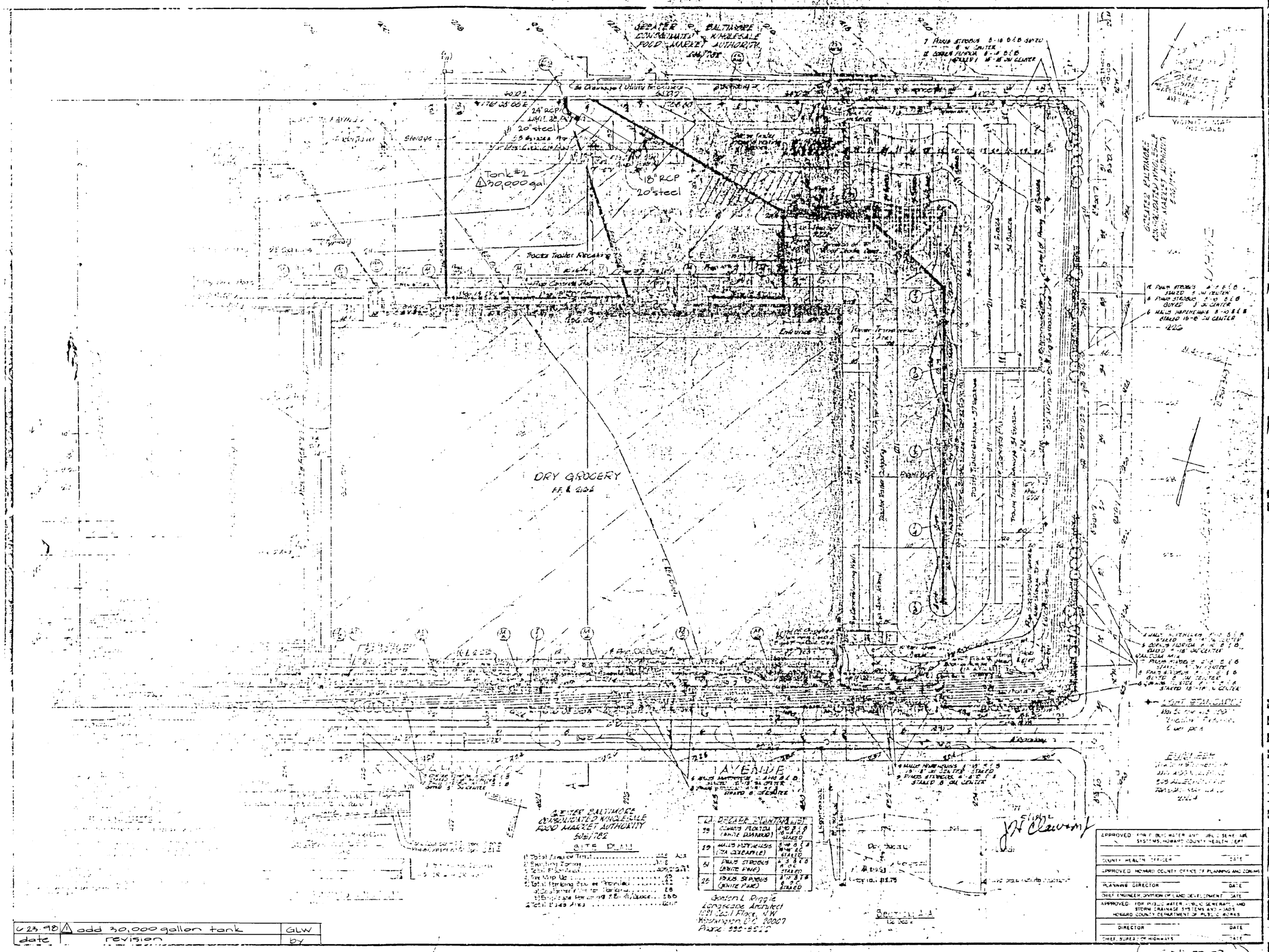
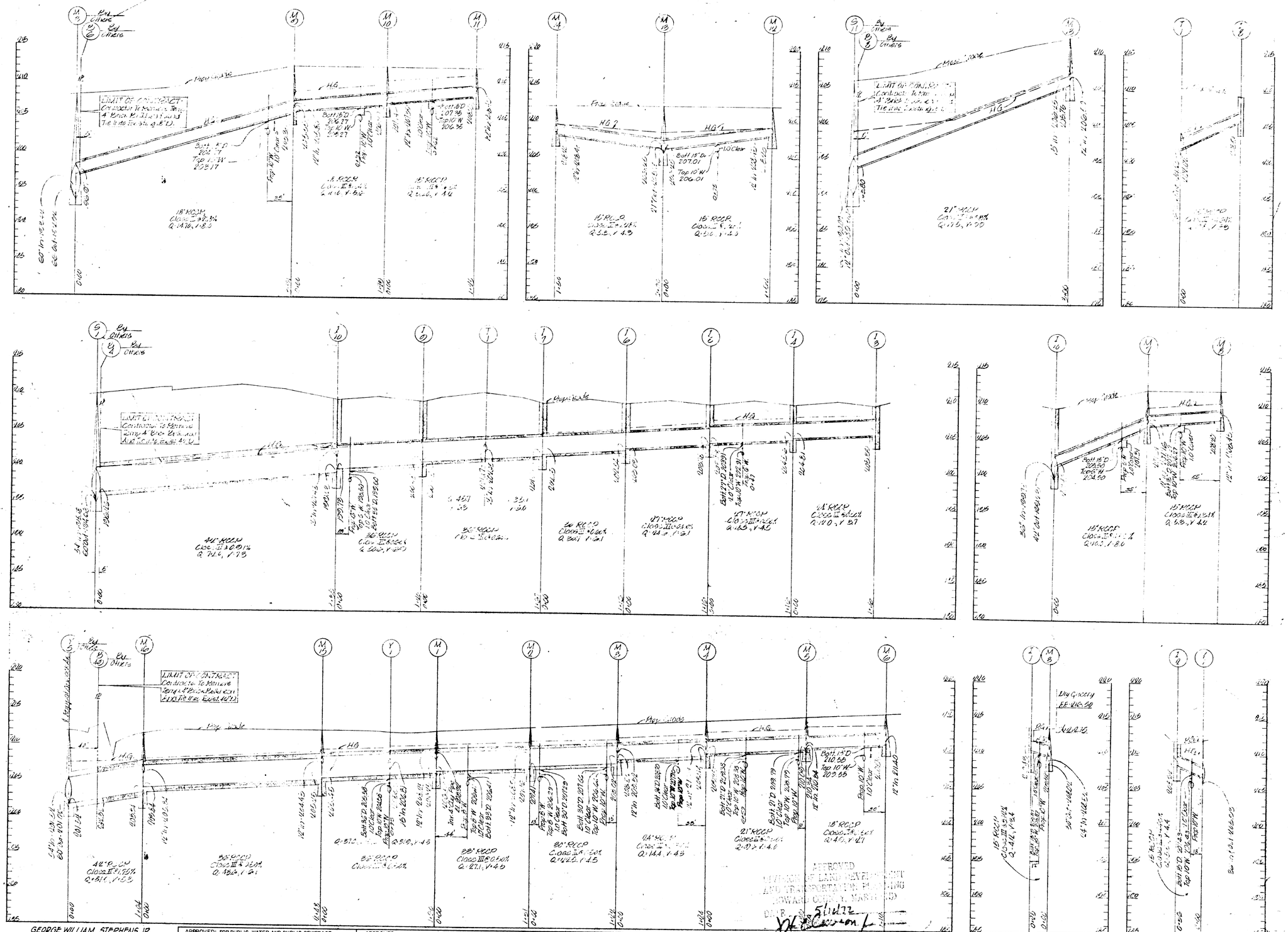


