

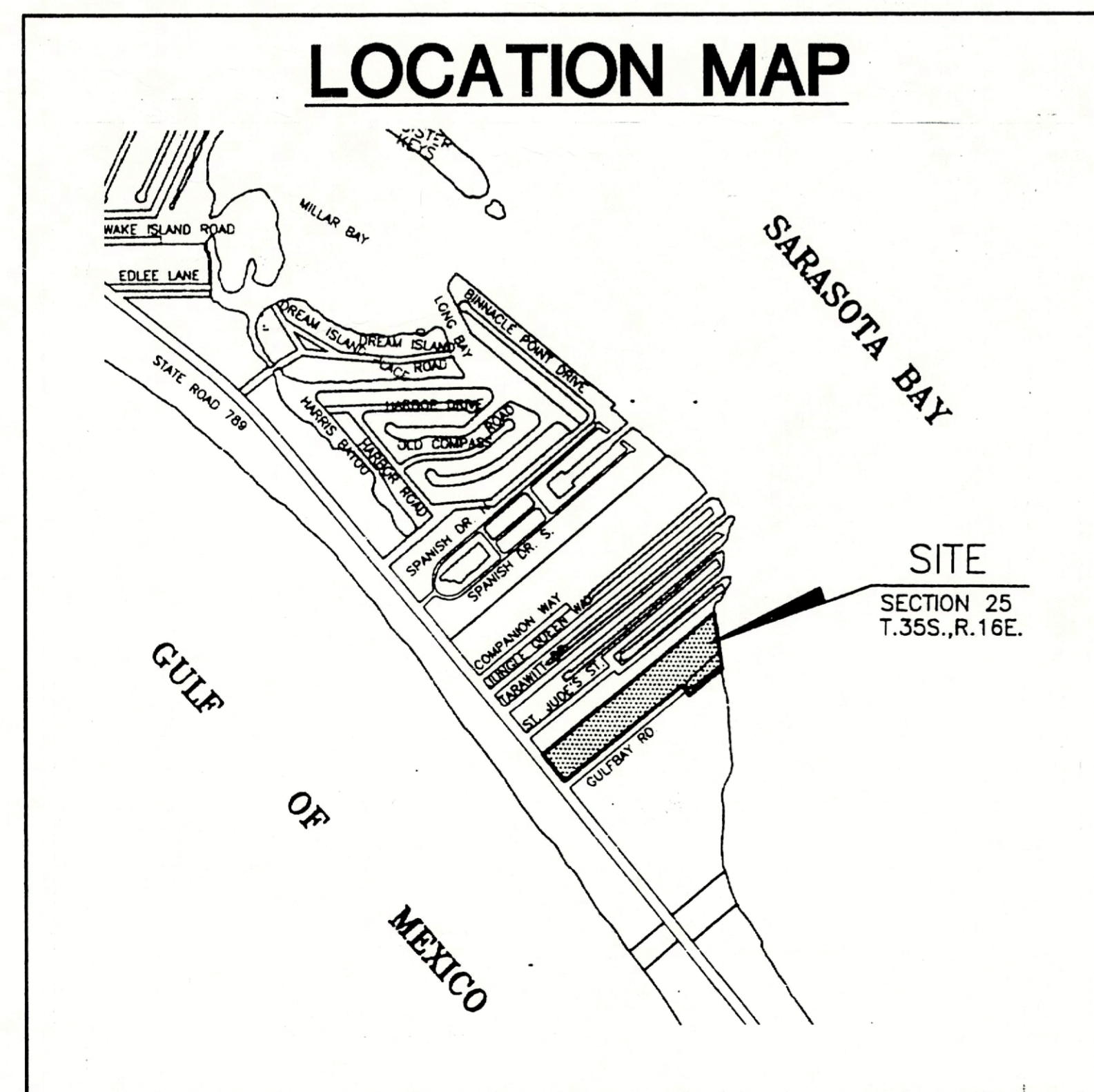
# JOAN M. DURANTE COMMUNITY PARK

## PHASE IIIb



# TOWN OF LONGBOAT KEY

## LONGBOAT KEY, FLORIDA 34228



### ARCHITECT

MADDOX & ASSOCIATES ARCHITECTS  
1266 FIRST STREET SUITE 9  
SARASOTA, FLORIDA 34236  
941/955-7358

### LANDSCAPE ARCHITECT

DAVID W. JOHNSTON ASSOCIATES  
1481 SECOND STREET SUITE E  
SARASOTA, FLORIDA 34236  
941/366-3153

### CIVIL ENGINEER

LANDRY & ESBER  
5940 PALMER BLVD.  
SARASOTA, FLORIDA 34236  
941/379-8831

### DRAWING INDEX

C6-1	COVER SHEET
C-2	AERIAL SITE PLAN
C-3	EXISTING CONDITIONS
C-4	GENERAL SITE PLAN
C-5	DETAIL SITE PLAN
C-6	DETAIL SITE PLAN
C-7	DETAILS
L-1	LANDSCAPE PLAN
L-2	POND ENHANCEMENT
L-3	DETAILS
L-4	PLANTING DETAILS
IR-1	IRRIGATION PLAN
IR-2	IRRIGATION PLAN
IR-3	IRRIGATION PLAN
IR-4	IRRIGATION DETAILS
A-1	KIOSK - PLANS & DETAILS
A-2	SHADE HOUSE - PLANS & DETAILS

MADDOX  
&  
ASSOCIATES  
ARCHITECTS

1266 FIRST STREET  
SUITE 9  
SARASOTA, FLORIDA 342  
941/955-7358  
FAX 941/955-7360

CONSULTANTS:

JOAN M. DURANTE  
COMMUNITY  
PARK

PHASE III

LONGBOAT KEY  
FLORIDA 34228

SEAL:

NO. \* D#

PROJECT

DATE:

DRAWN

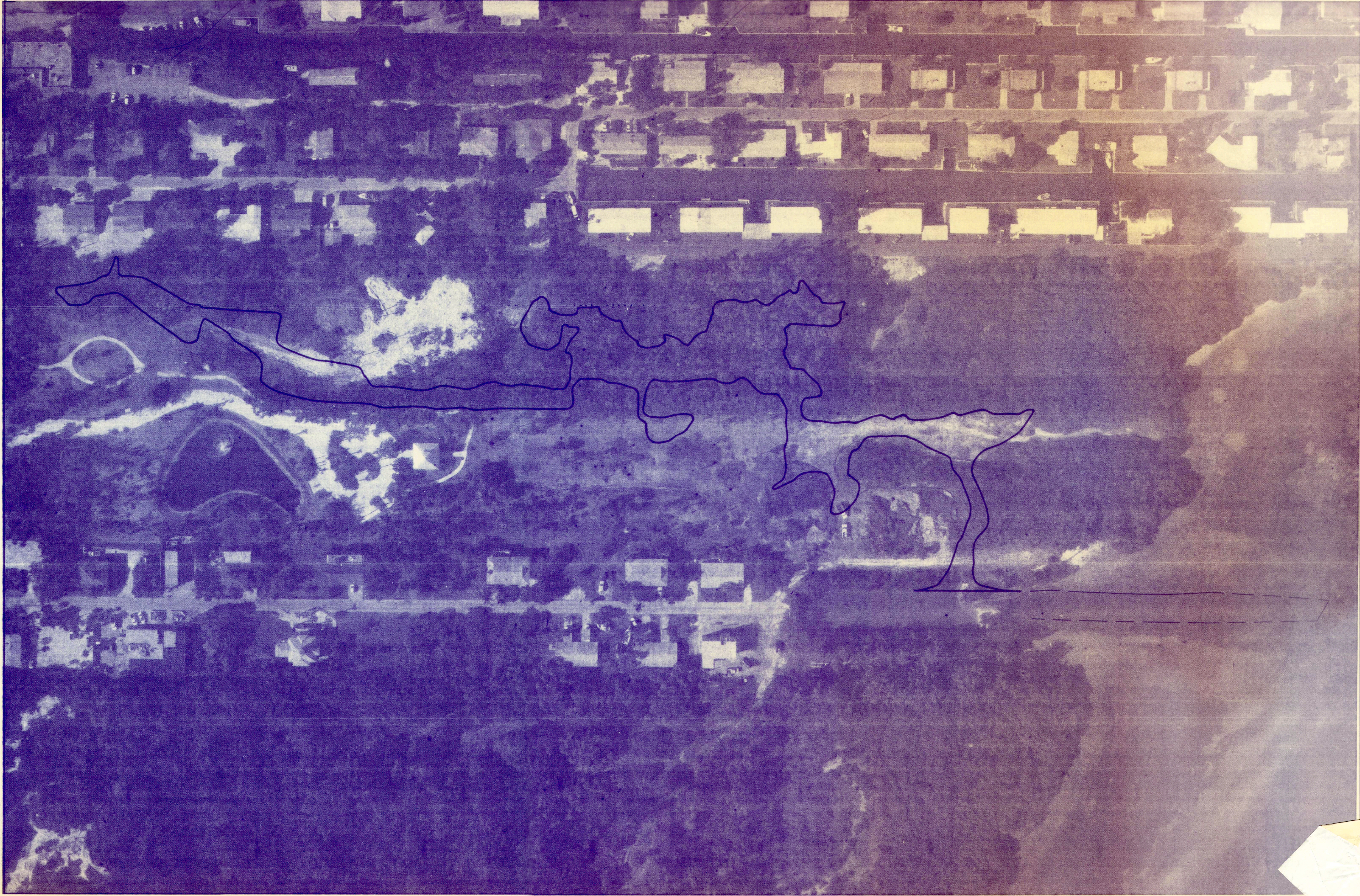
CHECKE

DWG. F

SCALE

SHEET

SHEET



JOHN V. DURANT COMMUNITY DEVELOPMENT  
 CONSTRUCTION PLANS - PHASE J  
 AERIAL PHOTOGRAPH

**LANDRY & ESBER**  
 Engineers • Surveyors  
 300 Palmor Blvd • Sarasota, FL 34203  
 (941) 553-4661 • Fax (941) 553-0516

DATE	DRAWING SCALE	DATE	BY	DESCRIPTION

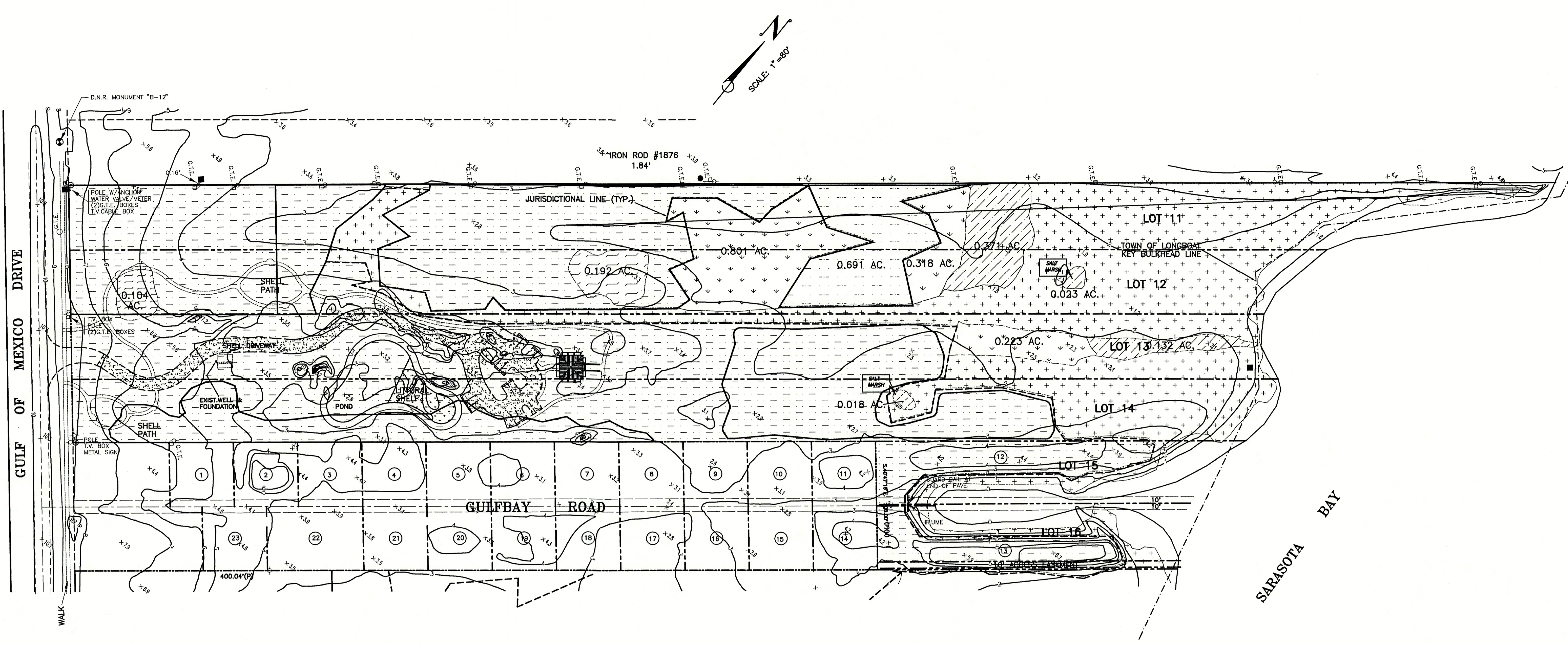
NO.	DATE	BY	DESCRIPTION

SEA

DATE

FOR RECORD  
 TO FOR CONSTRUCTION

CA:STEVE.LBOOSDAI.NEWS3.DWG



LEGEND  
 X.38 SPOT ELEVATION  
 - - - - - JURISDICTIONAL LINE

JURISDICTIONAL HABITAT		UPLAND HABITAT	
	MANGROVE		UPLAND
	DISTURBED SALT MARSH		COASTAL UPLAND
	TRANSITIONAL SALT MARSH		COASTAL HAMMOCK
	SALT MARSH		JURISDICTIONAL LINE

JOAN M. DURANTE COMMUNITY PARK  
 CONSTRUCTION PLANS - PHASE 3  
 EXISTING CONDITIONS

DATE:	7/18/08	BY:	
DRAWING SCALE:	1"=80'	DATE:	
HORIZ.:		REVISIONS:	
VERT.:		DATE:	
DESIGN:		BY:	
DRAWN:		CHK'D:	

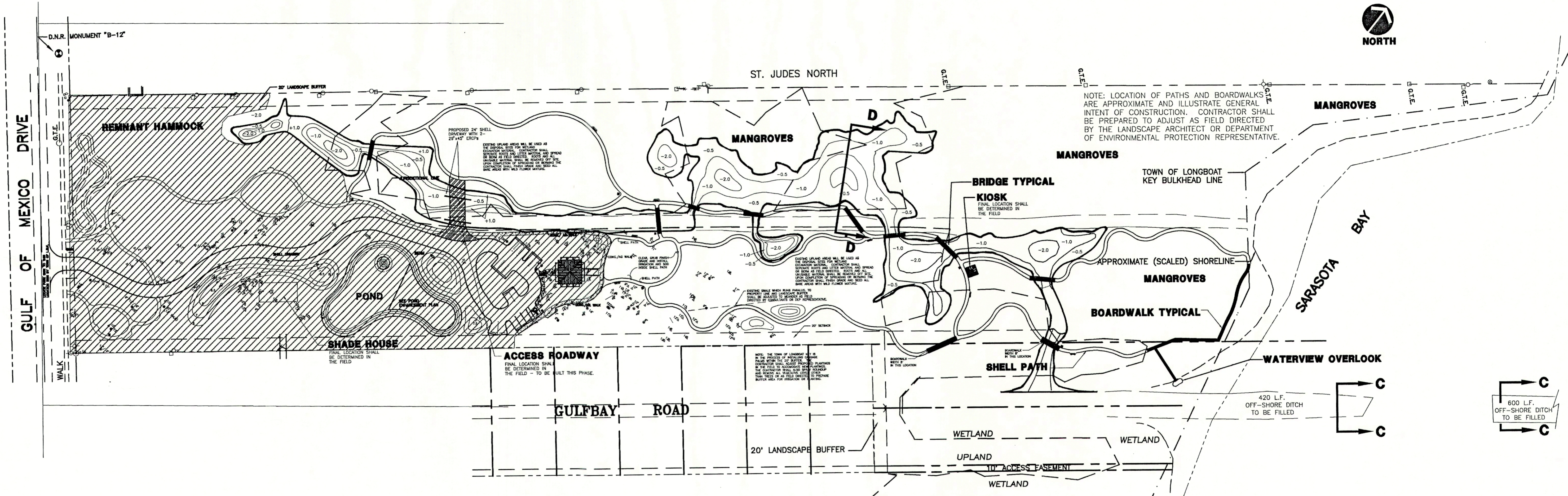
LANDRY & ESBER  
 Engineers • Surveyors  
 5940 Palmer Blvd. • Sarasota, FL 34232  
 (941)379-8831 • Fax (941)379-0556

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
 ENGINEER OF RECORD  
 NOT ISSUED FOR CONSTRUCTION

PROJECT NO: B00504  
 SHEET NO: C-3

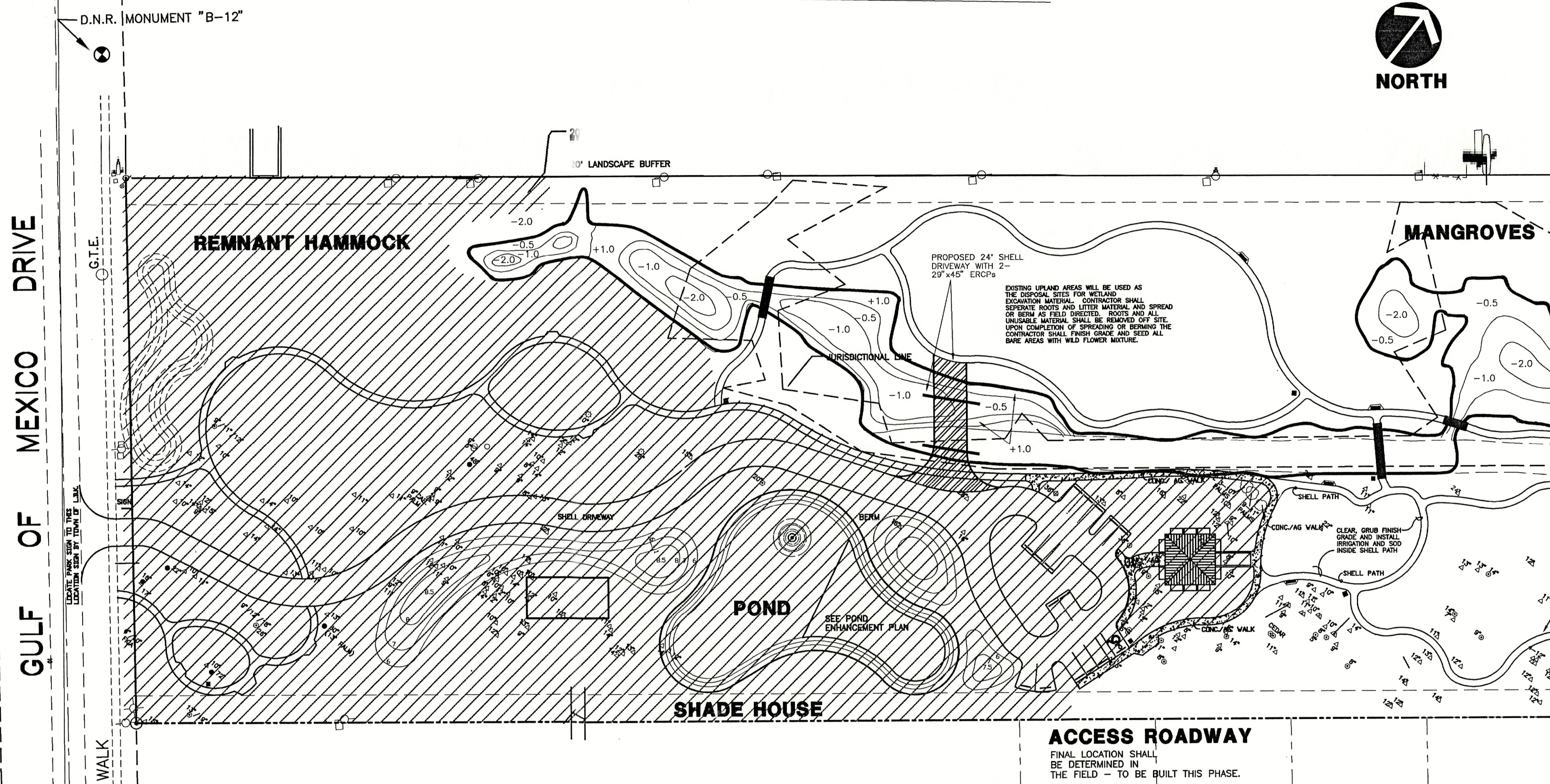


NOTE: LOCATION OF PATHS AND BOARDWALKS ARE APPROXIMATE AND ILLUSTRATE GENERAL INTENT OF CONSTRUCTION. CONTRACTOR SHALL BE PREPARED TO ADJUST AS FIELD DIRECTED BY THE LANDSCAPE ARCHITECT OR DEPARTMENT OF ENVIRONMENTAL PROTECTION REPRESENTATIVE.



**LEGEND**

- 1.0 PROPOSED ELEVATIONS (N.G.V.D.)
- AREAS IMPROVED BY PREVIOUS PHASE
- BOARDWALK/BRIDGE
- SHELL PATH



MATCH LINE - SEE SHEET C-6

**LEGEND**

-1.0	PROPOSED ELEVATIONS (N.G.V.D.)	=====	SHELL PATH, MAX. GRADE 1:12
[Hatched Box]	AREAS IMPROVED BY PREVIOUS PHASE	— — —	RAISED WOOD WALKWAY
— —	BOARDWALK/BRIDGE	— —	WOOD BRIDGE
=====	SHELL PATH	~~~~~	WETLAND RESOURCE RECOVERY AREA (WRRRA) TO BE EXCAVATED
-1.5	APPROX. FINISHED ELEVATION		

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
 ENGINEER OF RECORD \_\_\_\_\_  
 NOT ISSUED FOR CONSTRUCTION

PROJECT NO: B00504  
 SHEET NO: C-5

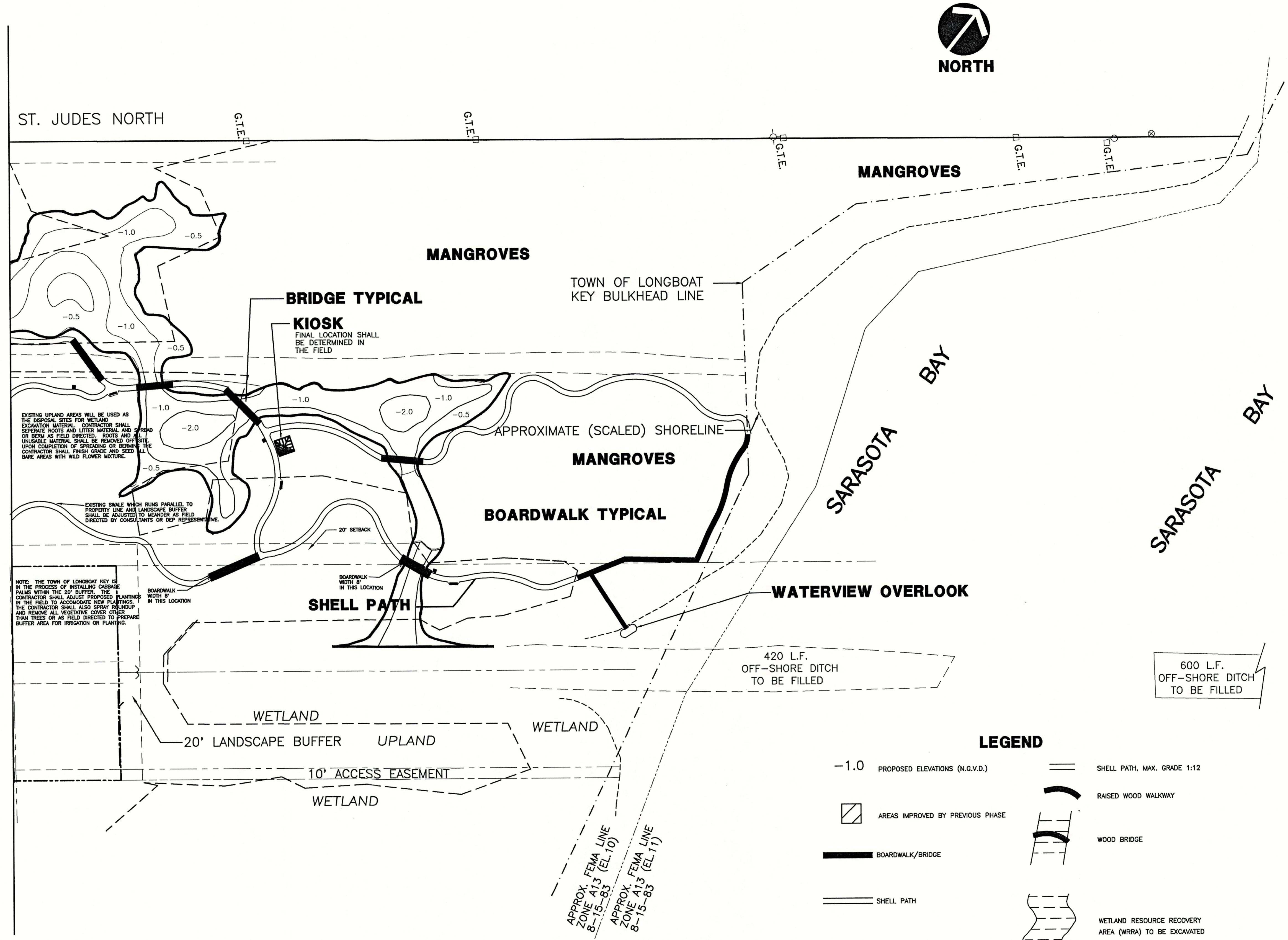
**LANDRY & ESBER**  
 Engineers • Surveyors  
 5940 Palmetto Blvd. • Sarasota, FL 34232  
 (941)379-8831 • Fax (941)379-0556

DATE	BY	DESCRIPTION
7/18/98		
8/18/98	DBH	REV. PER DEP
12/17/98	BPD	REVISED ACCESS ROADS, RELOCATE ONE & ADDED ONE
10/22/98	BLE	REMOVE LANDSCAPING
10/25/98	DBH	ADD ELEV. FUTURE AREA, NOTE, ACCESS ROADWAY

JOAN M. DURANTE COMMUNITY PARK  
 CONSTRUCTION PLANS - PHASE 3  
 DETAIL SITE PLAN

CA:\STEVE\B00504\C-6-50.DWG

MATCH LINE - SEE SHEET C-5



**LEGEND**

-1.0	PROPOSED ELEVATIONS (N.G.V.D.)	=====	SHELL PATH, MAX. GRADE 1:12
[Hatched Box]	AREAS IMPROVED BY PREVIOUS PHASE	=====	RAISED WOOD WALKWAY
[Thick Black Line]	BOARDWALK/BRIDGE	=====	WOOD BRIDGE
[Thin Black Line]	SHELL PATH	=====	WETLAND RESOURCE RECOVERY AREA (WRRRA) TO BE EXCAVATED
[Box with -1.5]	APPROX. FINISHED ELEVATION		

EXISTING UPLAND AREAS WILL BE USED AS THE DISPOSAL SITES FOR WETLAND EXCAVATION MATERIAL. CONTRACTOR SHALL SEPARATE ROOTS AND LITES MATERIAL AND SPREAD OR BURN AS FIELD DIRECTED. ROOTS AND LITES UNDESIRABLE MATERIAL SHALL BE REMOVED OFF SITE. UPON COMPLETION OF SPREADING OR BURNING THE CONTRACTOR SHALL FINISH GRADE AND SEED ALL BARE AREAS WITH WILD FLOWER MIXTURE.

