND RAKING TO RESTORE A SMOOTH UNIFORM SURFACE. ALSO REMOVAL OF ANY DEBRIS ENCOUNTERED OR CREATED FROM CONSTRUCTION OPERATIONS. ANY MATERIAL REMOVED FROM THE SITE SHALL BE TAKEN TO A SANITARY LANDFILL OR OTHER APPROVED LOCATION.
- THE OWNER RESERVES THE RIGHT TO MODIFY TREE PLACEMENT IN THE FIELD AS CONDITIONS DICTATE. PLANT MATERIAL SHALL BE INSTALLED PRIOR OR CONCURRENT WITH THE IRRIGATION BUBBLER SYSTEM.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO COMMENCING ANY WORK.

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

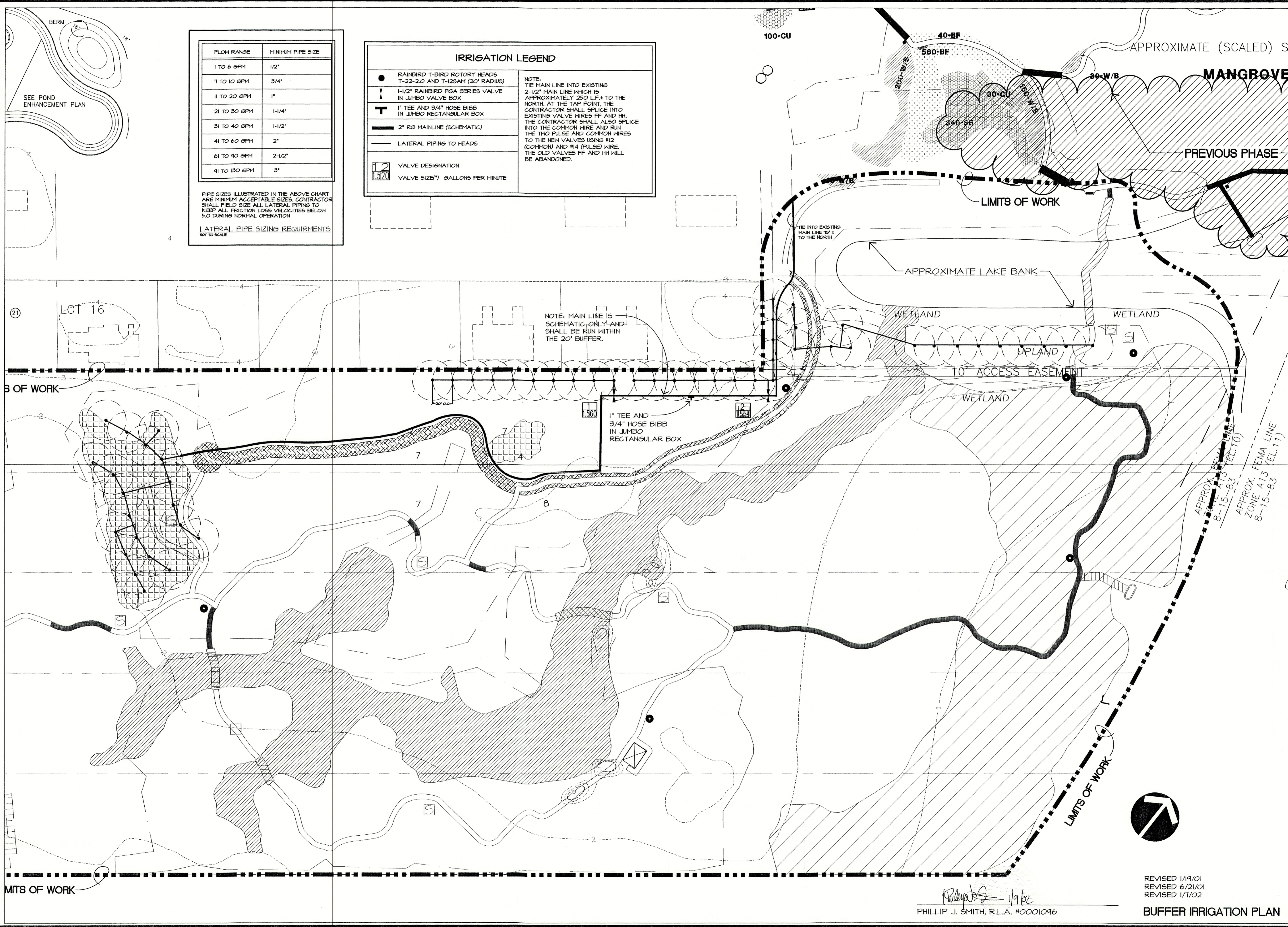
REVISED 6/2/01 BUILDING PERMIT
PLANTING DETAILS

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

PROJECT NO.	20-19	N/A	
SCALE		9/10/00	
DATE		PJ8	
DRAWN BY			11/16/00
ISSUED			

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

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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>
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	VALVE DESIGNATION
	VALVE SIZE(") GALLONS PER MINUTE

