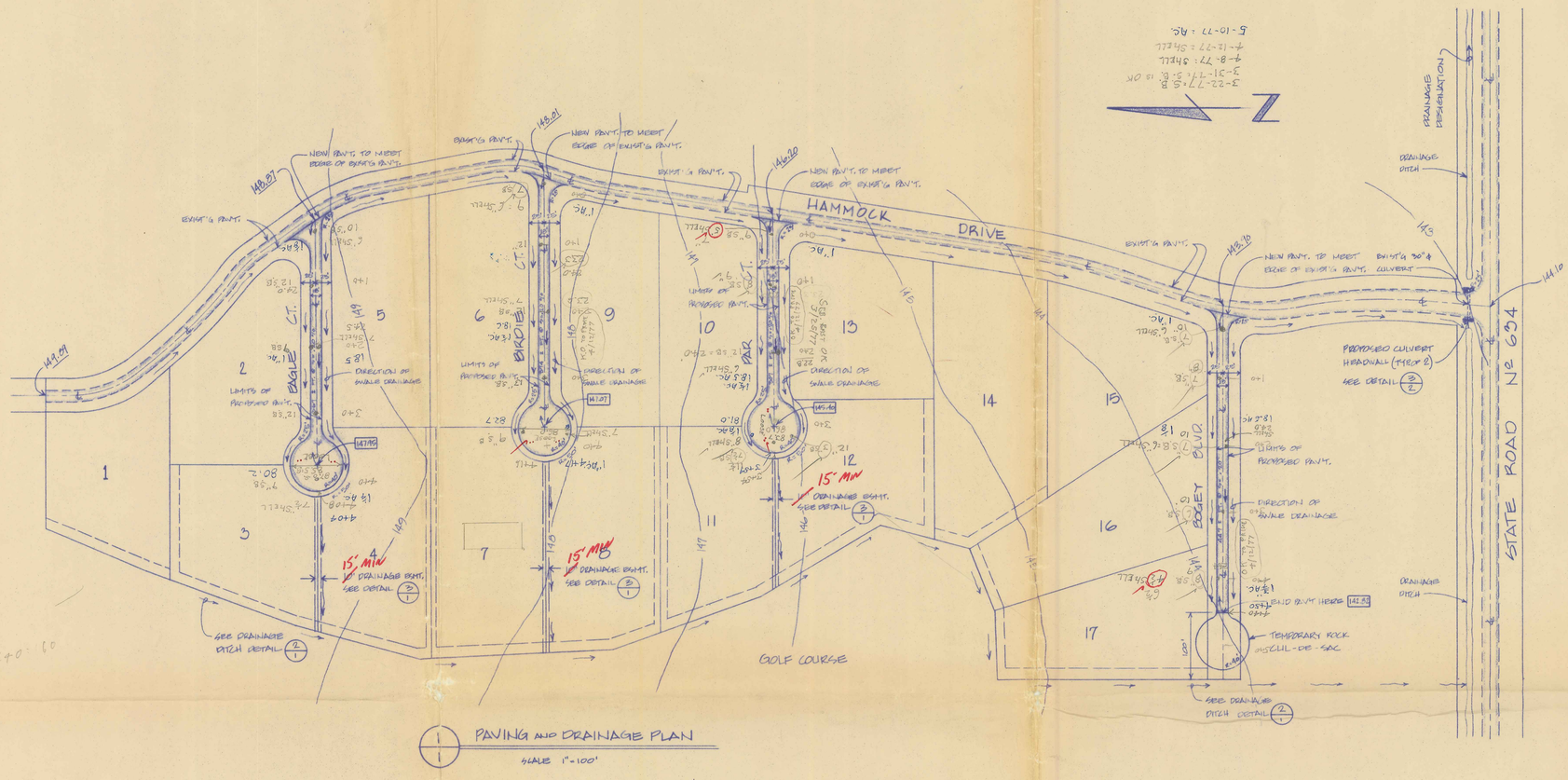
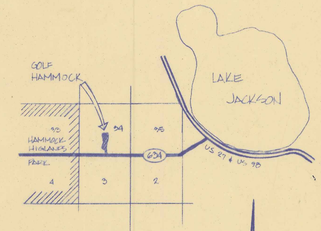
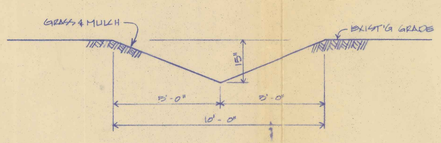