EXISTING SHADE WHICH RUNS PARALLEL TO PROPERTY LINE AND LANDSCAPE BUFFER SHALL BE ADJUSTED TO MEASURE AS FIELD DIRECTED BY CONSULTANTS OR DEP REPRESENTATIVE.

NOTE: 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 NOW PLANTINGS. THE CONTRACTOR SHALL ALSO SPRAY ROUNDUP AND REMOVE ALL VEGETATION COVER GREATER THAN TREES OR AS FIELD DIRECTED TO PREPARE BUFFER AREA FOR IRRIGATION OR PLANTING.

JOAN M. DURANTE COMMUNITY PARK  
CONSTRUCTION PLANS - PHASE 3  
DETAIL SITE PLAN

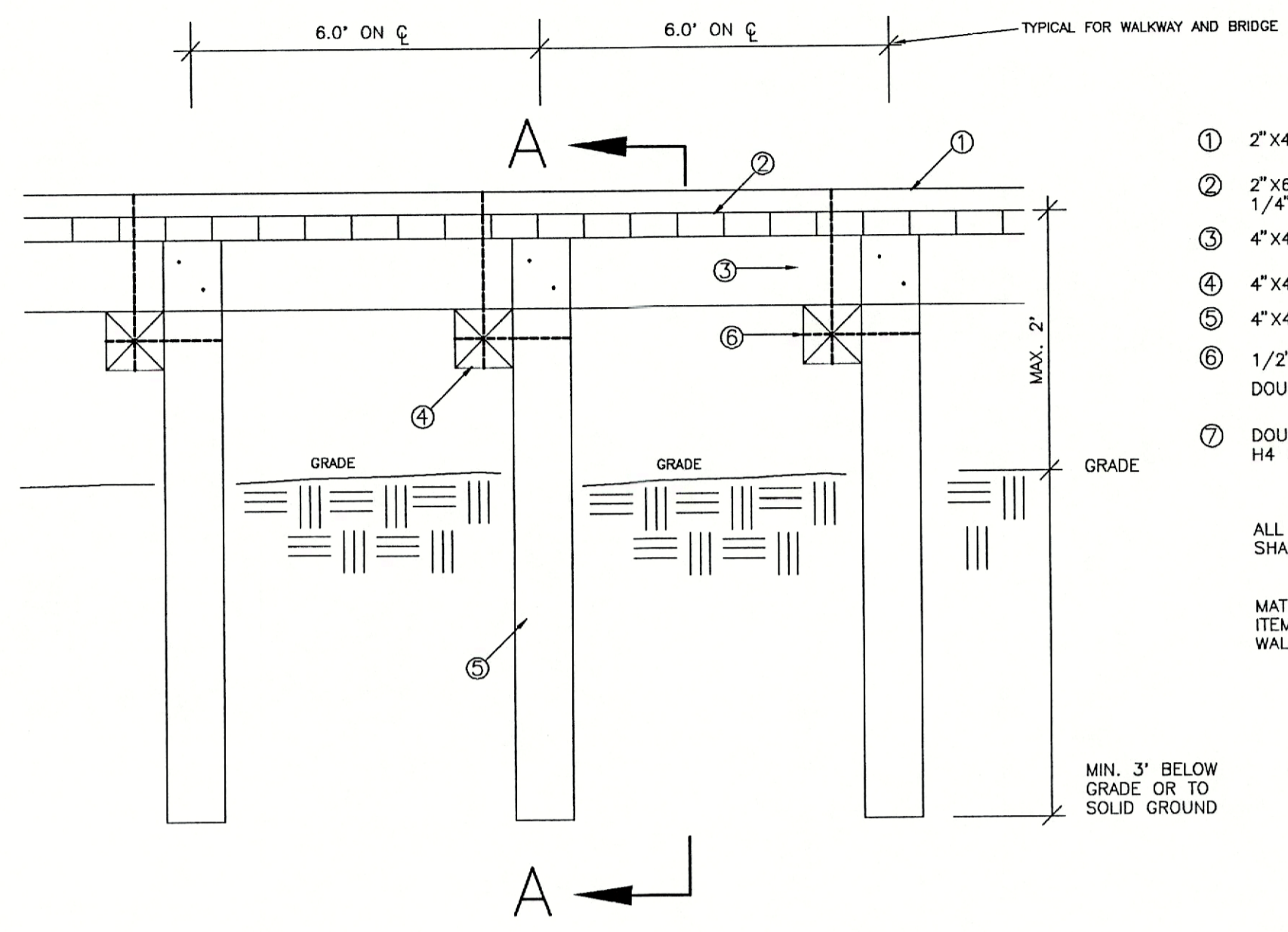
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10/22/08 <td> <td></td> </td>	<td></td>	

DATE: 7/18/08  
DRAWING SCALE: 1"=50'  
HORIZ: JMB  
VERT: JMB  
DESIGN: JMB  
DRAWN: JMB  
CHECK: JMB

REVISIONS FOR DEP COMMENTS  
REVISIONS FOR DEP COMMENTS  
REVISIONS FOR DEP COMMENTS

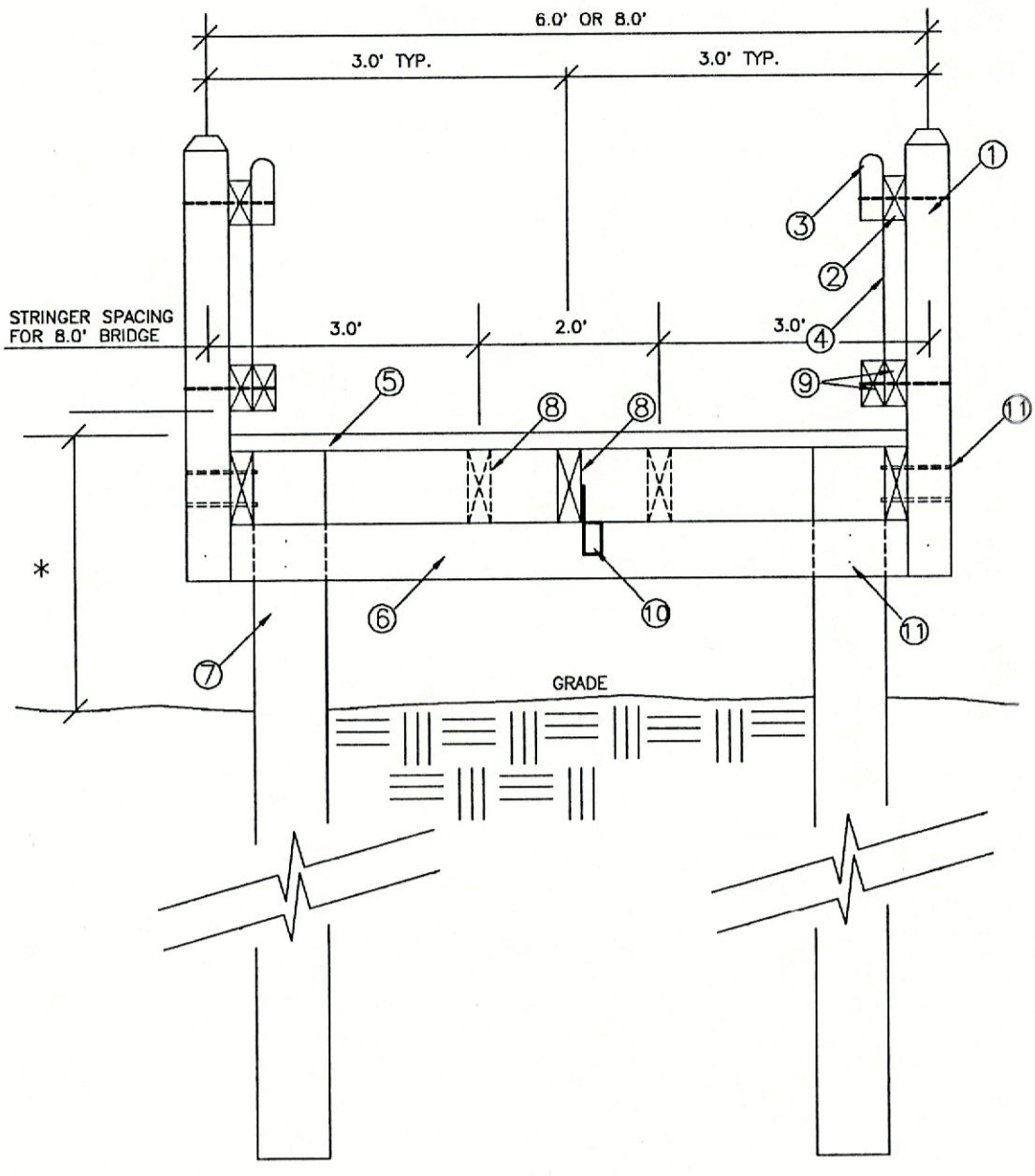
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ENGINEER OF RECORD DATE  
NOT ISSUED FOR CONSTRUCTION

PROJECT NO: B00504  
SHEET NO: C-6



- ① 2"x4" CURB, 0.8CCA S4S
  - ② 2"x6" DECKING, 0.8CCA S4S  
1/4" SPACING
  - ③ 4"x4" STRINGER, 0.8CCA S4S
  - ④ 4"x4" BENT, 0.8CCA S4S
  - ⑤ 4"x4" POST, 2.5CCA ROUGH
  - ⑥ 1/2" STEEL BOLTS, NUTS & WASHERS,  
DOUBLE HOT DIP GALVANIZED
  - ⑦ DOUBLE HOT DIP GALVANIZED  
H4 BRACKET, TYPICAL ALL STRINGERS
- ALL DECKING NAILS, STAINLESS STEEL, RING SHANKED 30d, 2 NAILS MIN. PER CONNECTION.
- MATERIAL LIST IS TYPICAL FOR ALL SIMILAR ITEMS SHOWN ON WOOD BRIDGE AND WALKWAY DETAILS.

MIN. 3' BELOW GRADE OR TO SOLID GROUND

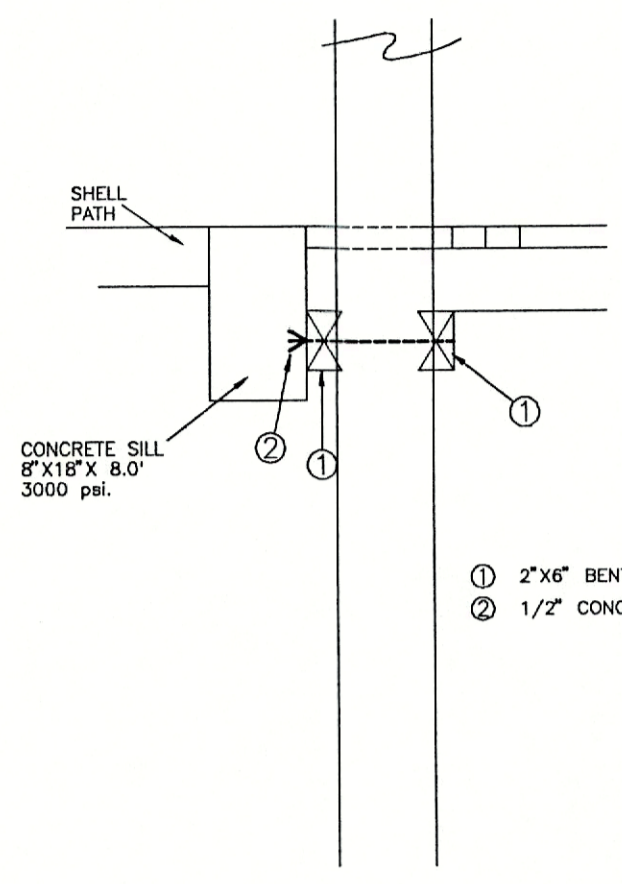


- ① 4" SQ. POST, 0.8CCA S4S
  - ② 2"x4" RAIL SPACER 0.8CCA S4S
  - ③ 2"x6" HANDRAIL, TOP, 2" DIAMETER 0.8CCA S4S
  - ④ 9GA. GALV. CHAIN-LINK FENCE, BLACK VINYL COATING, FENCE SHALL BE STRETCHED AND STAPLED TO OUTER SUPPORT AT EVERY LOOP ON ALL RAIL SPACER AND FENCE SUPPORTS.
  - ⑤ 2"x6" DECKING, 0.8CCA S4S,  
1/4" SPACING
  - ⑥ 2"x6" BENT, 0.8CCA ROUGH
  - ⑦ 6"x6" SQ. PILE, 2.5CCA ROUGH,  
6.0' BELOW GRADE
  - ⑧ 2"x6" STRINGER, 0.8 CCA, ROUGH
  - ⑨ 2"x6" FENCE SUPPORT 0.8 CCA S4S
  - ⑩ DOUBLE HOT DIP GALVANIZE  
H4 BRACKET, TYPICAL ALL STRINGERS
  - ⑪ 1/2" STEEL BOLTS, NUTS AND WASHERS,  
DOUBLE HOT DIP GALVANIZE
- ALL DECKING NAILS, STAINLESS STEEL, RING SHANKED, 30d, 2 NAILS MIN. PER CONNECTION (CONT.)

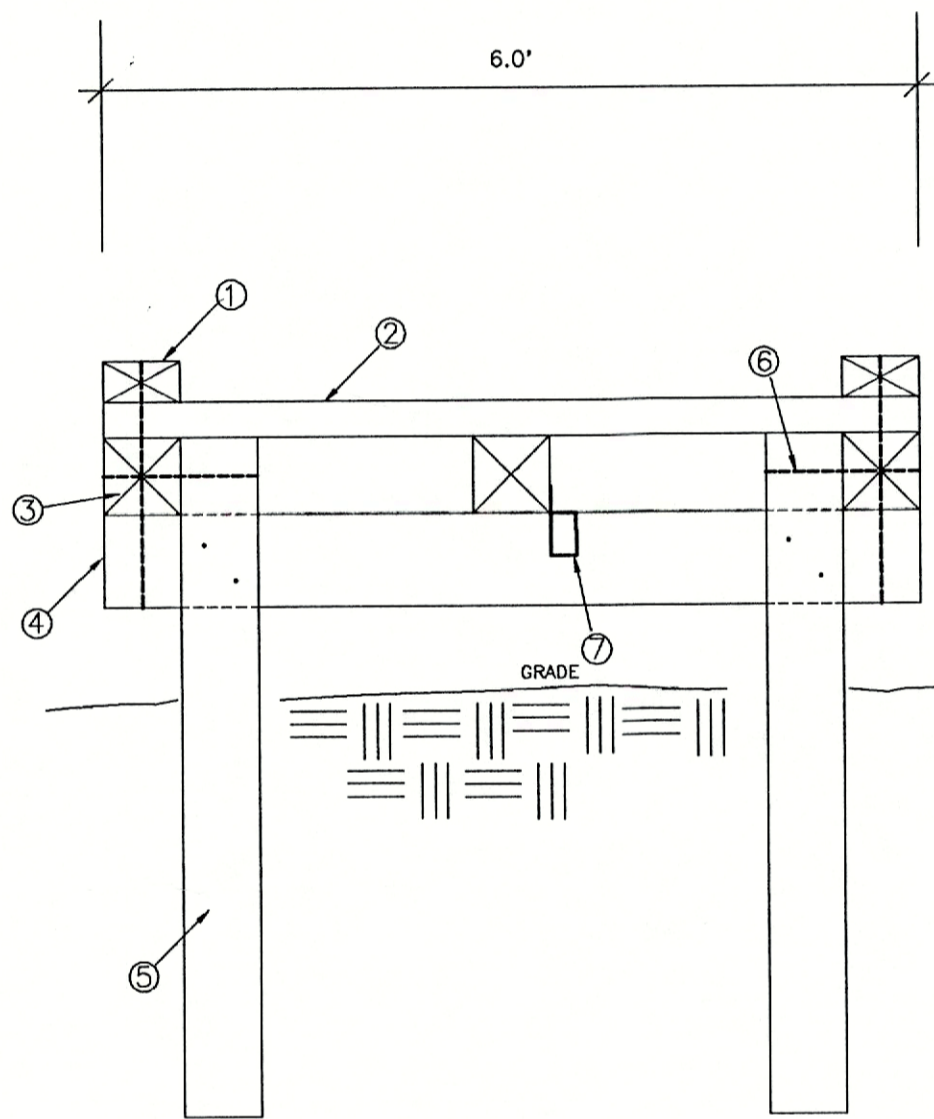
\* WOOD BRIDGE TO BE USED WHERE SHOWN ON THE PLANS FOR WALKWAY GREATER THAN 2.0' ABOVE GRADE.

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

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

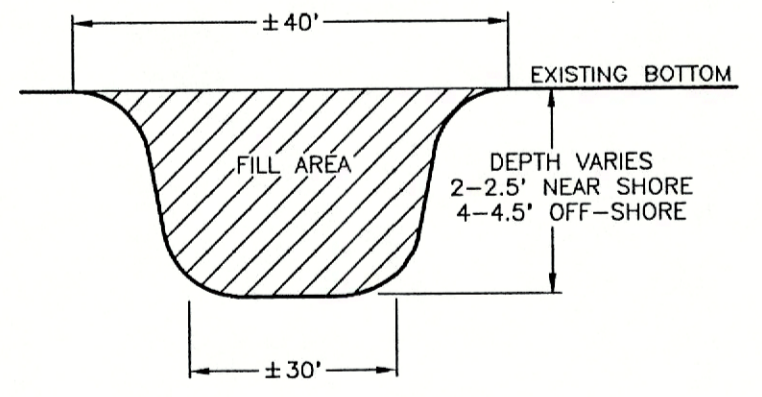


WOOD BRIDGE AND RAISED WALKWAY CONNECTOR AT SHELL PATH

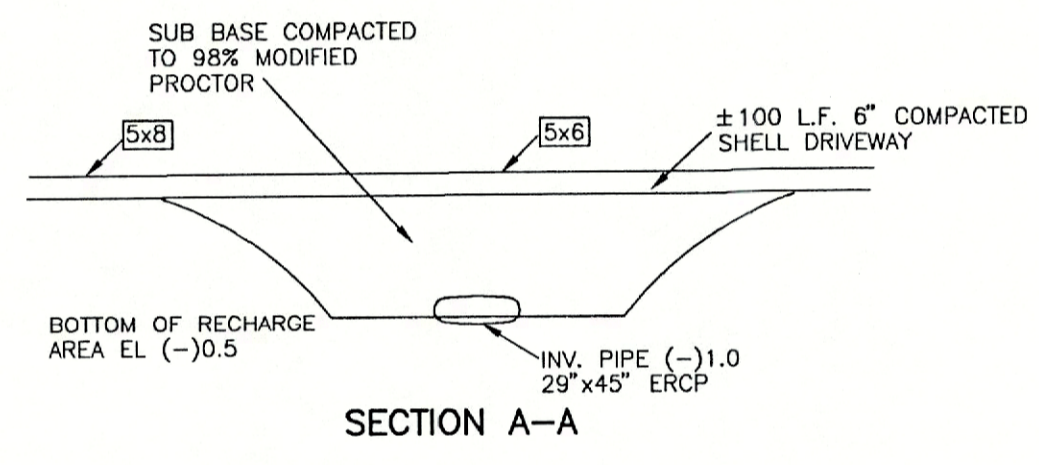


WOOD WALKWAY TO BE USED WHERE SHOWN ON THE PLANS FOR AREAS WHERE WALKWAY IS A MAX. 2.0' ABOVE EXISTING GRADE.

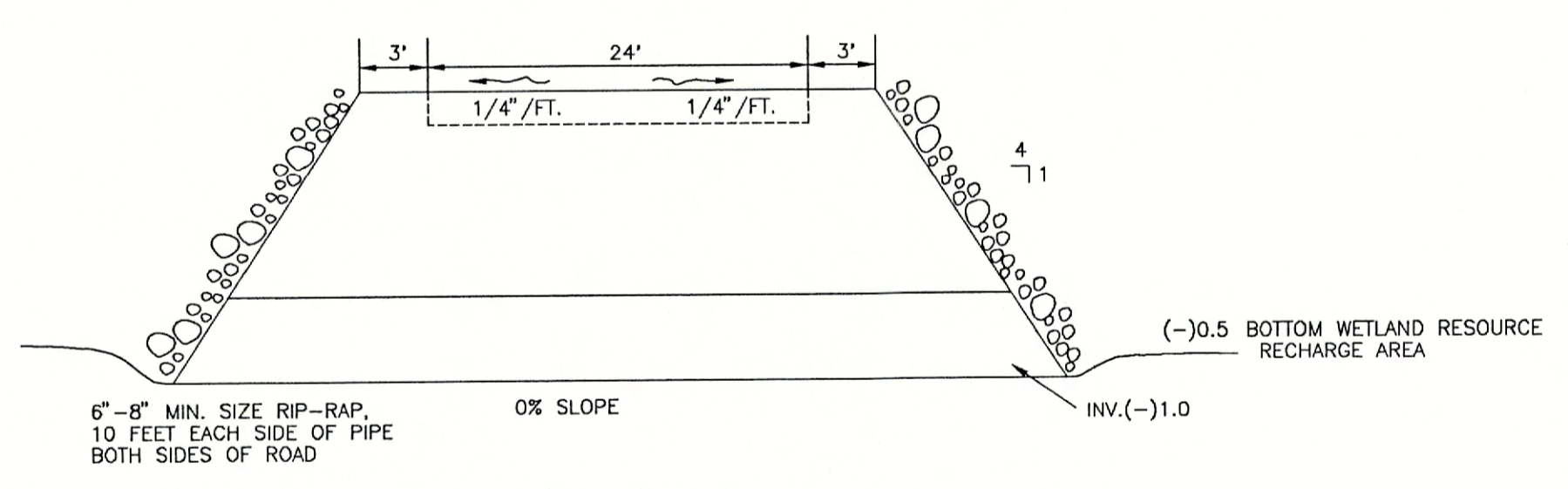
SECTION A-A  
RAISED WOOD WALKWAY



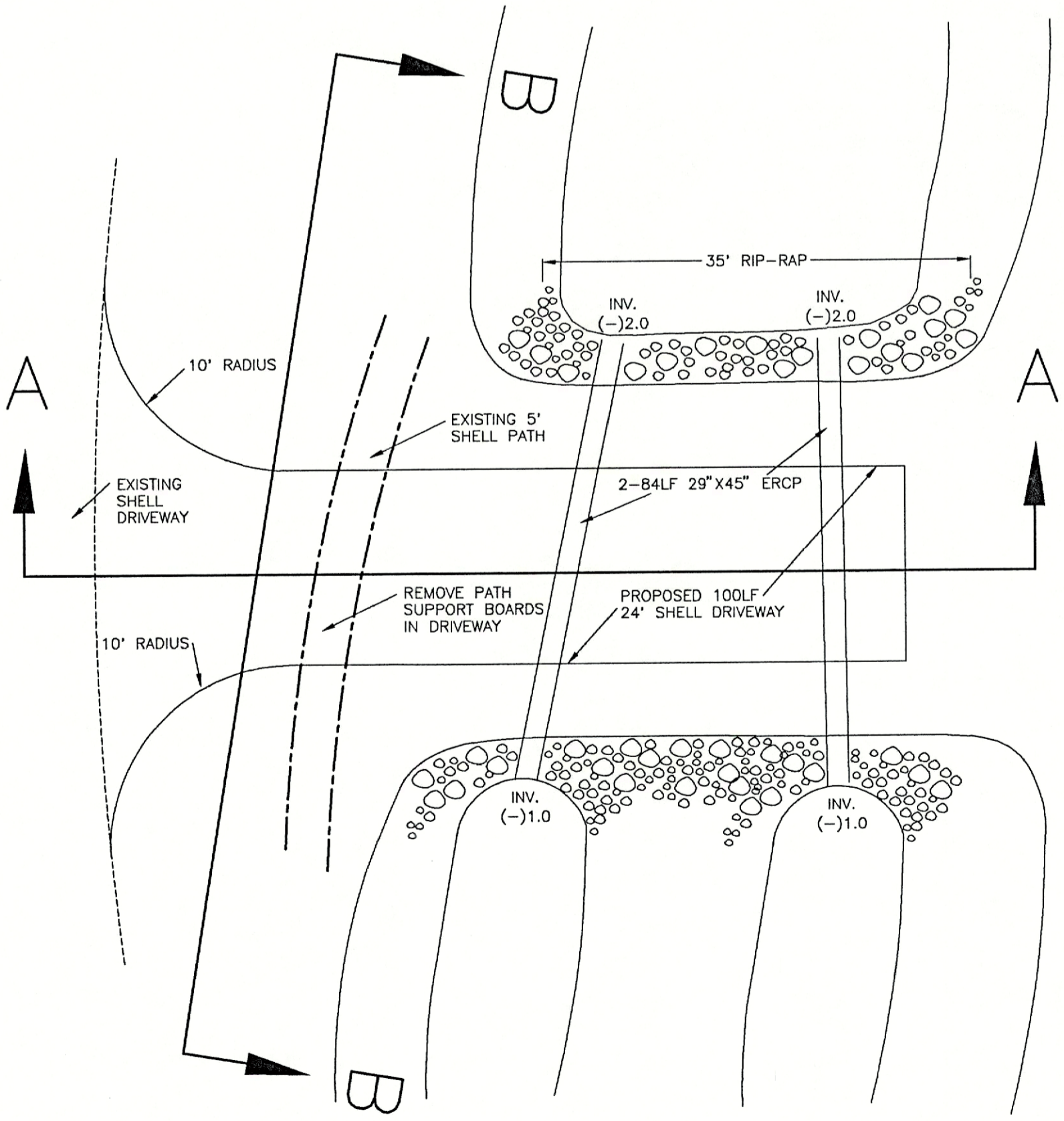
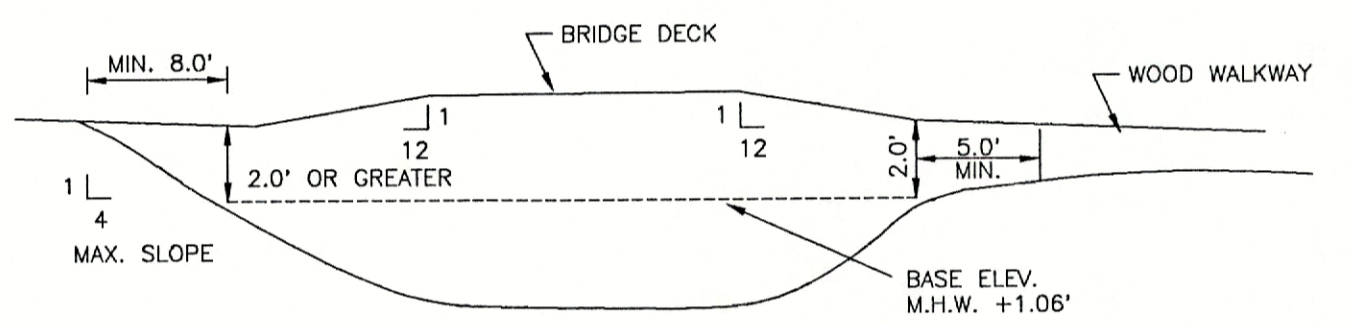
SECTION C-C



