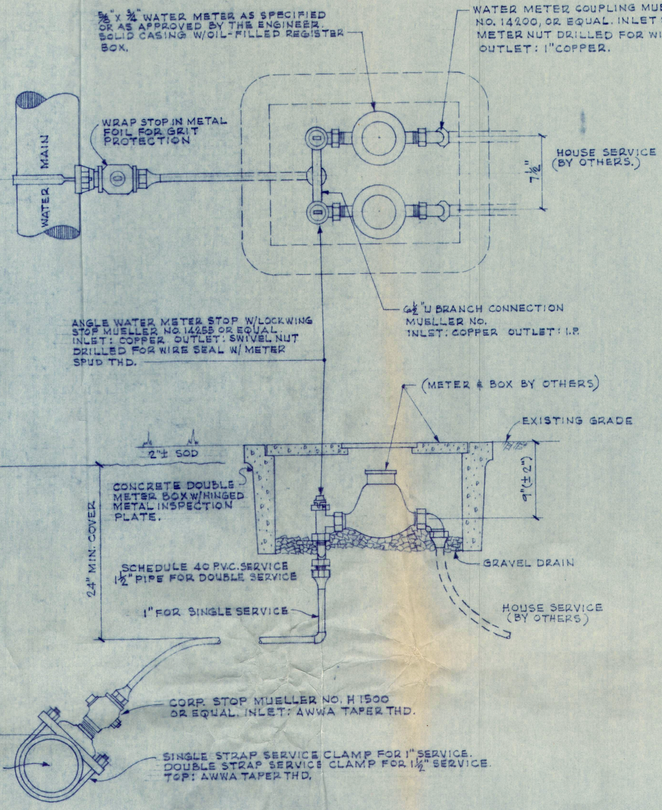
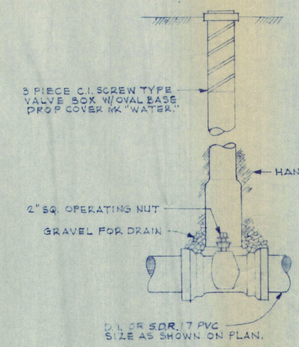
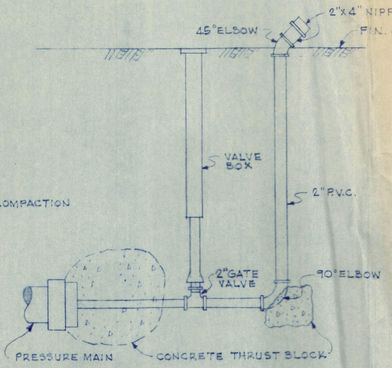
RECEIVED
AUG 16 1976
TOWN OF
LONGBOAT KEY



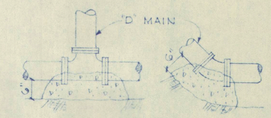
TYPICAL METERED SERVICE DETAILS



VALVE DETAIL



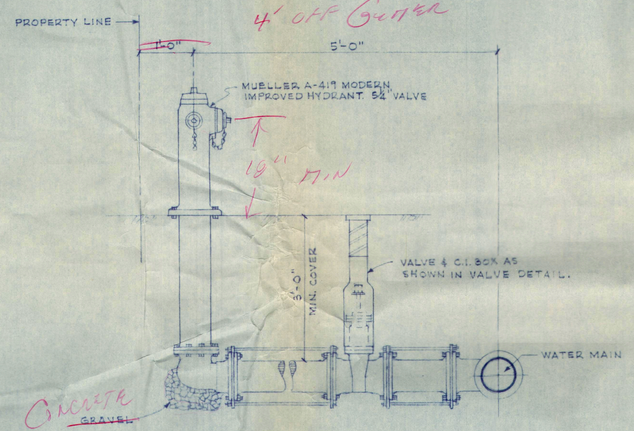
TYPICAL BLOWOFF DETAIL



THRUST BLOCK AREA DETERMINED BY CONCRETE CONTACT WITH UNDISTURBED MATERIAL.

THRUST BLOCK AREAS IN SQ. FT.				
PIPE SIZE	TEE	90° BEND	45° BEND	22½° BEND
4	1.5	2.0	1.0	1.0
6	4.0	5.5	3.0	1.5
8	7.0	10.0	5.5	3.0
10	10.0	14.0	7.0	5.0

PRESSURE MAIN THRUST BLOCKS



TYPICAL FIRE HYDRANT

BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS SARASOTA FLORIDA

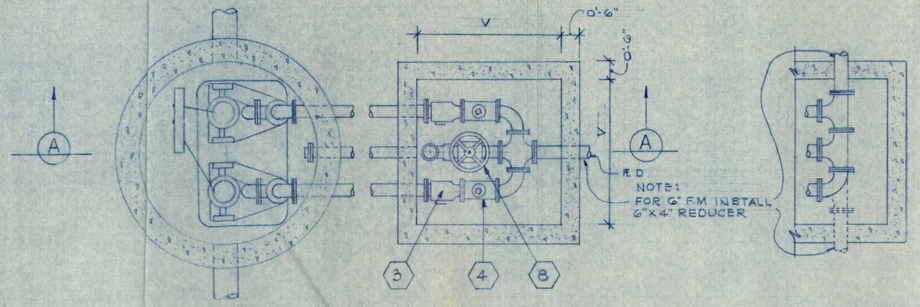
DATE	DESCRIPTION	BY
7/21/75	REVISED PER COMMENTS	G.L.B.
10/15/75	ADDED FIRE HYDRANT LOCATION	G.L.B.
11/5/75	REVISED DETAILS RETYPED	G.L.B.

DATE	7/21/75
SCALE	AS NOTED
DESIGN	G.L.B.
DRAWN	G.L.B.
CHECK	
APPROVED	

ARVIDA CORPORATION
BAY ISLES
LONGBOAT KEY
PHONE 388-2178

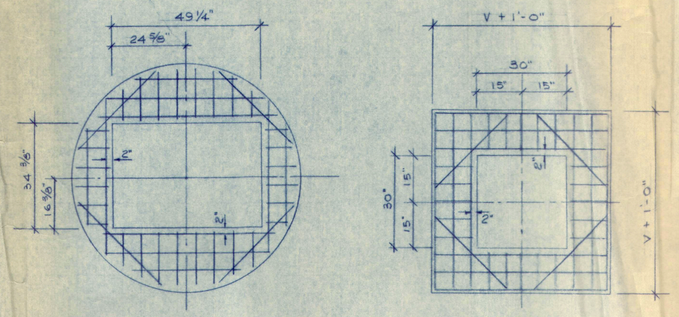
WATER SUPPLY DETAILS

DWG. No
191-080

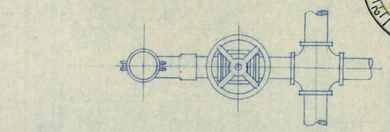


PLAN

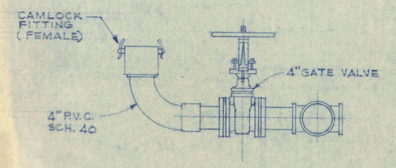
AUXILIARY PLAN
LEFT OR RIGHT
DISCHARGE



STEEL PLACEMENT IN COVERS

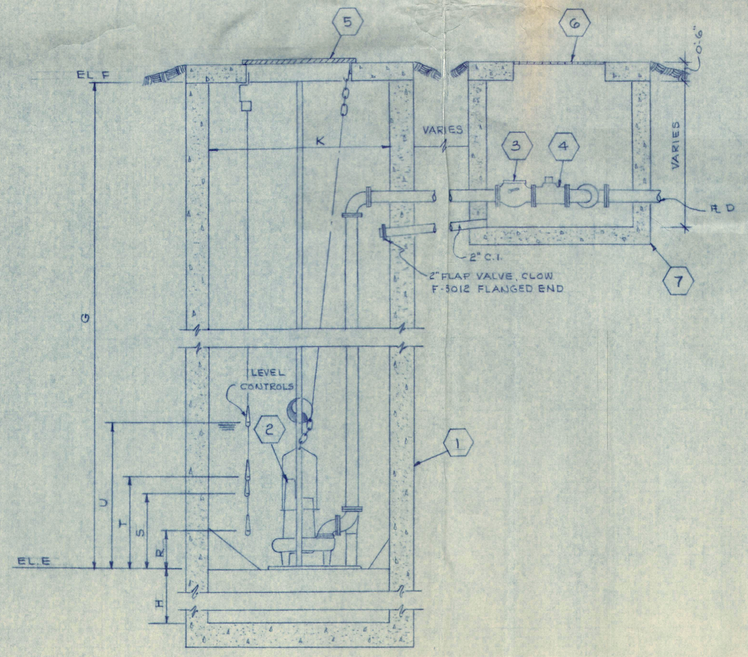


PLAN

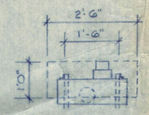


ELEVATION

AUXILIARY
PUMPING
DETAIL

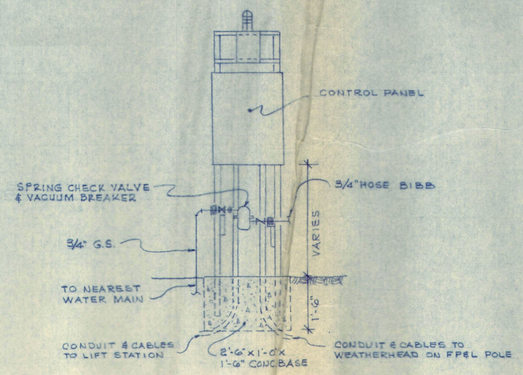


SECTION (A)



PLAN

LOCATION AS SHOWN ON
DWG# 191-065 LS 4F BAY ISLES UNIT Nº 1
DWG# 191-143 LS 6F BAY ISLES UNIT Nº 2



ELEVATION

CONTROL PANEL

MATERIAL SCHEDULE

Item	Description
1.	Precast Concrete Wet Well NOTE: Shop Drawings Required
2.	Pumps, Hydr-O-Matic, See Schedule
3.	Check Valve 4" Unless Otherwise Noted
4.	Eccentric Plug Valve 4" Unless Otherwise Noted
5.	Access Hatch Cover 4'-0" x 2'-6" Opening, Hydro-O-Matic
6.	Access Hatch Cover, 2'-6" x 2'-6" Opening, Bilco Type J-2, SS Fastenings
7.	Precast Concrete Valve Vault NOTE: Shop Drawings Required
8.	Auxiliary Pump Connection, See Detail

SCHEDULE OF LIFT STATION DATA

LIFT STATION NO.	"4F"	"6F"
A Type		
B Inf. Pipe Size	8"	10"
C Fl. Line In	-8.20	-8.60
D Fl. Line Out FM	4.0	2.0
E LS Inv.	-12.20	-12.60
F Grd. Elev.	7.0	5.20
G Depth to Inv.	19.2	17.80
H Depth of Ballast	1.50	1.50
J Cy Ballast	1.09	1.09
K Barrel Dia. Ft.	5'	5'
L Pump Model	S300	S300
M HP	3.0	3.0
N RPM	1750	1750
P Volt/Phase	230/3	230/3
Q FM Size	6"	6"
R Off	1.0	1.0
S 1 Pump	1.9	1.9
T 2 Pumps	2.4	2.4
U H.W. Alarm	4.0	4.0
V Valve Vault	4.0	4.0

AUG 16 1976
TOWNSEND
LONGBOAT KEY

BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS SARASOTA FLORIDA

DATE	BY	DESCRIPTION
9/5/76	W.J.S.	ADD LS 6F DATA
11/24/75	G.L.B.	REVISE LIFT STATION DETAILS & PUMPING DETAIL

DATE 6-5-75
SCALE N.T.S.
DESIGN W.F.B.
DRAWN W.J.S.
CHECK
APPROVED

ARVIDA CORPORATION
BAY ISLES
LONGBOAT KEY
PHONE 383-2178

LIFT STATION

DWRG. No.
191-071

N32,200.000

N32,000.000

N31,800.000

N31,600.000

N31,400.000

N31,200.000

N31,000.000

BAY ISLES PARKWAY

BAY ISLES PARKWAY

E 37,200.000

E 36,800.000

Scale: 1"=40'

Pines
Aust.
Palms
Oaks
Cabbage

11 - 6"/15" Aust.
9 - 6'-30" Oaks
5 - 6'-12" Cabbage

24" Strang Culvert

30" Strang Culvert

Pines

Aust.

Pines

Cabbage

Palms

Oaks

Pines

Existing ditch

30'

BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS SARASOTA FLORIDA

APPROVED BY

DATE	SCALE	DESIGN	DRAWN	CHECK	APPROVED
11-24-76	1"=40'		E.N.B.		

REVISED	DATE	BY	DESCRIPTION

ARVIDA CORPORATION

BAY ISLES Unit #2

Filed
APR 15 1977
CLERK OF CIRCUIT COURT

DWRG. No.

191-207

ARVIDA CORPORATION
BAY ISLES
LONGBOAT KEY
PHONE 388-2178

DWG. No. 191-14

DATE	3-29-76
SCALE	NOTE 1"=5' VERT. 1"=5'
DESIGN	G.L.B.
DRAWN	W.J.S.
CHECK	

REVISED		
12/14/76	REVISED SAN. SEWER PROFILE	G.L.B.
10/27/76	REVISED SAN. SEWER PROFILE	G.L.B.
8/6/76	ADDED ORIGINAL GRADE	G.L.B.

BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS SARASOTA FLORIDA

Required Drainage Improvements Revised per Letter from Sidebottom Engineering Co. to Steedle Dated 1-3-77 DRF

RECEIVED
DEC 22 1976
TOWN OF LONGBOAT KEY

UNIT NO. 2

BLOCK A
BLOCK B
BLOCK C
BAYOU WAY
BAYOU ROAD
BAYOU SOUND
DWG # 191-137
DWG # 191-141
DWG # 191-138
MATCH TO
PC 1+50
PT 4+01.78
PC 6+55.85
PT 7+73.18
CONST 30" OF 18" R.C.P. @ 0.80%
CONST 180' OF 21" RC.P. @ 0.55%
CONST 4'x4' INLET INV. 1.55
CONST 4'x4' INLET INV. 1.20 E INV. 1.40 W
CONST E.W. INV. 0.32
CONST 6" PVC
CONST VALLEY GUTTER SEE DWG # 191-076 FOR DET.
EXIST. & PROP. GRADE
ORIGINAL GRADE
MH GF29 INV. -1.42 E&W
MH GF23 INV. -1.42 N
MH GF27 INV. 1.23
MH GF26 INV. 1.17
MH GF24 INV. +2.15
MH GF22 INV. +2.09
MH GF21 INV. -3.20
MH GE8 INV. +6.25
DROP
320' 8" V.C. @ 1.00%
350.94' @ 0.30%
72' 8" P.V.C. @ 1.00%
346.46' @ 0.30%
245± 8" V.C. @ 1.00%
342.04' @ 0.30%
160± 8" V.C. @ 1.00%
220' 8" V.C. @ 1.38%

BLOCK B

STA. 44+00
P.T. 44+07.24
CONST 45' OF 18" R.C.P. @ 0.22%
CONST 5'-4"X4' INLET INV. 0.65 W
INV. 1.45 N
CONST 45' OF 18" R.C.P. @ 0.22%
P.C. 45+50.87
P.T. 46+53.55
CONST 310' OF 30" RCP @ 0.10%
DWG.# 191-139
10" P.V.C.
6" G.V.
CONST 4'X4' INLET INV. 1.55
MATCH TO +
MATCH LINE SEE DWG.# 191-140
BAYOU
BAYOU COURT
MHGF17
CONST 4'X4' INLET INV. 1.55
THIS DWG
+
CIRCLE
MHGF16
MATCH TO +
BAYOU SOUND
BLOCK D

BLOCK D

BAYOU CIRCLE
THIS DWG.
MHGF17
MHGF18
6" P.V.C.
6" G.V.
MATCH TO +
BAYOU COURT

BLOCK A

BAYOU SOUND
DWG.# 191-140
F.H.
MHGF9
MHGF10
6" P.V.C.
6" G.V.
B.O.
MATCH TO +
BAYOU CIRCLE
BAYOU POINTE

DEC 22 1978
TOWN OF LONGBOAT KEY

81.65' @ 0.30%
EXIST. & PROP. GRADE
ORIGINAL GRADE
30" RCP
200' 8" V.C @ 0.40%
297'± 8" V.C @ 0.50%
MHGF17 INV. 1.20
MH GF6 INV. -2.69

218' @ 0.30%
EXIST. & PROP. GRADE
ORIGINAL GRADE
18" R.C.P.
218' 8" V.C @ 1.08%
MHGF17 INV. 1.80
MH GF8 INV 1.15

129.56' @ 0.30%
EXIST. & PROP. GRADE
ORIGINAL GRADE
110' 8" V.C @ 1.15%
MH GF9 INV 0.24
MH GF10 INV. 1.59

BLOCK B

DWG.# 191-138
MHGF4
CONST 300' OF 42" R.C.P @ 0.14%
MHGF20
B.O.
CONST E.W. INV. -1.49
CONST 24' OF 42" R.C.P @ 0.16%
TEMPORARY DITCH SEE DWG.# 191-134
CONST. 5'-4"X4' INLET INV. -1.45
BAYOU SOUND
MATCH TO +
BAYOU GATE

BLOCK B

DWG.# 191-139
MHGF5
MHGF19
6" P.V.C.
6" G.V.
MATCH TO +
BAYOU SOUND
BAYOU LANE

BLOCK C

DWG.# 191-142
MHGF24
MHGF25
6" P.V.C.
6" G.V.
B.O.
BAYOU ROAD
F.H.
MATCH TO +
BAYOU WAY

248' @ 0.30%
EXIST. & PROP. GRADE
ORIGINAL GRADE
42" R.C.P.
232' 8" V.C. @ 1.00%
DROP MH GF4 INV. - 5.03 NAS INV. - 2.40 E
MH GF20 INV. 0.52

248.31' @ 0.30%
EXIST. & PROP. GRADE
ORIGINAL GRADE
292' 8" V.C. @ 1.00%
DROP MH GF5 INV. - 3.67 NAS INV. - 1.28 E
MH GF19 INV 1.24

155' @ 0.30%
EXIST. & PROP. GRADE
ORIGINAL GRADE
155' 8" V.C. @ 0.65%
MH GF24 INV. 0.65
MH GF25 INV. 1.50

BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS
SARASOTA FLORIDA
APPROVED BY

REVISIONS		
12/14/76	REVISED SAN. SEWER GRADES	G.L.B.
10/28/76	REVISED SAN. SEWER GRADES	G.L.B.
8/26/76	ADDED ORIGINAL GRADE	G.L.B.

DATE	8-2-76
SCALE	HOR. 1"=40' VERT. 1"=4'
DESIGN	G.L.B.
DRAWN	W.J.G.
CHECK	
APPROVED	

ARVIDA CORPORATION
BAY ISLES
PLAN & PROFILE
UNIT NO. 2
LONGBOAT KEY
PHONE - 388-2178

DWRG. No.
191-141

DWG. No. 191-143

LONGBOAT KEY

ARVIDA CORPORATION
BAY ISLES
PLAN & PROFILE

PHONE 388-2178

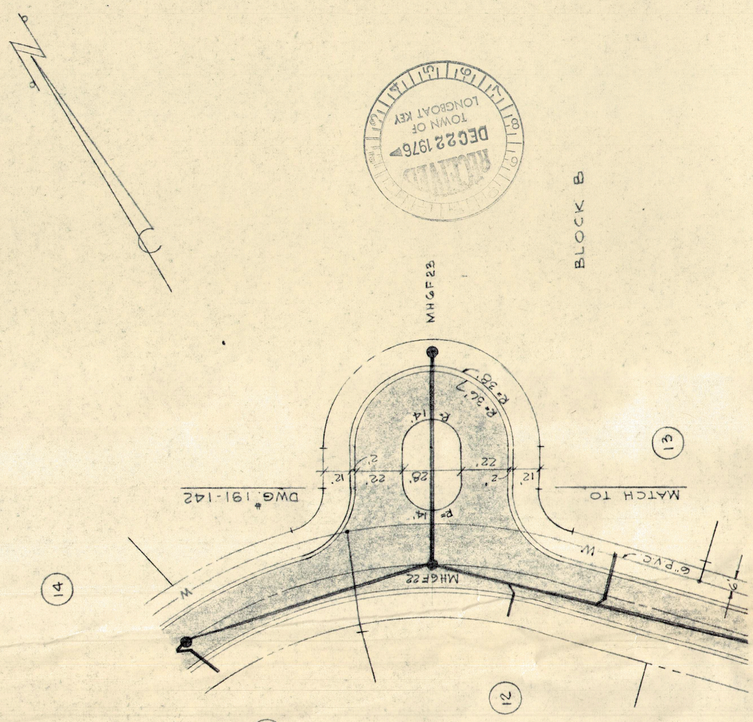
DATE	3-29-76
SCALE	HORZ. 1"=40' VERT. 1"=4'
DESIGN	G.L.B.
DRAWN	W.J.G.
CHECK	
APPROVED	

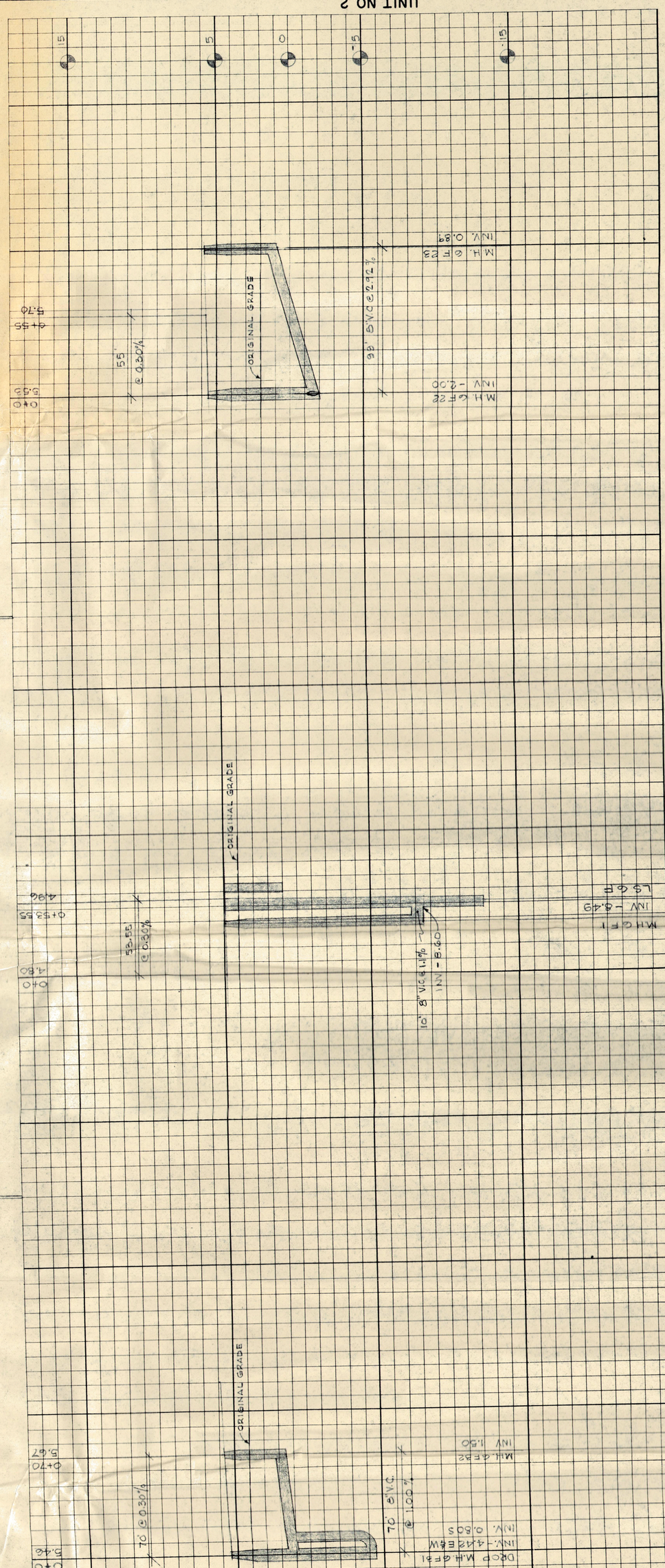
DATE:	DESCRIPTION	BY
12/14/76	REVISED SAN. SEWER GRADE	G.L.B.
10/27/76	REVISED SAN. SEWER GRADES	G.L.B.
8/9/76	ADDED ORIGINAL GRADE	G.L.B.
7/30/76	REV. P.V.C. FM. TO D.I. F.M.	G.L.B.

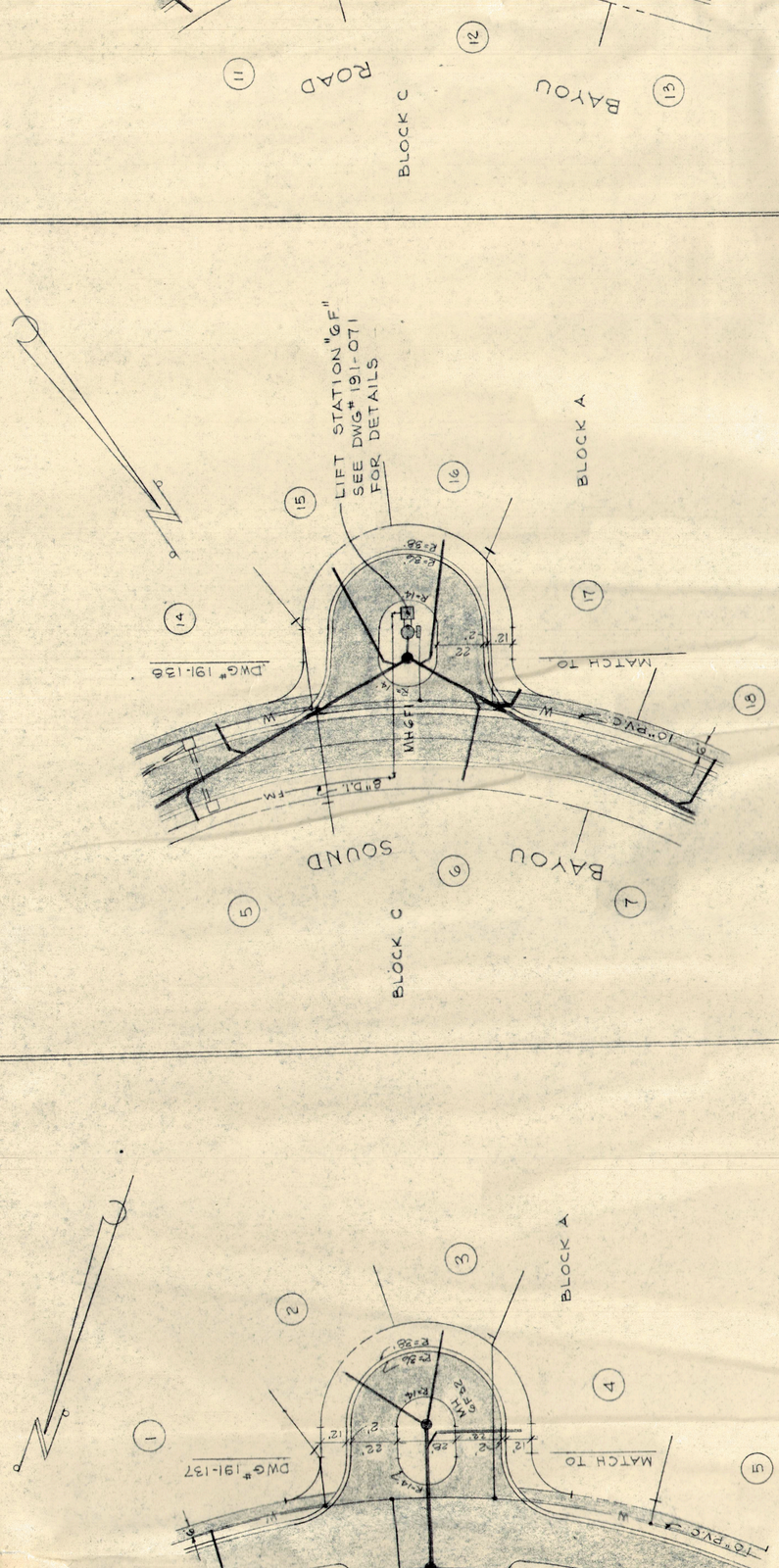
BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS SARASOTA FLORIDA