LIMITS OF WORK



1/9/02
 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.	20-18
SCALE	1"=40'
DATE	9/13/00
DRAWN BY	LH
ISSUED	11/16/00

LANDSCAPE DEVELOPMENT PLANS FOR

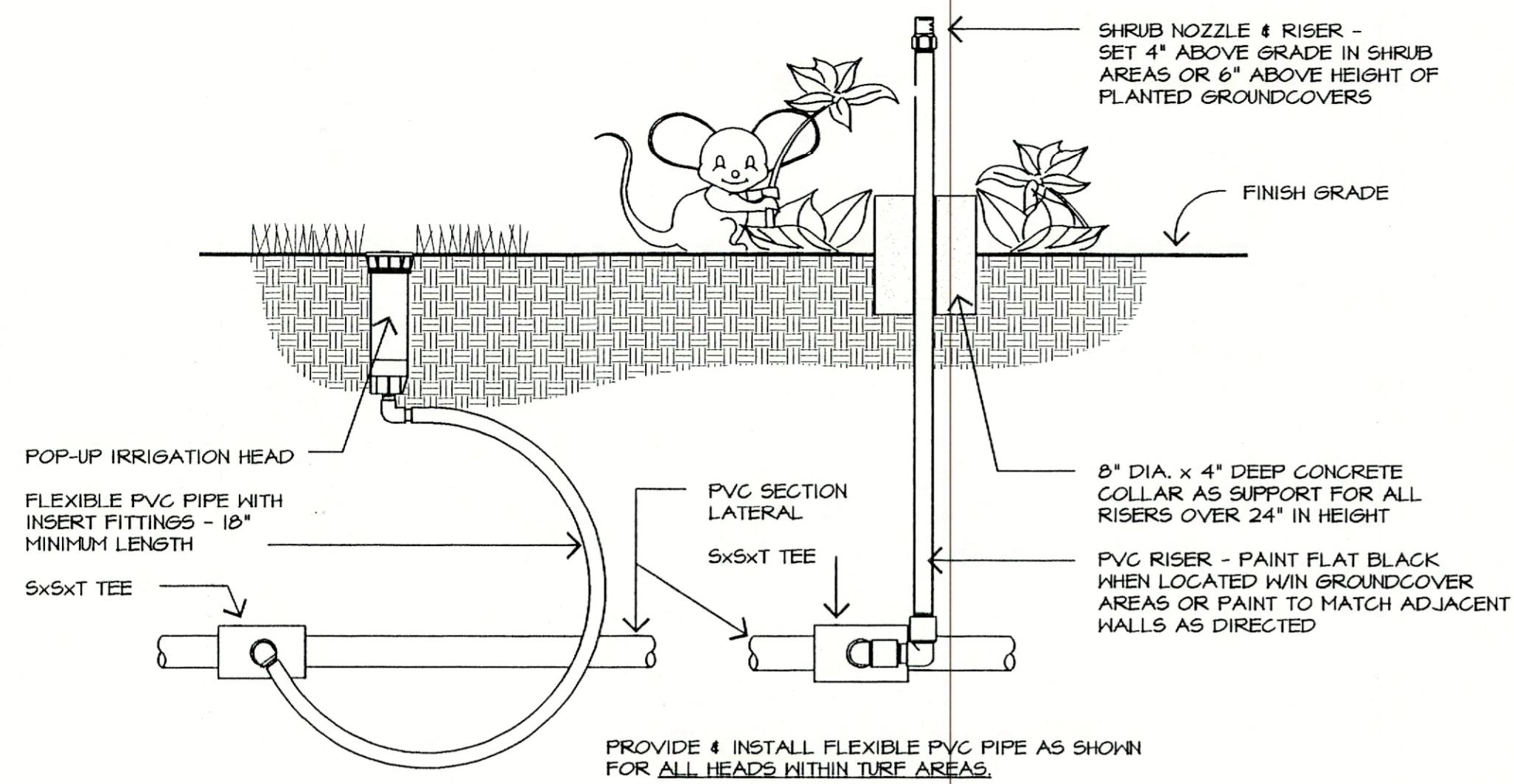
DURANTE PARK PHASE IV

LONGBOAT KEY, FLORIDA

SHEET NO.