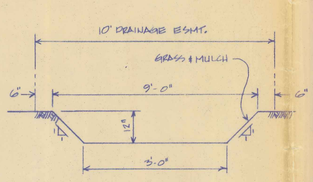
7/1 PAVING AND DRAINAGE PLAN
SCALE 1"=100'



7/1 LOCATION MAP
N.T.S.



2/1 TYPICAL OFF-SITE DRAINAGE DITCH
N.T.S.



3/1 TYPICAL ON-SITE DRAINAGE DITCH
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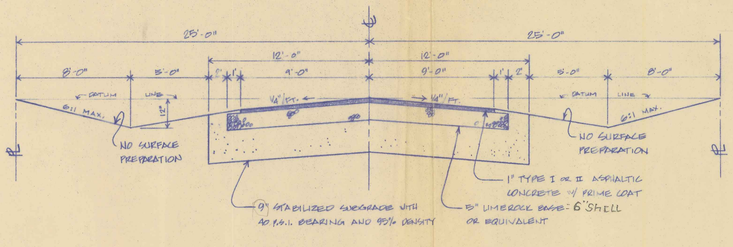

4/1 TYPICAL PAVEMENT CROSS-SECTION
N.T.S.

5/1 LEGEND

- EXISTING ELEVATION, M.S.L.
- PROPOSED ELEVATION, M.S.L.
- PROPOSED PAVEMENT, DIMENSION AND SLOPE
- EXISTING PAVEMENT
- DIRECTION OF OVERLAND DRAINAGE
- 3/2 DETAIL NUMBER, PAGE NUMBER

6/1 SPECIFICATIONS

A. All materials and workmanship shall conform to current Highlands County Specifications.
B. Roadway locations shall be cleared of all vegetation prior to compaction of the subgrade. All tree stumps shall be removed to a depth of 12" below the subgrade.
C. Gumbo and other plastic clays shall be removed to a depth of 12" below the subgrade and horizontally to the ditch slope.
D. Muck shall be completely removed within the limits of two lines 5 feet outside of the pavement edges.
E. Fill sections shall be constructed in 12" maximum lifts to provide 90% density (Fla. bearing value).
F. Base material used shall be suitable to the County Engineer.
G. Prime coat shall consist of .15 gallon (RC-1) per square yard covered with .15 cubic feet of clean sand per square yard and shall be traffic rolled.
H. All materials used for roadway construction shall meet Florida Department of Transportation current specifecations.
I. Contractor shall notify the Engineer of Record prior to commencing work and also after completion for schedule of a final inspection.