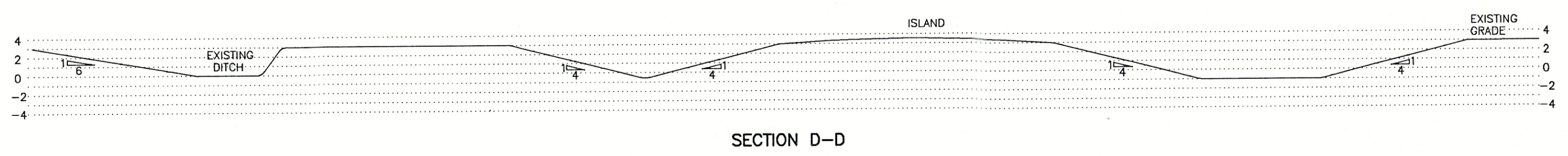
SECTION A-A



SECTION B-B  
ACCESS DRIVEWAY SECTIONS



ACCESS ROADWAY

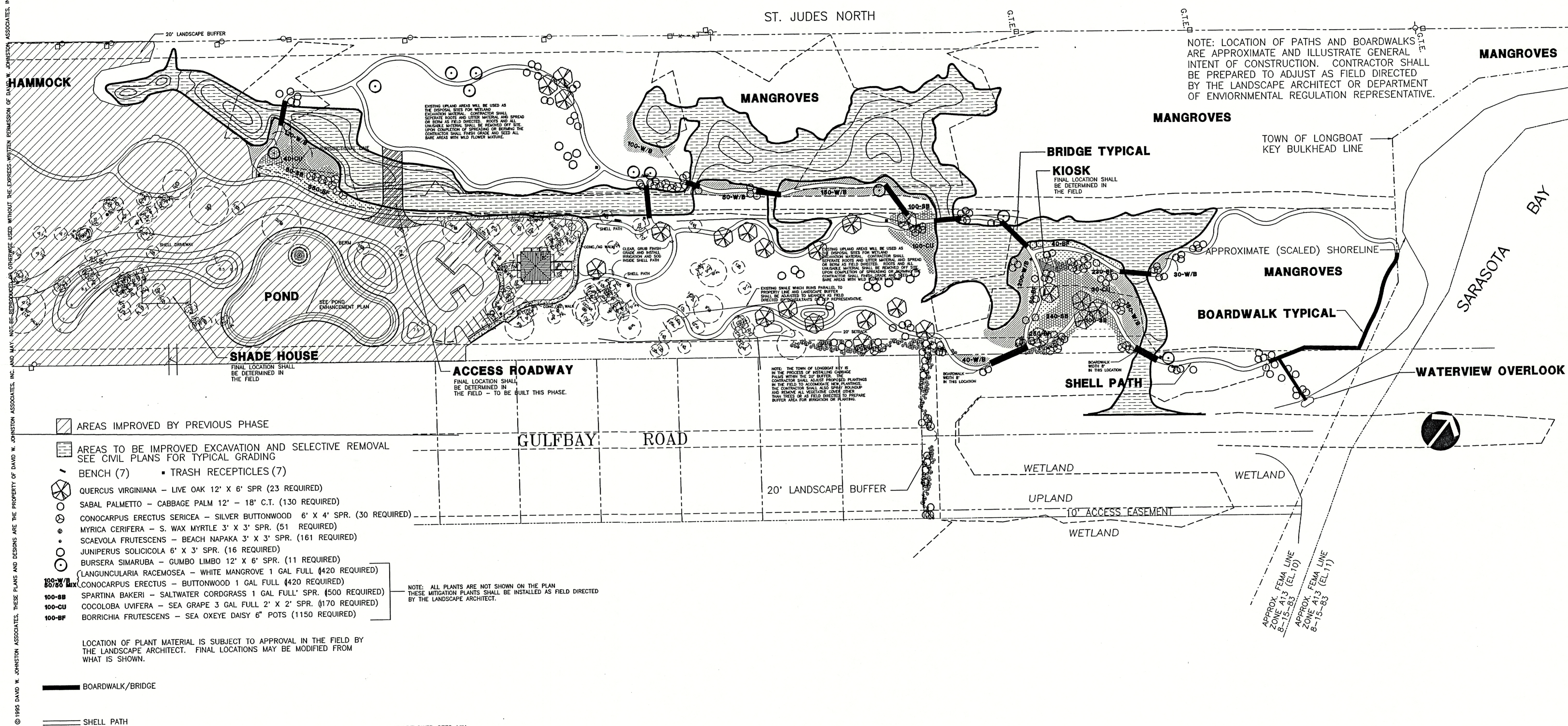


SECTION D-D

C:\STEVE\EG0504\EG0504C-7.DWG

JOAN M. DURANTE COMMUNITY PARK CONSTRUCTION PLANS - PHASE 3 DETAILS	
DATE: 7/15/06	BY: [Signature]
DRAWING NO: [Blank]	DATE: 10/3/06
SCALE: [Blank]	DR: [Blank]
DESIGNER: [Blank]	ADD: [Blank]
CHECKER: [Blank]	BRIDGE DETAIL
<b>LANDRY &amp; ESBER</b> Engineers • Surveyors 5940 Palmetto Blvd., Sarasota, FL 34235 (941)379-8631 • Fax (941)379-0556	
APPROVED: [Signature]	DATE: [Blank]
ENGINEER OF RECORD	NOT ISSUED FOR CONSTRUCTION
PROJECT NO: B00504	SHEET NO: C-7

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NOTE: 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 OR DEPARTMENT OF ENVIRONMENTAL REGULATION REPRESENTATIVE.

- ▨ AREAS IMPROVED BY PREVIOUS PHASE
- ▨ AREAS TO BE IMPROVED EXCAVATION AND SELECTIVE REMOVAL SEE CIVIL PLANS FOR TYPICAL GRADING
- BENCH (7)    ■ TRASH RECEPTILES (7)
- QUERCUS VIRGINIANA - LIVE OAK 12' X 6' SPR (23 REQUIRED)
- SABAL PALMETTO - CABBAGE PALM 12' - 18' C.T. (130 REQUIRED)
- CONOCARPUS ERECTUS SERICEA - SILVER BUTTWOOD 6' X 4' SPR. (30 REQUIRED)
- MYRICA CERIFERA - S. WAX MYRTLE 3' X 3' SPR. (51 REQUIRED)
- SCAEVOLA FRUTESCENS - BEACH NAPAKA 3' X 3' SPR. (161 REQUIRED)
- JUNIPERUS SOLICICOLA 6' X 3' SPR. (16 REQUIRED)
- BURSERIA SIMARUBA - GUMBO LIMBO 12' X 6' SPR. (11 REQUIRED)
- LANGUNCLARIA RACEMOSEA - WHITE MANGROVE 1 GAL FULL (420 REQUIRED)
- CONOCARPUS ERECTUS - BUTTWOOD 1 GAL FULL (420 REQUIRED)
- SPARTINA BAKERI - SALTWATER CORDGRASS 1 GAL FULL (500 REQUIRED)
- COCOLOBA UVIFERA - SEA GRAPE 3 GAL FULL 2' X 2' SPR. (1170 REQUIRED)
- BORRICHIA FRUTESCENS - SEA OXEYE DAISY 6" POTS (1150 REQUIRED)

LOCATION OF PLANT MATERIAL IS SUBJECT TO APPROVAL IN THE FIELD BY THE LANDSCAPE ARCHITECT. FINAL LOCATIONS MAY BE MODIFIED FROM WHAT IS SHOWN.

— BOARDWALK/BRIDGE  
 --- SHELL PATH

WILDFLOWER SEED MIX  
 FLORIDA TICKSEED - COREOPSIS FLORIDANA - 20%  
 BLANKET FLOWER - GALLARDIA PUCHELLA - 30%  
 BLACK-EYED SUSAN - RUDBECKIA HIRTA - 50%

SEED AREAS ARE TO BE SPRAYED WITH ROUNDUP TO KILL ALL VEGETATIVE COVER. A MINIMUM OF TWO APPLICATIONS OF ROUNDUP SHALL BE APPLIED TO SEED AREAS FOR PREPARATION OF PLANTING. SEED SHALL BE BROADCAST AND DRILLED USING A DRILL SEEDER AT THE RATE OF 1 LB./1000 SQ.FT. CONTRACTOR SHALL PROVIDE ALL NECESSARY MAINTENANCE TO ESTABLISH WILDFLOWER AREAS. THIS SHALL INCLUDE WATERING, CULTIVATING, FERTILIZING AND RESEEDING AS NECESSARY TO COMPLETELY ESTABLISH WILDFLOWER AREA.

NOTE: ALL PLANTS ARE NOT SHOWN ON THE PLAN THESE MITIGATION PLANTS SHALL BE INSTALLED AS FIELD DIRECTED BY THE LANDSCAPE ARCHITECT.

NOTE: THE TOWN OF LONGBOAT KEY IS IN THE PROCESS OF INSTALLING CANALS PALMS WITHIN THE 50' BUFFER. THE CONTRACTOR SHALL ADJUST PROPOSED PLANTINGS IN THE FIELD TO ACCOMMODATE THEM. THE CONTRACTOR SHALL ALSO SPRAY BOUNDARIES AND REMOVE ALL VEGETATIVE COVER GREATER THAN TREES OR AS FIELD DIRECTED TO PREPARE BUFFER AREA FOR BROADCAST PLANTING.

APPROX. FEMA LINE  
 ZONE 8-15-83 (EL.10)  
 APPROX. FEMA LINE  
 ZONE 8-15-83 (EL.11)

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
 1487 SECOND STREET SUITE E • SARASOTA, FL 34236 • (941) 366-3159

PROJECT NO.	9557
SCALE	1" = 60'
DATE	7/2/96
DRAWN BY	PJS
ISSUED	7/18/96

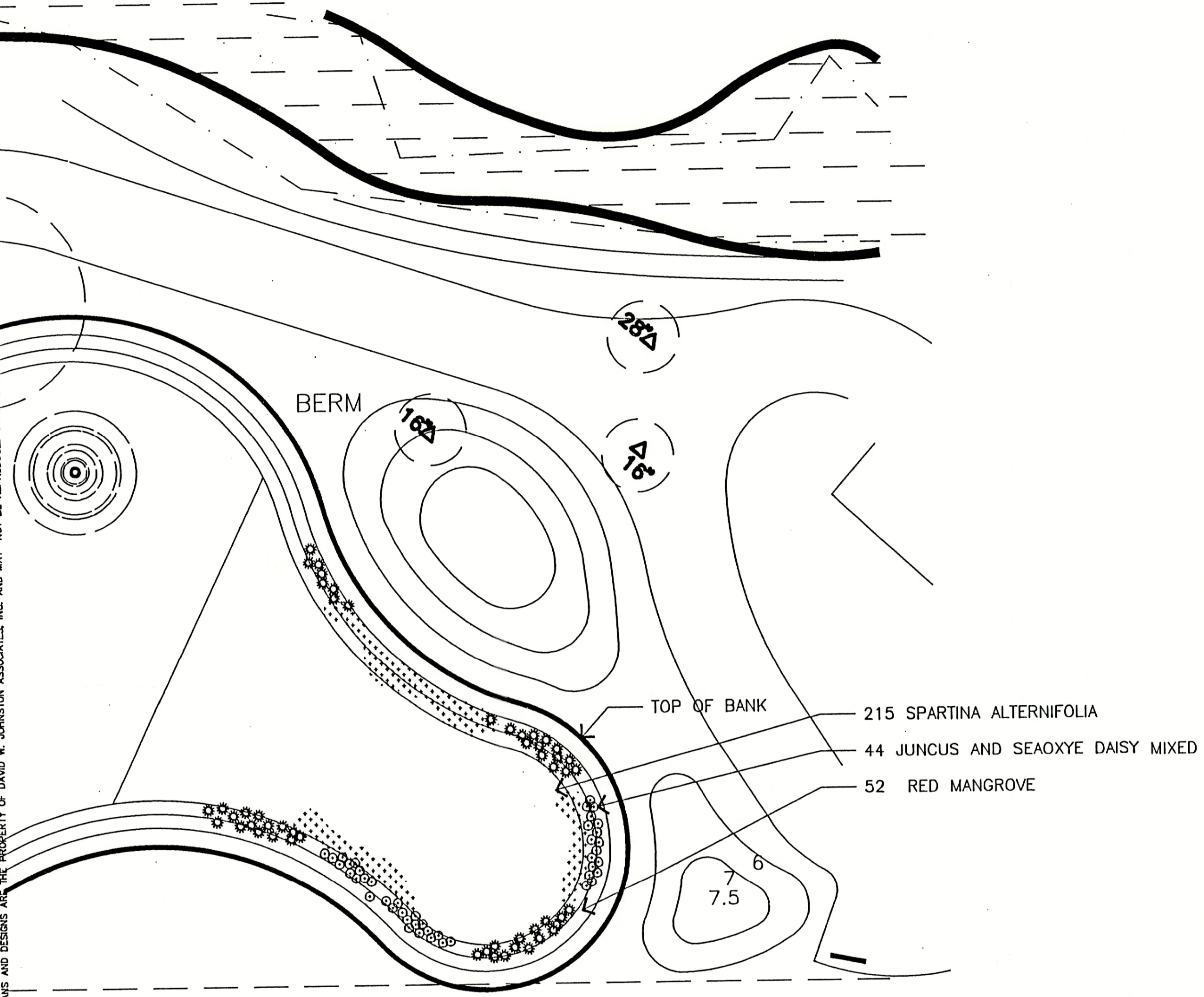
SITE DEVELOPMENT PLANS  
**DURANTE PARK PHASE III**  
 TOWN OF LONGBOAT KEY, FLORIDA

REV.	10/2/96
REV.	12/17/96
REV.	6/14/97

SHEET NO.  
L1



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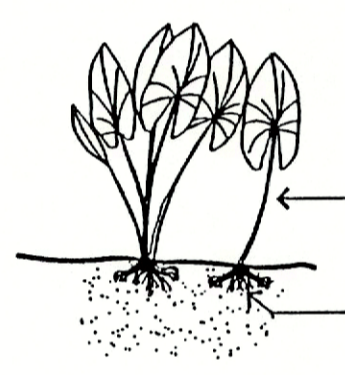
# EXISTING POND

## AQUATIC PLANTING

1. CONTRACTOR SHALL NOT COMMENCE PLANTINGS WITHOUT PRIOR AUTHORIZATION OF LANDSCAPE ARCHITECT. THE PROPOSED WATER ELEVATION MARKS SHALL BE CLEARLY EVIDENT AND UNDERSTOOD RELATIVE TO PROPOSED PLANTING ELEVATIONS BY WETLAND LANDSCAPE CONTRACTOR PRIOR TO INSTALLATION.
2. AQUATICS MAY BE CONTAINER GROWN OR BARE ROOT. IF THEY ARE BARE ROOT, THE PLANT MATERIAL (PARTICULARLY THE ROOT SYSTEM) SHALL BE KEPT SUFFICIENTLY MOIST AND THOROUGHLY WRAPPED IN CLOTH, BURLAP, OR NEWSPAPER FROM THE TIME IT IS DUG UP UNTIL PLANTING. BARE ROOT MATERIAL SHALL BE PLANTED WITHIN 48 HOURS AFTER BEING DUG UP (OR IT WILL BE REJECTED). CONTAINER MATERIAL (AQUATICS) SHALL BE PLANTED WITHIN 48 HOURS AFTER DELIVERED TO SITE.
3. ALL CONTAINER GROWN PLANT MATERIALS SHALL BE FLORIDA #1 OR BETTER. COLLECTED PLANT MATERIALS SHALL BE FLORIDA #2 OR BETTER. ALL PLANTS SHALL BE GROWN FROM SEED OR COLLECTED FROM WILD. ALL SUBSTITUTIONS SUBJECT TO WRITTEN APPROVAL BY LANDSCAPE ARCHITECT. IF PLANTS ARE TO BE OBTAINED FROM THE WILD, CONTRACTOR TO NOTIFY FLORIDA DEPARTMENT OF NATURAL RESOURCES WITH PROOF OF PERMIT.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY EXCESS MATERIALS, RUBBISH, ETC. NECESSARY FOR PROPER PLANTING.
5. CONTRACTOR SHALL SCALE LOCATIONS OF PLANT MATERIALS FROM PLAN AND WILL BE RESPONSIBLE FOR MATERIALS TO BE INSTALLED AT PROPER ELEVATIONS IN ACCORDANCE WITH DESIGN SPECIFICATIONS. SPACINGS FOR PLANT MATERIALS ARE AVERAGE SPACINGS FOR AREAS. PLANTS SHALL BE PLANTED IN CLUMPS, CLUSTERS AND IRREGULAR ARRANGEMENTS.

## PLANT LIST

BOTANICAL NAME	COMMON NAME	SIZE	
JUNCUS ROEMERIANUS	BLACK RUSH	4" POTS	} 50/50 MIX
BORCHIA FRUTECENS	SEA OXEYE DAISY	1 GAL	
RHIZOPHORA MANGLE	RED MANGROVE	1 GAL	
SPARTINA PATENS	SPARTINA	4" POTS	

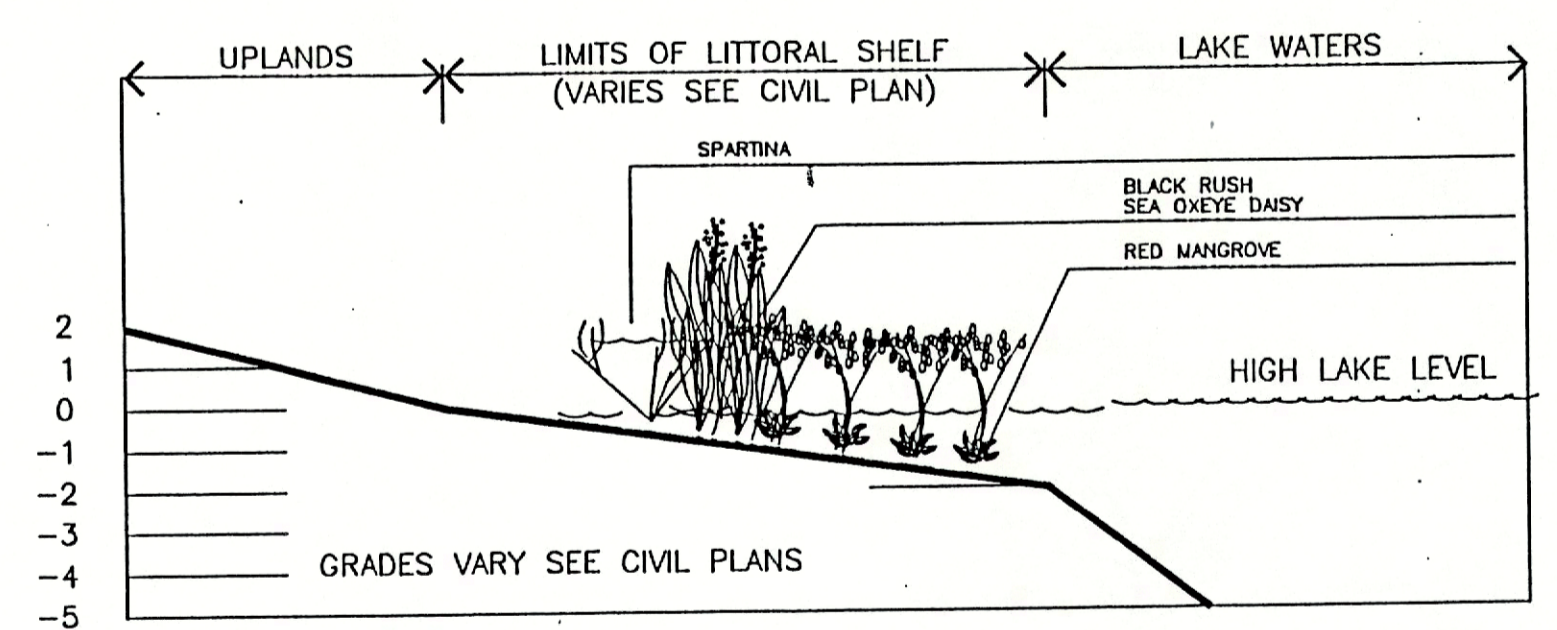


SEE AQUATIC PLANT LIST FOR SPECIFICATIONS ON EACH AQUATIC PLANT.

SET PLANT PLUMB WITH ROOTS SPREAD OUT IN A NATURAL POSITION. PLANTING DEPTH FOR EACH AQUATIC PLANT SHALL BE THE SAME AS NORMALLY FOUND IN THE FIELD.