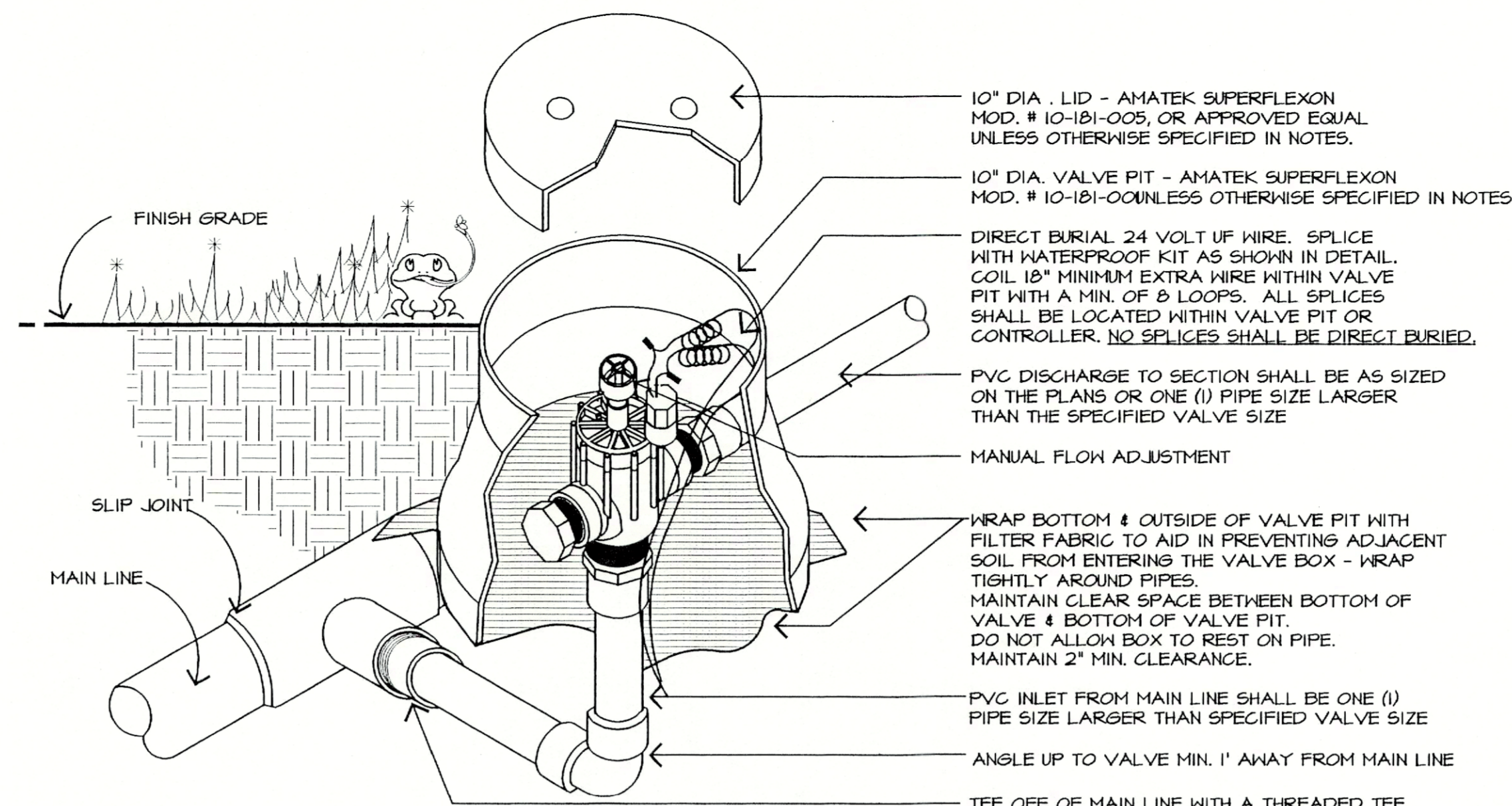
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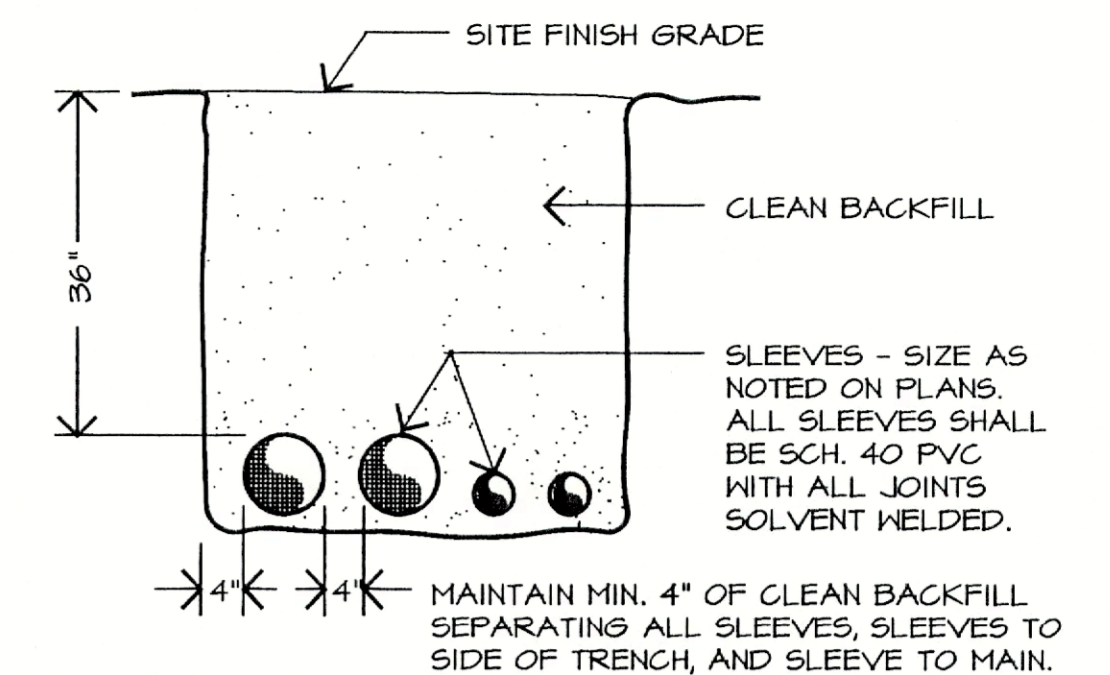
TYP. POP-UP / RISER INSTALLATION