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APPROVED
1-27-77

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COUNTY ENGINEER
HIGHLANDS COUNTY, FLORIDA

2	1-21-77	DRAINAGE FLOW DIRECTION
1	1-17-77	CULVERT PIPES, MISC. NOTES
		REVISIONS

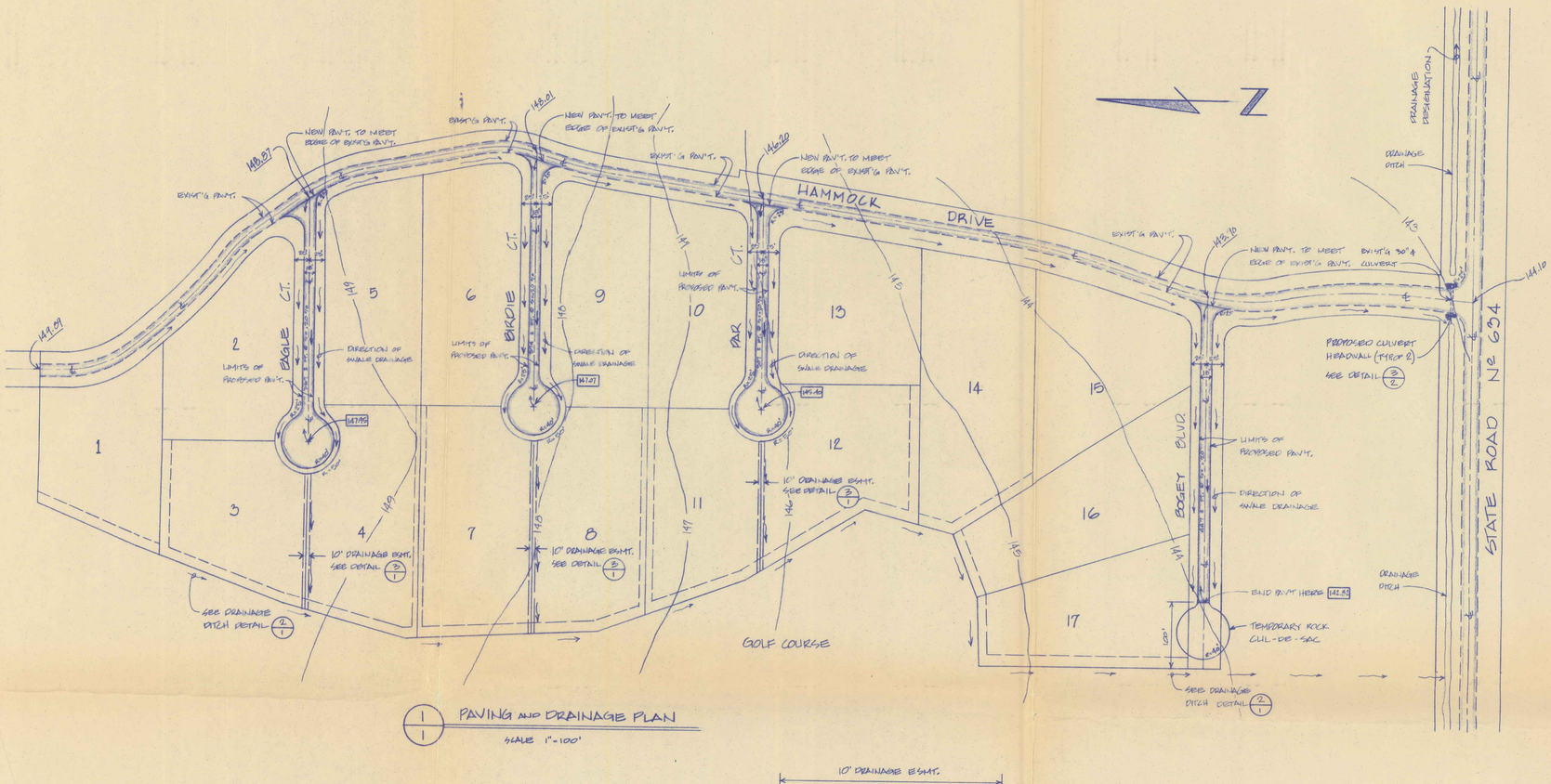
GOLF HAMMOCK

STREET AND STORM WATER DRAINAGE PLAN
GOLF HAMMOCK, SEBRING

FOR: AMERICAN HOME SERVICE CORP.