## AQUATIC PLANTING DETAIL

NO SCALE



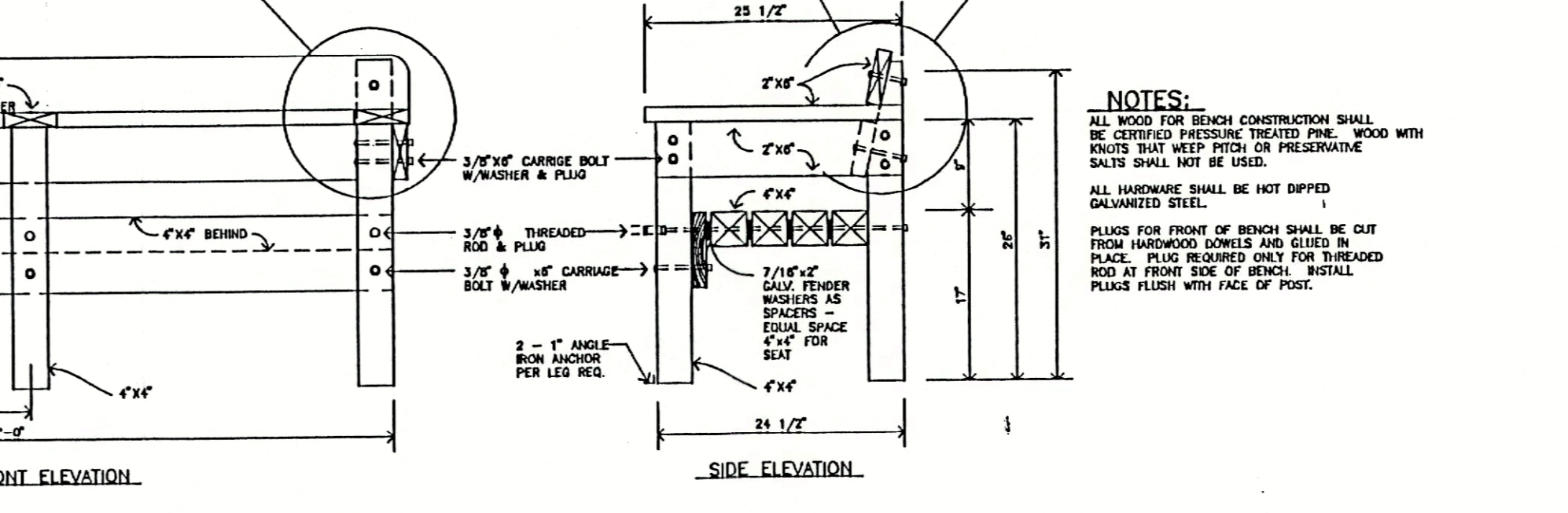
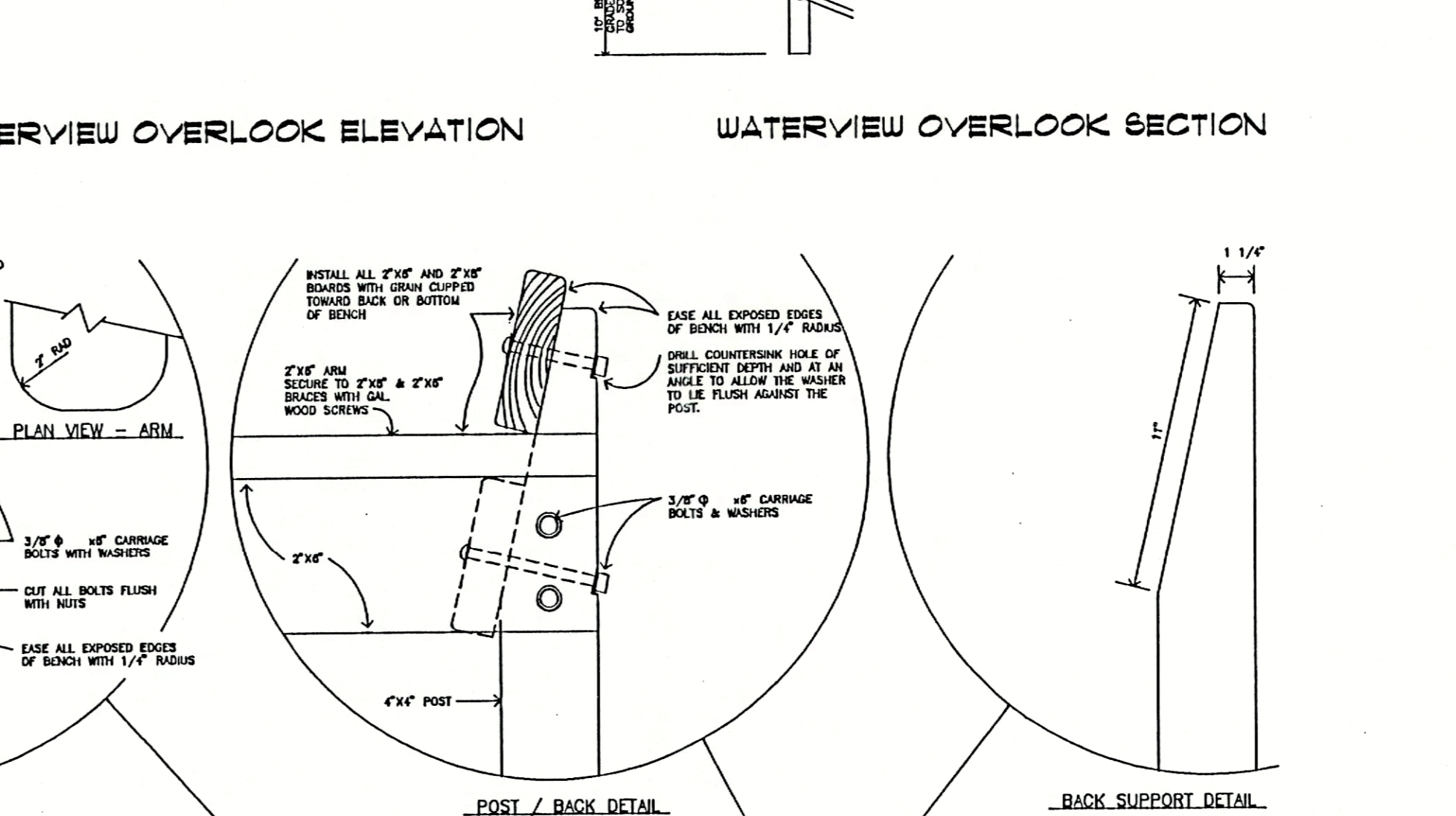
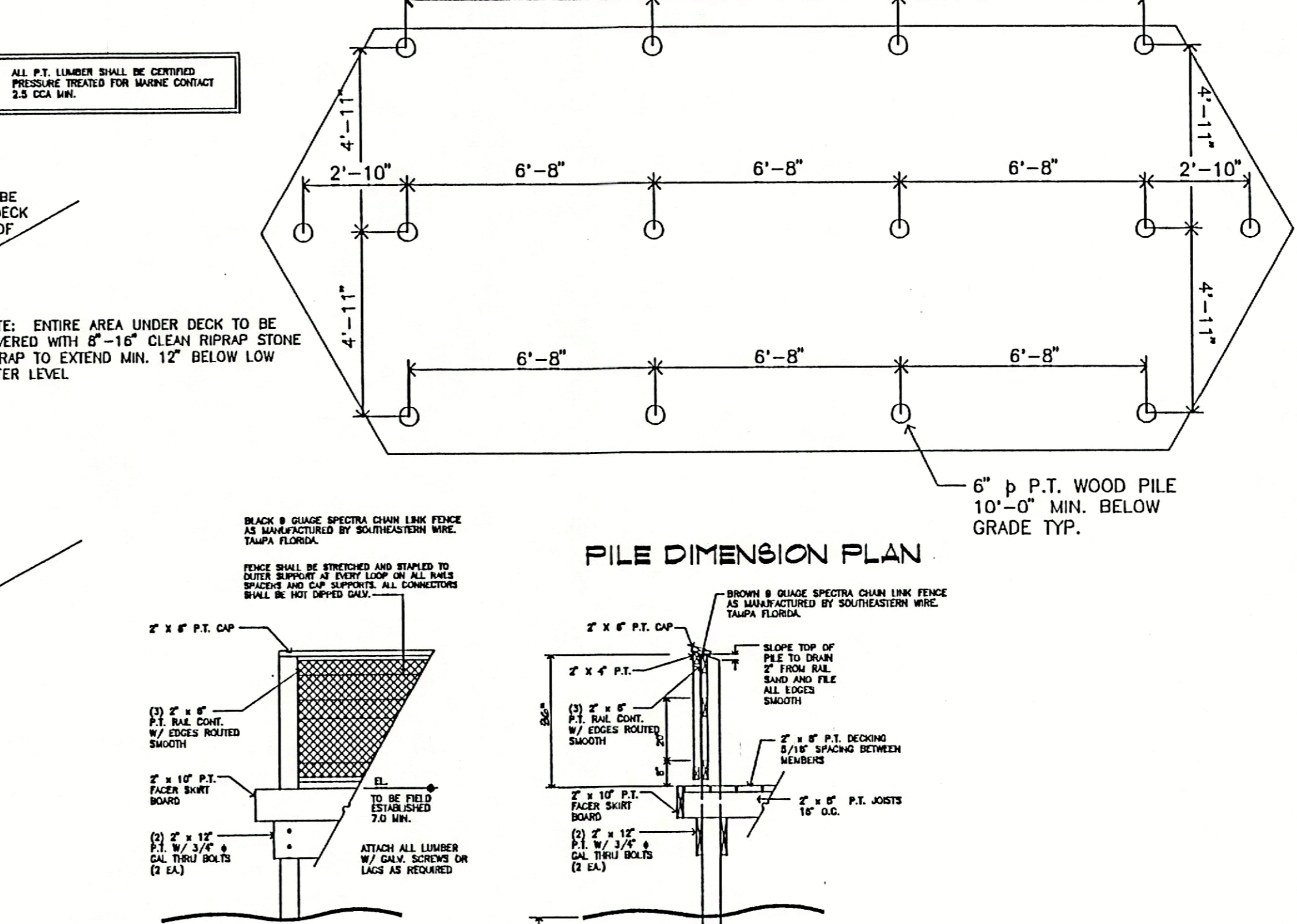
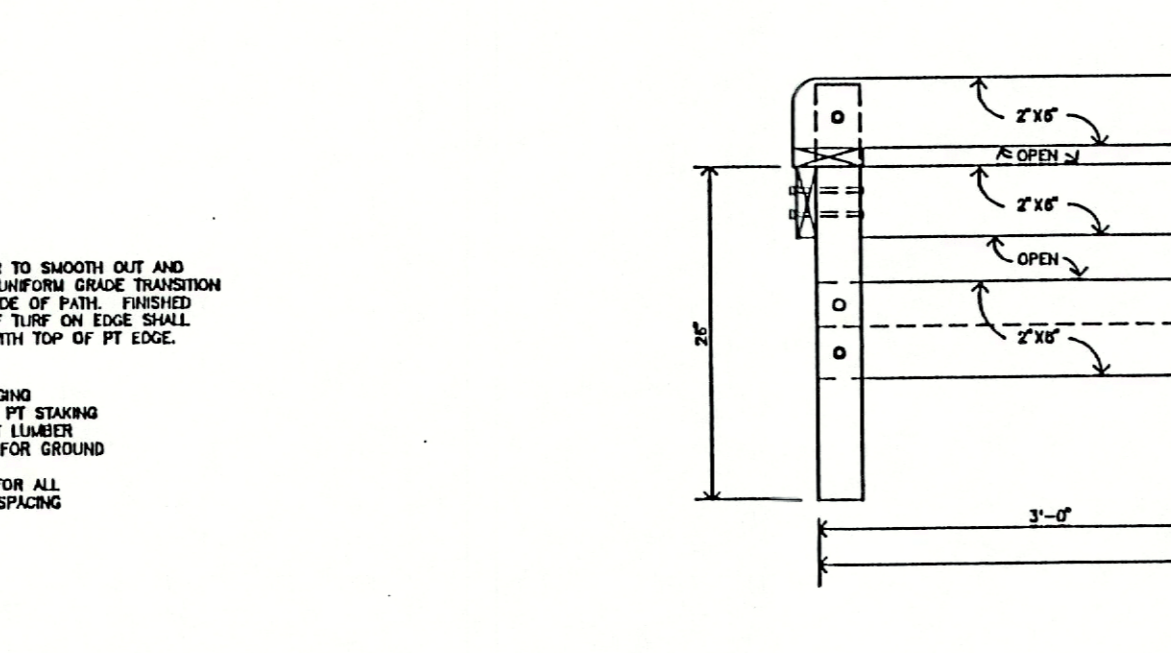
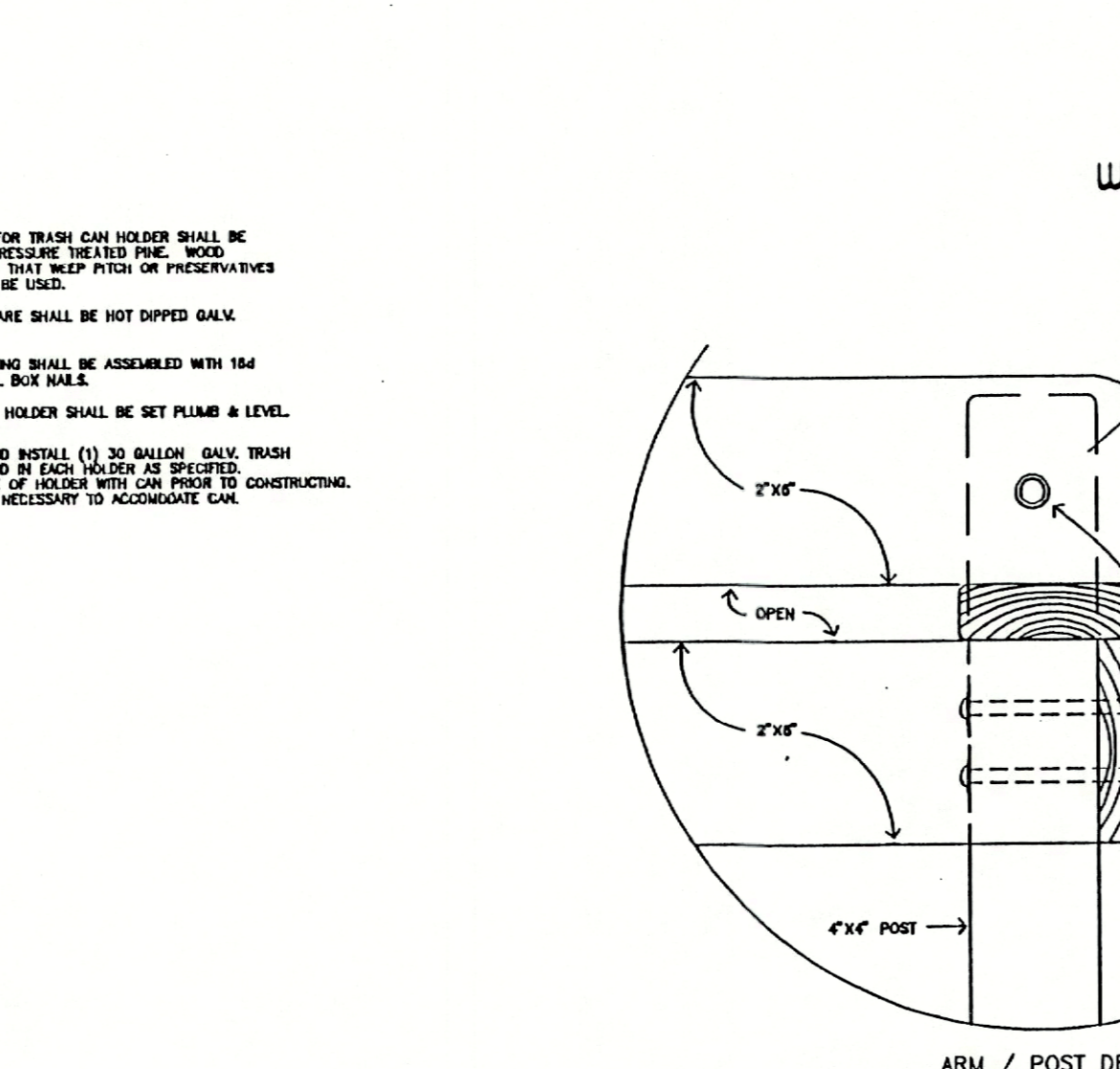
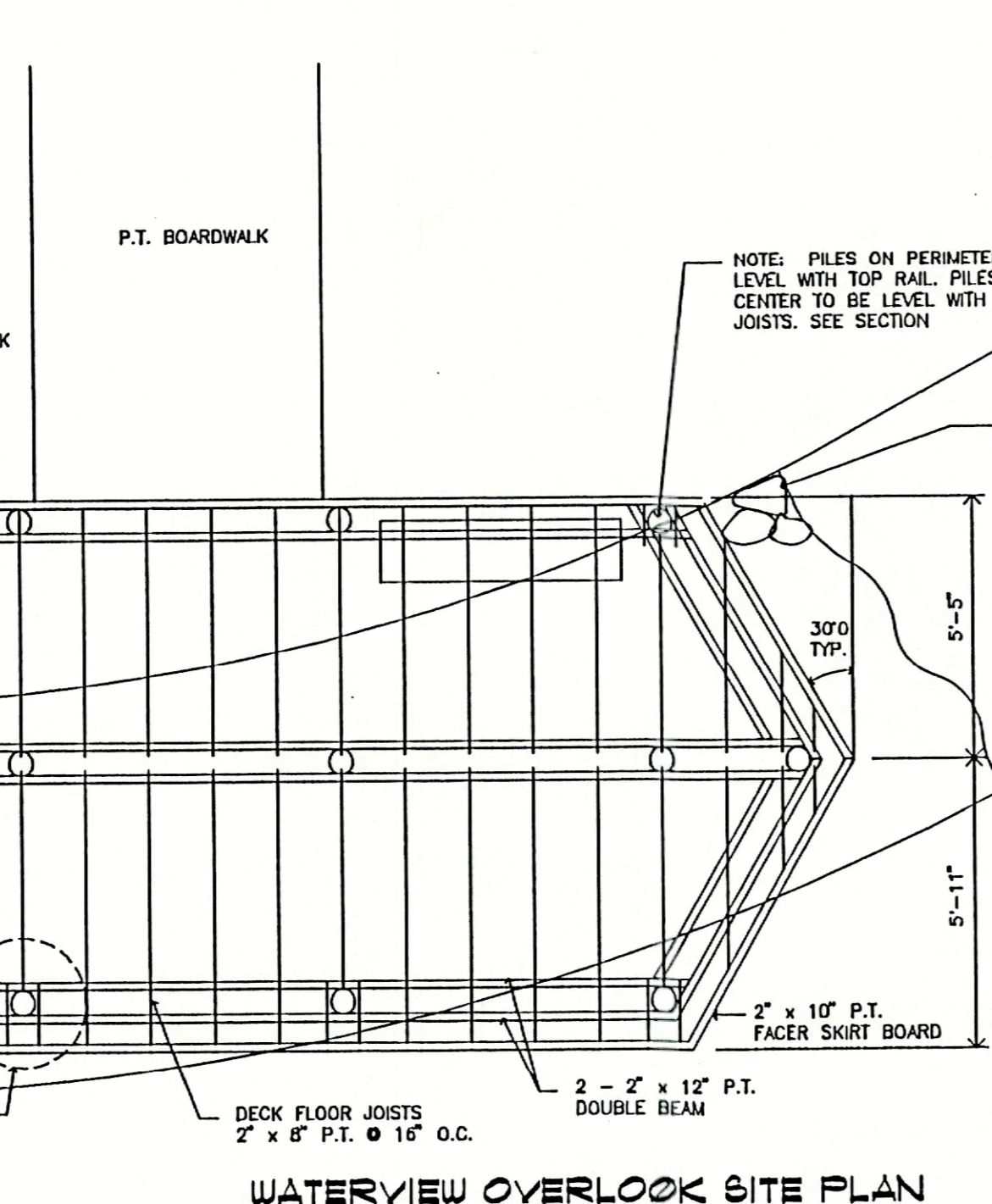
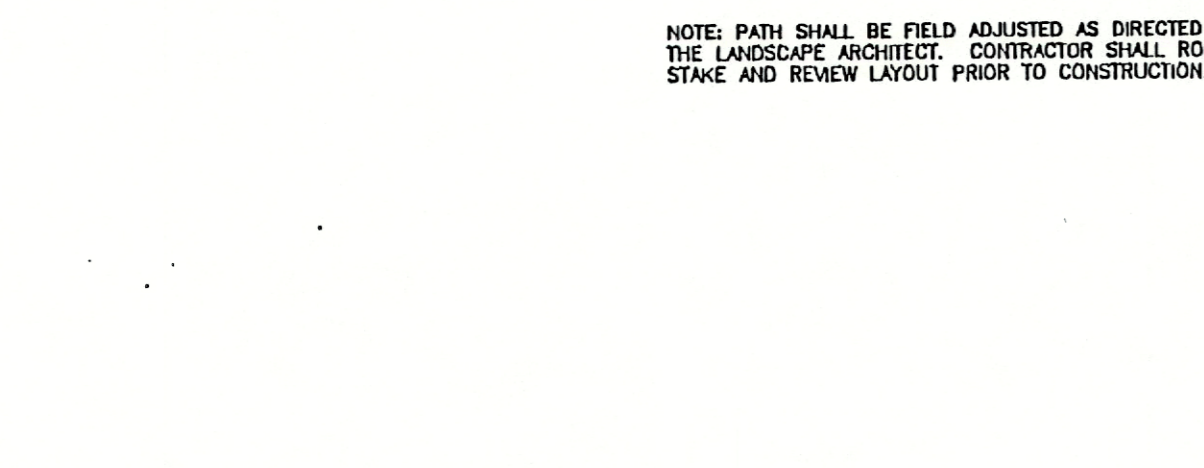
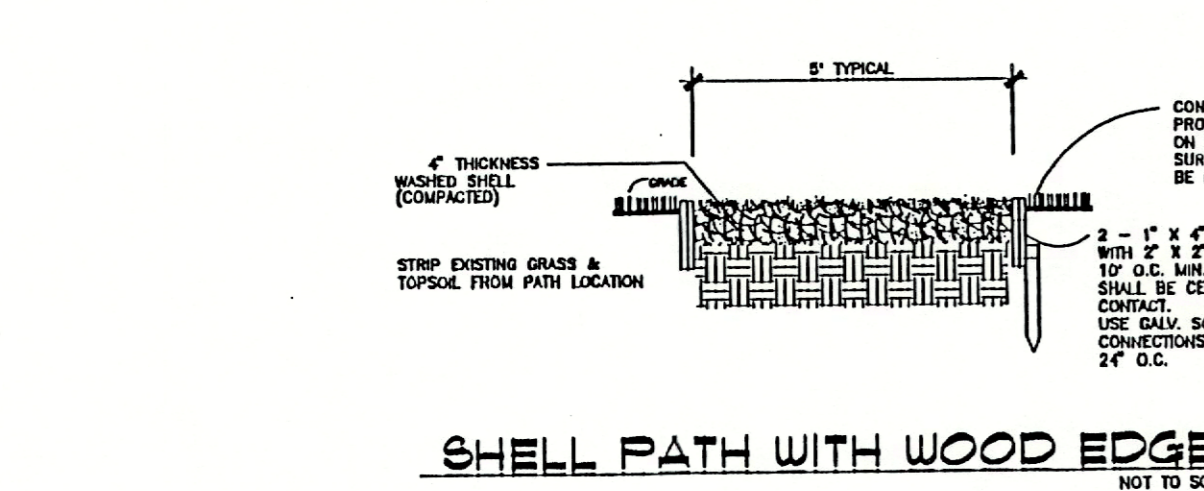
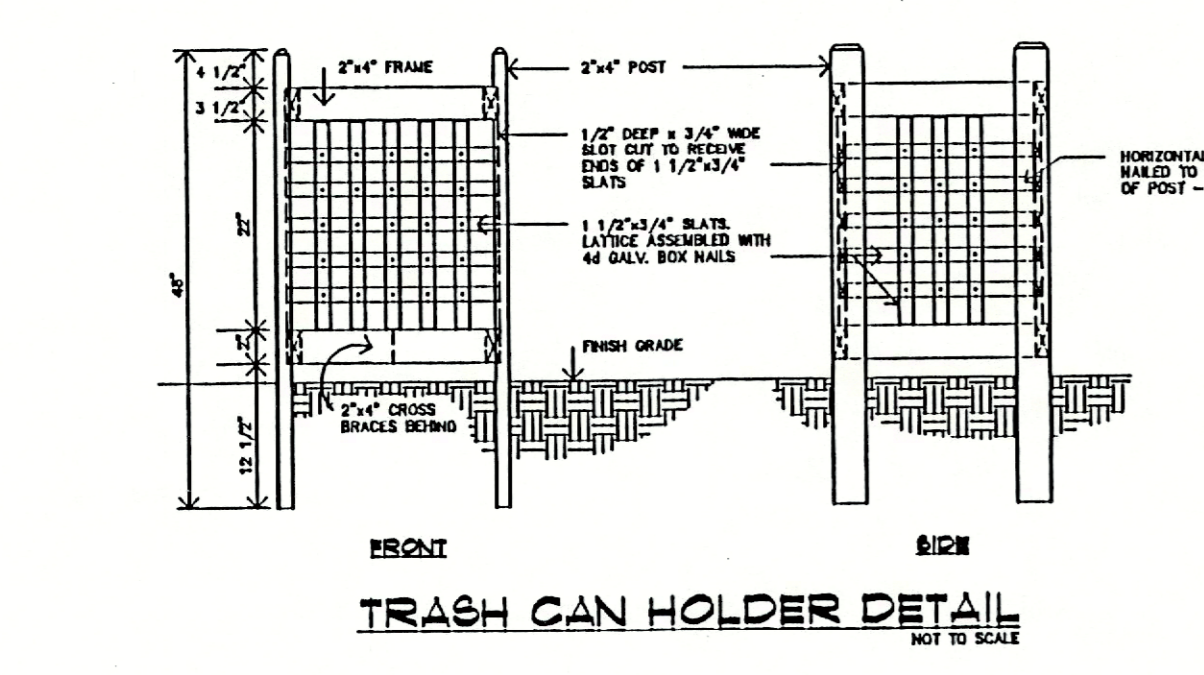
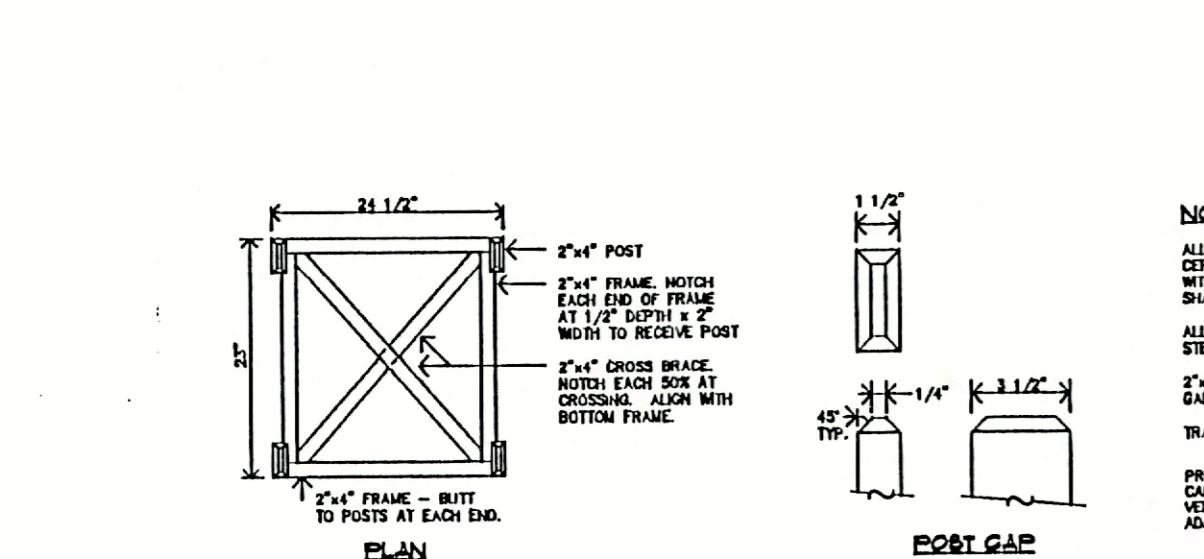
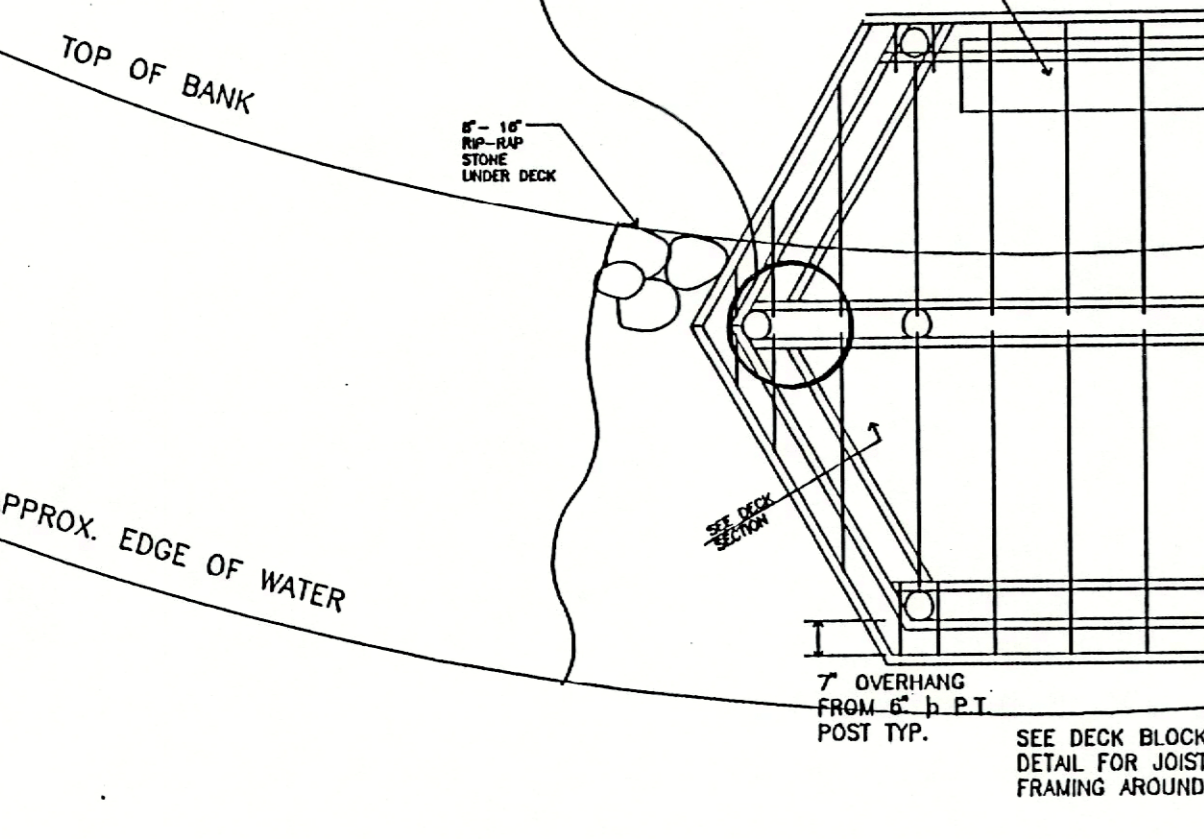
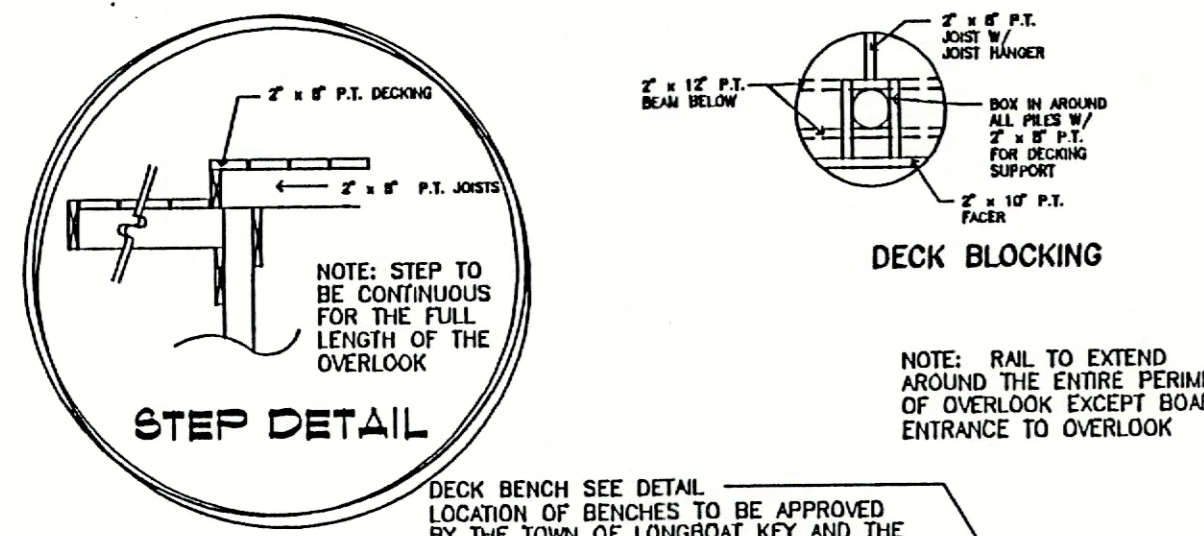
## TYPICAL LITTORAL ZONE CROSS SECTION