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.

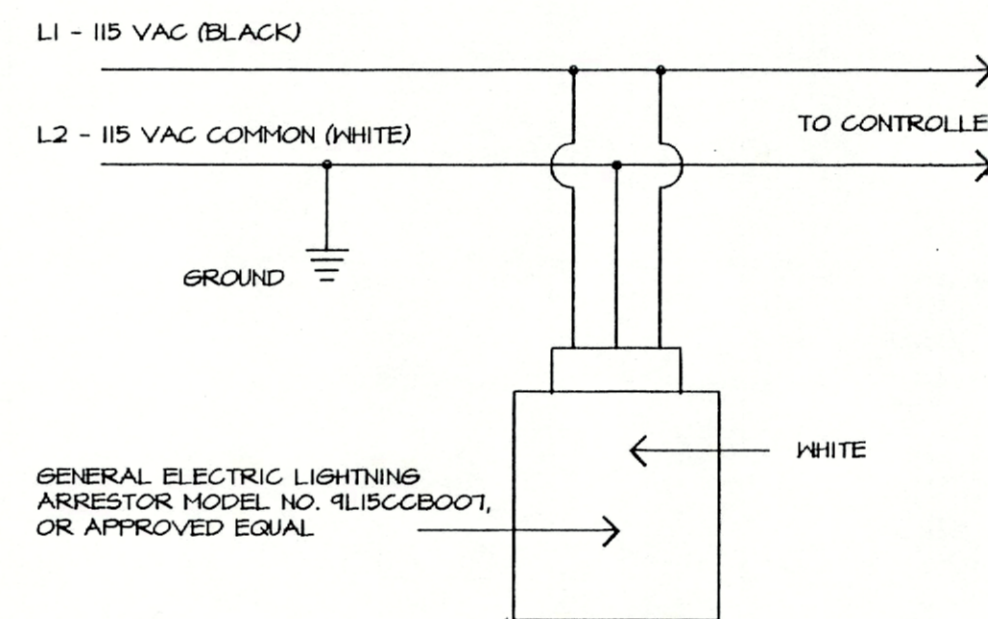
ALL 24 VAC WIRING SHALL BE OF DIRECT BURIAL COPPER WIRE AS FOLLOWS:
PULSE WIRES - #14
COMMON WIRES - #12

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.

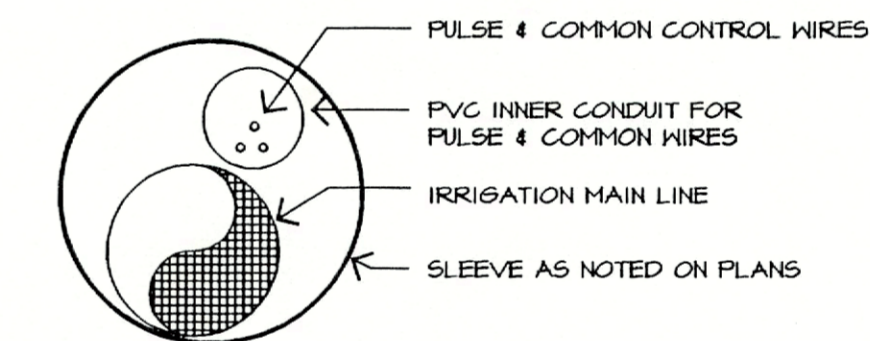
INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE.