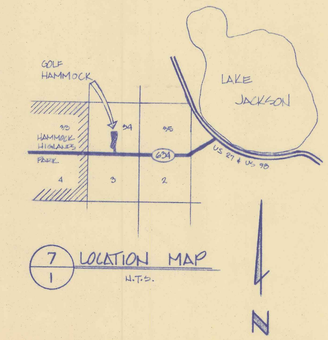
ROBERT H. MILLER AND ASSOCIATES, ENGINEERS
4431 S.W. 64TH AVE., FT. LAUDERDALE, FLORIDA 33314
APPROVED: Robert H. Miller
FLA. REG. Nº 10408

PROJECT Nº 0771-77
JANUARY 6, 1977
SHEET 1 OF 2



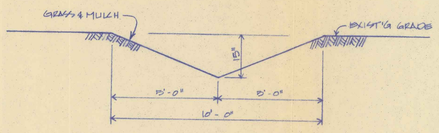
1/1 PAVING AND DRAINAGE PLAN

SCALE 1"=100'



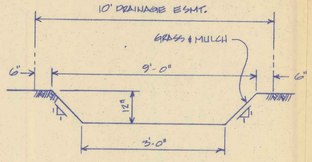
7/1 LOCATION MAP

N.T.S.



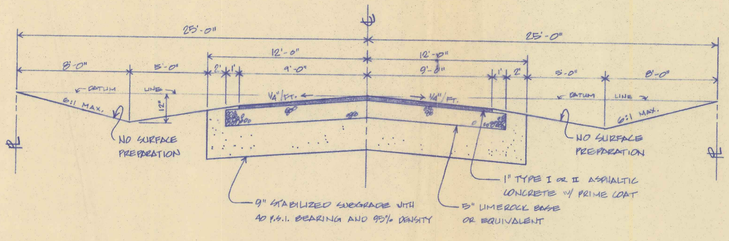
2/1 TYPICAL OFF-SITE DRAINAGE DITCH

N.T.S.



3/1 TYPICAL ON-SITE DRAINAGE DITCH

N.T.S.



4/1 TYPICAL PAVEMENT CROSS-SECTION

N.T.S.

5/1 LEGEND

- EXISTING ELEVATION, M.S.L.
- PROPOSED ELEVATION, M.S.L.
- PROPOSED PAVEMENT, DIMENSION AND SLOPE
- EXISTING PAVEMENT
- DIRECTION OF OVERLAND DRAINAGE
- 3/2 DETAIL NUMBER, PAGE NUMBER

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COUNTY ENGINEER
HIGHLANDS COUNTY, FLORIDA

1	1-21-77	DRAINAGE FLOW DIRECTION
2	1-17-77	CULVERT PIPES, MISC. NOTES

REVISIONS

STREET AND STORM WATER DRAINAGE PLAN
GOLF HAMMOCK, SEBRING

FOR: AMERICAN HOME SERVICE CORP.

ROBERT H. MILLER AND ASSOCIATES, ENGINEERS
4431 S.W. 64TH AVE., FT. LAUDERDALE, FLORIDA 33314
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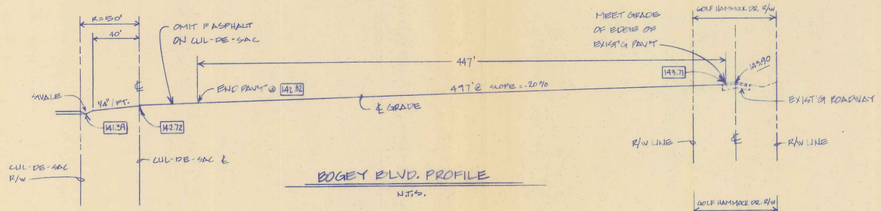
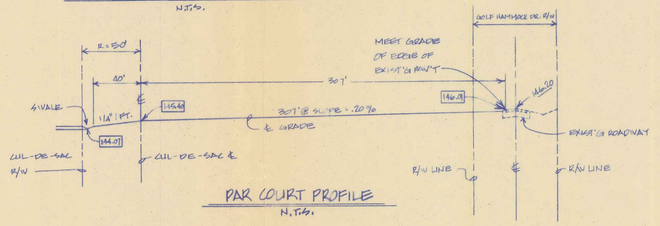
JANUARY 6, 1977

SHEET 1 OF 2.