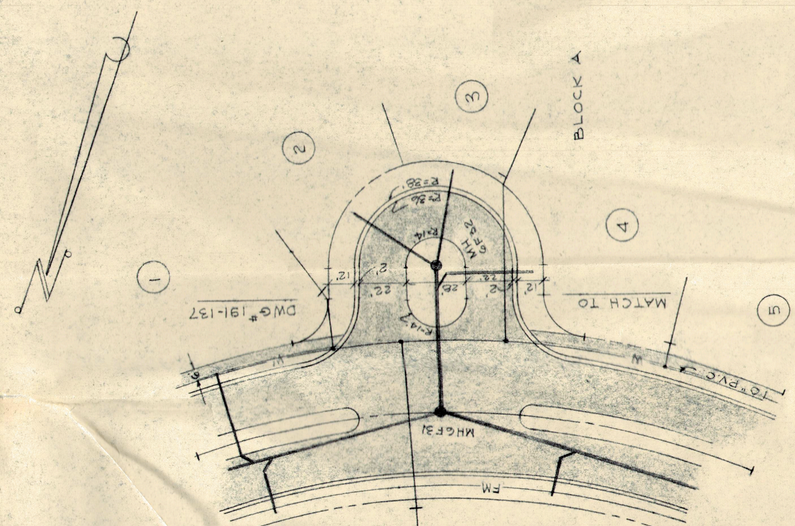
APPROVED BY

UNIT NO. 2









BLOCK A

BLOCK C

BAYOU

BLOCK B

SOUND

BAYOU ROAD

BAYOU GATE

BLOCK B

+ DWG # 191-143

CONST. VALLEY CROSSING

W 10" P.V.C. ♂

F.H.

P.T. 15+25.11

P.C. 16+84.23

BICYCLE PATH SEE DWG# 191-078 FOR CONST DETAILS

P.T. 17+85.46

CONST 45' OF 18" R.C.P. @ 0.30%

CONST 5'-4'X4' INLET INV 1.41E INV 1.01N

CONST 45' OF 18" RCP @ 0.30%

CONST 305' OF 24" R.C.P. @ 0.81%

CONST "J" BOX INV 0.07 S INV - 1.03 N & E

MATCH LINE STA. 22+0 SEE DWG# 191-139

MATCH TO

CONST 4'X4' INLET INV. 1.03 E INV. 1.49 N

MATCH LINE STA 11+0 SEE DWG# 191-137

P.C. 10+63.65

CONST 30' OF 18" R.C.P @ 0.20%

CONST 4'X4' INLET INV. 1.55

CONST 4'X4' INLET INV 1.55 MATCH TO

CONST 4'X4' INLET INV. 1.55

+ DWG # 191-142

MATCH TO +

+ DWG # 191-141

MH6F1

MH6F2

MH6F3

MH6F4

MH6F5

MH6F6

L.S. 5.2+

P.S.

F.M.

6" G.V.

6" P.V.C.

R=32'-7"

E=30'-7"

W

S

N

E

11+0 4.70

11+57.87 4.50

12+0 4.23

12+57.87 4.80

13+0 4.38

14+0 5.23

14+84.46 5.46

15+0 5.43

16+0 5.18

17+0 4.85

18+0 4.50

18+10.46

19+0 4.77

20+0 5.07

21+0 5.37

21+10.46 5.40

22+0 5.12

57.87' @ 0.33%

326.59' @ 0.30%

326' @ 0.30%

300' @ 0.30%

89.54' @ 0.31%

EXIST. & PROP. GRADE

ORIGINAL GRADE

24" R.C.P.

42" R.C.P.

2" P.I. F.M.

250'± 8" V.C. @ 0.40%

250' 8" V.C. @ 0.40%

315'± 8" V.C. @ 0.40%

300' 8" V.C. @ 0.40%

291'± 8" V.C. @ 0.40%

MH 6F1 INV. - 8.45

MH 6F2 INV. - 7.49

MH 6F3 INV. - 6.23

MH 6F4 INV. - 5.03 N & S INV. - 0.65

DROP

UNIT NO. 2

ARVIDA CORPORATION

BAY ISLES

LONGBOAT KEY

PHONE 388-2178

PLAN & PROFILE

DWRG. No. 191-138

BENNETT & BISHOP

CONSULTING ENGINEERS & SURVEYORS SARASOTA FLORIDA

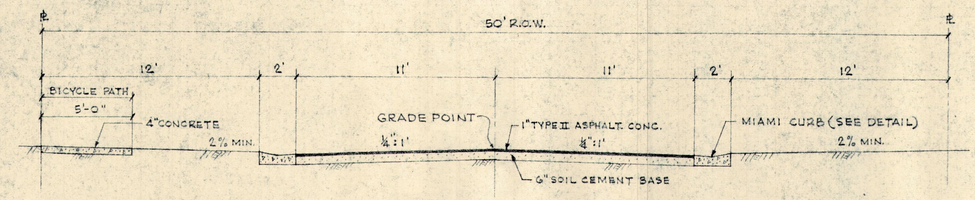
APPROVED BY

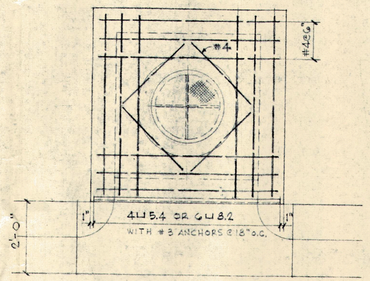
DATE	DESCRIPTION	BY
12/14/76	REVISED INV. & M.H. 6F5	G.L.B.
10/28/76	REVISED F.H. LOCATIONS	G.L.B.
8/12/76	ADDED F.M. PROFILE	G.L.B.
8/1/76	ADDED ORIGINAL GRADE	G.L.B.
7/30/76	REV. P.V.C. F.M. TO D.I. F.M.	G.L.B.

REVISIONS

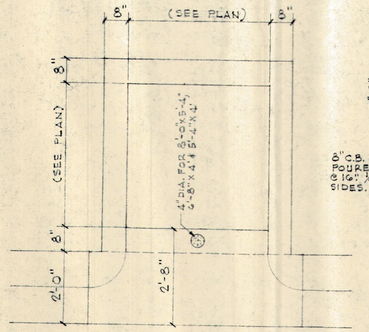
DATE	3-29-76
SCALE	HORIZ. 1"=40' VERT. 1"=4'
DESIGN	G.L.B.
DRAWN	M.J.G.
CHECK	
APPROVED	

DEC 22 1976 CLERK OF CIRCUIT COURT MANATEE COUNTY, FLA.

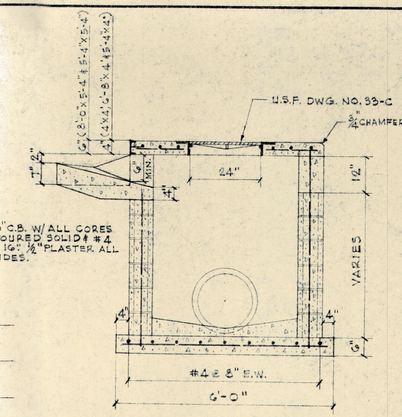




PLAN - COVER



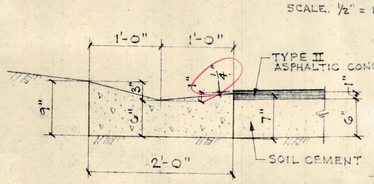
PLAN - COVER REMOVED



SECTION

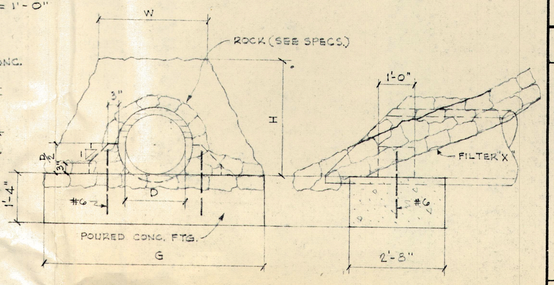
TYPICAL CURB INLET
STANDARD

SCALE: 1/2" = 1'-0"



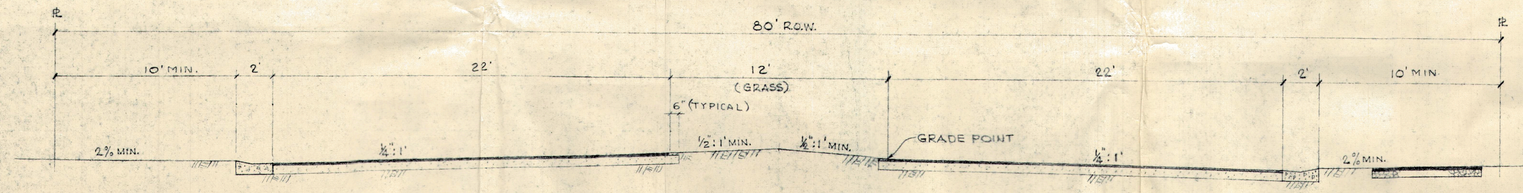
CONSTRUCTION JOINTS SHALL BE AT 10' o.c.
1/2" PREMOLDED EXP. JOINTS @ 40' O.C.

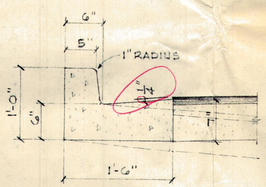
MIAMI CURB
SCALE: 1"=1'-0"



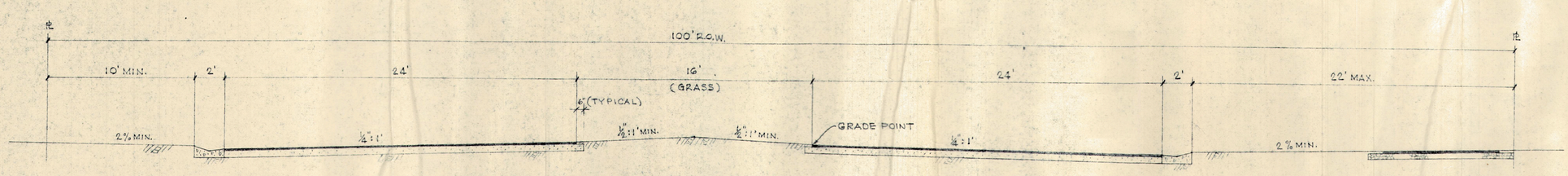
TYPICAL ENDWALL

DIMENSIONS			
D	G	W	H
18" OR 14"x 23"	6'-0"	2'-11"	3'-1"
21"	6'-6"	3'-2"	3'-4"
24" OR 19"x 30"	7'-0"	3'-5"	3'-7"
27"	8'-0"	4'-1"	3'-11"
30" OR 24"x 38"	9'-0"	4'-10"	4'-2"
33" OR 27"x 42"	10'-0"	5'-7"	4'-5"
36" OR 29"x 45"	11'-0"	6'-3"	4'-9"
42" OR 34"x 53"	12'-0"	6'-11"	5'-3"
48" OR 38"x 60"	14'-0"	8'-2"	5'-10"
54" OR 43"x 68"	16'-0"	9'-6"	6'-4"
60" OR 48"x 76"	17'-0"	10'-11"	6'-11"



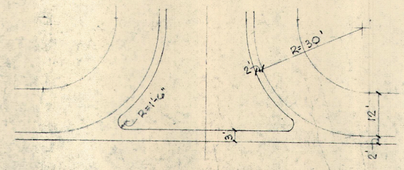


TYPE "H" CURB
SCALE: 1"=1'-0"



TYPICAL ROAD SECTIONS
SCALE: 1/4" = 1'-0"

NOTE: 1. VARY ROAD ℄ LOCATION TO PRESERVE QUALITY TREES
2. SEE SASAKI - WALKER PLAN FOR LOCATION OF PEDESTRIAN & BICYCLE PATHS.



VALLEY CROSSING
SCALE: 1"=20'

REVISIONS			
DATE	DESCRIPTION	BY	
11/6/75	REVISED BICYCLE PATH DETAIL	S.L.B.	
11/20/75	REVISED JUNCTION BOX	S.L.B.	
12/17/75	REVISED TYPICAL ENDWALL	S.L.B.	
12/31/75	REVISED TYPICAL ENDWALL	S.L.B.	