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

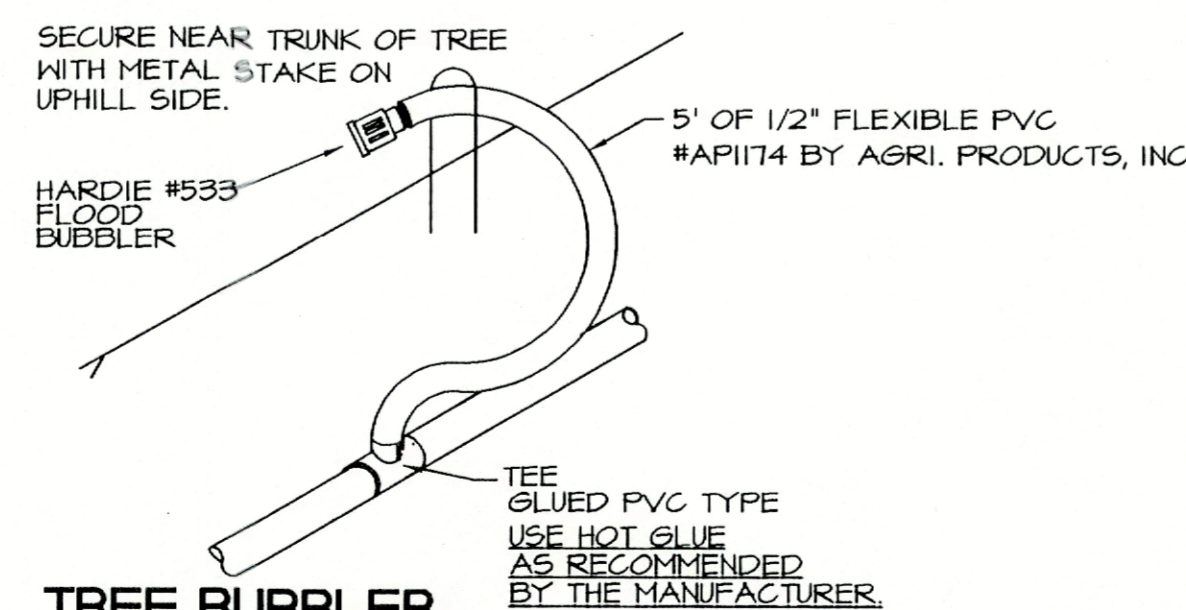
NOT TO SCALE



NOTE: PVC WIRE CONDUIT SHALL BE ONE CONTINUOUS RUN LENGTH FOR RUNS LESS THAN 20'; RUNS OF GREATER THAN 20' SHALL HAVE SOLVENT WELD JOINTS.