BOGEY BLVD. PROFILE
N.T.S.



PAR COURT PROFILE
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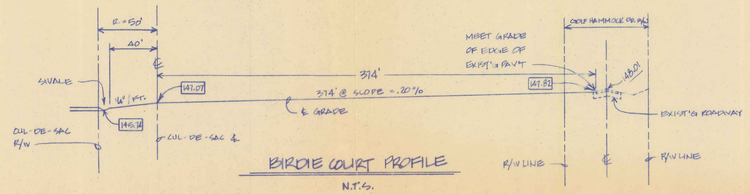

BIRDIE COURT PROFILE
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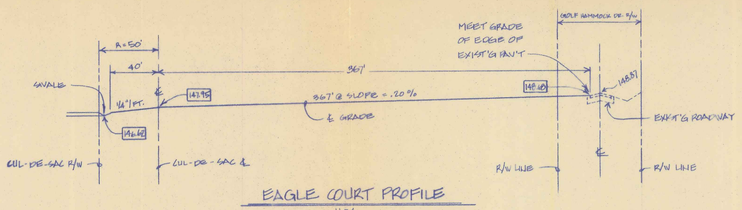
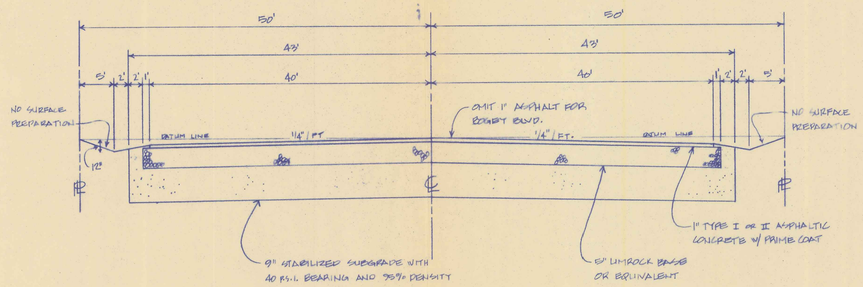


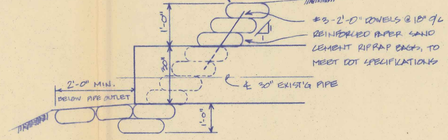
EAGLE COURT PROFILE
N.T.S.

1/2 ROAD PROFILES

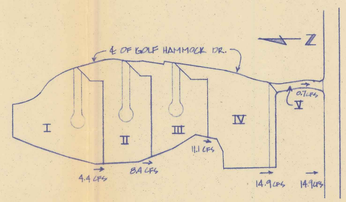


2/2 TYPICAL CUL-DE-SAC CROSS-SECTION
N.T.S.

NOTE:
HEADWALL LENGTH 10'



3/2 TYPICAL CULVERT HEADWALL
N.T.S.



4/2 STORM DRAINAGE DESIGN - (5 YEAR STORM)
N.T.S.

DRAINAGE AREA DISCHARGE:

Area	Pervious Area (c=.10)	Impervious Area (C=.80)	Time of Conc.	Intensity	Cumulative Discharge (CFS)
I	5.00	0.80	24	3.9	4.4
II	5.11	0.69	26	3.8	8.4
III	4.65	0.65	31	3.5	11.1
IV	5.94	0.76	33	3.4	14.9
V	0.17	0.13	6	5.8	0.7

CAPACITIES:

1. Roadway swale flow capacity--0.82' depth and 14.6'width, n=.030, mean slope=.002, capacity = 8.2 CFS, and velocity = 1.5 FPS.
2. On-site drainage ditch flow capacity-- 1.00'deep, bottom width 3' and top width 9', n= .030, mean slope = .002, capacity = 7.9 CFS and velocity = 1.8 FPS
3. Off-site drainage ditch flow capacity -- 1.25' depth and 10' width, n=.030, mean slope = .0026, capacity = 20.9 CFS and velocity = 2.5FPS.
4. SR 634 ditch flow capacity -- 4' depth, 4' bottom width, 18' top width and 1:2 bank slopes, n= .030 (when properly maintained), mean slope unknown, capacity = 78 CFS estimated.