DATE 7/7/75
SCALE AS NOTED
DESIGN S.L.B.
DRAWN S.L.B.
CHECK
APPROVED

APPROVED BY:

BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS SARASOTA FLORIDA
PHONE 388-2178

ARVIDA CORPORATION
BAY ISLES
LONGBOAT KEY

STREET & DRAINAGE DETAILS

DWG. No.
191-078

BAY ISLES

GENERAL MASTER PLANS

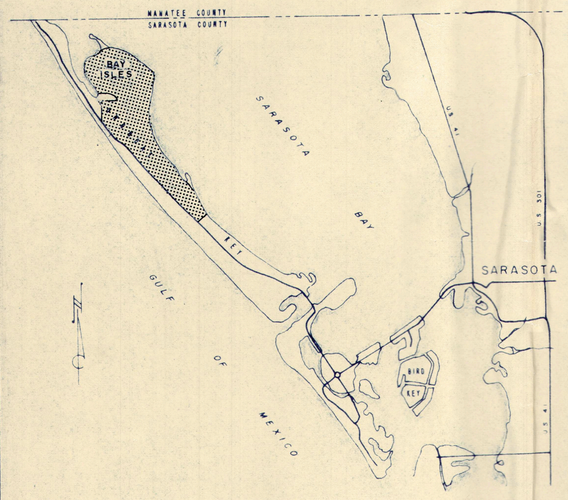
ARVIDA CORPORATION

301 Gulf of Mexico Drive - Sarasota, Florida

BENNETT & BISHOP

Consulting Engineers & Surveyors

Sarasota, Florida



LOCATION MAP

INDEX

No.	Name
191 - 074	SANITARY SEWERAGE MASTER
191 - 075	WATER SUPPLY MASTER
191 - 076	STREET & DRAINAGE MASTER
191 - 077	BICYCLE PATH MASTER
191 - 078	STREET & DRAINAGE DETAILS
191 - 079	SANITARY SEWERAGE DETAILS
191 - 080	WATER SUPPLY DETAILS

OFFICE COPY

Bay Isles Unit # 2

SUBMITTED AS PRELIM SUB DIVISION

REVIEW WAS FOR PRELIM SUBDIVISION ONLY

M+C 4-30

TOWN OF LONGBOAT KEY
REVIEWED BY:
BUILDING INSPECTOR
PLUMBING INSPECTOR
ELECTRICAL INSPECTOR
UTILITIES
PUBLIC WORKS
ENGINEERS
FIRE
Police

APR 02 1976
LONGBOAT KEY

LEGEND

- 8" V.C. PIPE & M.H., UNLESS NOTED
- (+5) APPROX. GRADE
- -1.2 PIPE INVERT

LIFT STATION DATA

STATION	UNITS	FLOW (GPM) AVERAGE	FLOW (GPM) DESIGN
L.S."4F"	489	76	306
"5F"	500+com.	97	388
"6F"	126+club	46	184
"7F"	1,760	275	688
"8F"	333	52	208

Scale: 1" = 400'

BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS
SARASOTA FLORIDA

APPROVED BY

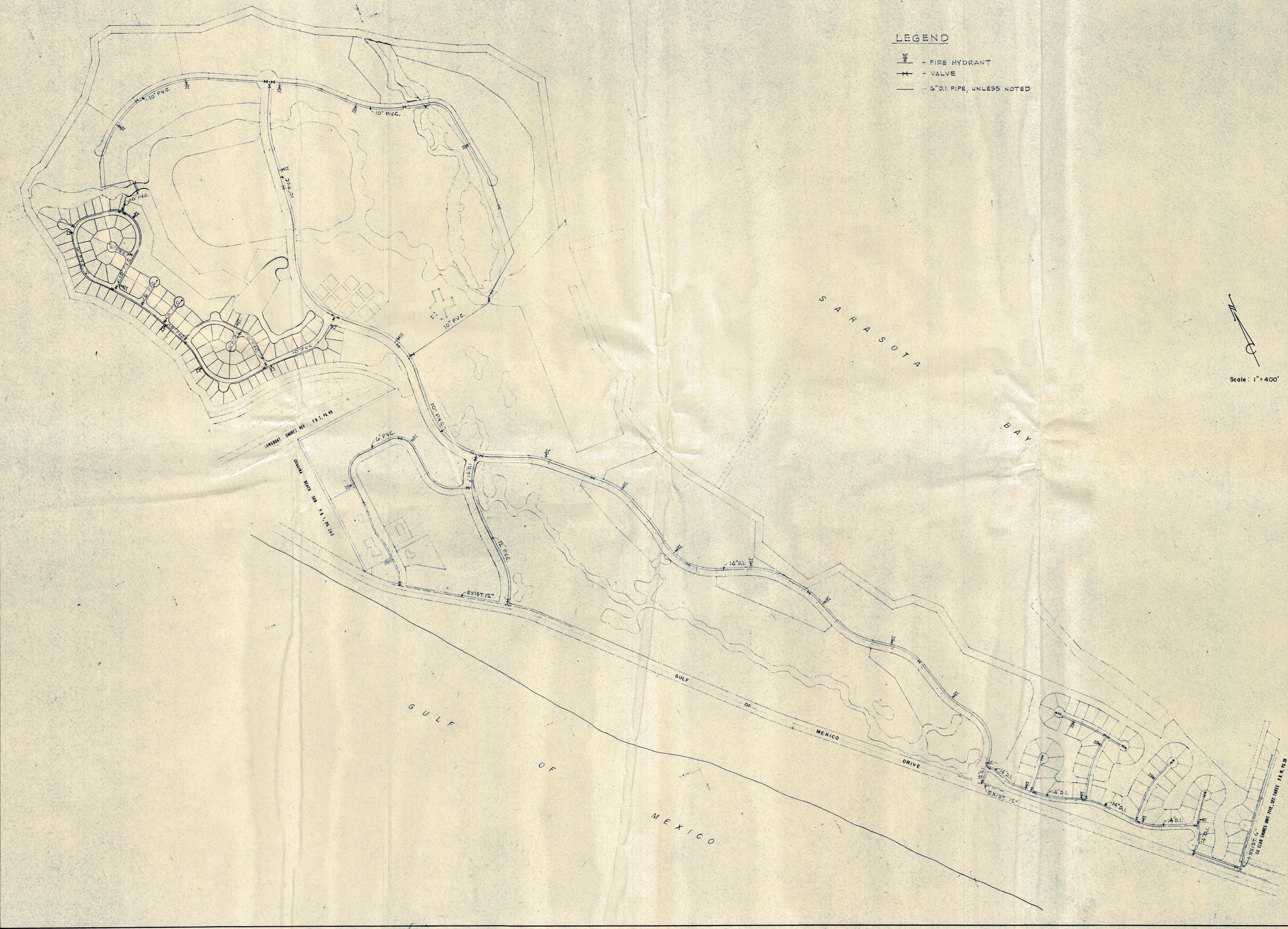
REVISED	DATE	BY
2-17-75	SHOW UNIT 2 SANITARY SEWERS & MISC. CHG.	G.L.B.
10-17-75	ADDED 8" V.C. PIPE IN COMM. AREA	G.L.B.

DATE	8/15/75
SCALE	1" = 400
DESIGN	G.L.B.
DRAWN	G.L.B.
CHECK	
APPROVED	

ARVIDA CORPORATION
BAY ISLES
LONGBOAT KEY
PHONE 383-2178

SANITARY SEWERAGE MASTER

DWRG. NO.
191-074



BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS SARASOTA FLORIDA

REVISED
2/17/75 Ramada Inn, Commercial Area
2/21/75 Revised Hope Island Loop

DATE 7/31/75
SCALE 1"=400'
DESIGN G.L.B.
DRAWN G.L.B.
CHECK

ARVIDA CORPORATION
BAY ISLES
LONGBOAT KEY PHONE 383-2178

WATER SUPPLY MASTER

DWRG. NO.
191-075

H.R.-A Area East of Mud Lake

	A	x	C	=	AC
H.R.-A portion	15.8		0.6		9.5
Golf Course portion	4.2		0.15		0.6
Pond	1.6		1.0		1.6
TOTAL	21.6		0.54		11.7

For Weirs #1, #2, #3, #4 (Sum of Areas)	A	x	C	=	AC
South Single Fam.	26		0.4		10.4
Seaplace Condo. (x-ing)	40		0.6		24.
Commercial Area	61.3		0.65		39.8
Boat Basin Comm. +	10.7		0.6		6.4
So. 80' Rd RW	11		0.75		8.2
M.F. Area Port. (A,B,C,D,E,F)	51.9		0.6		31.1
So. Golf Course	123.5		0.15		18.5
So. Golf Course Ponds	19.4*		1.0		19.4
Club Hse. + Parking	10.8		0.75		8.1
Part of 100' R.W.	6.5		0.75		4.9
Tennis Area	5.9		0.7		4.1
M.F. Area Port. G, L + Townhouse	39.9		0.6		23.9
M.F. Area Port. H.I.K. + HR-B	48.9		0.6		29.3
H.R.-C	20.0		0.6		12.0
M.F.-J	15.5		0.6		9.3
No. Golf Course	65.7		0.15		9.9
No. Golf Course Ponds	29.3*		1.0		29.3
TOTAL	586.3		0.49		288.6

*Ponds = 48.7 ac

Scale: 1" = 400'

BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS SARASOTA FLORIDA
APPROVED BY

REVISED	DATE	BY
5-26-76	Rev. to units MF & C.P.	J.J.B.
12/7/15	Removed Acres in Commercial Area	J.L.B.
12/17/15	ADDED 2.6AC F.W. 20' FUTURE ADD. R/W	G.L.B.

DATE	8-25-75
SCALE	1" = 400'
DESIGN	J.L.B.
DRAWN	J.C.
CHECK	J.C.
APPROVED	(GF)

ARVIDA CORPORATION
BAY ISLES
PHONE 388-2178
LONGBOAT KEY

STREET & DRAINAGE MASTER

DWRG. NO.
191-076

NOTE:

BICYCLE PATH AS SHOWN IS A CONCEPT BASED UPON PROVISIONAL DEVELOPMENT PLAN BY SUSAKI-WALKER. ACTUAL LOCATION IS SUBJECT TO APPROVAL AS VARIOUS PHASES ARE SUBMITTED.

Scale: 1" = 400'

BICYCLE PATH

PERIMETER CHANNEL

LONGBOAT SHORES REV. P.B.3, PG.49

ORIGINAL BLOCK 109, P.B.1, PG.183

BOAT BASIN

BOAT BASIN

PERIMETER CHANNEL

SARASOTA BAY

BAY ISLES BLVD.

BICYCLE PATH

OFFICAL BULKHEAD LINE TOWN OF LONGBOAT KEY

BICYCLE PATH

GULF OF MEXICO DRIVE

GULF OF MEXICO

HARBOR CAY LA.

HARBOR CAY PL.

HARBOR POINT RD.

HARBOR COVE CIR.

HARBOR SOUND DR.

CO. CLUB SHORES UNIT FIVE, SEC. THREE P.B. 18 PG. 28

BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS SARASOTA FLORIDA

APPROVED BY

REVISED	DATE	BY
2-3-76	CM	
1-13-75	E.M.B.	

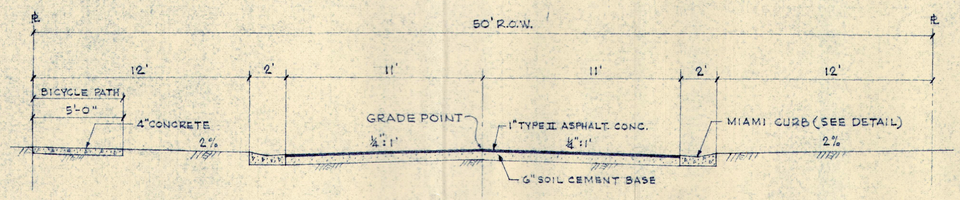
DATE: 12-5-74
SCALE: 1" = 400'
DESIGN:
DRAWN: E. H. B.
CHECK:
APPROVED:

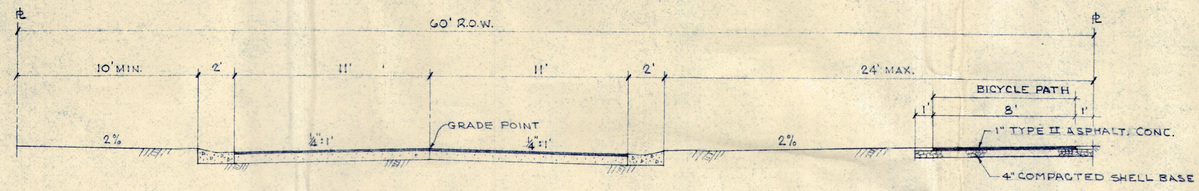
ARVIDA CORPORATION
BAY ISLES
LONGBOAT KEY

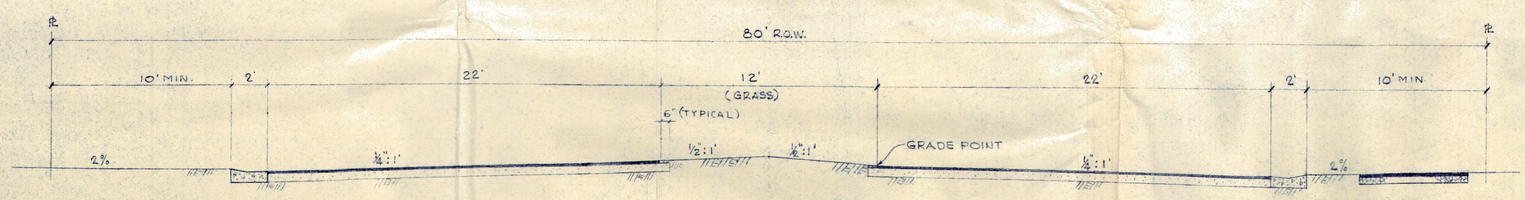
PHONE 388-2178

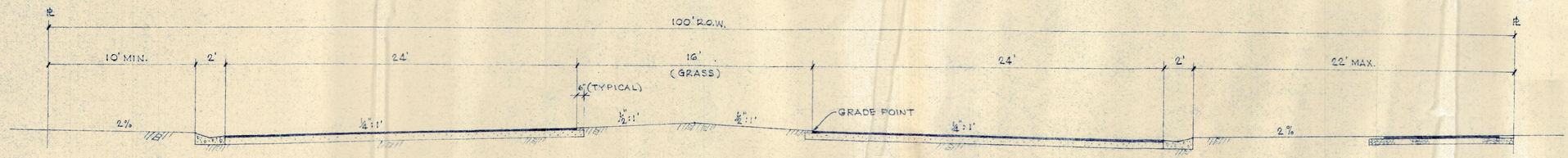
BICYCLE PATH MASTER

DWRG. NO.
191-077





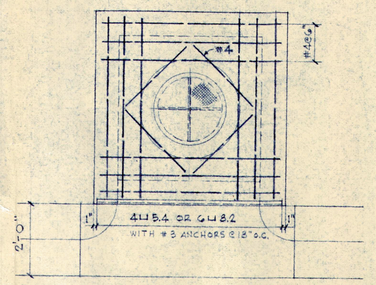




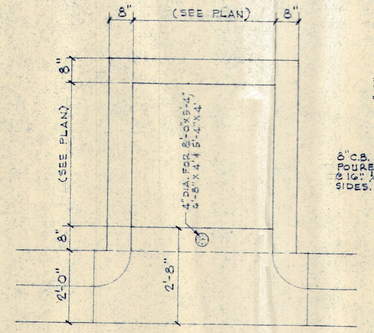
TYPICAL ROAD SECTIONS

SCALE: ¼"=1'-0"

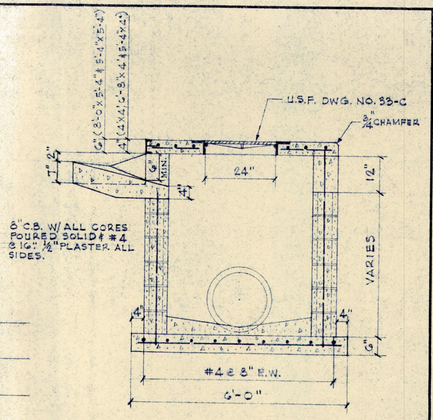
NOTE: 1. VARY ROAD ℄ LOCATION TO PRESERVE QUALITY TREES
2. SEE SASAKI-WALKER PLAN FOR LOCATION OF PEDESTRIAN & BICYCLE PATHS.