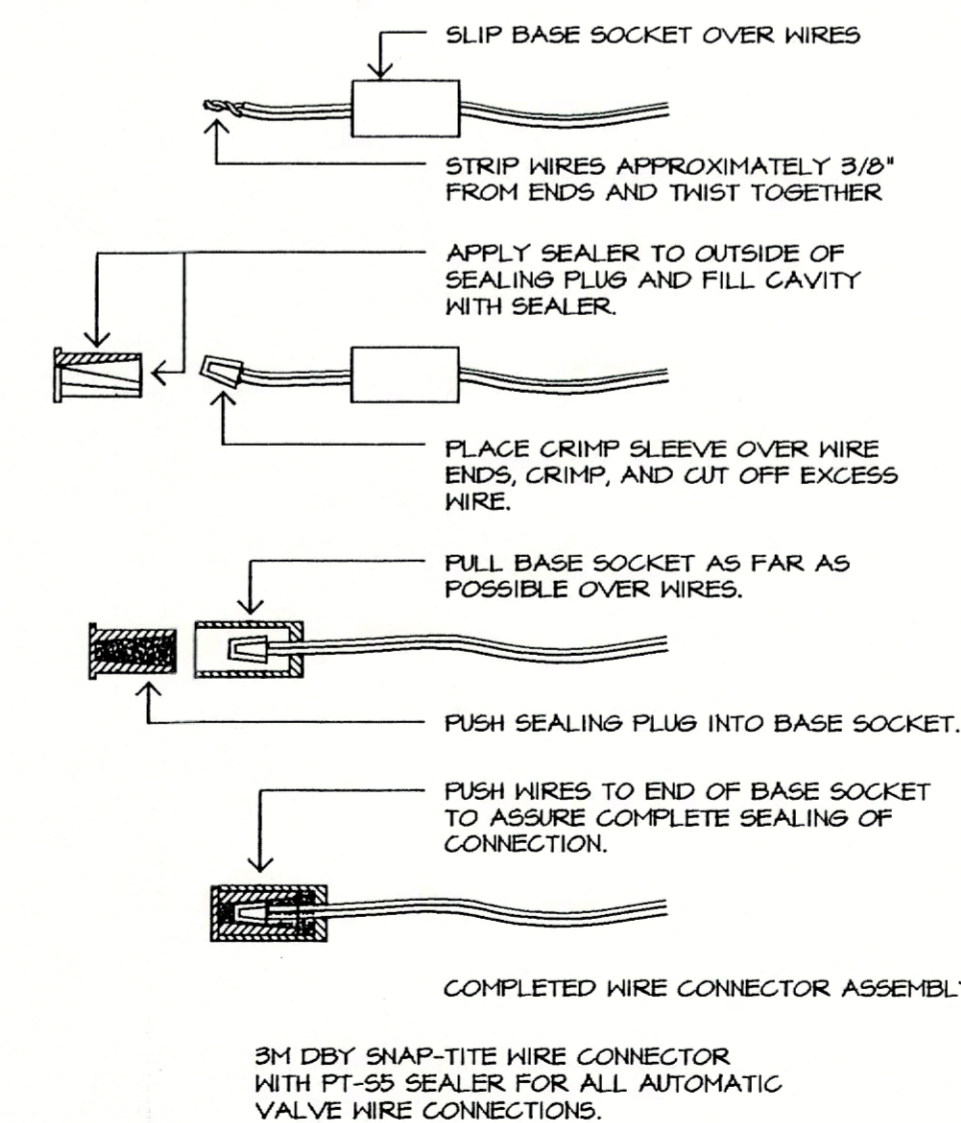
SLEEVE DETAIL

NOT TO SCALE



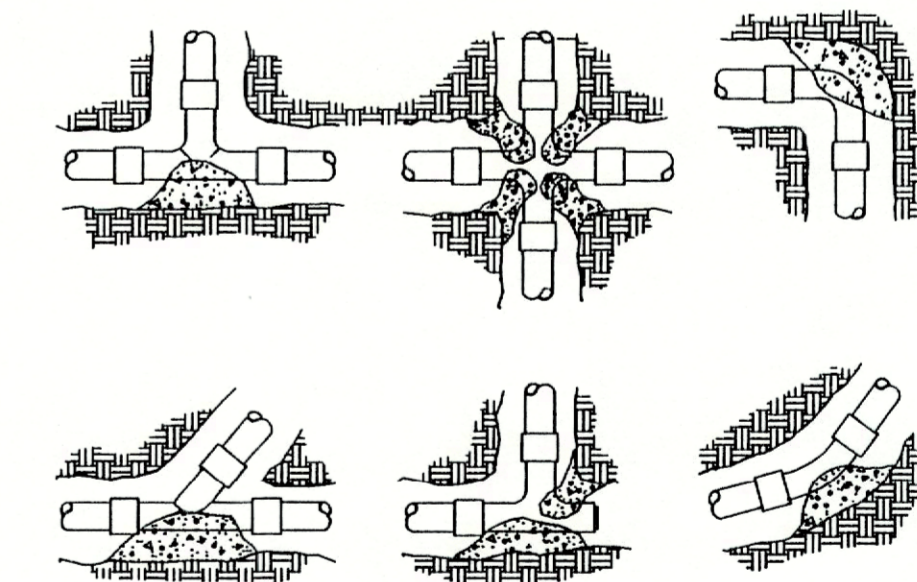
TREE BUBBLER

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

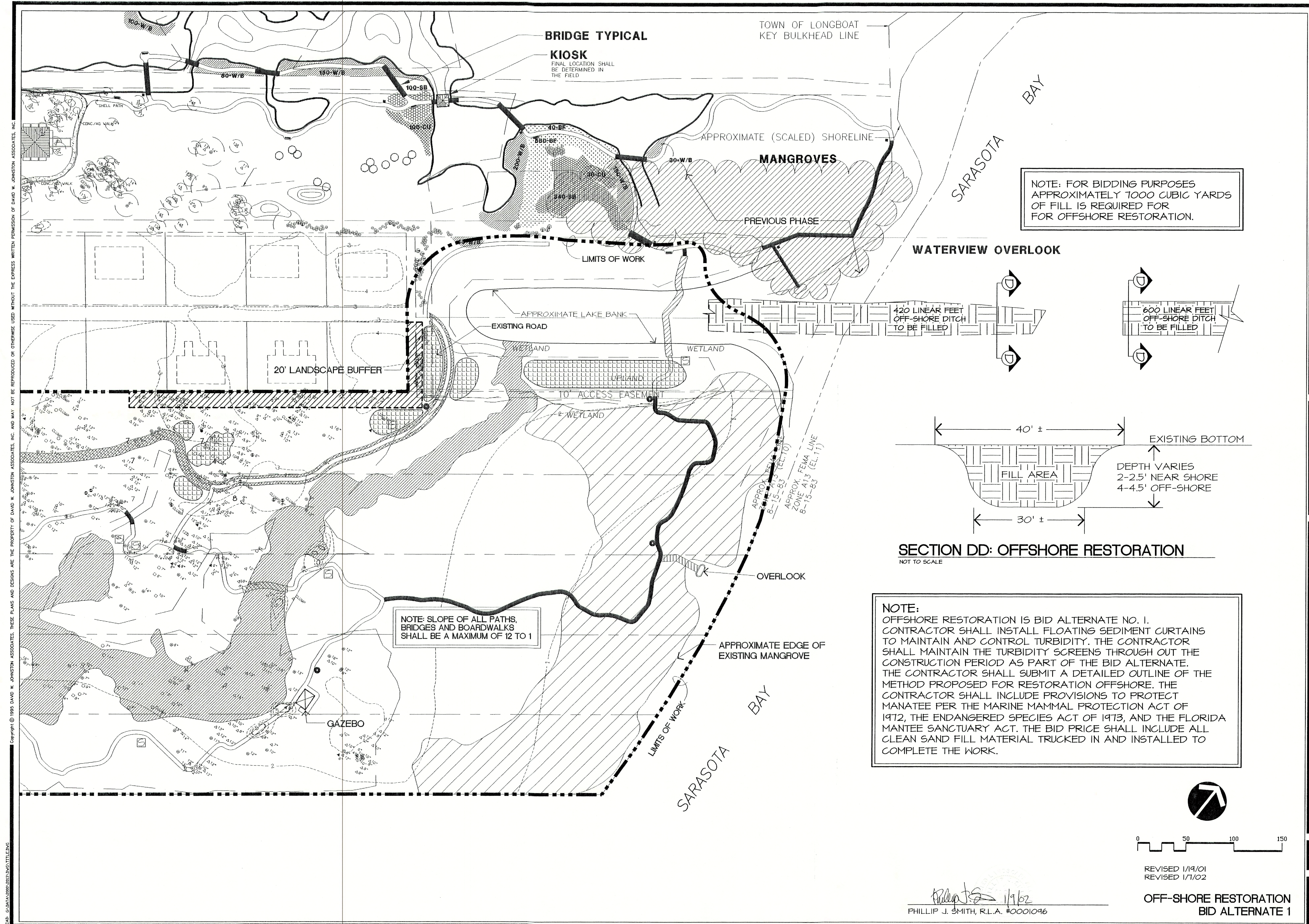
dwjva LANDSCAPE ARCHITECTS
DAVID W. JOHNSON ASSOCIATES