CONCLUSIONS:

1. Maximum flow through on-site drainage ditch = 4.4 CFS.
2. On-site drainage ditch capacity = 7.9 CFS, therefore is capable of carrying maximum discharge.
3. Maximum flow through off-site drainage ditch = 14.9 CFS.
4. Off-site drainage ditch capacity = 20.9 CFS therefore is capable of carrying total cumulative discharge.
5. Maximum flow through roadway swale (Area IV = worst condition) ≅ 3.0 CFS.
6. Roadway swale capacity = 8.2 CFS therefore is capable of carrying maximum discharge in this subdivision.

REFERENCES:

1. DOT Drainage Design Manual
2. Data Book for Civil Engineers-- Design, Seelye
3. Sewerage and Sewage Treatment, Babbitt and Baumann
4. Highway Engineering, Ritter and Paquette
5. Standard Handbook for Civil Engineers, Merritt
6. Highlands County Subdivision Regulation, Ordinance No. 73-3

5/2 HIGLANDS COUNTY ASSISTANT COUNTY ENGINEER IMPROVEMENT PLAN CHECKLIST

1. 2 SHEETS, EACH 24"x36"
2. SEE TITLE BLOCKS
3. SEE APPROVED PLAT BY N. DALE THOMAS, PLS
4. SEE ⊕
5. SEE ⊕ AND ⊕ *1 & 2
6. SEE ⊕ AND ⊕ *1
7. SEE ⊕
8a.-8e. SEE ⊕
8f. SEE ⊕ AND ⊕
8g. SEE ⊕ AND ⊕
8h. SEE ⊕ AND ⊕
8i. SEE ⊕ AND ⊕
8j. SEE ⊕
9a. SEE ⊕ AND ⊕
9b. SEE ⊕ AND ⊕
9c. SEE ⊕ *3
9d. SEE ⊕ AND ⊕
9e. SEE ⊕
9f. N/A
9g. N/A
9h. SEE ⊕ AND ⊕
9i. SEE ⊕
9j. SEE ⊕, ⊕ AND ⊕
9k. SEE ⊕ AND ⊕
9l. SEE ⊕
9m. SEE ⊕ *4
9n. SEE ⊕
9o. SEE ⊕ *5
9p. SEE ⊕
9q. thru 9u. N/A
9v. SEE ⊕ AND ⊕
9w. thru 9aa. N/A
9bb. SEE ⊕
9cc. thru 10. N/A

NOTES:

1. All elevations existing and proposed are based on USC and GS mean sea level datum, M.S.L.
2. Existing ground elevations are shown on the plan as contour intervals.
3. This subdivision shall in the future receive no drainage runoff from any other areas.
4. Structures have no conflicts with existing utilities.
5. All underground utilities shall be installed prior to placement of the road base.
6. Utility poles shall be no less than 6' from the edge of any road pavement.

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PAVING AND DRAINAGE DETAILS
GOLF HAMMOCK, SEBRING
FOR: AMERICAN HOME SERVICE CORP.

ROBERT H. MILLER AND ASSOCIATES, ENGINEERS
4431 S.W. 64TH AVE. FT. LAUDERDALE, FL 33314
APPROVED: Robert H. Miller
FLA. REG. NO 10408

PROJECT NO 077-1-77
JANUARY 6, 1977
SHEET 2 OF 2