NO SCALE

PROJECT NO.	957
SCALE	1" = 20'
DATE	7/2/96
DRAWN BY	PJS
ISSUED	7/2/96

REV. 11/4/96
REV. 12/17/96

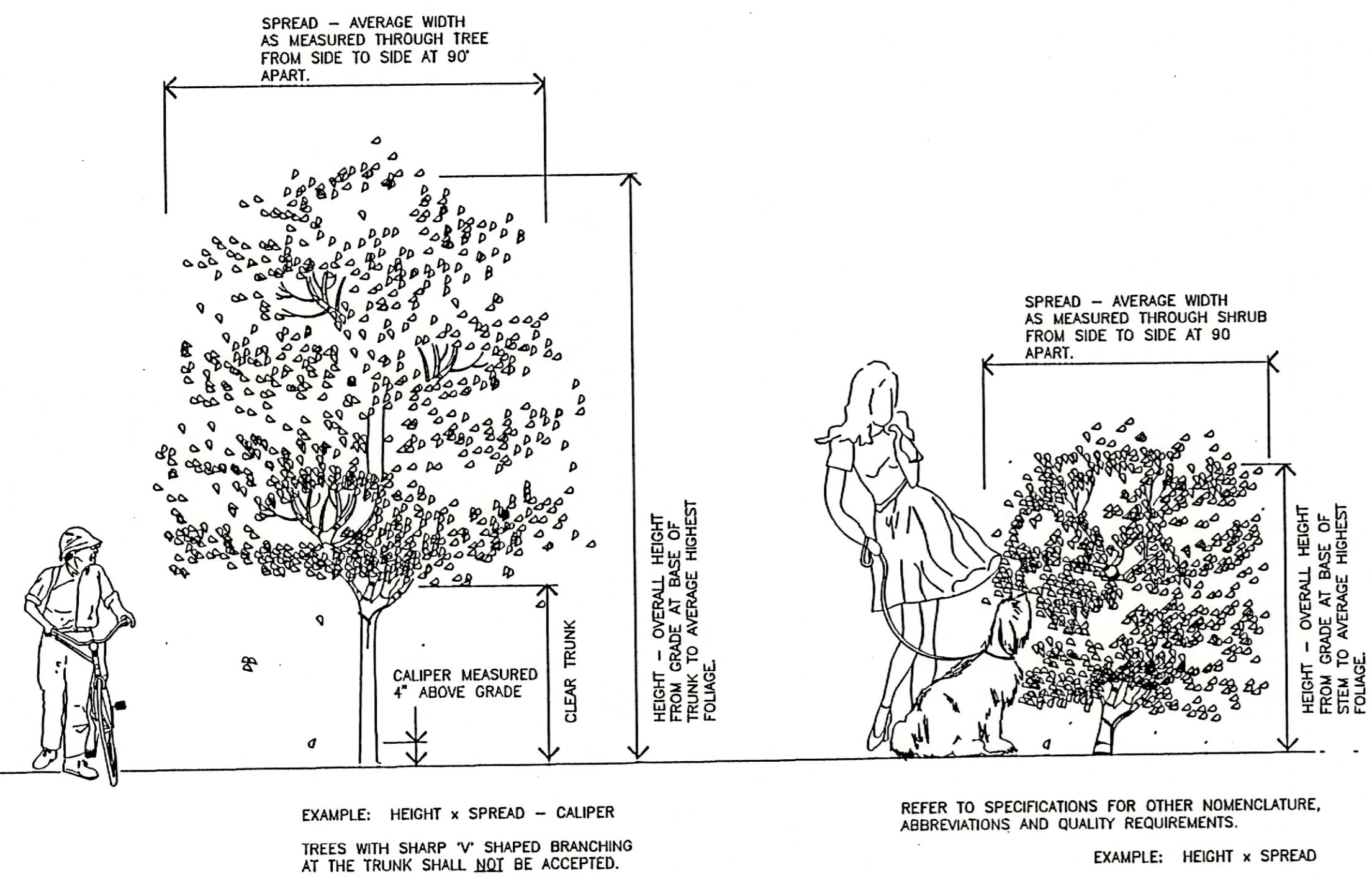
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PROJECT NO.	9557
SCALE	AS NOTED
DATE	7/12/96
DRAWN BY	PLS
ISSUED	7/12/96

REV.	10/2/96
REV.	12/17/96

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**TREE AND SHRUB SIZING SPECIFICATION**  
NOT TO SCALE

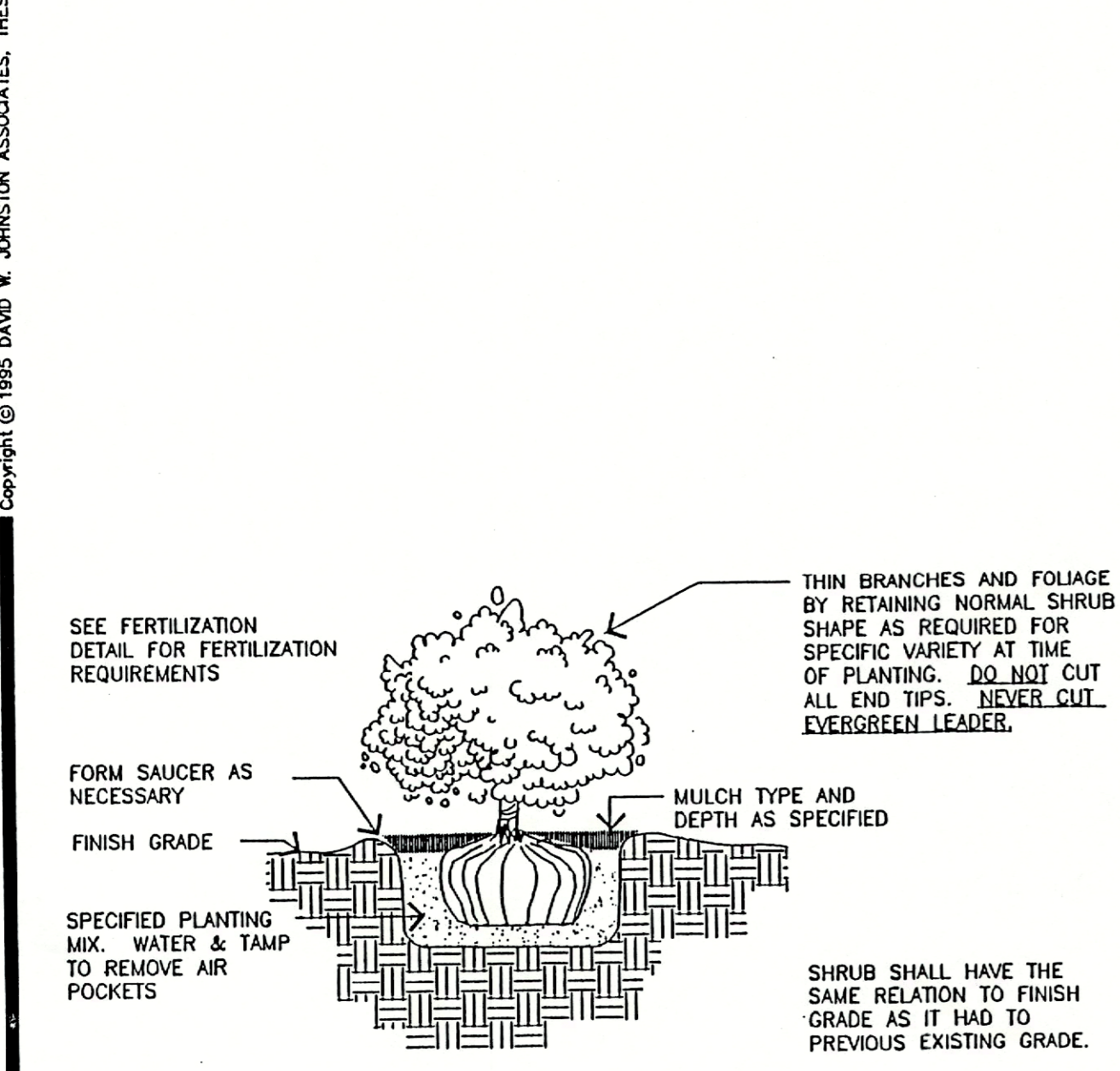
ALL PLANTINGS SHALL BE FERTILIZED WITH AGRIFORM 20-10-15 PLANTING TABLETS AT THE TIME OF INSTALLATION AND PRIOR TO COMPLETION OF BACKFILLING. AGRIFORM PLANTING TABLETS SHALL BE PLACED UNIFORMLY AROUND THE ROOT MASS AT THE DEPTH THAT IS BETWEEN THE MIDDLE AND THE BOTTOM OF THE ROOT MASS.

21 GRAM TABLET		10 GRAM TABLET		5 GRAM TABLET	
1 GALLON CAN PLANTS	3 GALLON CAN PLANTS	5 GALLON CAN PLANTS	7 GALLON CAN PLANTS	LARGE TREES OR B & B TREES	MATURE PALMS
1 TABLET	2 TABLETS	3 TABLETS	4 TABLETS	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

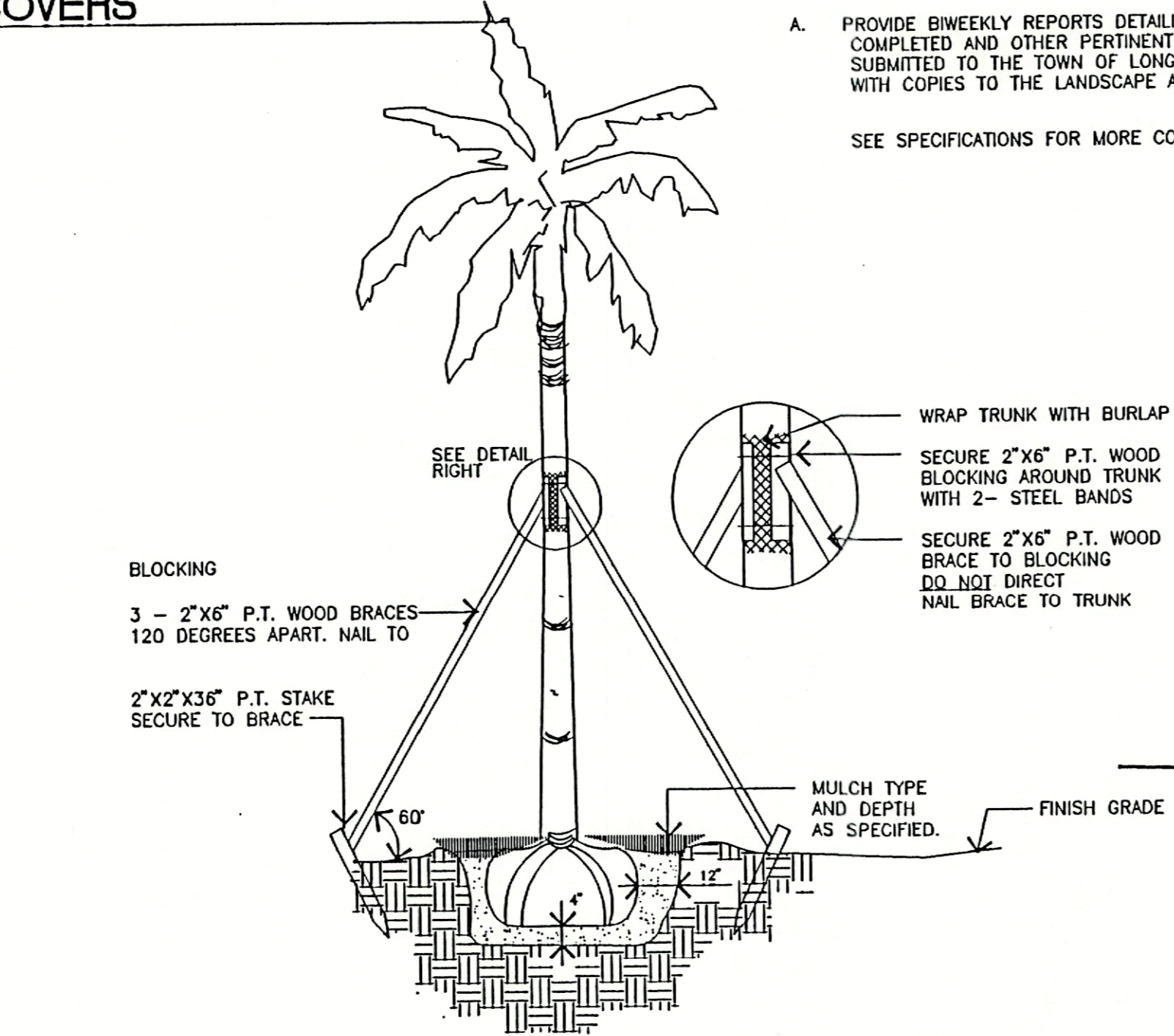
AGRIFORM 20-10-15 PLANTING TABLETS AS MANUFACTURED BY: SIERRA CHEMICAL COMPANY, 1001 YOSEMITE DRIVE, MILPITAS, CA 95035

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

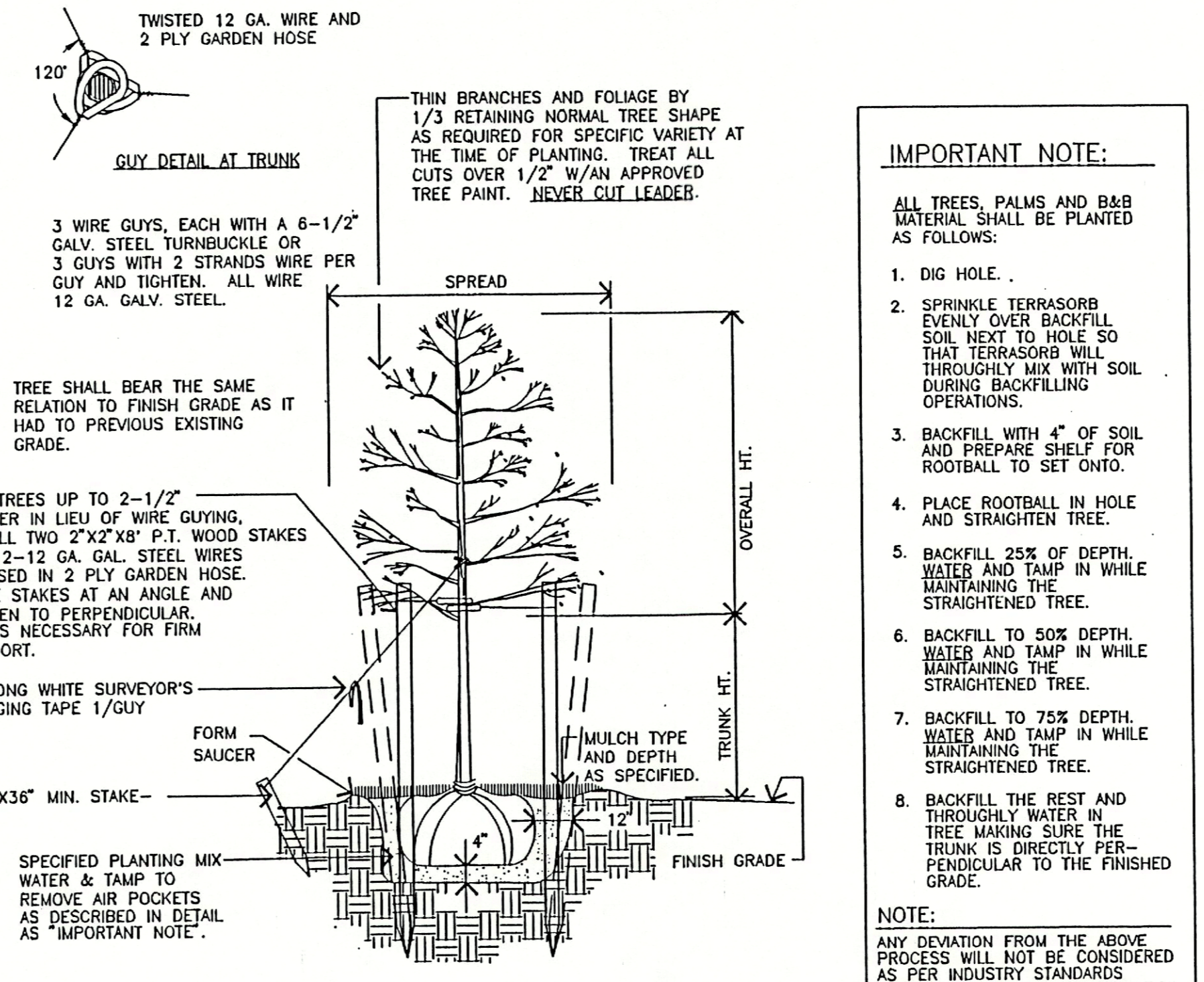
**FERTILIZATION - TREES, SHRUBS AND GROUNDCOVERS**  
NOT TO SCALE



**SHRUB PLANTING**  
NOT TO SCALE



**PALM STAKING DETAIL**  
NOT TO SCALE



**TREE PLANTING, STAKING AND PRUNING**  
NOT TO SCALE

**IMPORTANT NOTE:**

- DIG HOLE.
  - SPRINKLE TERRASORB EVENLY OVER BACKFILL SOIL NEXT TO HOLE SO THAT TERRASORB WILL THOROUGHLY MIX WITH SOIL DURING BACKFILLING OPERATIONS.
  - BACKFILL WITH 4" OF SOIL AND PREPARE SHELF FOR ROOTBALL TO SET ONTO.
  - PLACE ROOTBALL IN HOLE AND STRAIGHTEN TREE.
  - BACKFILL 25% OF DEPTH. WATER AND TAMP IN WHILE MAINTAINING THE STRAIGHTENED TREE.
  - BACKFILL TO 50% DEPTH. WATER AND TAMP IN WHILE MAINTAINING THE STRAIGHTENED TREE.
  - BACKFILL TO 75% DEPTH. WATER AND TAMP IN WHILE MAINTAINING THE STRAIGHTENED TREE.
  - BACKFILL THE REST AND THOROUGHLY WATER IN TREE MAKING SURE THE TRUNK IS DIRECTLY PERPENDICULAR TO THE FINISHED GRADE.
- NOTE: ANY DEVIATION FROM THE ABOVE PROCESS WILL NOT BE CONSIDERED AS PER INDUSTRY STANDARDS AND WILL BE CAUSE FOR REJECTION OF THE WORK.

**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:**
- THE CONTRACTOR SHALL MAINTAIN ALL NEWLY PLANTED MATERIALS BY WATERING, PRUNING, CULTIVATING, FERTILIZING, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH AND WEED FREE PLANTING BEDS OR SAUCERS.
  - RESTORE PLANTING SAUCERS, TIGHTEN AND REPAIR STAKES, RESET TREES OR PALMS TO PROPER GRADE OR VERTICAL POSITION AS REQUIRED.
  - SPRAY MATERIAL AS REQUIRED TO KEEP FREE FROM INSECTS AND DISEASE.
- IRRIGATION:**
- MAINTAIN THE INSTALLED IRRIGATION SYSTEM IN AN OPERABLE CONDITION AT ALL TIMES.
  - CHECK FOR LINE BREAKS AND CLEAN BUBBLERS OF DEBRIS SO THAT THEY PROVIDE UNIFORM WATER DISTRIBUTION AT ALL TIMES.

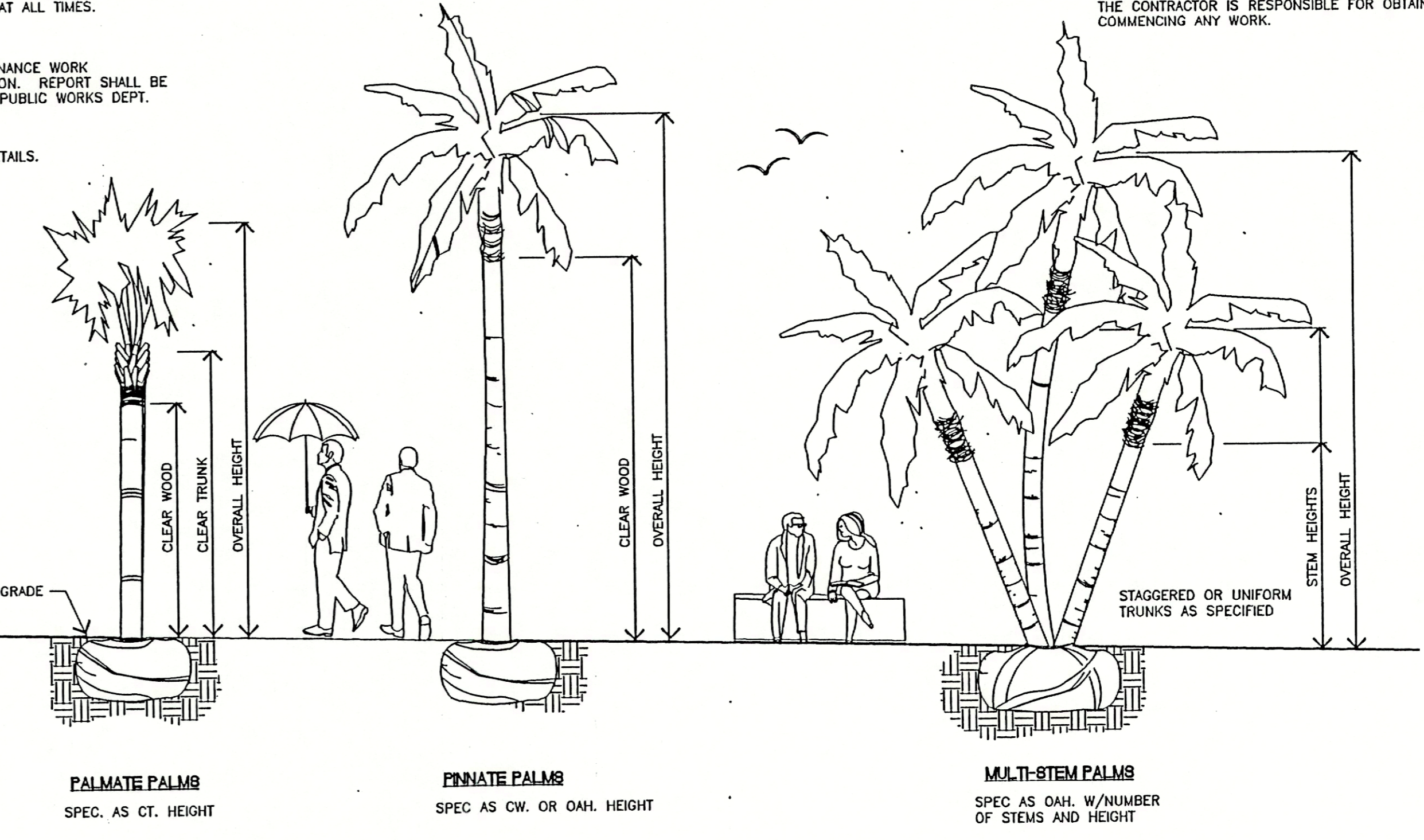
- REPORTS:**
- PROVIDE BIWEEKLY REPORTS DETAILING MAINTENANCE WORK COMPLETED AND OTHER PERTINENT INFORMATION. REPORT SHALL BE SUBMITTED TO THE TOWN OF LONGBOAT KEY PUBLIC WORKS DEPT. WITH COPIES TO THE LANDSCAPE ARCHITECT.
- SEE SPECIFICATIONS FOR MORE COMPLETE DETAILS.

**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 SPORT.

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 LAW, SHOULD THIS BECOME NECESSARY.



**PALM SIZING SPECIFICATIONS**  
NOT TO SCALE

PALMS SHALL HAVE FRONDS TIED AROUND BUDS. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL RES 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:	36"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.