PLAN-COVER



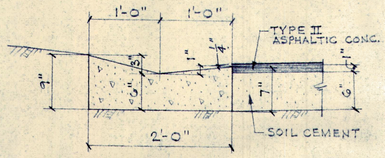
PLAN-COVER REMOVED



SECTION

TYPICAL CURB INLET
STANDARD

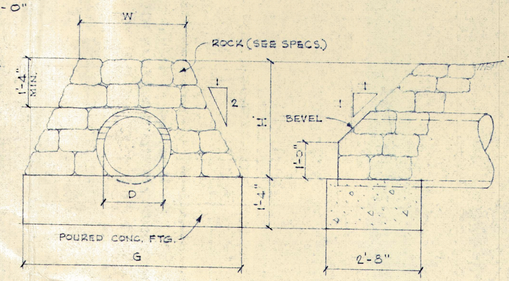
SCALE: ½" = 1'-0"



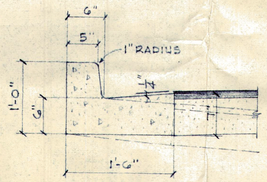
CONSTRUCTION JOINTS SHALL BE AT 10' o.c.
& ½" PREMOLDED EXP. JOINTS @ 40' o.c.

MIAMI CURB

SCALE: 1"=1'-0"



TYPICAL ENDWALL



TYPE "H" CURB

SCALE: 1"=1'-0"

DIMENSIONS			
D	G	W	H
18" OR 14"X 23"	6'-0"	2'-11"	3'-1"
21"	6'-6"	3'-2"	3'-4"
24" OR 19"X 30"	7'-0"	3'-5"	3'-7"
27"	8'-0"	4'-1"	3'-11"
30" OR 24"X 38"	9'-0"	4'-10"	4'-2"
33" OR 27"X 42"	10'-0"	5'-7"	4'-5"
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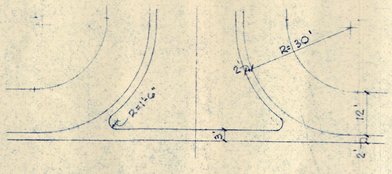
42" OR 34"X 53"	12'-0"	6'-9"	5'-3"
48" OR 38"X 60"	14'-0"	8'-2"	5'-10"
54" OR 43"X 68"	16'-0"	9'-8"	6'-4"
60" OR 48"X 76"	17'-0"	10'-1"	6'-11"



VALLEY CROSSING

SCALE: 1"=20'

BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS
SARASOTA FLORIDA

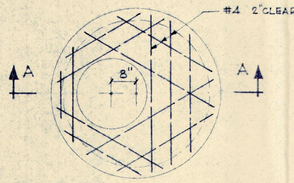
REVISED	DATE	BY
7-26-76	ADDED BICYCLE PATH TO ROW	J.L.B.
8-18-76	ADDED DETAIL OF CURB INLET	J.L.B.
9-15-76	REVISED Rd Sec. No. 3 (Meth. Min.)	J.L.B.
11/12/76	REVISED BICYCLE PATH DETAIL	J.L.B.

DATE	7/7/75
SCALE	AS NOTED
DESIGN	G.L.B.
DRAWN	G.L.B.
CHECK	
APPROVED	

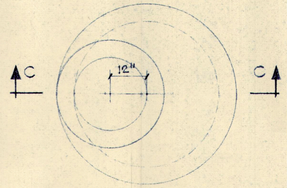
ARVIDA CORPORATION
BAY ISLES
LONGBOAT KEY
PHONE 383-2178

STREET & DRAINAGE DETAILS

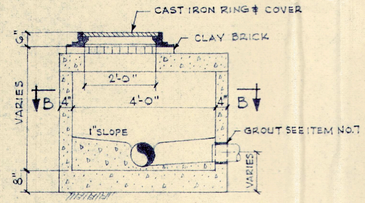
DWRG. No.
191-078



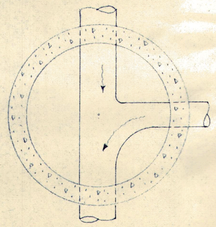
PLAN



PLAN

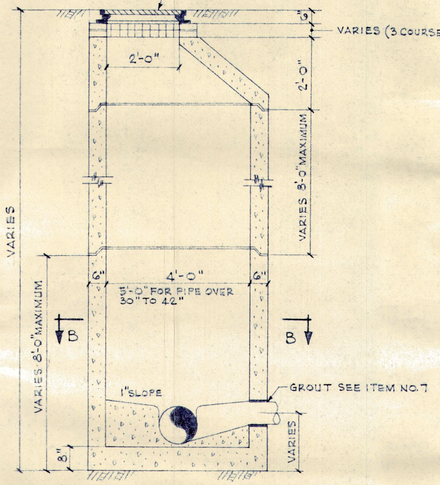


SECTION A-A



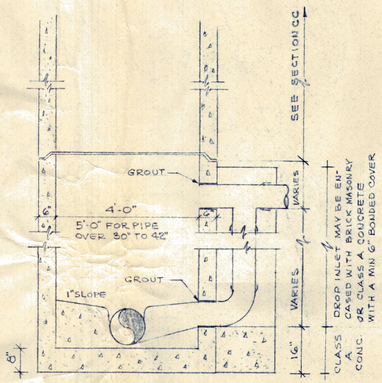
SECTION B-B

FOR DEPTHS 5'-0" & UNDER



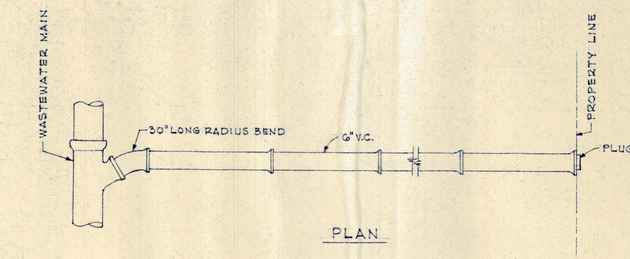
SECTION C-C

FOR DEPTHS OVER 5'-0"

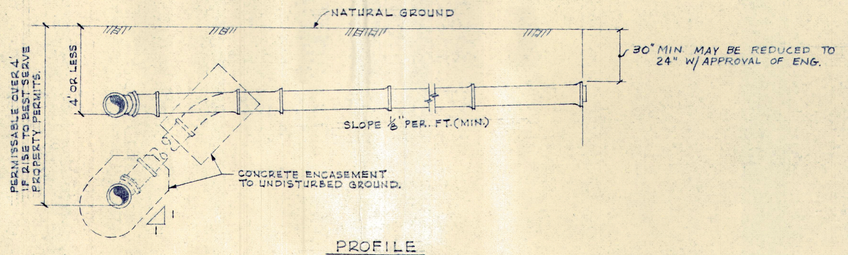


SECTION

DROP MAN HOLE

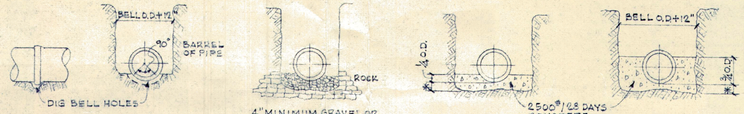


PLAN



PROFILE

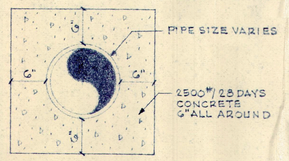
TYPICAL SERVICE CONNECTION



TRENCH IN EARTH | TRENCH IN ROCK | LOW CRADLE | HIGH CRADLE

* 3" MINIMUM FOR PIPES 24" AND SMALLER, 4" FOR LARGER PIPE.

TYPICAL EXCAVATION & PIPE SETTINGS



CONCRETE ENCASEMENT

MANHOLE SPECIFICATIONS

1. MANHOLES SHALL COMPLY WITH A.S.T.M. SPECIFICATION C-478, LATEST REVISION, "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS."
2. CONCRETE SHALL BE 4,000 P.S.I./ 28 DAY MINIMUM STRENGTH, WITH TYPE II CEMENT.
3. HEAVY DUTY MANHOLE RING (6" HIGH) AND COVER SHALL BE TYPE B (DWG. NO. 24) WITH FRAME (200 LB.) AND COVER (130 LB.) WITH BLIND PICKHOLE, AS MANUFACTURED BY U.S. FOUNDARY (CORR, MIAMI, FLA.), OR APPROVED EQUAL.
4. REINFORCING PER A.S.T.M. SPEC. C-478, LATEST REV.
5. LEVELING BRICKS TO BE CLAY ; MORTAR TO BE 2 PARTS CLEAN SAND AND 1 PART CEMENT WITH NO MORE THAN ¼ PART HYDRATED LIME, WITH JOINTS FULL & STRUCK FLUSH.
6. NO STEPS SHALL BE USED.
7. COMPLETELY FILL SPACE BETWEEN PIPES AND MANHOLE WALL WITH CEMENT MORTAR AFTER PIPE IS SET WITH 15 LB. EMBECO PER 100 LB. CEMENT.

GENERAL NOTES:

1. WHERE WATER & WASTEWATER MAINS CROSS WITH LESS THAN 18" VERTICAL CLEARANCE, THE WASTEWATER PIPE SHALL BE OF EITHER CAST IRON OR CONCRETE ENCASED VITRIFIED CLAY, (20' MIN.) CENTERED ON THE POINT OF CROSSING.
2. PARALLEL WATER & WASTEWATER MAINS SHALL MAINTAIN A HORIZONTAL SEPARATION OF AT LEAST 10' WHERE PRACTICAL.

BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS SARASOTA FLORIDA

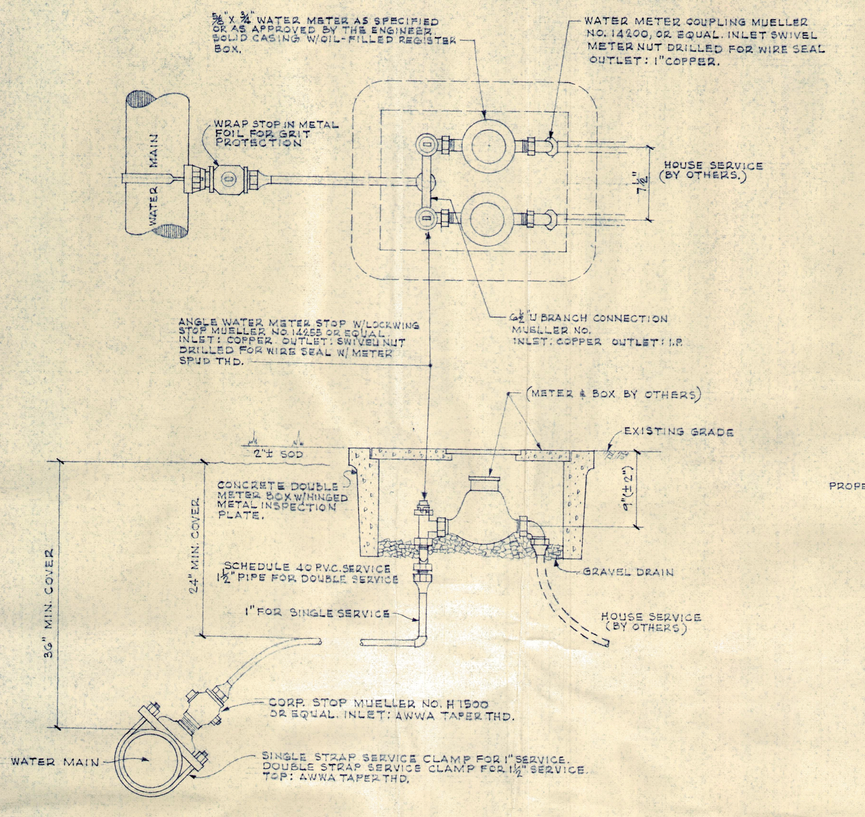
DESIGN	DATE	BY	DESCRIPTION
G.L.B.	2-16-76	GLB	ADD CONC. SERV. DETAILS
G.L.B.	11/20/75	G.L.B.	REVISED SECTION A-A, B-B & C-C

DATE	7/18/75
SCALE	AS NOTED
DESIGN	G.L.B.
DRAWN	G.L.B.
CHECK	
APPROVED	

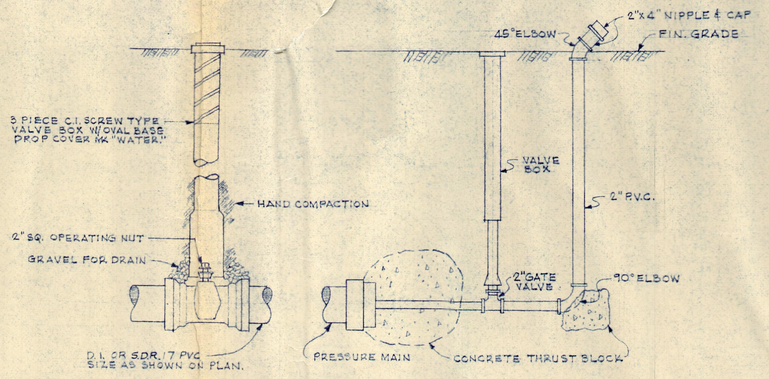
ARVIDA CORPORATION
BAY ISLES
LONGBOAT KEY
PHONE 383-2178

SANITARY SEWERAGE DETAILS

DWG. No.
191-079

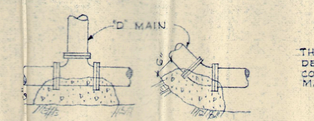


TYPICAL METERED SERVICE DETAILS



VALVE DETAIL

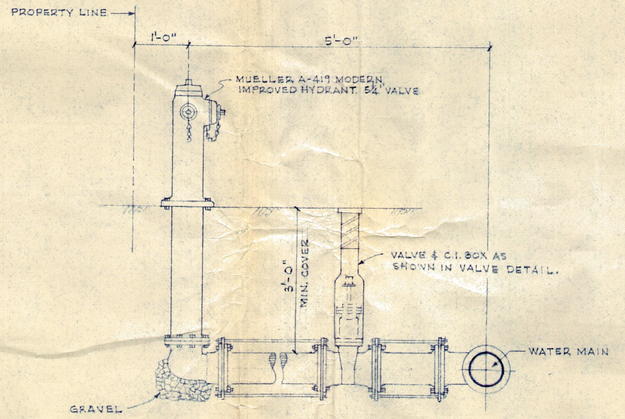
TYPICAL BLOWOFF DETAIL



THRUST BLOCK AREAS IN SQ. FT.

