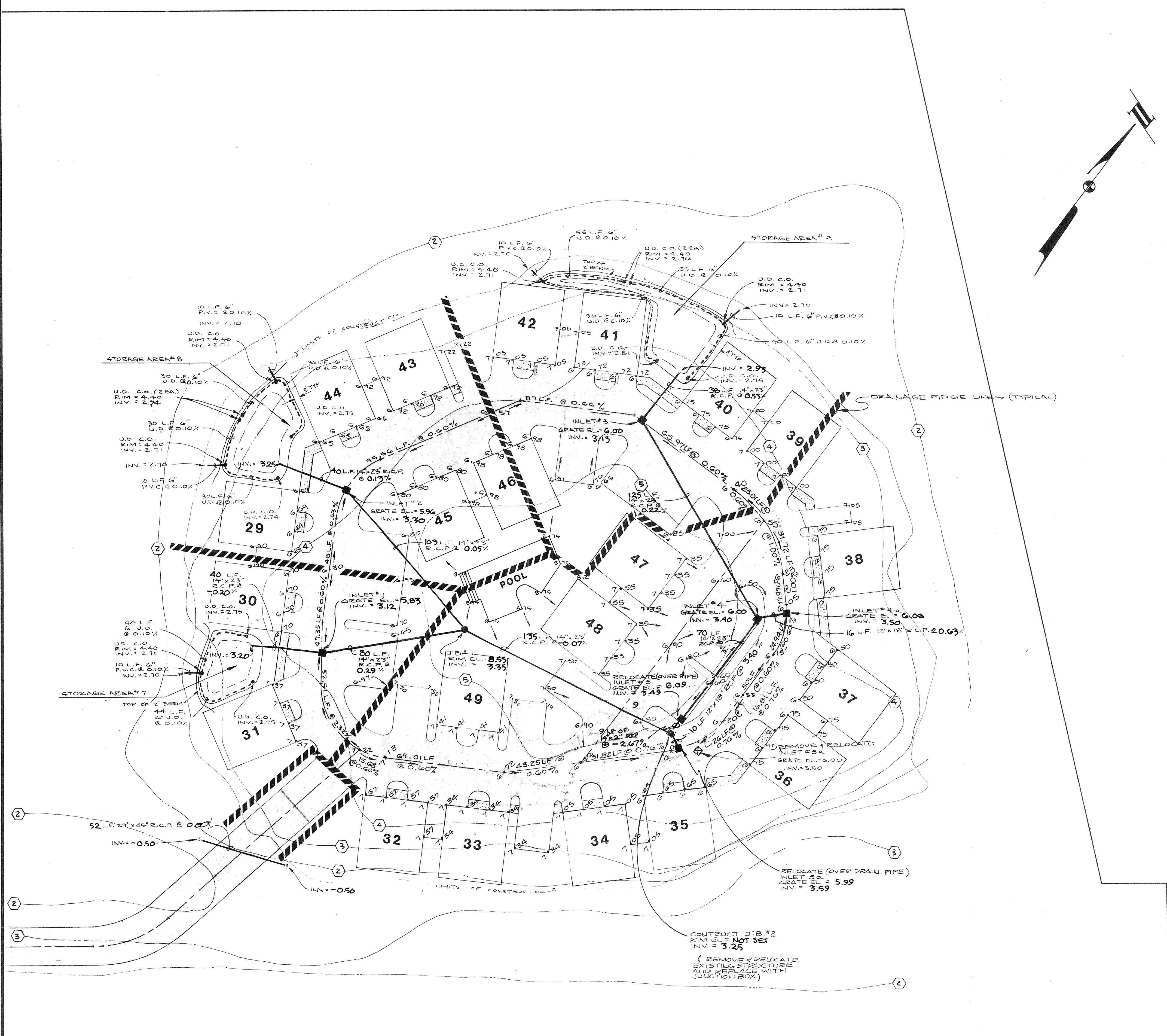


- DRAINAGE CONSTRUCTION NOTES:**
- DRAINAGE CONSTRUCTION SHALL BE STAKED BY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
 - THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES PRIOR TO INSTALLATION, INCLUDING CONCRETE AND HARDWARE.
 - UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A REPRODUCIBLE "DRAINAGE AND GRADING PLAN", CERTIFIED RECORD (AS-BUILT) DRAWING TO THE ENGINEER OF RECORD FOR DISTRIBUTION TO REQUIRED AGENCIES. SAID DRAWING SHALL BE PREPARED BY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
 - ALL PROPOSED CONSTRUCTION IS TO MEET OR EXCEED LATEST APPLICABLE TOWN OF LONGBOAT KEY CONSTRUCTION STANDARDS. ON-SITE IS TO BE PRIVATELY OWNED AND OPERATED. COMPANION WAY TO BE PUBLIC.
 - HAY BALES OR INLET DEBRIS CONTROL SCREENS TO BE PLACED AT ALL INLET AND OUTFALL LOCATIONS DURING CONSTRUCTION TO MINIMIZE SEDIMENTARY RUNOFF.
 - THE CONTRACTOR IS TO COORDINATE THE LOCATION AND ELEVATION OF ALL P.F.P.L., C.T.E. AND IRRIGATION SERVICE SLEEVES WITH RESPECTIVE AGENCIES PRIOR TO CONSTRUCTION.
 - THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL UNDERGROUND UTILITIES AND STORM SEWER ARE CONSTRUCTED, TESTED AND OPERATIONAL PRIOR TO ANY ROADWAY CONSTRUCTION.
 - ALL PROPOSED ELECTRICAL AND COMMUNICATION SERVICES ARE TO BE LOCATED UNDERGROUND AS DIRECTED BY RESPECTIVE AGENCY.
 - BENCH MARKS WITH THE ELEVATION CLEARLY AND PERMANENTLY MARKED ARE TO BE PLACED ON THE TOP OF ALL PROPOSED OUTFALL STRUCTURES.
 - MINIMUM FINISH FLOOR FOR LIVING AREA SHALL BE AT ELEVATION 10.0. IN ACCORDANCE WITH ZONE A13 OF F.I.R.M. MAP ESTABLISHED ON AUGUST 15, 1993. OUR FIRM WOULD TYPICALLY ESTABLISH A ROADWAY MINIMUM ELEVATION OF 6.0 TO CORRESPOND WITH THE 10.0 ELEVATION ESTABLISHED BY FIRM. THIS MINIMUM ELEVATION OF 6.0 WAS HELD FOR STAGE 3 SITE DEVELOPMENT, BUT WAS NOT HELD FOR THE DESIGN OF COMPANION WAY. SINCE EARLIER PHASES OF COMPANION WAY, WHICH WERE DESIGNED BY OTHERS, ARE IN THE ELEVATION 3.0 RANGE, ACCESS DURING A FLOOD SITUATION WOULD BE SEVERED BY THE EXISTING LOW ROADWAY ELEVATIONS. CONSTRUCTION OF THE PROPOSED COMPANION WAY AT A HIGHER ELEVATION WOULD NOT IMPROVE ACCESSIBILITY.
 - DRAINAGE RIDGE LINES CONFORM WITH THE PREVIOUSLY APPROVED PLANS. PROVIDED STORAGE VOLUMES ARE IN SAME GENERAL LOCATION AND MEET OR EXCEED THE PREVIOUSLY APPROVED STORAGE VOLUMES.