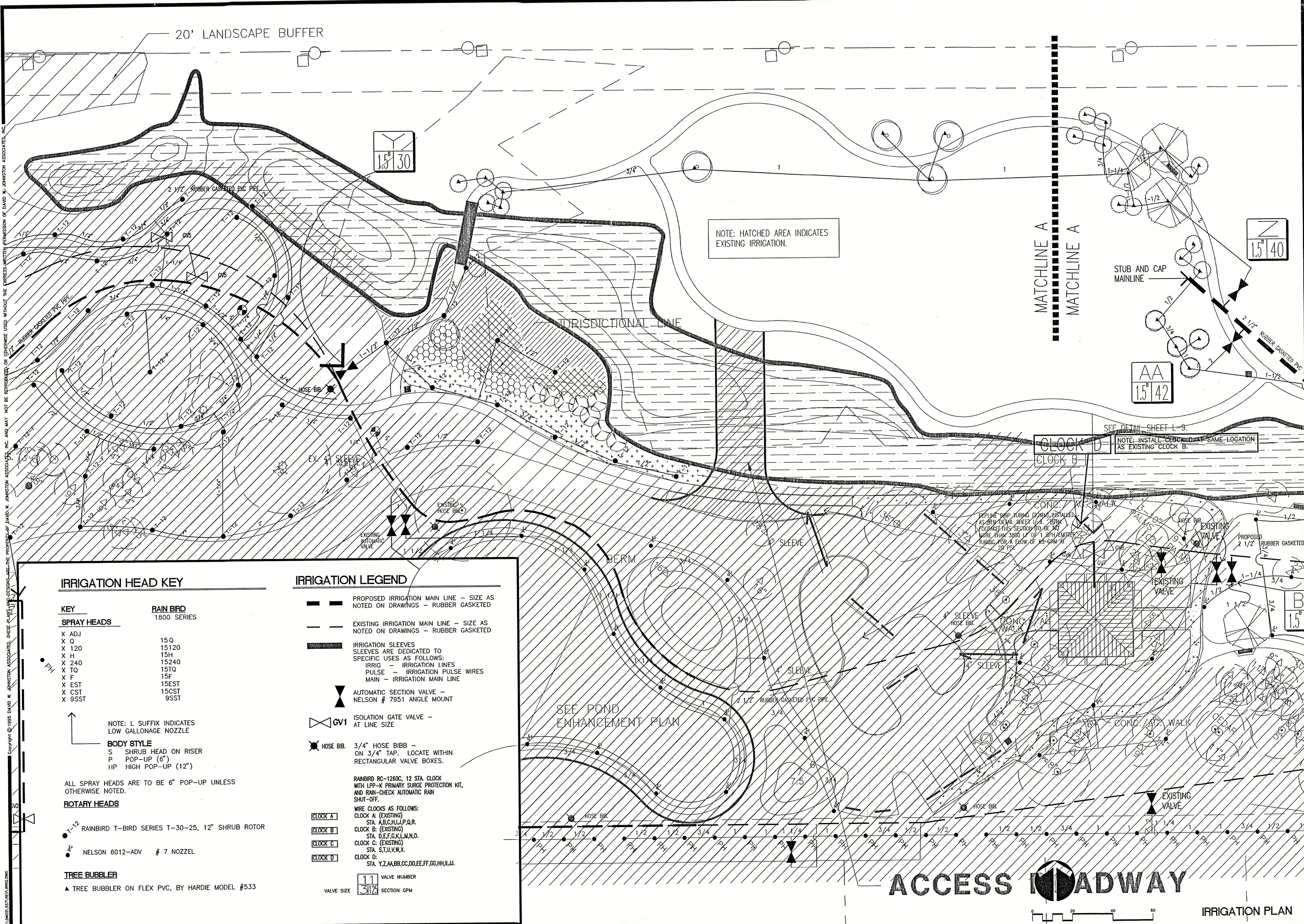
**PLANTING DETAILS**

**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, CADDY, AND LONGBOAT KEY UTILITIES FOR LOCATION OF ALL UTILITIES A MINIMUM OF 48 HOURS BEFORE BEGINNING WORK.
- ALL SOD SHALL BE STENOTAPHRUM SECUNDATUM "FLORATAM" - SAND GROWN CERTIFIED ST. AUGUSTINE 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 PLANTING WITH 2" (OR AS NOTED OTHERWISE ON PLAN) OF SHREDDED, GRADE "B" CYPRESS 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 WATERAL 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) 227-6727
- 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 SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO PURCHASE BY CONTRACTOR.
- 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.

PROJECT NO.	95-57
SCALE	AS NOTED
DATE	7/17/96
DRAWN BY	PLS
ISSUED	3/29/96



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**IRRIGATION HEAD KEY**

KEY	RAIN BIRD
<b>SPRAY HEADS</b>	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
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**

- 1-1/2 RAINBIRD T-BIRD SERIES T-30-25, 12" SHRUB ROTOR
- 7c 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
  - ◇ GVI ISOLATION GATE VALVE — AT LINE SIZE
  - HOSE BIBB 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,BB,CC,DD,EE,FF,GG,HH,I,J
- VALVE NUMBER  
 SECTION GPM

NOTE: HATCHED AREA INDICATES EXISTING IRRIGATION.

NOTE: INSTALL CHECK VALVE AT SAME LOCATION AS EXISTING CLOCK B.

SEE DETAIL SHEET L-9.

SEE POND ENHANCEMENT PLAN

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

PROJECT NO.	9557
SCALE	1"=20'-0"
DATE	7/19/96
DRAWN BY	MEB
ISSUED	7/19/96

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

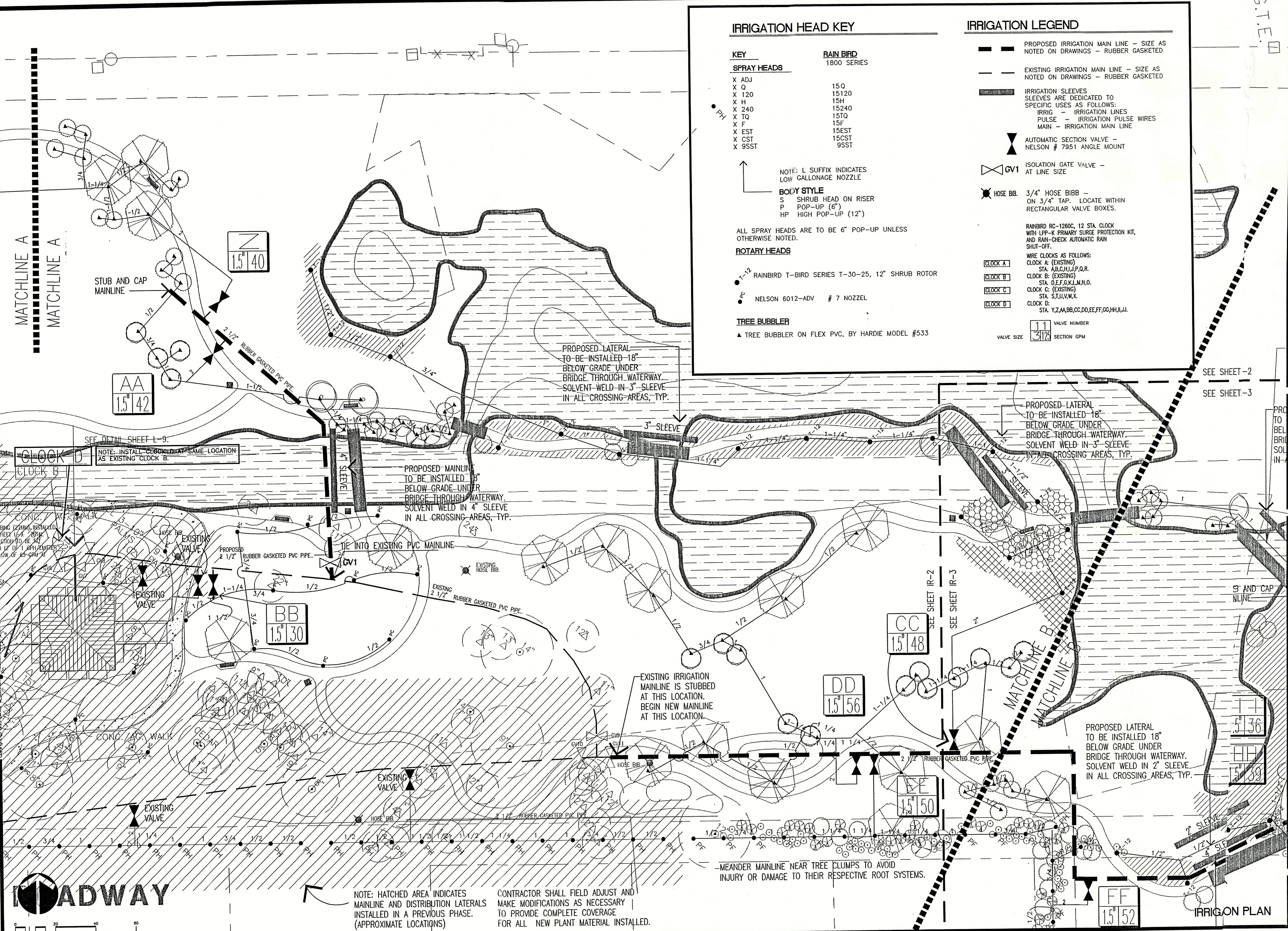
REV.	11/7/96
REV.	6/14/97

SHEET NO.	IR-1
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**ACCESS ROADWAY**

IRRIGATION PLAN

G.T.E.D.  
 LANDSCAPE ARCHITECTS  
 DAVID W. JOHNSTON ASSOCIATES  
 1487 SECOND STREET SUITE E • SARASOTA, FL 34236 • (813) 366-3159  
 PROJECT NO. 9557  
 SCALE 1"=20'-0"  
 DATE 7/2/96  
 DRAWN BY MES  
 ISSUED 7/19/96  
 SITE DEVELOPMENT PLANS  
**DURANTE PARK PHASE III**  
 TOWN OF LONGBOAT KEY, FLORIDA  
 REV. 11/4/95  
 REV. 6/14/97  
 SHEET NO. IR-2



**IRRIGATION HEAD KEY**

KEY	RAIN BIRD
<b>SPRAY HEADS</b>	
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**

- 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**

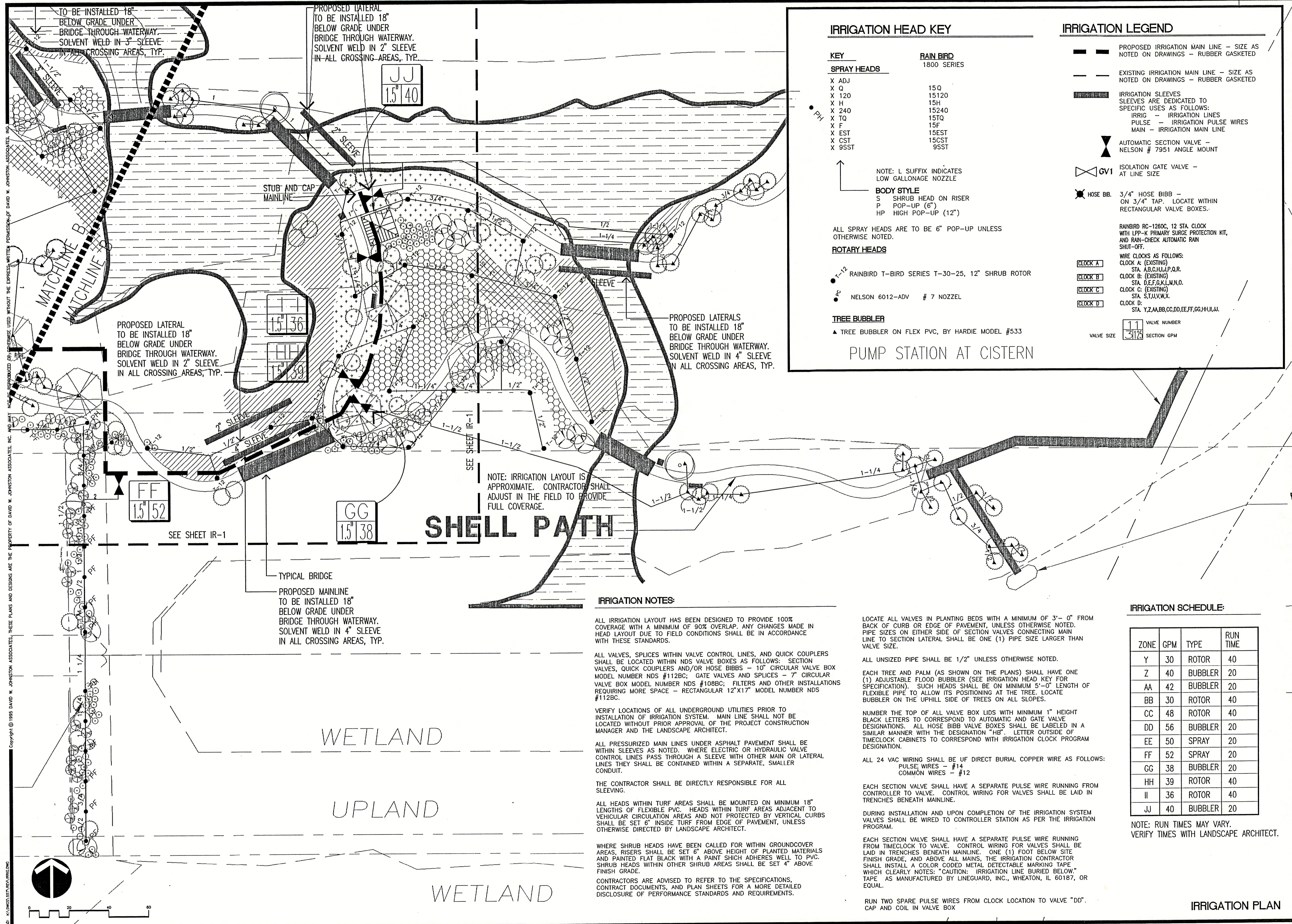
- PROPOSED IRRIGATION MAIN LINE - SIZE AS NOTED ON DRAWINGS - RUBBER GASKETED
- - - EXISTING IRRIGATION MAIN LINE - SIZE AS NOTED ON DRAWINGS - RUBBER GASKETED
- ▨ IRRIGATION SLEEVES  
 SLEEVES ARE DEDICATED TO SPECIFIC USES AS FOLLOWS:  
 IRRIG - IRRIGATION LINES  
 PULSE - IRRIGATION PULSE WIRES  
 MAIN - IRRIGATION MAIN LINE
- ▲ AUTOMATIC SECTION VALVE - NELSON # 7951 ANGLE MOUNT
- ◇ CV1 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,A,AB,CC,DD,EE,FF,GG,H,I,J,K,L
- 11 VALVE NUMBER  
 3/2 SECTION GPM



NOTE: HATCHED AREA INDICATES MAINLINE AND DISTRIBUTION LATERALS INSTALLED IN A PREVIOUS PHASE. (APPROXIMATE LOCATIONS)

CONTRACTOR SHALL FIELD ADJUST AND MAKE MODIFICATIONS AS NECESSARY TO PROVIDE COMPLETE COVERAGE FOR ALL NEW PLANT MATERIAL INSTALLED.

IRRIGON PLAN



**IRRIGATION HEAD KEY**

KEY	RAIN BIRD 1800 SERIES
<b>SPRAY HEADS</b>	
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**  
 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

PUMP STATION AT CISTERN

**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

◇ GV1 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: STA. Y,Z,AA,BB,CC,DD,EE,FF,GG,HH,IJ,K

11 VALVE NUMBER  
 3/128 VALVE SIZE SECTION GPM

**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:**

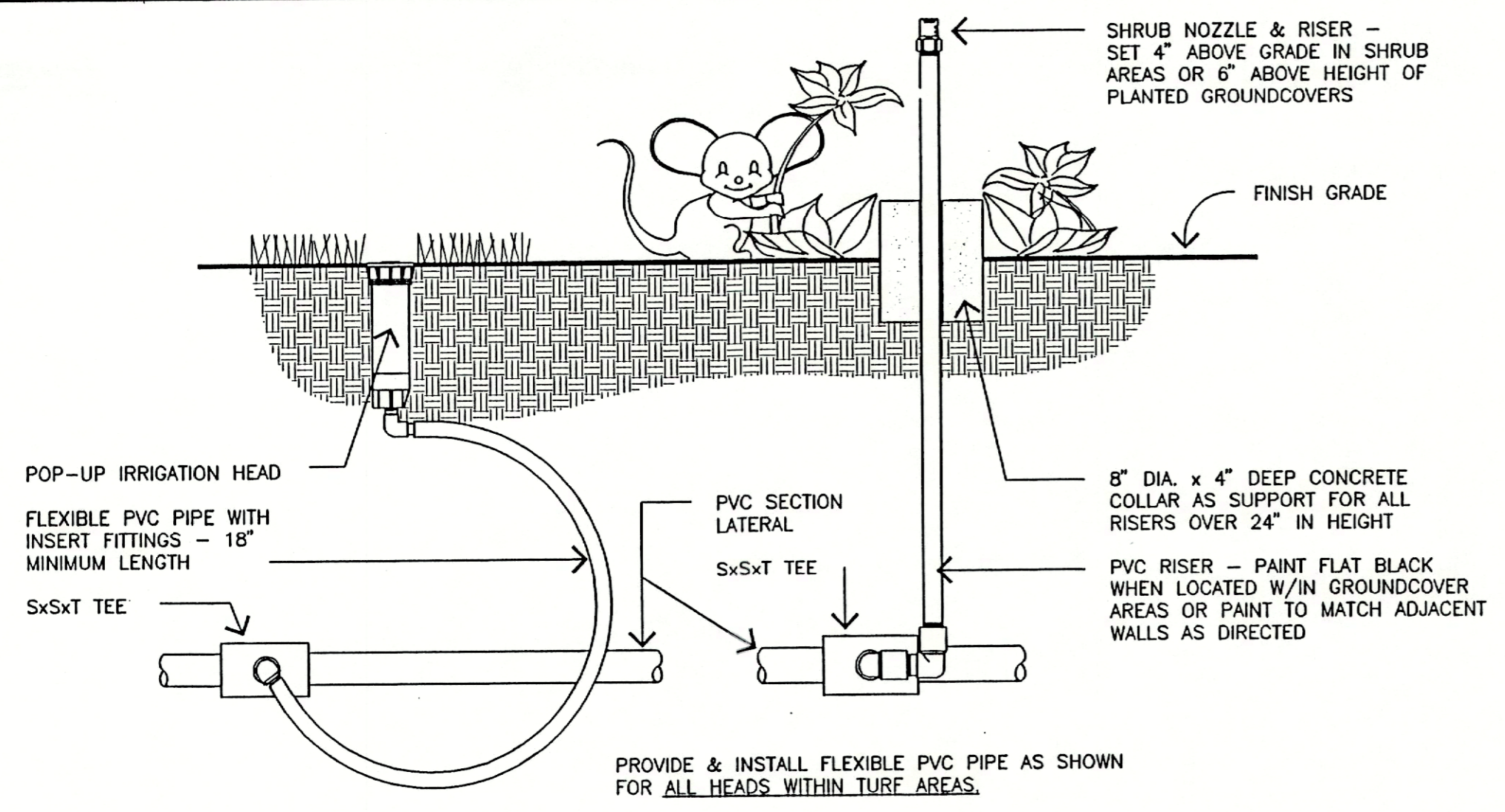
ZONE	GPM	TYPE	RUN TIME
Y	30	ROTOR	40
Z	40	BUBBLER	20
AA	42	BUBBLER	20
BB	30	ROTOR	40
CC	48	ROTOR	40
DD	56	BUBBLER	20
EE	50	SPRAY	20
FF	52	SPRAY	20
GG	38	BUBBLER	20
HH	39	ROTOR	40
II	36	ROTOR	40
JJ	40	BUBBLER	20

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

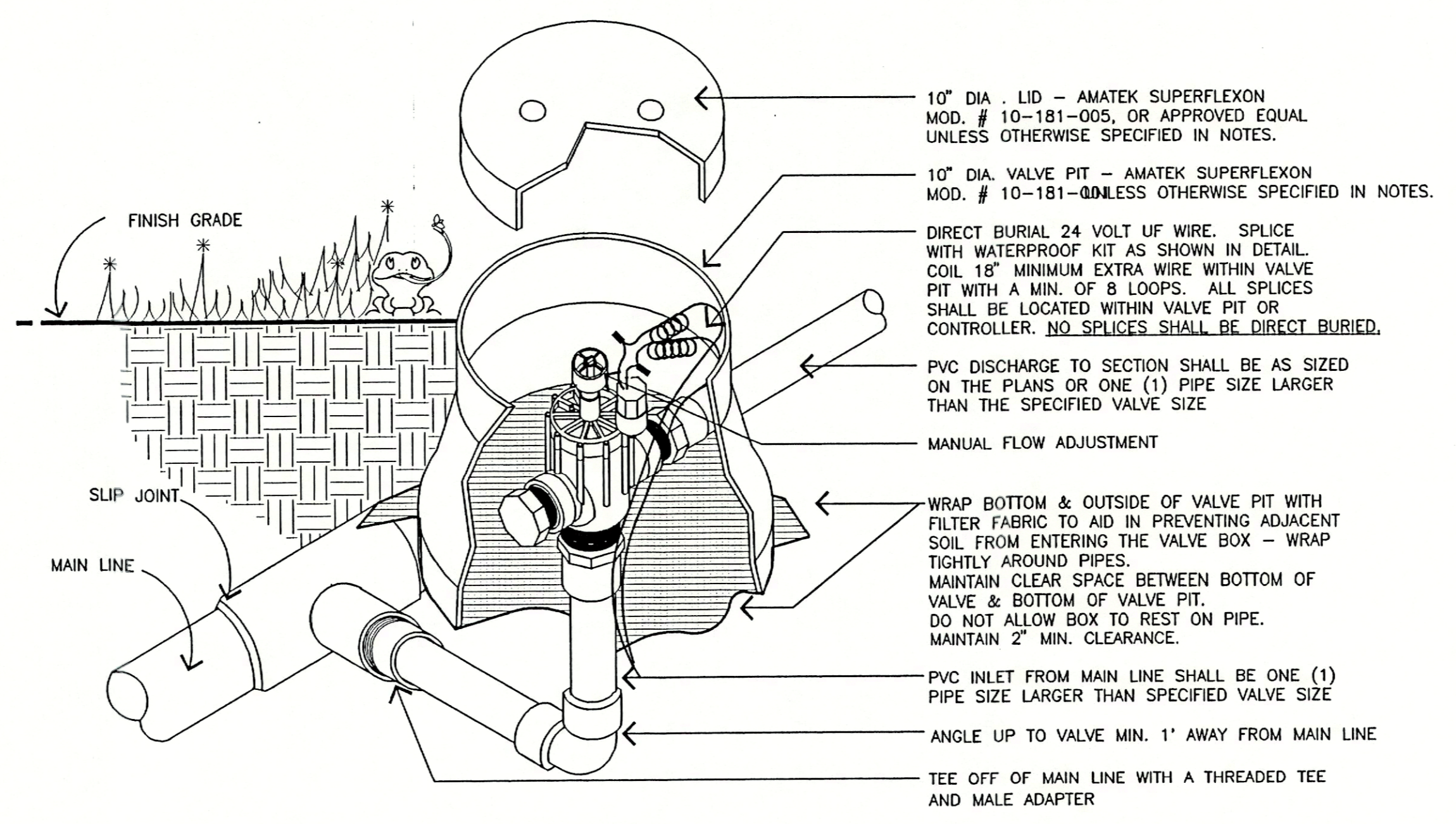
**IRRIGATION PLAN**

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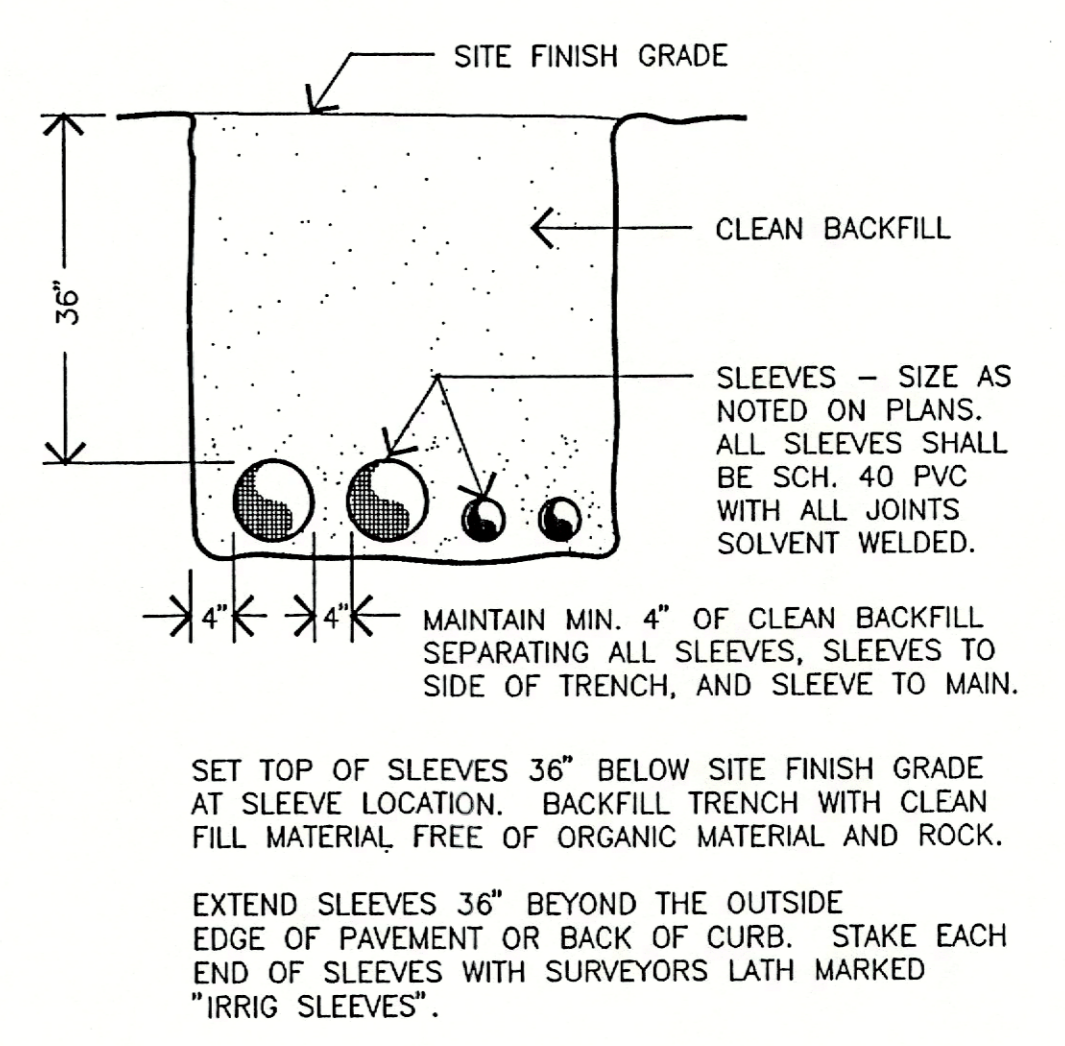
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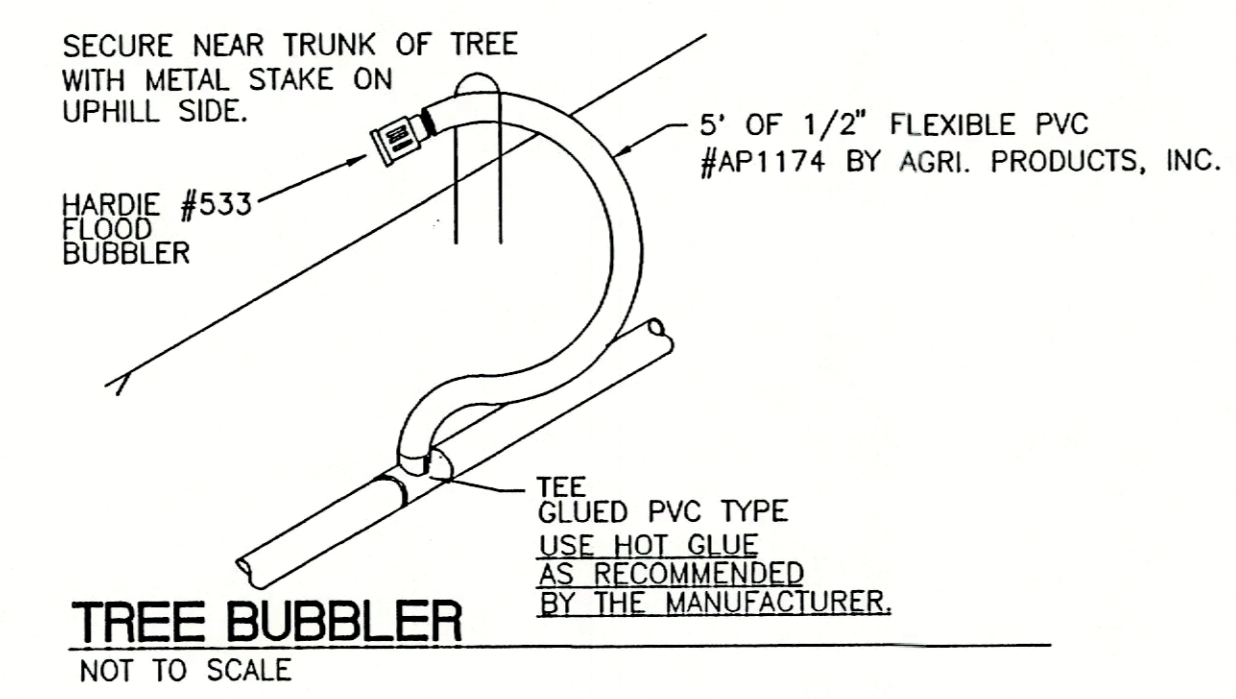
**TYP. POP-UP / RISER INSTALLATION**  
NOT TO SCALE