1487 SECOND STREET, SUITE E • SARASOTA, FL 34236 • (813) 966-3159

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

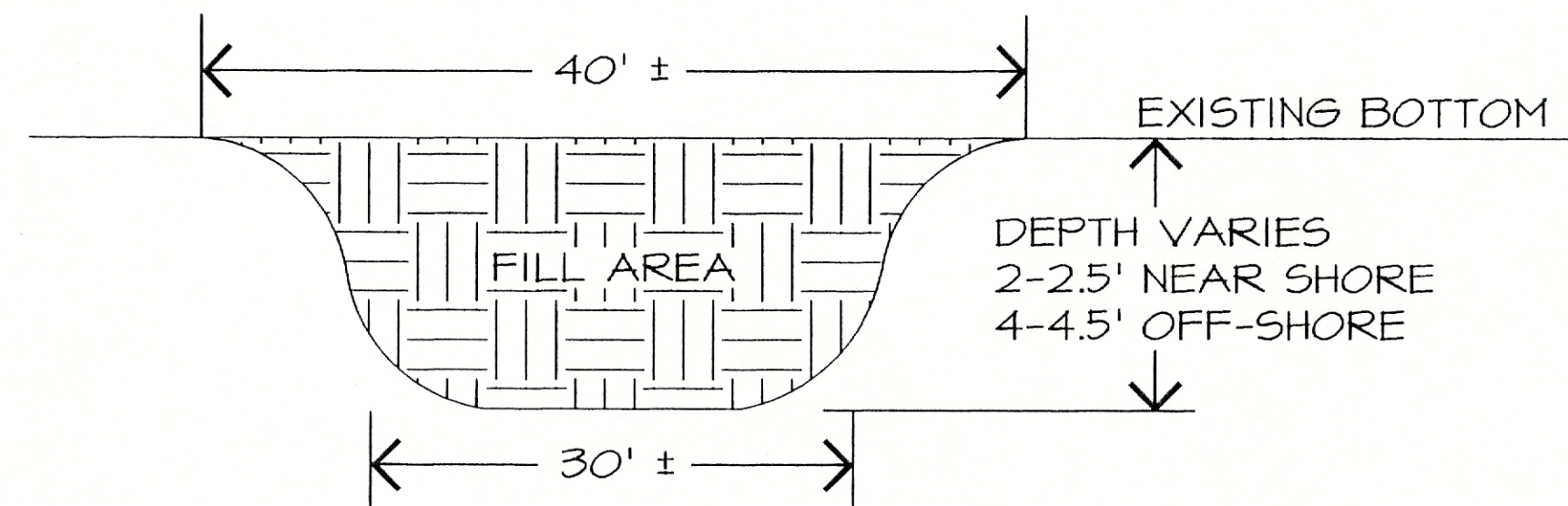
LANDSCAPE DEVELOPMENT PLANS FOR
DURANTE PARK PHASE IV
LONGBOAT KEY, FLORIDA

SHEET NO.