 - BENCHMARK NO. 60 IS LOCATED IN THE VICINITY OF THE GULF OF MEXICO DRIVE/COMPANION WAY INTERSECTION AND AT ELEVATION 7.50.



LEGEND

- EXISTING CONTOURS
- - - PROPOSED UNDERDRAIN CLEAN-OUT
- - - PROPOSED UNDERDRAIN
- PROPOSED CATCH BASIN & VALLEY GUTTER
- 7.21 PROPOSED ELEVATION
- ▭ PROPOSED ASPHALT PAVT.
- ▭ PROPOSED CONCRETE SIDEWALK

FILTRATION DATA

DRAINAGE BASIN	REQUIRED VOLUME*	STORAGE PROVIDED
AREA #7 (0.28 AC)	502 CF	1,032 CF
AREA #8 (0.45 AC)	825 CF	1,642 CF
AREA #9 (0.54 AC)	987 CF	2,272 CF
AREA #10 (1.22 AC)	2,212 CF	
SUBTOTAL	4,526 CF	4,946 CF
PIPE VOLUME		1,187 CF
TOTAL	4,526 CF	6,133 CF

* REQUIRED FILTRATION STORAGE VOLUME PER CALCULATIONS PREPARED BY A. L. CONVERS AND AS PREVIOUSLY APPROVED.

UNDERDRAIN DATA

STORAGE	ORIGINALLY APPROVED	LENGTH PROVIDED
AREA #7	45 LF	88 LF
AREA #8	70 LF	126 LF
AREA #9	120 LF	245 LF
AREA #10	224 LF	
TOTAL	459 LF	459 LF

RECORD DRAWING
OF
DRAINAGE, PAVING AND GRADING PLAN
FOR
CEDARS EAST - STAGE 7
AT
LONGBOAT KEY
ON
SARASOTA BAY
LOCATED IN
SEC. 24 & 25, TWP. 35S., RGE. 16E.
MANATEE COUNTY, FLORIDA

NOV 19 1991

Zoller, Najjar & Shroyer, Inc.
Engineers, Planners, Surveyors & Landscape Architects

ENGINEER'S CERTIFICATE
I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THE IMPROVEMENTS DEPICTED HEREON HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. I FURTHER STATE THAT THIS RECORD DRAWING WAS PREPARED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
ZOLLER, NAJJAR & SHROYER, INC.
P. O. BOX 9448
BRADENTON, FLORIDA 34206
Richard P. Clarke
RICHARD P. CLARKE P.E. #16377
DATE OF CERTIFICATION: 11/19/91

I HEREBY CERTIFY THAT THE RECORD DRAWING OF THE UTILITIES SHOWN, SUPERIMPOSED UPON THE DESIGN CONSTRUCTION PLANS, IS TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, A TRUE AND CORRECT REPRESENTATION OF THE IMPROVEMENTS AS SHOWN.
ZOLLER, NAJJAR & SHROYER, INC.
P. O. BOX 9448
BRADENTON, FLORIDA 34206
James N. Garcia, Jr.
JAMES N. GARCIA, JR. P.E. #4295
DATE OF FIELD WORK: 12-12-89 DATE OF CERTIFICATION: 11-18-91

REVISIONS

1	STORAGE #10 REMOVED	1-18-89
2	STORAGE #10 REV.	1-18-89
3	DRAINAGE SYSTEM	1-18-89
4	REV. # 1	8-1-89
5	REV. # 2	8-1-89
6	RECORD DRAWING	11-18-91
7	FINAL SUBM. T.O.B.K.	11-18-91

DESIGNED M.H.	CHECKED R.P.C.	DATE 28 OCT 87	SCALE 1"=30'
DRAWN J.H. COMP.	JOB NO. 668-8946	FILE NO. 09810	SHEET 2 OF 3