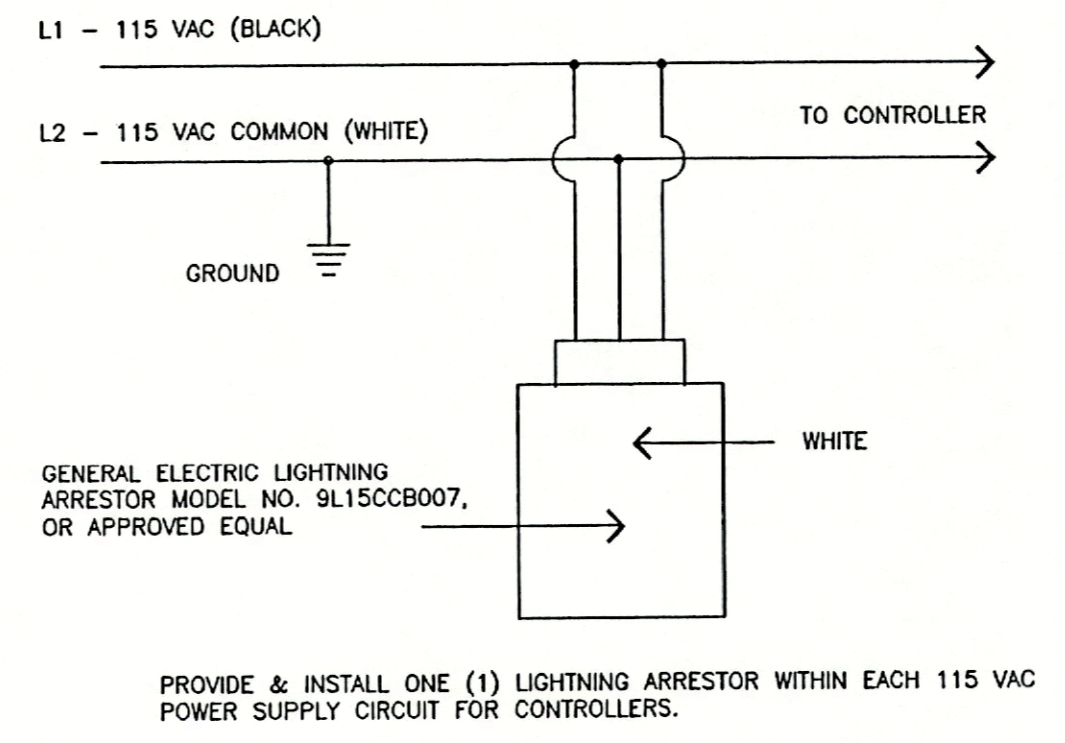
**TYPICAL ANGLE AUTOMATIC VALVE**  
NOT TO SCALE



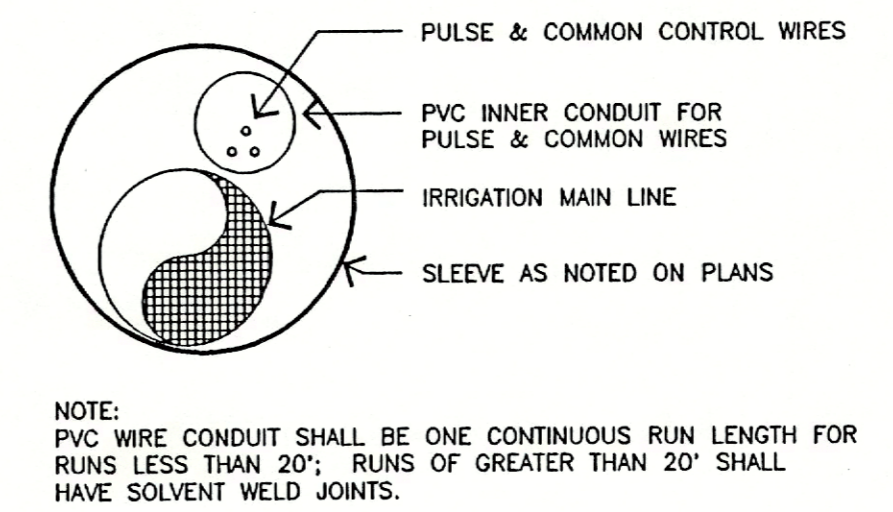
**SLEEVE / TRENCH DETAIL**  
NOT TO SCALE



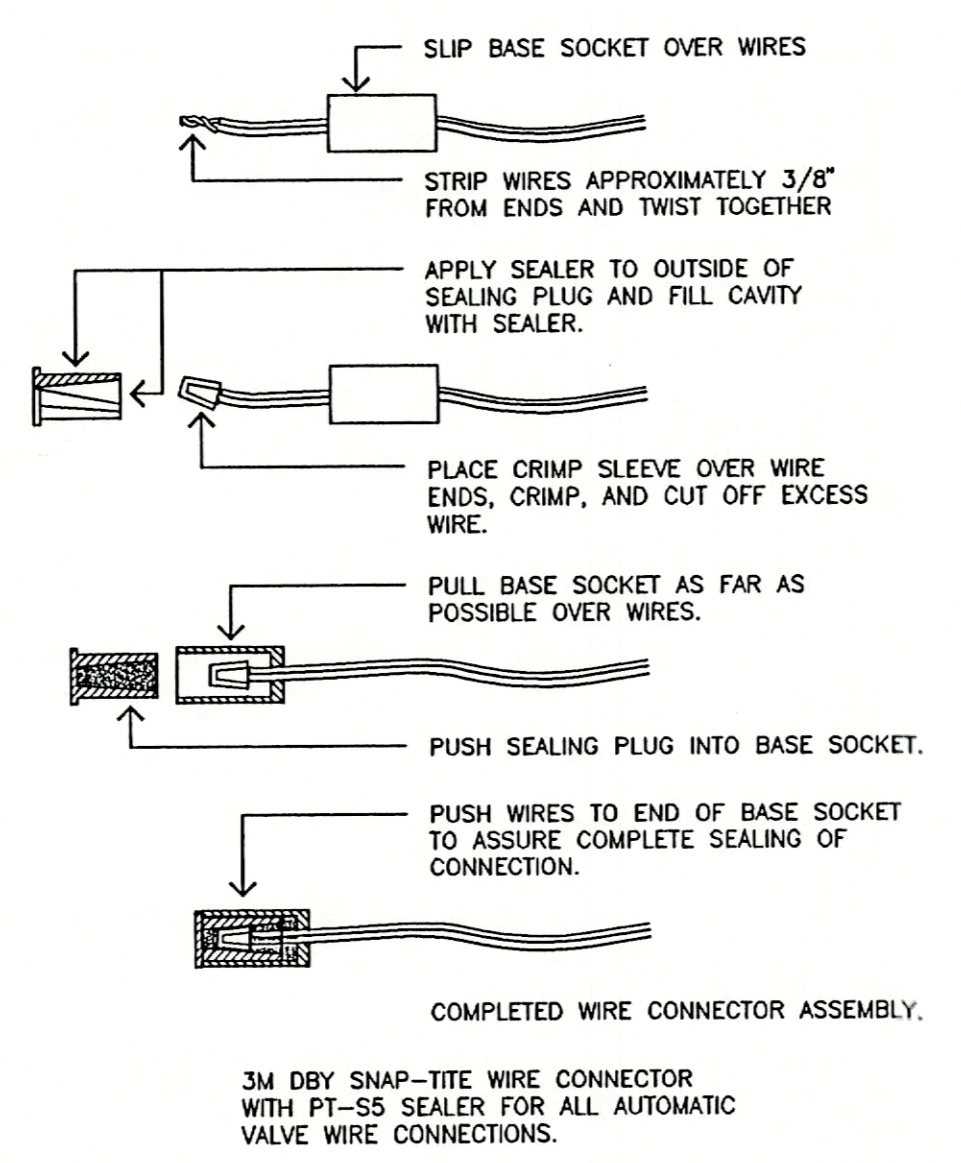
**TREE BUBBLER**  
NOT TO SCALE



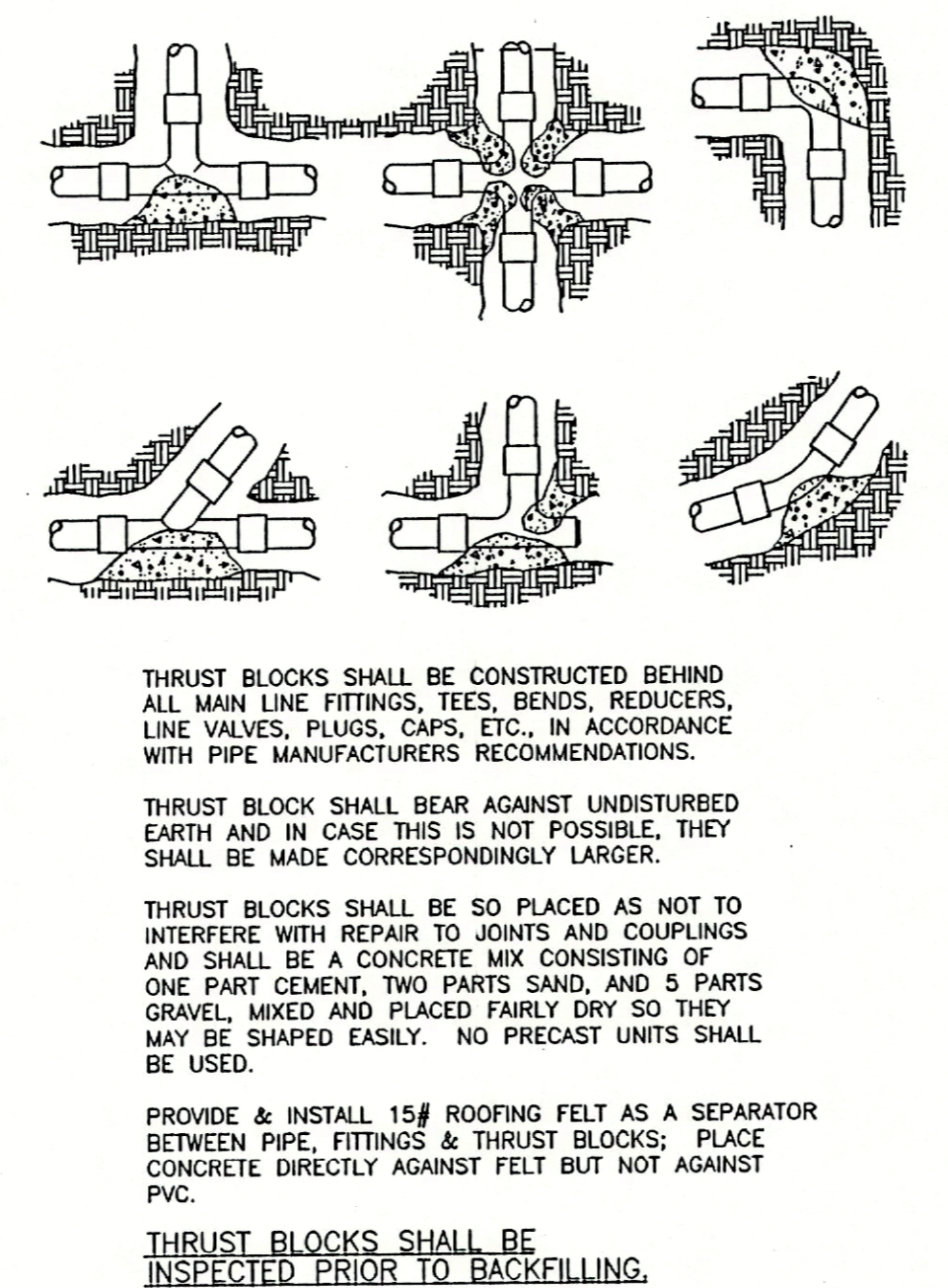
**LIGHTNING ARRESTOR DETAIL**  
NOT TO SCALE



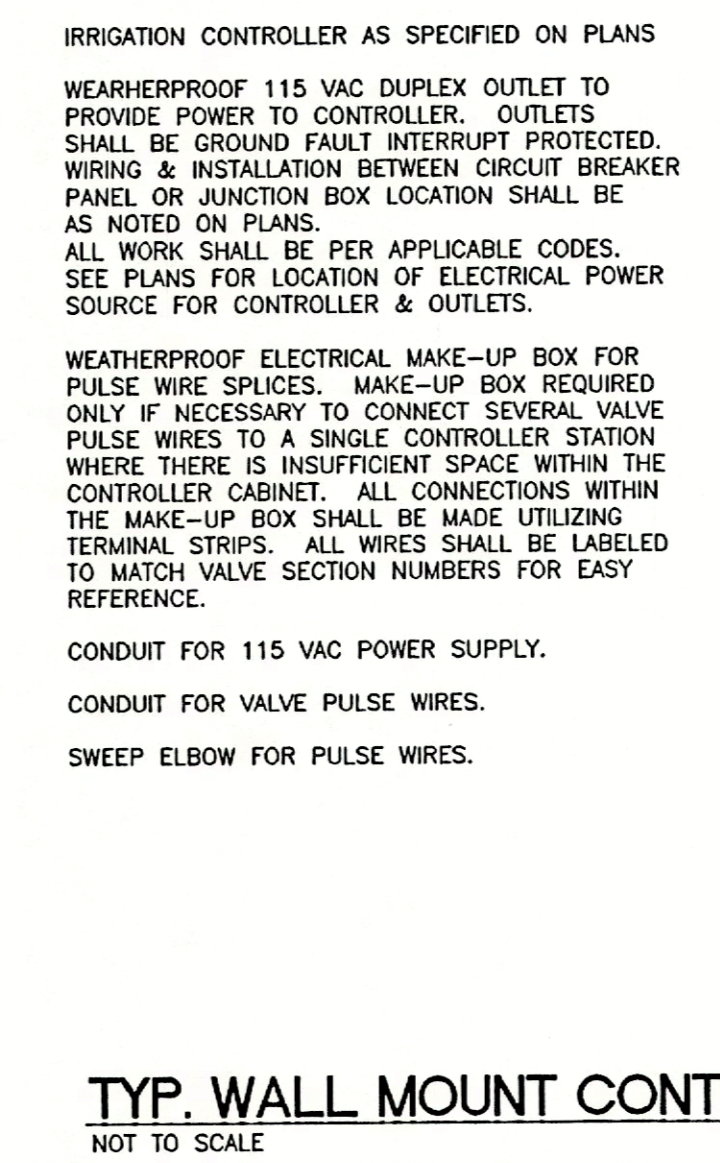
**SLEEVE DETAIL**  
NOT TO SCALE



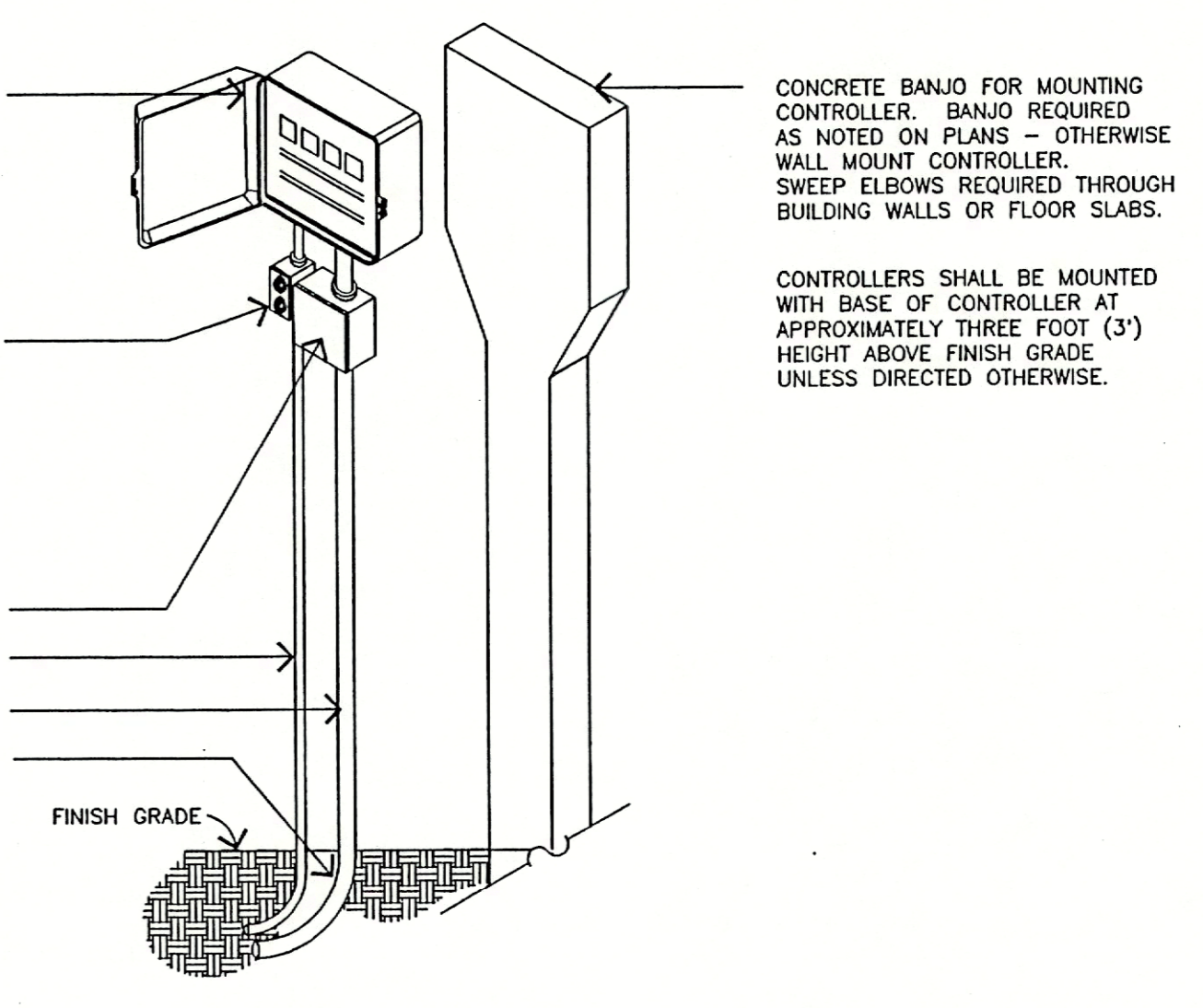
**TYPICAL WIRE CONNECTION**  
NOT TO SCALE



**THRUST BLOCKING**  
NOT TO SCALE



**TYP. WALL MOUNT CONTROLLER INSTALLATION**  
NOT TO SCALE



**IRRIGATION DETAILS**

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

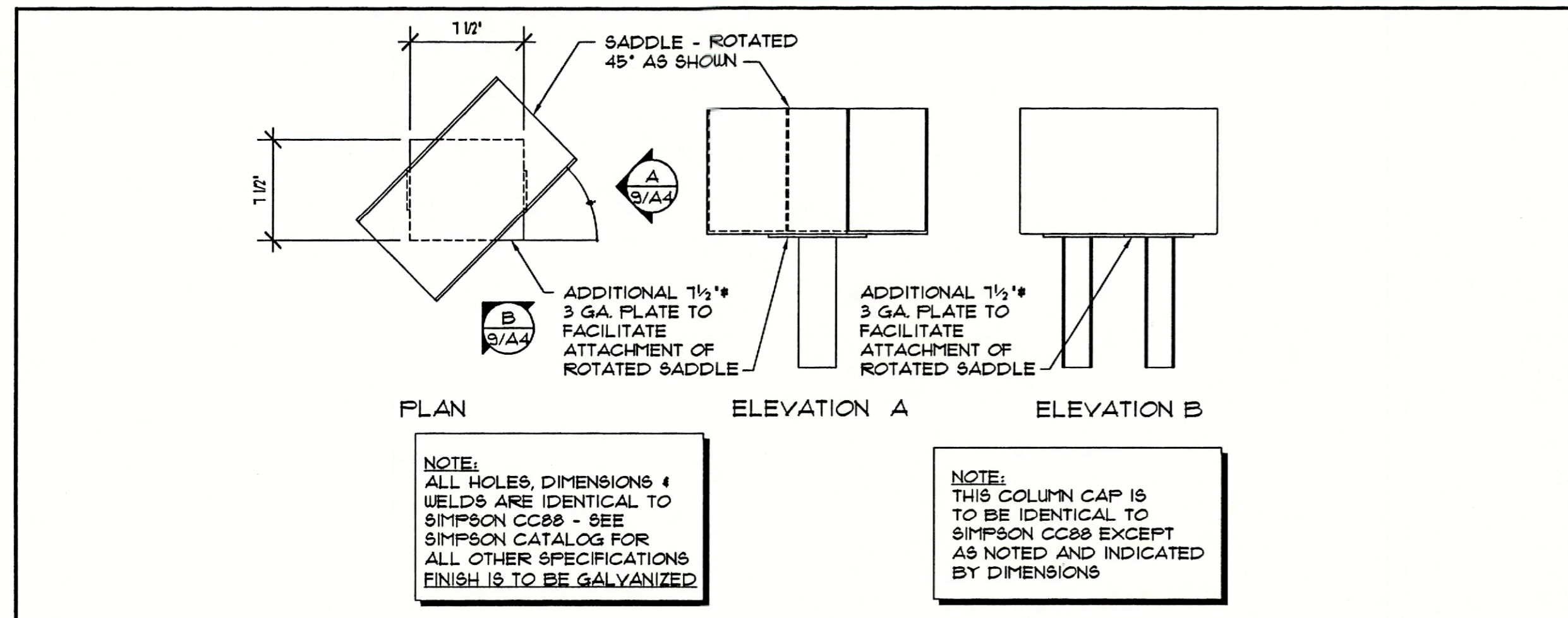
PROJECT NO.	9557
SCALE	AS NOTED
DATE	7/18/97
DRAWN BY	PJS
ISSUED	7/2/96