L-10



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



SECTION DD: OFFSHORE RESTORATION
NOT TO SCALE

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.

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



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

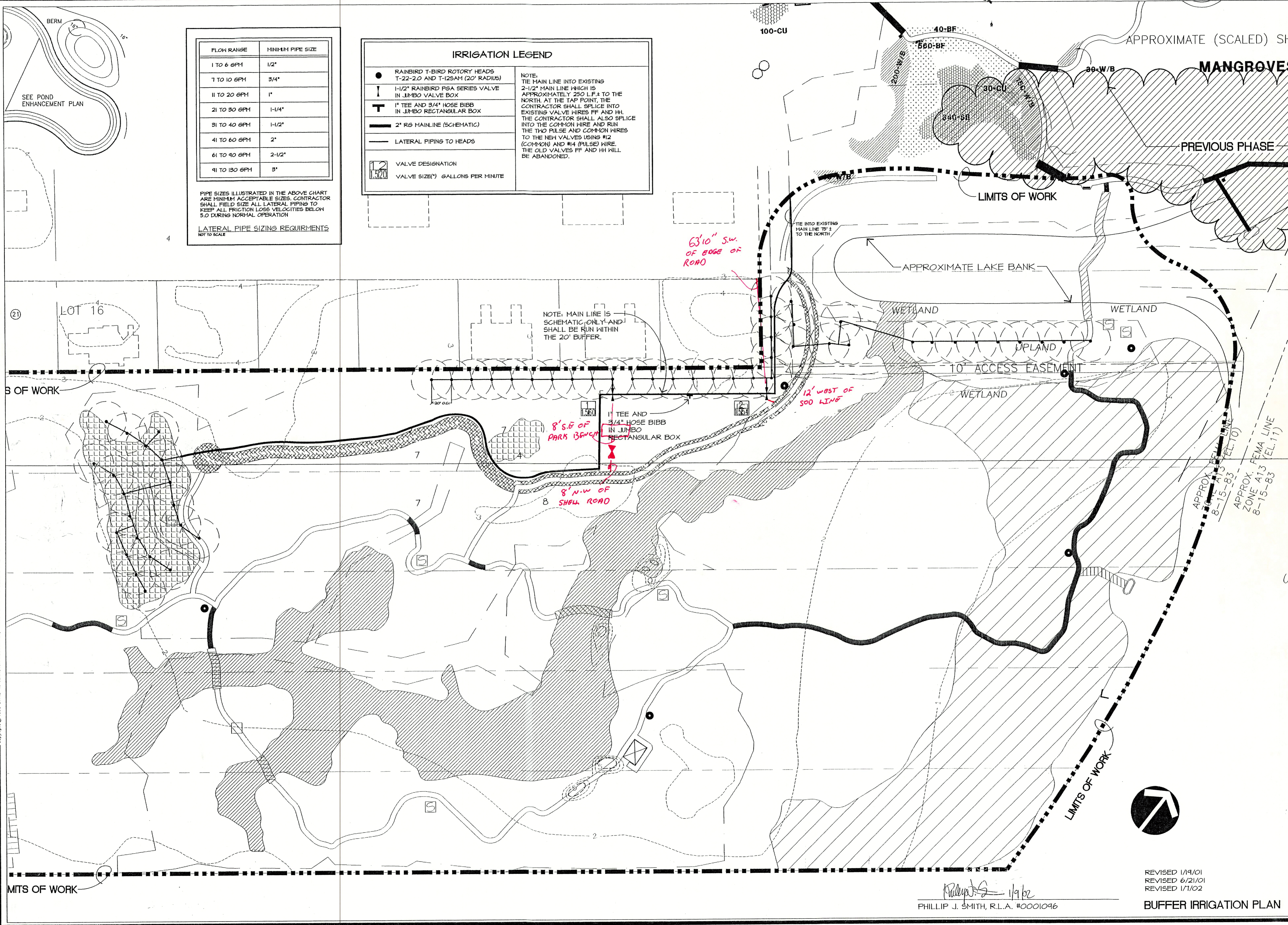
Phillip J. Smith 1/16/02
PHILLIP J. SMITH, R.L.A. #0001096

OFF-SHORE RESTORATION
BID ALTERNATE 1

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

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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)	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 HL. 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 HL WILL BE ABANDONED.
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" R6 MAINLINE (SCHEMATIC)	
—	LATERAL PIPING TO HEADS	
[Symbol]	VALVE DESIGNATION	
[Symbol]	VALVE SIZE(*) GALLONS PER MINUTE	

dmja LANDSCAPE ARCHITECTS
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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 **IRRIGATION AS-BUILTS**

SHEET NO.	L-9
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PHILLIP J. SMITH, R.L.A. #0001096

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