PIPESIZE	TEE	90° BEND	45° BEND	22½° BEND
	1.5	2.0	1.0	1.0
	4.0	5.5	3.0	1.5
	7.0	10.0	5.5	3.0
	10.0	14.0	7.0	5.0

PRESSURE MAIN THRUST BLOCKS



TYPICAL FIRE HYDRANT

BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS
SARASOTA FLORIDA

DESIGN	DATE	DESCRIPTION	BY
	2-24-76	REVISED WATER MAINS	GLB
	12/17/75	ADDED FIRE HYDRANT LOCATION	GLB
	11/21/75	REVISED DETAILS & METERED SERVICE DETAILS	GLB

DATE 7/21/75
SCALE AS NOTED
DESIGN G.L.B.
DRAWN G.L.B.
CHECK
APPROVED

ARVIDA CORPORATION
BAY ISLES
LONGBOAT KEY
PHONE 383-2178

WATER SUPPLY DETAILS

DWRG. No.
191-080

CONNECT TO EXISTING 6" P.V.C.
EXISTING 30"x19" R.C.P.
EXIST. C.B. INV. 1.00
EXIST. 6" P.V.C. (ROAD CROSSING)
CONNECT TO EXIST. 6" P.V.C.
EXISTING C.B. INV. 0.87
CONST J-BOX INV. +0.21W, -1.49E SEE SHEET 191-219 FOR DETAIL "A"=10'-0" "B"=4'-0" "C"=6
EXISTING 2-29"x45" R.C.P. INV. 0.21
63"-48" R.C.P.
PROPOSED 5' R.C. SIDEWALK
CONST J-BOX INV. +0.04 SEE SHEET 191-219 FOR DETAIL "A"=6'-0" "B"=4'-0" "C"=6
27"-48" R.C.P.
FUTURE DRIVE & 90° PARKING
48" R.C.P. (EXIST.)
TEMPORARY SWALE (SEE SHEET 191-221 FOR DETAILS)
RIP-RAP (SEE SHEET #191-219 FOR DETAIL)
RIP-RAP, SEE SHEET #191-219 FOR DETAIL
INV. -2.47
M.H. FSA7
SEWER OUTLETS AS REQ'D
290'-10" V.C. @ 0.28%
M.H. FSA6
INV. 3.56
INV. -2.45
WATER P.V.C. (SIZE TO SUIT BLDG REQUIREMENTS)
F.H.
TEMPORARY VEGETATION
CONST. M.H.
INLET 552
INLET 553
C.B. INV. 1.00
EXIST. 6" P.V.C.
SERVICE AREA
SERVICE AREA
SERVICE AREA
SHOPS
25,990 SQ. FT.±
SHOPS
ECKERD'S
10,152 SQ. FT.±
PUBLIX 36,580 SQ. FT.±
FLOOR ELEV. 8.50
LONGBOAT KEY BANK
CANOPY
S.W.
PARKING LOT
LOADING ZONE
5' SIDEWALK
COVERED COLONNADE
COVERED COLONNADE
LOADING ZONE NO PARKING
BUS STOP
BIKE PARK
RAMP
RAMP
CONST NEW DRIVE APPROACH SEE DETAIL SHT. 191-
EXIST. M.H. FSA2 INV. -5.21
10' F.P.&L. EASEMENT
EXIST. MIAMI CURB
EXIST. 18" V.C.
2-2"x2'-4" (EXISTING)
PROPOSED 5' P.C. CONC.
PROPOSED 5' P.C. CONC.
M.A. WATER MAIN (EXISTING)
BAY ISLES ROAD
TYPE "H" CURB
BIKE PARK
PROP. A.C. BIKE PATH
TYP CARSTOP 204 REQ'D.
P.A.C. WATER MAIN (EXISTING)
FUTURE R.O.W.
FUTURE BIKE PATH
10' F.P.&L. CO. EASEMENT
8" ASPH. CONC.
TOWN OF LONGBOAT KEY BIKE PATH (EXISTING)
CONST. NEW LEFT TURN LANE SEE DETAIL SHT. 191-
EXIST. 12" P.V.C.
TYPE "H" CURB
EXIST. 18" V.C.
BAY ISLES PARKWAY
1'-6"x1'-4" 2-2" (EXIST.)
CONST. J-BOX INV. -0.18 SEE SHEET 191-219 FOR DETAIL "A"=6'-0" "B"=4'-0" "C"=4' (S-49)
EXIST. 30" R.C.P. INV. 0.17
EXIST. 4'x4' INLET INV. W. -0.28 INV. E. -0.56
EXISTING 42" R.C.P. OUTFALL +1.11
5'-4"x4' INLET INV. W. -0.68 INV. E. -1.08
EXIST. 36" R.C.P.
CONST. NEW DRIVE APPROACH SEE DETAIL SHT. 191-
CONST. NEW LEFT TURN LANE SEE DETAIL SHT. 191-
TYP STD. INLETS, SEE SHT. #191-219 FOR DETAIL
NOTE: SEE STORM DRAINAGE SHT. #191-221 FOR INV. ELEVATIONS
BUS
BUS

DENOTES EXISTING TREE TO REMAIN

DENOTES PROPOSED TREE

PARKING LEGEND

BLDG.	AREA	SPACES REQ'D PER ZONING ORDINANCE	SPACES REQUESTED BY TENANTS	SPACES PROVIDED
SMALL SHOPS	25,990 SQ. FT.	87	130	104
PUBLIX	36,580 SQ. FT.	122	183	183
ECKERD'S	10,152 SQ. FT.	34	51	51
TOTALS:	72,722 SQ. FT.	243	364	338

RECEIVED JUL 5 1978 BOARD OF COUNTY COMMISSIONERS MONROE COUNTY, FLORIDA

BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS SARASOTA FLORIDA

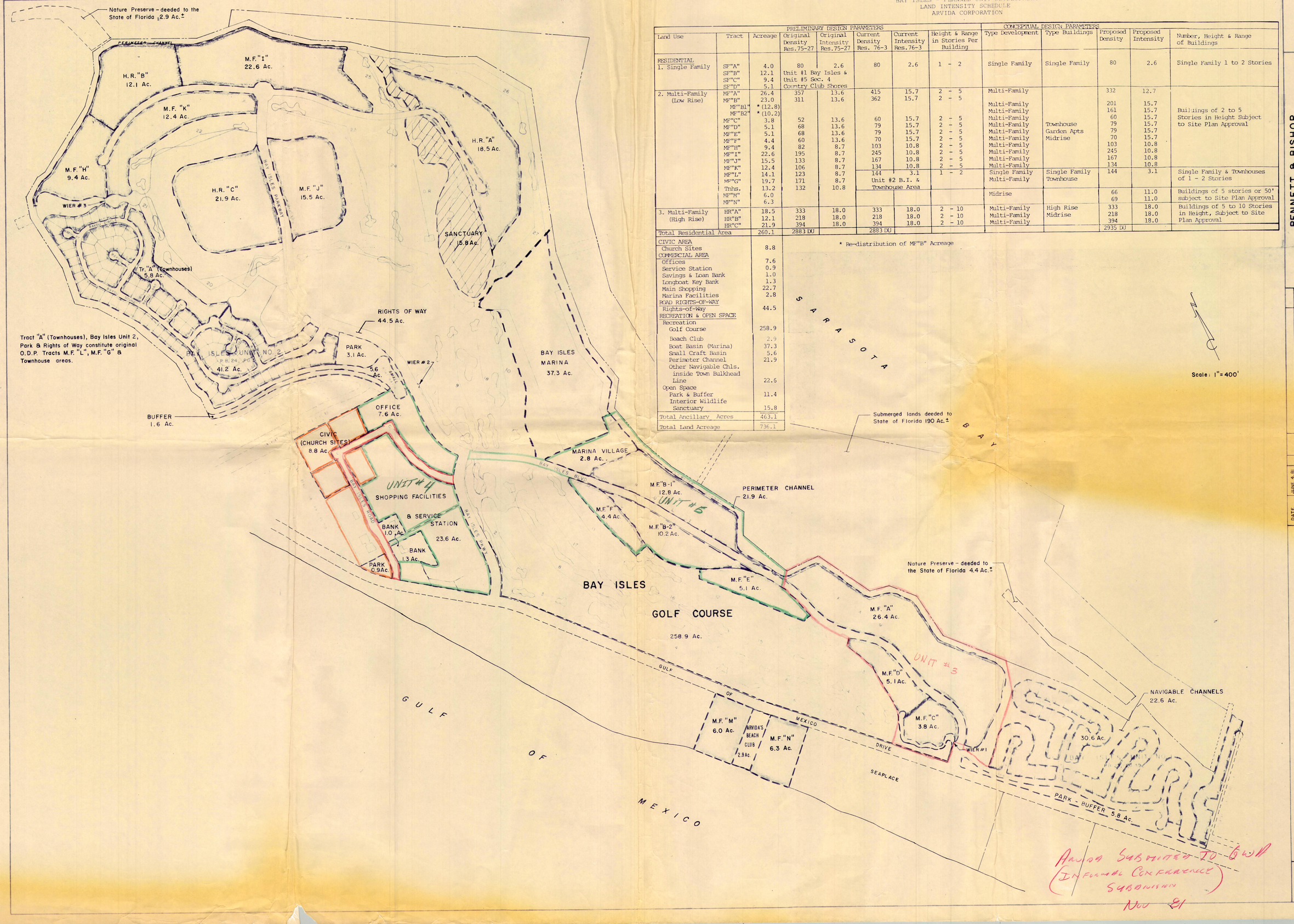
REVIEWED BY ENGINEERING DEPARTMENT
DATE
NAME
APPROVED BY

DATE	BY	DESCRIPTION
6/78		REVISED N. ENTRANCE RD.
7/78		ADDED BIKE PATH
9/78		DELETED N. ENTRANCE RD. ADDED BIKE PATH

DATE: CALC. 1"=40' DESIGN DRAWN CHK'D APPROVED

ARVIDA CORPORATION
BAY ISLES

DWRG. No.
191-216



BAY ISLES - PLANNED UNIT DEVELOPMENT
LAND INTENSITY SCHEDULE
ARVIDA CORPORATION

Land Use	Tract	Acreage	PRELIMINARY DESIGN PARAMETERS: Original Density Res.75-27	Original Intensity Res.75-27	Current Density Res. 76-3	Current Intensity Res.76-3	Height & Range in Stories Per Building	CONCEPTUAL DESIGN PARAMETERS: Type Development	Type Buildings	Proposed Density	Proposed Intensity	Number, Height & Range of Buildings
RESIDENTIAL												
1. Single Family	SF"A"	4.0	80	2.6	80	2.6	1 - 2	Single Family	Single Family	80	2.6	Single Family 1 to 2 Stories
	SF"B"	12.1	Unit #1 Bay Isles &									
	SF"C"	9.4	Unit #5 Sec. 4									
	SF"D"	5.1	Country Club Shores									
2. Multi-Family (Low Rise)	MF"A"	26.4	357	13.6	415	15.7	2 - 5	Multi-Family		332	12.7	
	MF"B"	23.0	311	13.6	362	15.7	2 - 5					
	MF"B1"	* (12.8)						Multi-Family		201	15.7	
	MF"B2"	* (10.2)						Multi-Family		161	15.7	Buildings of 2 to 5
	MF"C"	3.8	52	13.6	60	15.7	2 - 5	Multi-Family		60	15.7	Stories in Height Subject
	MF"D"	5.1	68	13.6	79	15.7	2 - 5	Multi-Family	Townhouse	79	15.7	to Site Plan Approval
	MF"E"	5.1	68	13.6	79	15.7	2 - 5	Multi-Family	Garden Apts	79	15.7	
	MF"F"	4.4	60	13.6	70	15.7	2 - 5	Multi-Family	Midrise	70	15.7	
	MF"H"	9.4	82	8.7	103	10.8	2 - 5	Multi-Family		103	10.8	
	MF"I"	22.6	195	8.7	245	10.8	2 - 5	Multi-Family		245	10.8	
	MF"J"	15.5	133	8.7	167	10.8	2 - 5	Multi-Family		167	10.8	
	MF"K"	12.4	106	8.7	134	10.8	2 - 5	Multi-Family		134	10.8	
	MF"L"	14.1	123	8.7	144	3.1	1 - 2	Single Family	Single Family	144	3.1	Single Family & Townhouses
	MF"G"	19.7	171	8.7	Unit #2 B.I. &			Multi-Family	Townhouse			of 1 - 2 Stories
	Tnhs.	13.2	132	10.8	Townhouse Area							
	MF"M"	6.0						Midrise		66	11.0	Buildings of 5 stories or 50'
	MF"N"	6.3								69	11.0	subject to Site Plan Approval
3. Multi-Family (High Rise)	HR"A"	18.5	333	18.0	333	18.0	2 - 10	Multi-Family	High Rise	333	18.0	Buildings of 5 to 10 Stories
	HR"B"	12.1	218	18.0	218	18.0	2 - 10	Multi-Family	Midrise	218	18.0	in Height, Subject to Site
	HR"C"	21.9	394	18.0	394	18.0	2 - 10	Multi-Family		394	18.0	Plan Approval
Total Residential Area		260.1	2883 DU		2883 DU					2935 DU		
CIVIC AREA												
Church Sites		8.8										
COMMERCIAL AREA												
Offices		7.6										
Service Station		0.9										
Savings & Loan Bank		1.0										
Longboat Key Bank		1.3										
Main Shopping		22.7										
Marina Facilities		2.8										
ROAD RIGHTS-OF-WAY												
Rights-of-Way		44.5										
RECREATION & OPEN SPACE												
Recreation												
Golf Course		258.9										
Beach Club		2.9										
Boat Basin (Marina)		37.3										
Small Craft Basin		5.6										
Perimeter Channel		21.9										
Other Navigable Chls. inside Town Bulkhead Line		22.6										
Open Space												
Park & Buffer		11.4										
Interior Wildlife Sanctuary		15.8										
Total Ancillary Acres		463.1										
Total Land Acreage		736.1										