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

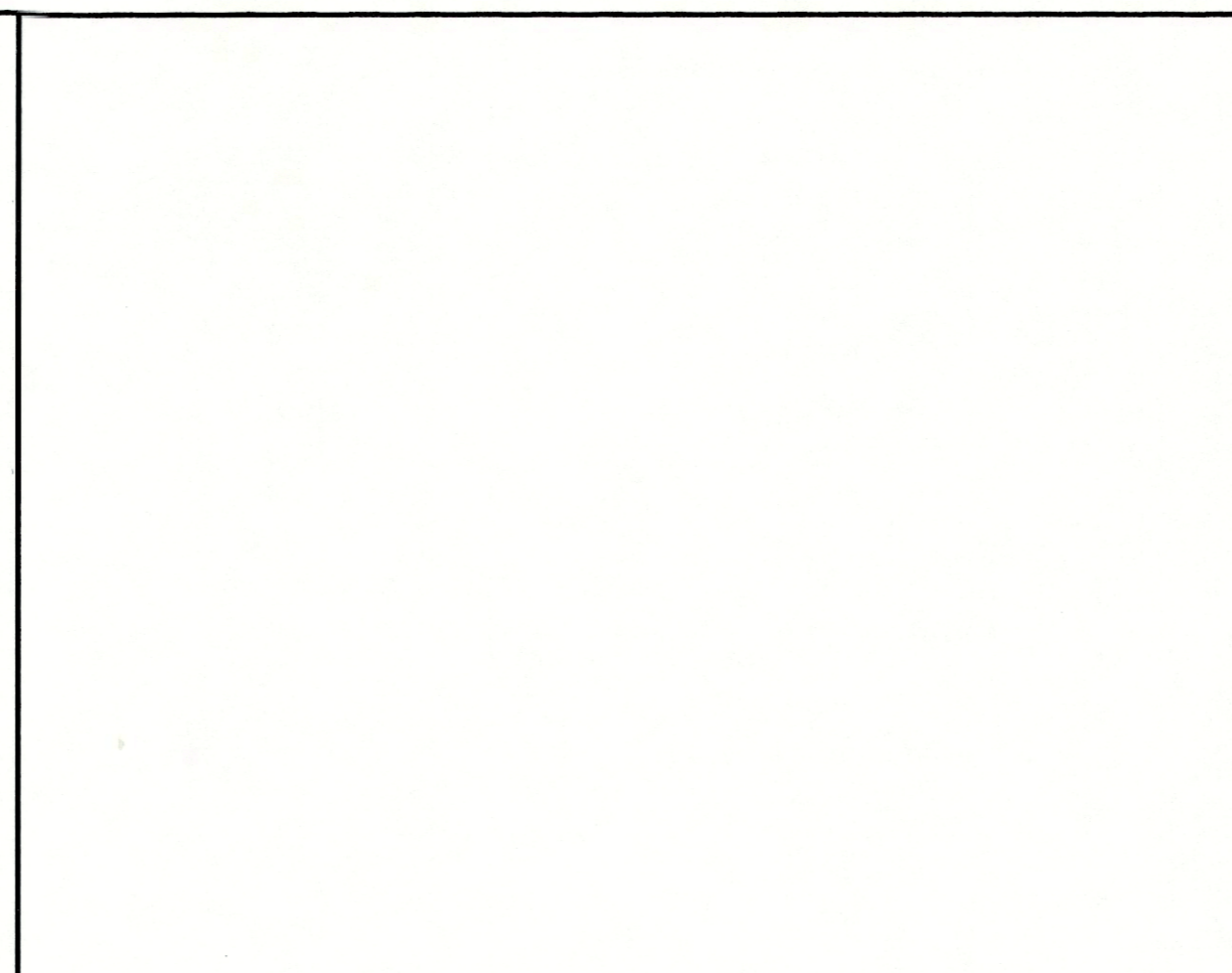
SHEET NO.  
**IR-4**



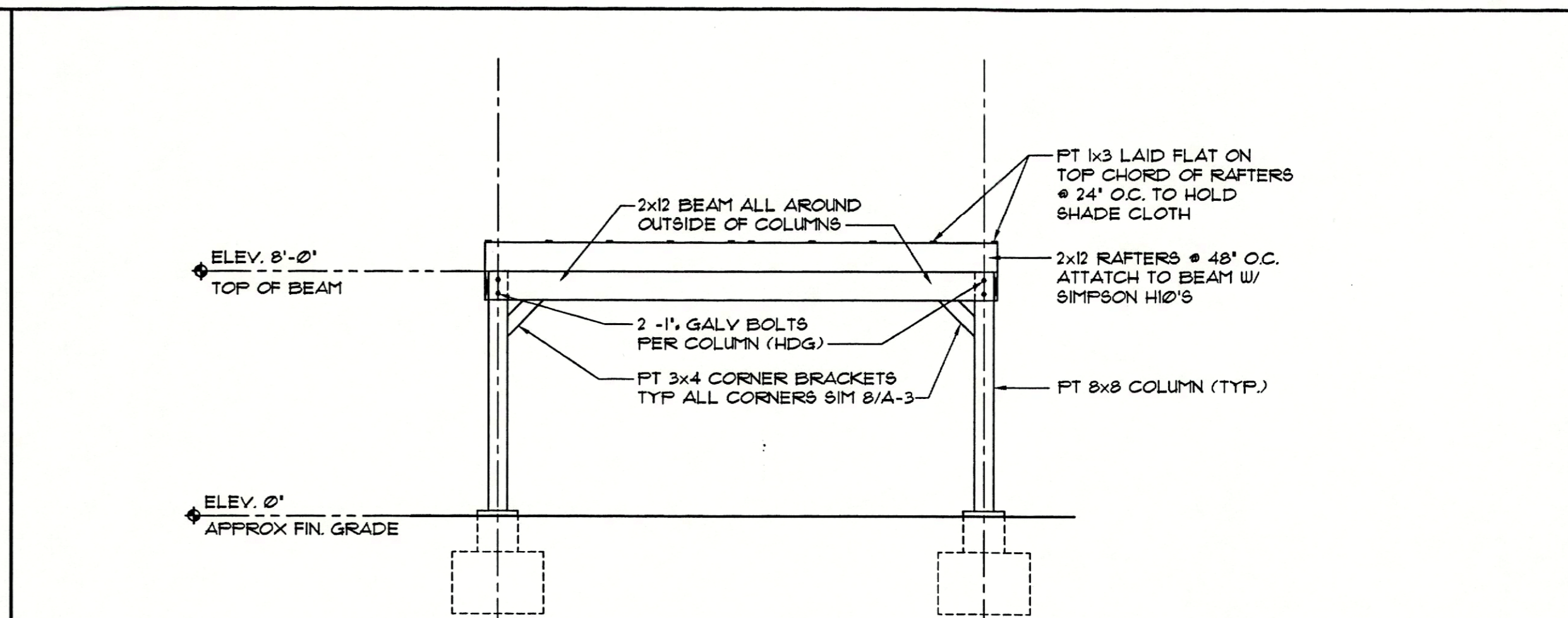




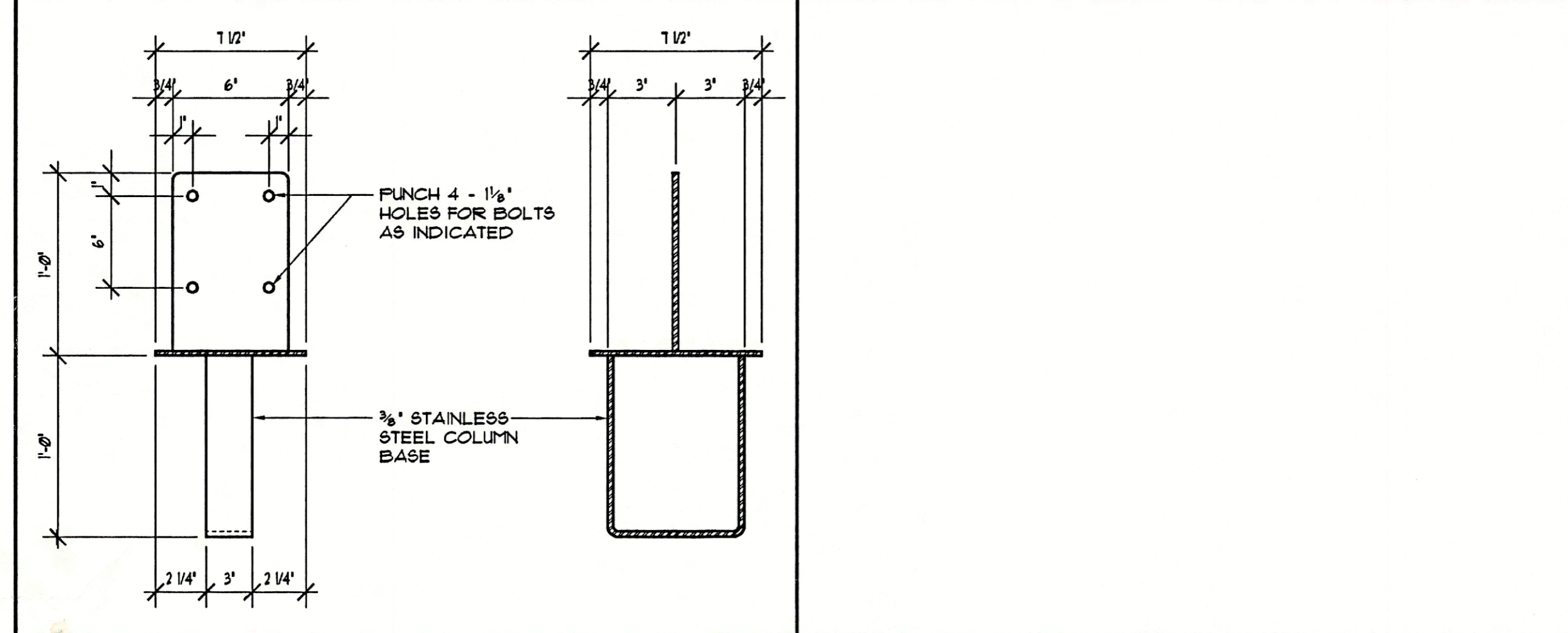
COLUMN CAP DETAIL SCALE: 1 1/2"=1'-0" 16



NTS. 12



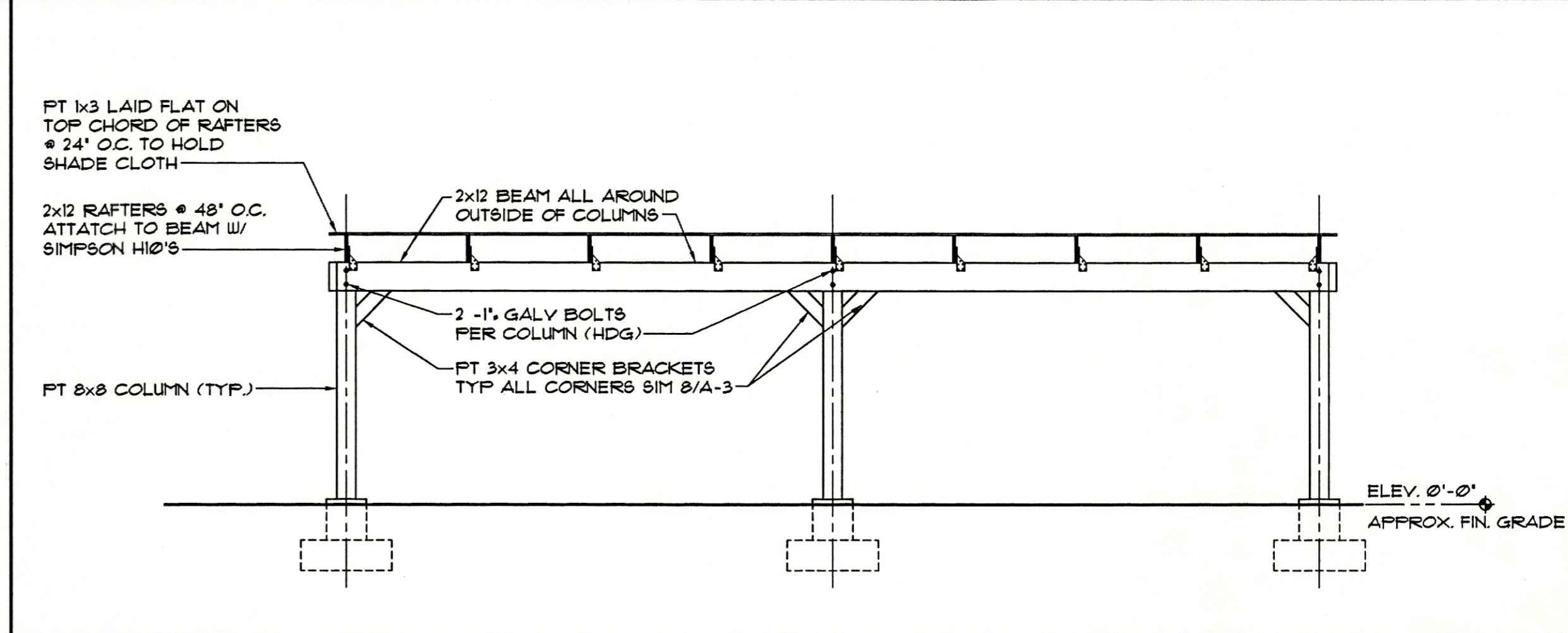
SHADE HOUSE ELEVATION SCALE: 1/4"=1'-0" 4



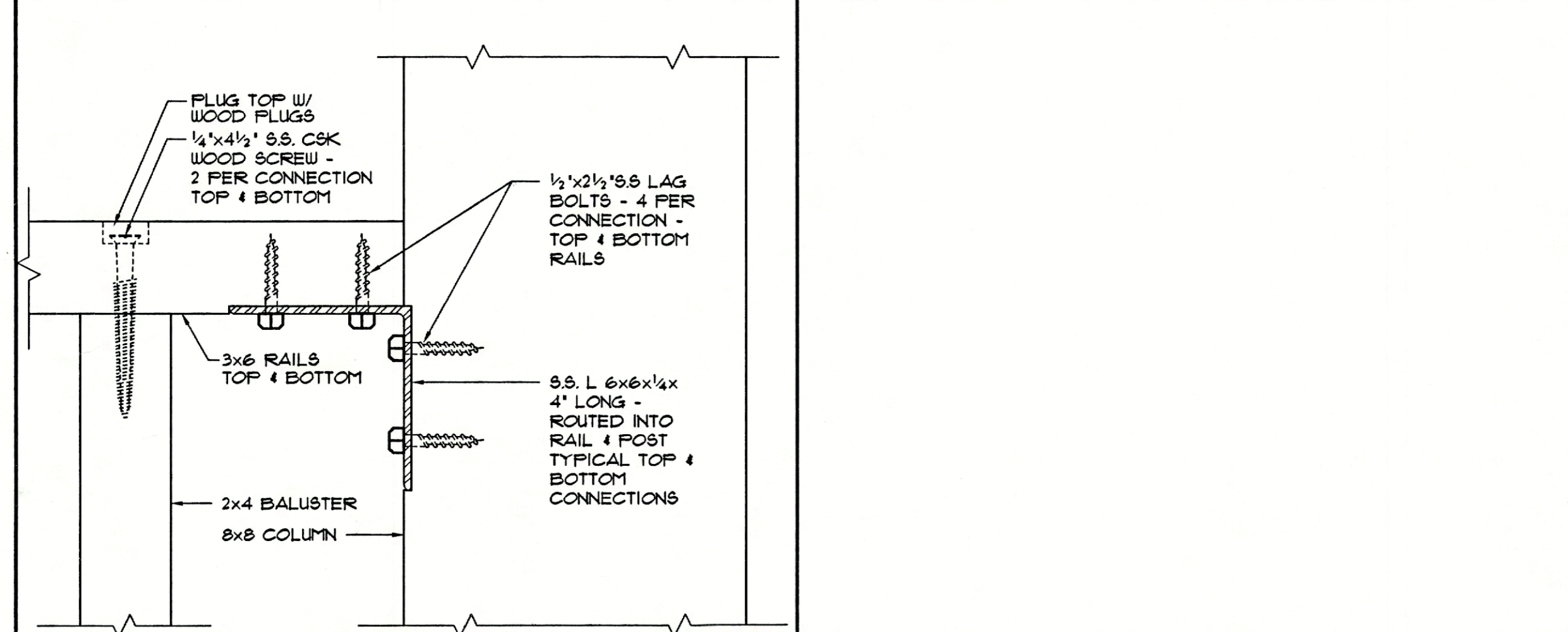
COLUMN BASE DETAIL SCALE: 1 1/2"=1'-0" 19



NTS. 11



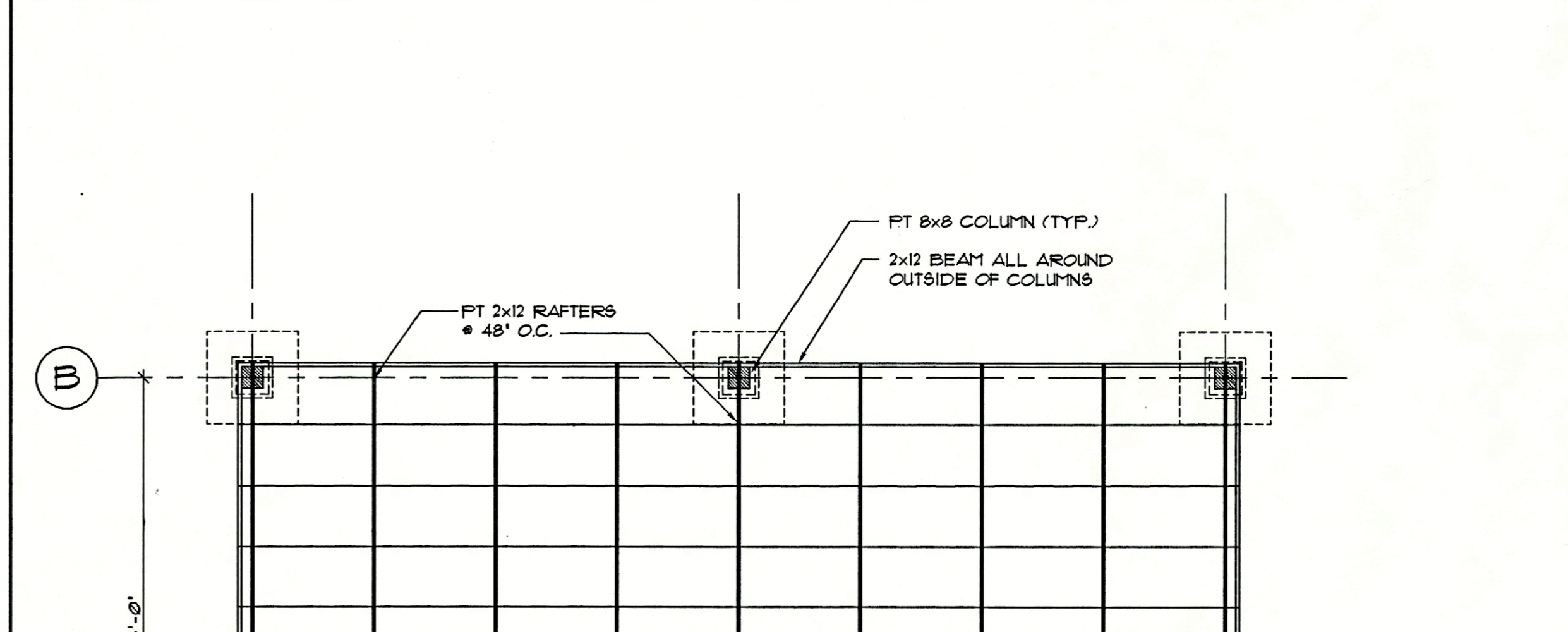
SHADE HOUSE ELEVATION SCALE: 1/4"=1'-0" 3



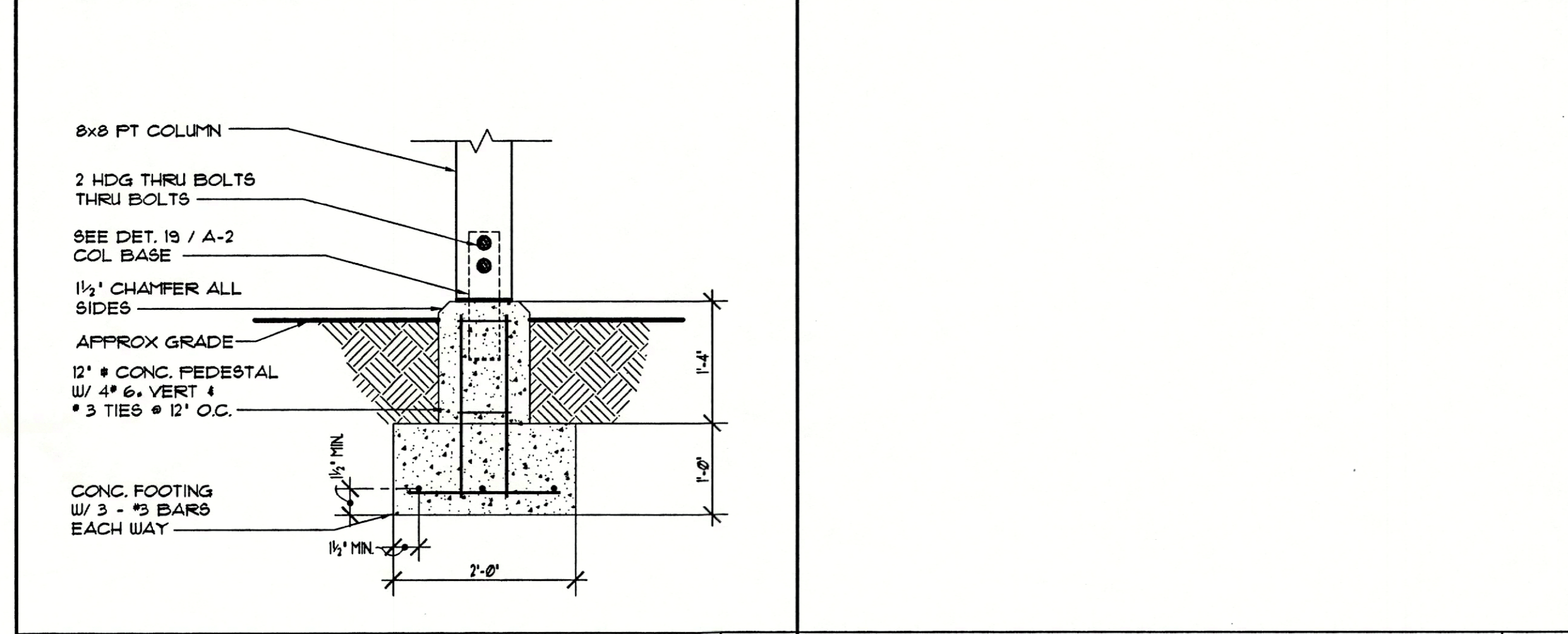
RAIL TO COL. ATTACH. DTL. SCALE: 3/4"=1'-0" 18



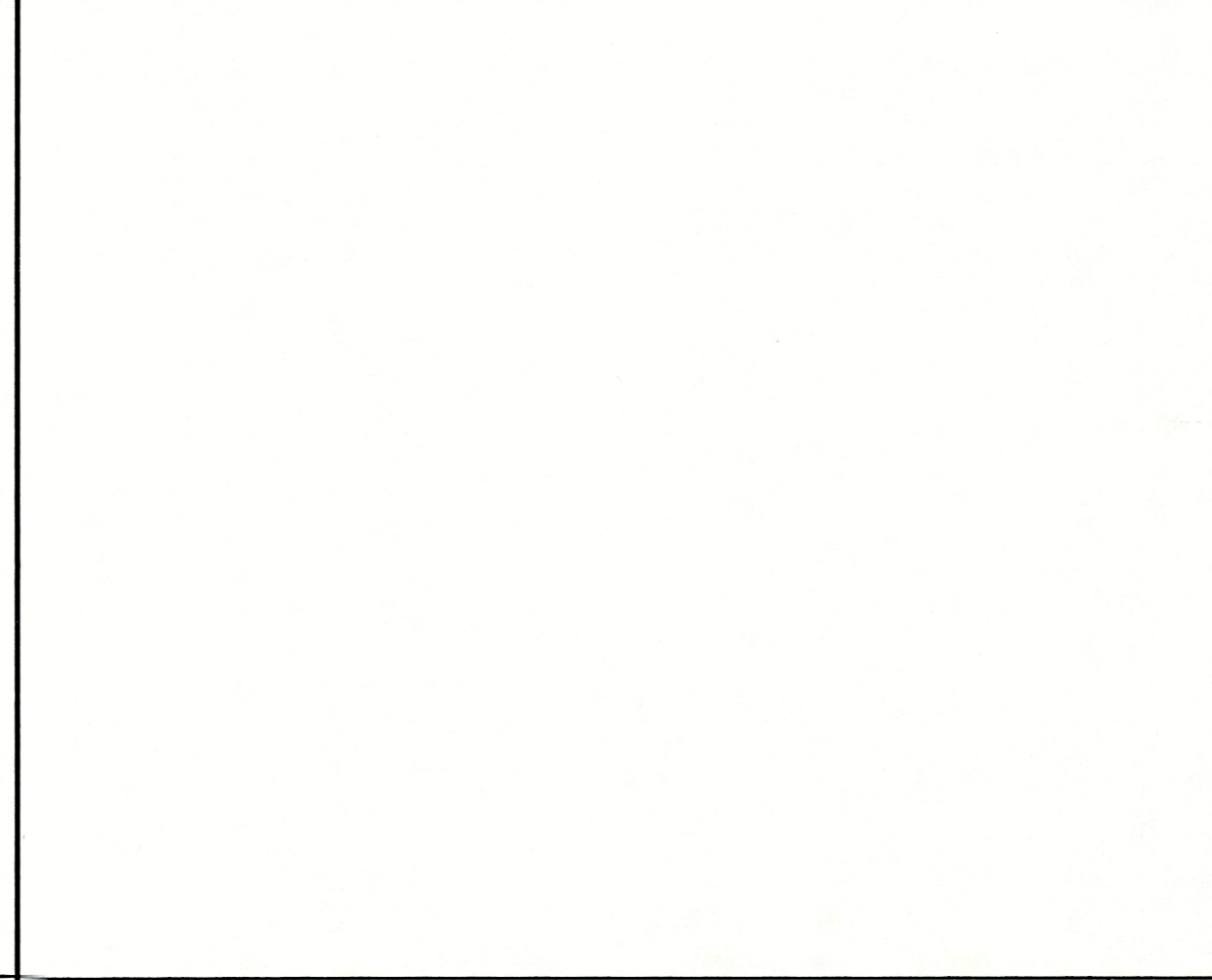
NTS. 14



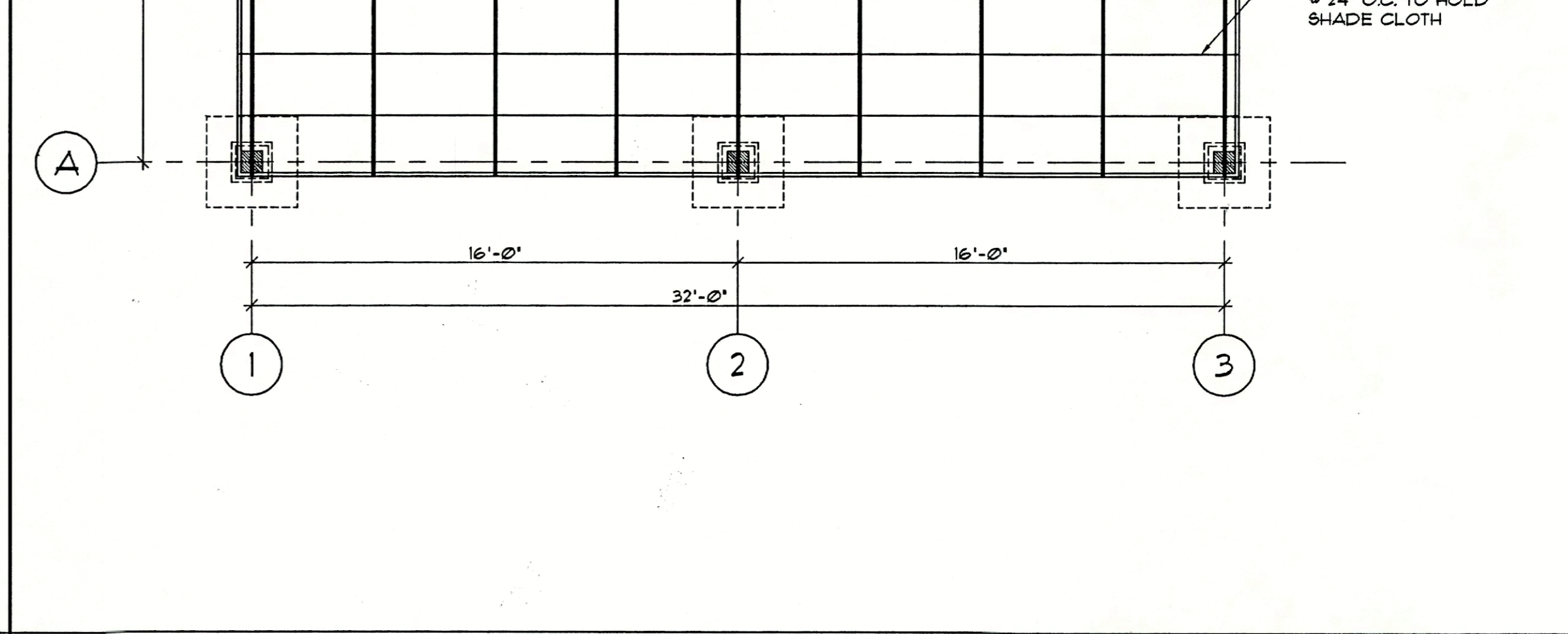
SHADE HOUSE PLAN SCALE: 1/4"=1'-0" 9



POST FOOTING DTL. SCALE: 3/4"=1'-0" 17



NTS. 13



SHADE HOUSE PLAN SCALE: 1/4"=1'-0" 1