* Re-distribution of MF"B" Acreage

Arvida Subdivision to GWW
(Informal Conference Submission
Nov 81

BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS
SARASOTA FLORIDA
PHONE 388-2178
LONGBOAT KEY

APPROVED BY

BY	DESCRIPTION	DATE
	REVISED	

DATE JUNE 4, 81
SCALE 1"=400'
DESIGN
DRAWN
CHECK
APPROVED

ARVIDA CORPORATION
BAY ISLES
DIAGRAMATIC SITE PLAN

DWRG. NO.
191-237B

Exempt from Public Review

Box 9803586

H.R.-A Area East of Mud Lake

	A	x C	= AC
H.R.-C Portion	15.8	0.6	9.5
Golf Course Portion	4.2	0.15	0.6
Pond	1.6	1.0	1.6
TOTAL	21.6	0.54	11.7

For Weirs #1, #2, #3, (Sum of Areas)	A	x C	= AC
South Single Family	26	0.4	10.4
Seaplace Condo (x-ing)	40	0.6	24.
Commercial Area	61.3	0.65	39.8
Boat Basin Comm. +	10.7	0.6	6.4
So. 80' Road RW	11	0.75	8.2
M.F. Area Port. (A,B,C,D,E,F)	51.9	0.6	31.1
So. Golf Course	123.5	0.15	18.5
So. Golf Course Ponds	19.4*	1.0	19.4
Club Hse. + Parking	10.8	0.75	8.1
Part of 100' R.W.	6.5	0.75	4.9
Tennis Area	5.9	0.7	4.1
North Single Family + Townhouse	39.9	0.6	23.9
M.F. Area Port. H.I.K. + HR-B	48.9	0.6	29.3
H.R.-C	20.0	0.6	12.0
M.F.-J	15.5	0.6	9.3
No. Golf Course	65.7	0.15	9.9
No. Golf Course Ponds	29.3*	1.0	29.3
TOTAL	586.3	0.49	288.6

*Ponds = 48.7 ac

Scale: 1"=400'

BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS
SARASOTA FLORIDA

APPROVED BY William Bishop #8169

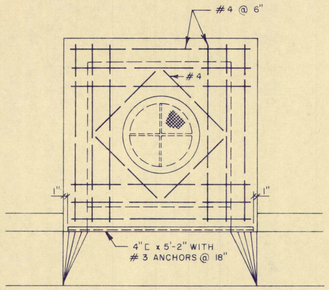
REVISED			
DESCRIPTION	DATE	BY	
9-22-81 Arvida's Office Bldg. Site Added		AC	

DATE	9-12-80
SCALE	1"=400'
DESIGN	T.J.B.
DRAWN	P.A.B.
CHECK	
APPROVED	

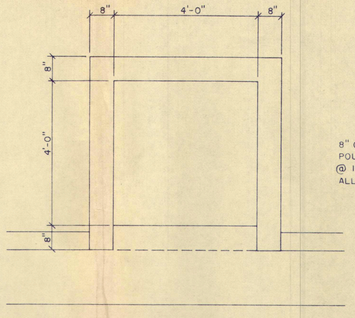
ARVIDA CORPORATION
BAY ISLES
LONGBOAT KEY
PHONE 388-2178

STREET & DRAINAGE MASTER

DWRG. NO.
191-363



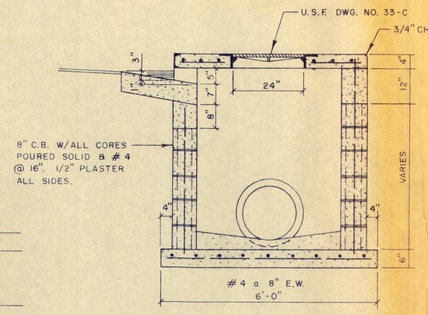
PLAN - COVER



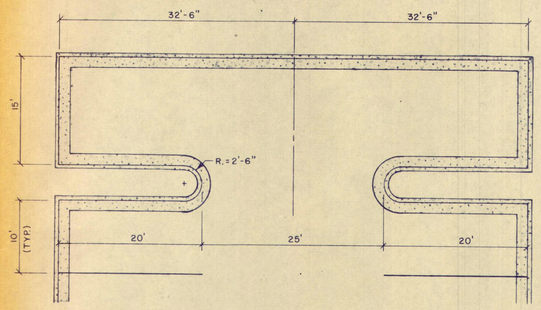
PLAN - COVER REMOVED

TYPICAL CURB INLET

SCALE: 1/2" = 1'-0"

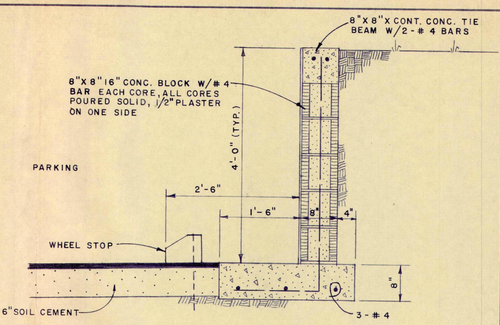


SECTION



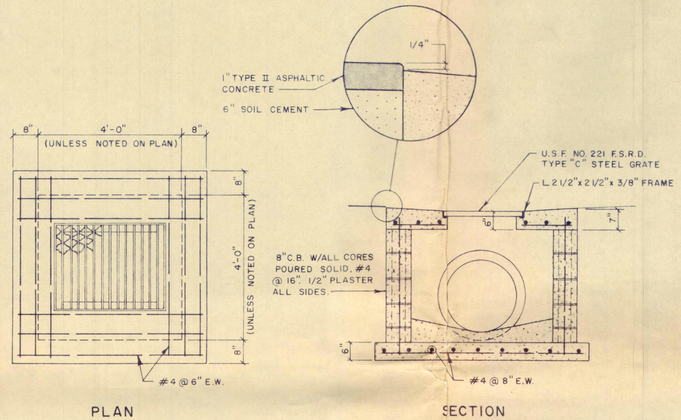
TURNAROUND DETAIL "A"

SCALE: 1" = 10'-0"



RETAINING WALL DETAIL

SCALE 3/4" = 1'-0"

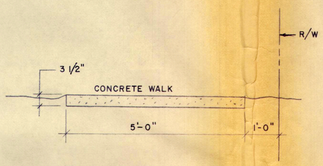


PLAN

SECTION

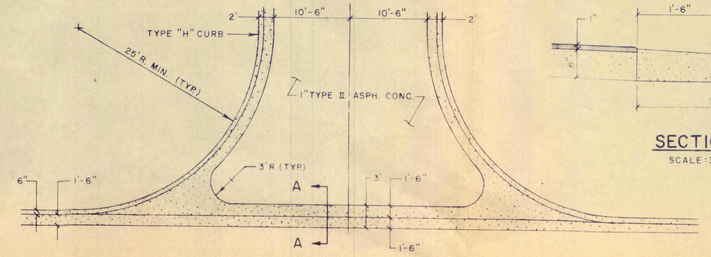
TYPICAL DROP INLET

SCALE: 1/2" = 1'-0"



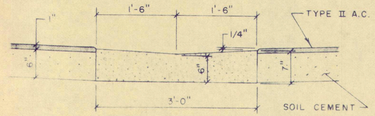
SIDEWALK DETAIL

SCALE 1/2" = 1'-0"



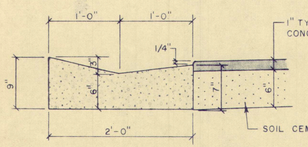
VALLEY GUTTER DETAIL

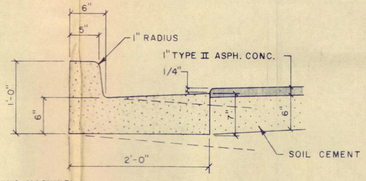
SCALE: 1" = 10'-0"



SECTION A-A

SCALE: 3/4" = 1'-0"

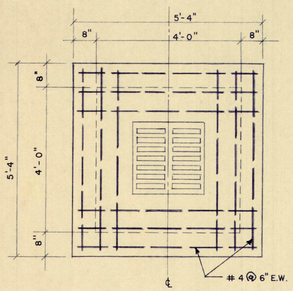




CURBS POURED WITH CONTINUOUS PAVING MACHINE SHALL HAVE JOINTS SAW CUT EVERY 10' FOLLOWING COMPLETION OF POUR. CONSTRUCTION JOINTS SHALL BE 10' O.C. AND 1/2" PREMOLDED EXP. JOINTS AT 40' O.C.

TYPE "K" CURB

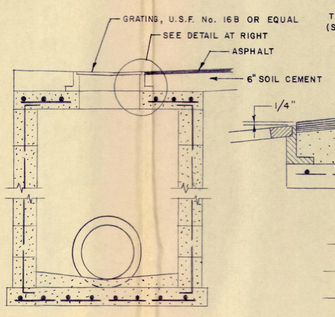
SCALE: 1" = 1'-0"



PLAN

TYPE "H" CURB

SCALE: 1" = 1'-0"



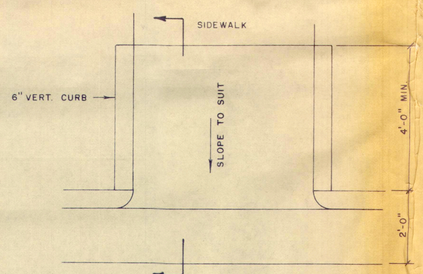
SECTION

NOTE:

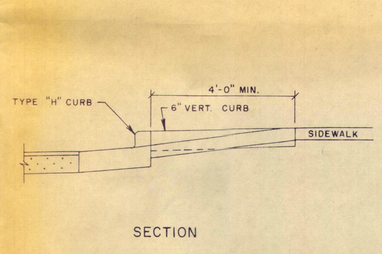
CONSTRUCTION DETAILS ARE THE SAME AS FOR STORM SEWER MANHOLE EXCEPT AS NOTED FOR COVER.

VALLEY GUTTER INLET

NOT TO SCALE



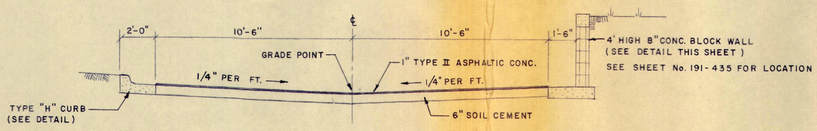
PLAN



SECTION

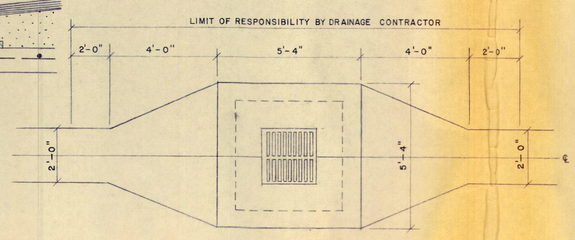
BICYCLE RAMP DETAIL

SCALE: 1/2" = 1'-0"



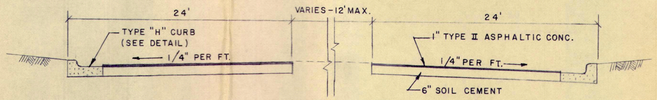
PARKING ACCESS ROAD

SCALE 1/4" = 1'-0"



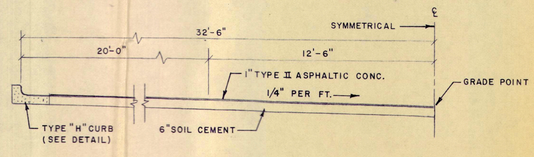
TYPICAL VALLEY CURB INLET IN VALLEY GUTTER

NOT TO SCALE



DIVIDED ROAD SECTION - ENTRANCE

NOT TO SCALE



PARKING SECTION

SCALE 1/4" = 1'-0"

BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS SARASOTA FLORIDA

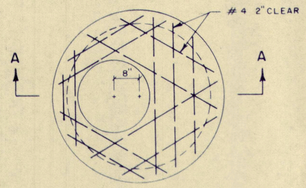
APPROVED BY

BY	DESCRIPTION	DATE
N.A.L.	REVISED PAVING & DRAINAGE DETAILS	4-23-81

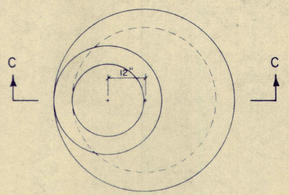
DATE 8-17-81
SCALE AS SHOWN
DESIGN
DRAWN N.A.L.
CHECK
APPROVED

ARVIDA CORPORATION
ARVIDA OFFICE BUILDING SITE
PAVING & DRAINAGE DETAILS

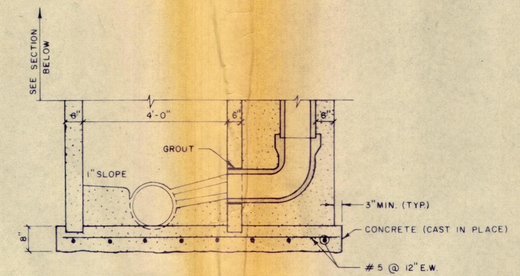
DWRG. NO.
191 - 453



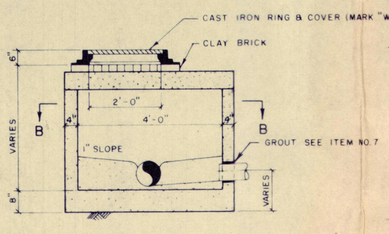
PLAN



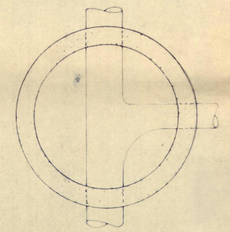
PLAN



ALTERNATE SECTION



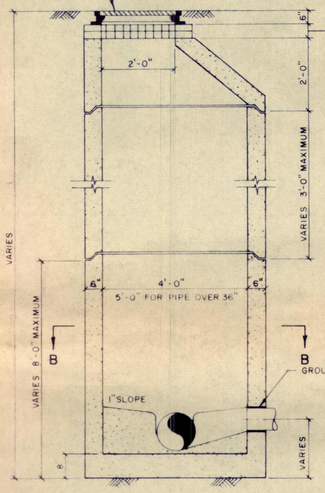
SECTION A-A



SECTION B-B

FOR DEPTHS 5'-0" & LESS

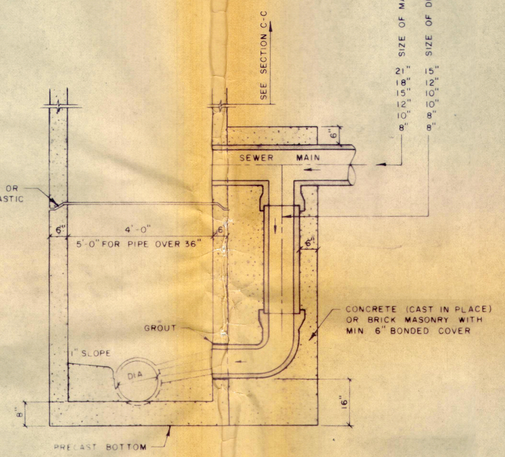
SCALE 1/2"=1'-0"



SECTION C-C

FOR DEPTHS OVER 5'-0"

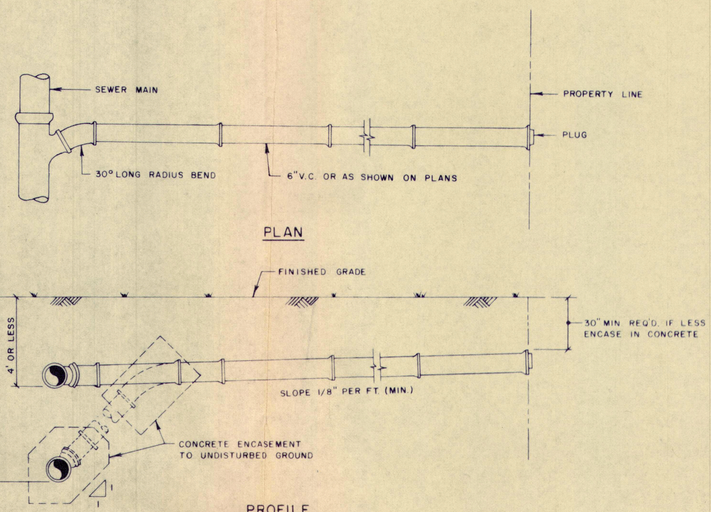
SCALE 1/2"=1'-0"



SECTION

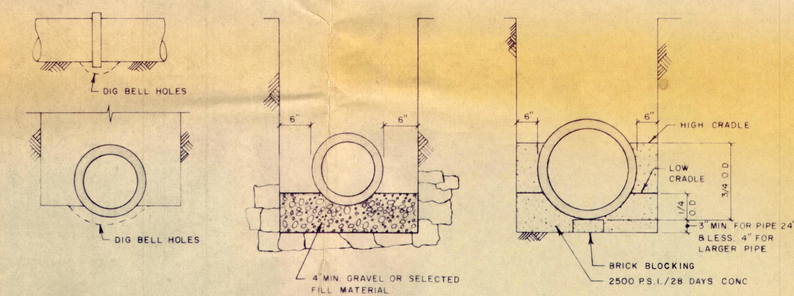
DROP MANHOLE

SCALE 1/2"=1'-0"



TYPICAL SERVICE CONNECTION

NO SCALE



TRENCH IN EARTH | TRENCH IN ROCK | CONCRETE CRADLES

TYPICAL EXCAVATION & PIPE SETTINGS

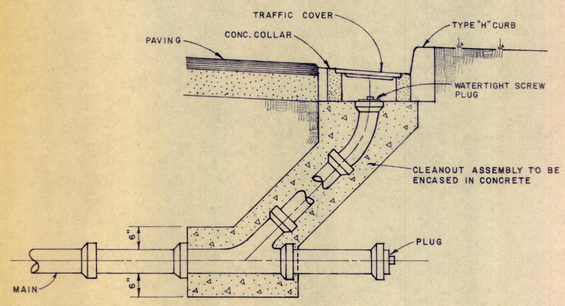
NO SCALE

MANHOLE SPECIFICATIONS:

1. MANHOLES SHALL COMPLY WITH SPECIFICATION C-478, LATEST REVISION, "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS."
2. CONCRETE SHALL BE 4,000 P.S.I./28 DAY MINIMUM STRENGTH, WITH TYPE V CEMENT.
3. HEAVY DUTY WATERPROOF MANHOLE FRAME AND COVER (7 1/2" HIGH) SERIES R-1916-D 370 LBS. WITH GASKET SEAL AND 4 COVER BOLTS, AS MANUFACTURED BY NEENAH FOUNDRY COMPANY, NEENH, WISCONSIN, OR APPROVED EQUAL.
4. REINFORCING PER A.S.T.M. SPEC C-478, LATEST REV.
5. LEVELING BRICKS TO BE CLAY, MORTAR TO BE 2 PARTS CLEAN SAND AND 1 PART CEMENT WITH NO MORE THAN 1/4 PART HYDRATED LIME, WITH JOINTS FULL & STRUCK FLUSH.
6. NO STEPS SHALL BE USED.
7. COMPLETELY FILL SPACE BETWEEN PIPES AND MANHOLE WALL WITH CEMENT MORTAR AFTER PIPE IS SET WITH 15 LB. EMBECO PER 100 LB. CEMENT.

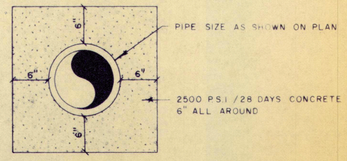
GENERAL NOTES:

1. WHERE WATER & WASTEWATER MAINS CROSS WITH LESS THAN 18" VERTICAL CLEARANCE, THE WASTEWATER PIPE SHALL BE OF EITHER CAST IRON OR CONCRETE ENCASED VITRIFIED CLAY, (20' MIN.) CENTERED ON THE POINT OF CROSSING.
2. PARRALLEL WATER & WASTEWATER MAINS SHALL MAINTAIN A HORIZONTAL SEPARATION OF AT LEAST 10' WHERE PRACTICAL.



CLEANOUT DETAIL

NO SCALE



CONCRETE ENCASEMENT

NO SCALE

BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS
SARASOTA FLORIDA

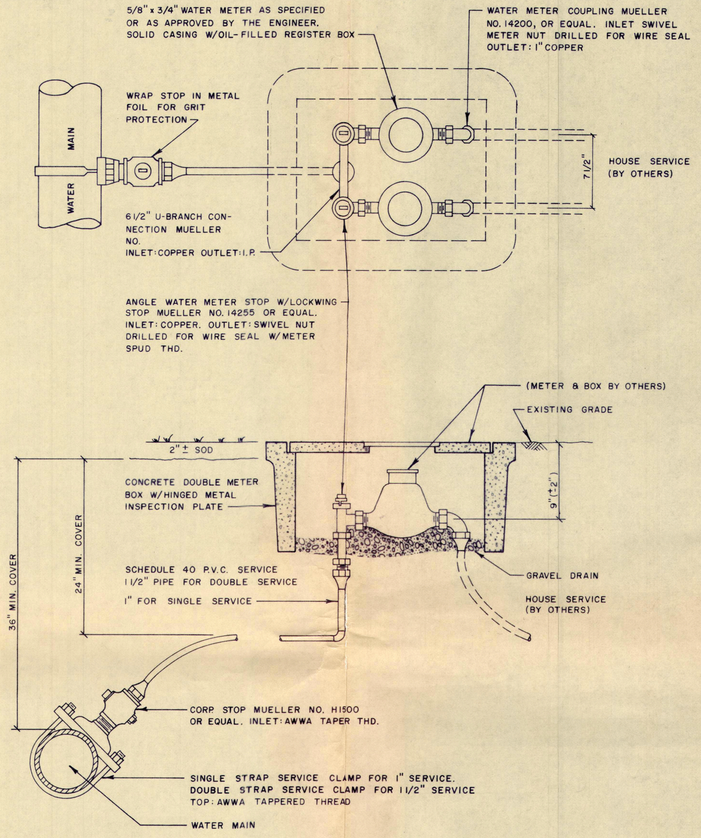
APPROVED BY

REVISED			BY
7-25-80	REVISED CLEANOUT DETAIL		
7-7-81	CHANGED WALL SEP. 20'-0" C.O. DETAIL		
DATE	DESCRIPTION		

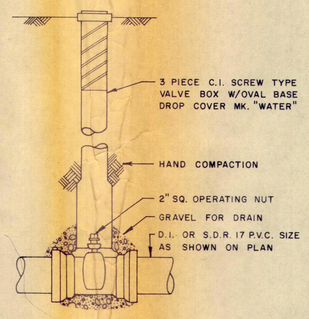
DATE	9-4-80
SCALE	AS SHOWN
DESIGN	W.F.B.
DRAWN	R.A.B.
CHECK	
APPROVED	

ARVIDA CORPORATION
BAY ISLES CIVIC COMMERCIAL CENTER
SANITARY SEWER DETAILS

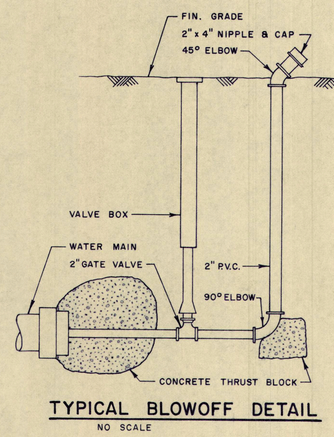
DRWG. NO.
191-454



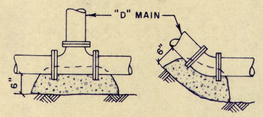
TYPICAL METERED SERVICE DETAILS
NO SCALE



VALVE DETAIL
NO SCALE



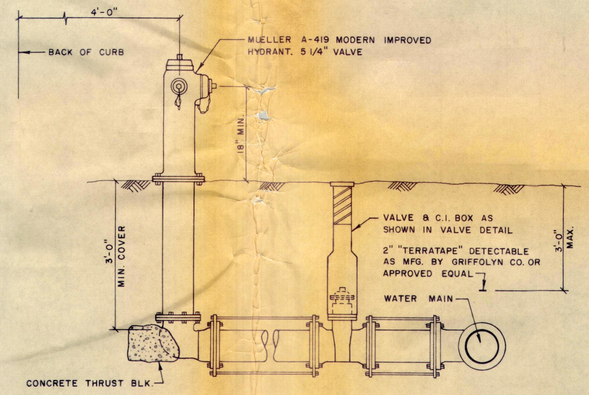
TYPICAL BLOWOFF DETAIL
NO SCALE



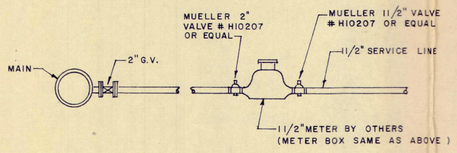
AREAS DETERMINED BY CONC. CONTACT WITH UNDISTURBED MATERIAL

THRUST BLOCK AREAS IN SQ. FT.				
SIZE	TEE	90° BEND	45° BEND	22 1/2° BEND
4"	1.5	2.0	1.0	1.0
6"	4.0	5.5	3.0	1.5
8"	7.0	10.0	5.0	3.0
10"	10.0	14.0	7.0	5.0

WATER MAIN THRUST BLOCKS



TYPICAL FIRE HYDRANT DETAIL
NO SCALE



TYPICAL 2" SERVICE DETAIL
NO SCALE

BENNETT & BISHOP
CONSULTING ENGINEERS & SURVEYORS SARASOTA FLORIDA

APPROVED BY

REVISED			
DATE	DESCRIPTION	BY
2-1-80	REV. TYP 4" SERV. & TYP METERED SERV	DRH
4-24-80	ADD W.M. CROSSING DETAIL	RAB
12-19-71	ADD TYPICAL 4" SERVICE DETAIL	V.W.

DATE	8-17-81
SCALE	AS SHOWN
DESIGN	
DRAWN	R.A.B.
CHECK	
APPROVED	

ARVIDA CORPORATION
BAY ISLES CIVIC COMMERCIAL CENTER

WATER SUPPLY DETAILS

DRWG. NO.
191-455