date	revision	by
6.23.98	⚠ add 30,000 gallon tank	GLW

David S. Weber
6/23/98 REVISION
ADD TANK #2



GEORGE WILLIAM STEPHENS, JR.
AND ASSOCIATES INC.
ENGINEERS
303 W. ALLEGHENY AVE. TOWSON, MD. 21204

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.		APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING		APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, AND STORM DRAINAGE SYSTEMS, AND ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
COUNTY HEALTH OFFICER	DATE	PLANNING DIRECTOR	DATE	DIRECTOR	DATE
		CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT	DATE	CHIEF BUREAU OF HIGHWAYS	DATE

APPROVED
HOWARD COUNTY
DEPARTMENT OF LAND DEVELOPMENT
AND TRANSPORTATION PLANNING
HOWARD COUNTY, MARYLAND
DATE 5/14/72

donald n. coupard · associates a.i.a.
architects planners
ross executive boulevard
rockville maryland
301 881 3800

STORM DRAIN PROFILES
GIANT FOOD
Howard Co. Maryland
Scale: Hor: 1" = 40' Ver: 1" = 4'

DRAWN

JOB NUMBER

REVISIONS
Revised 4/19/72

ISSUED

Professional Engineer
Reg. No. 5048 Date 3/8/72

SDD-12-77

STORM DRAIN DESIGN DATA

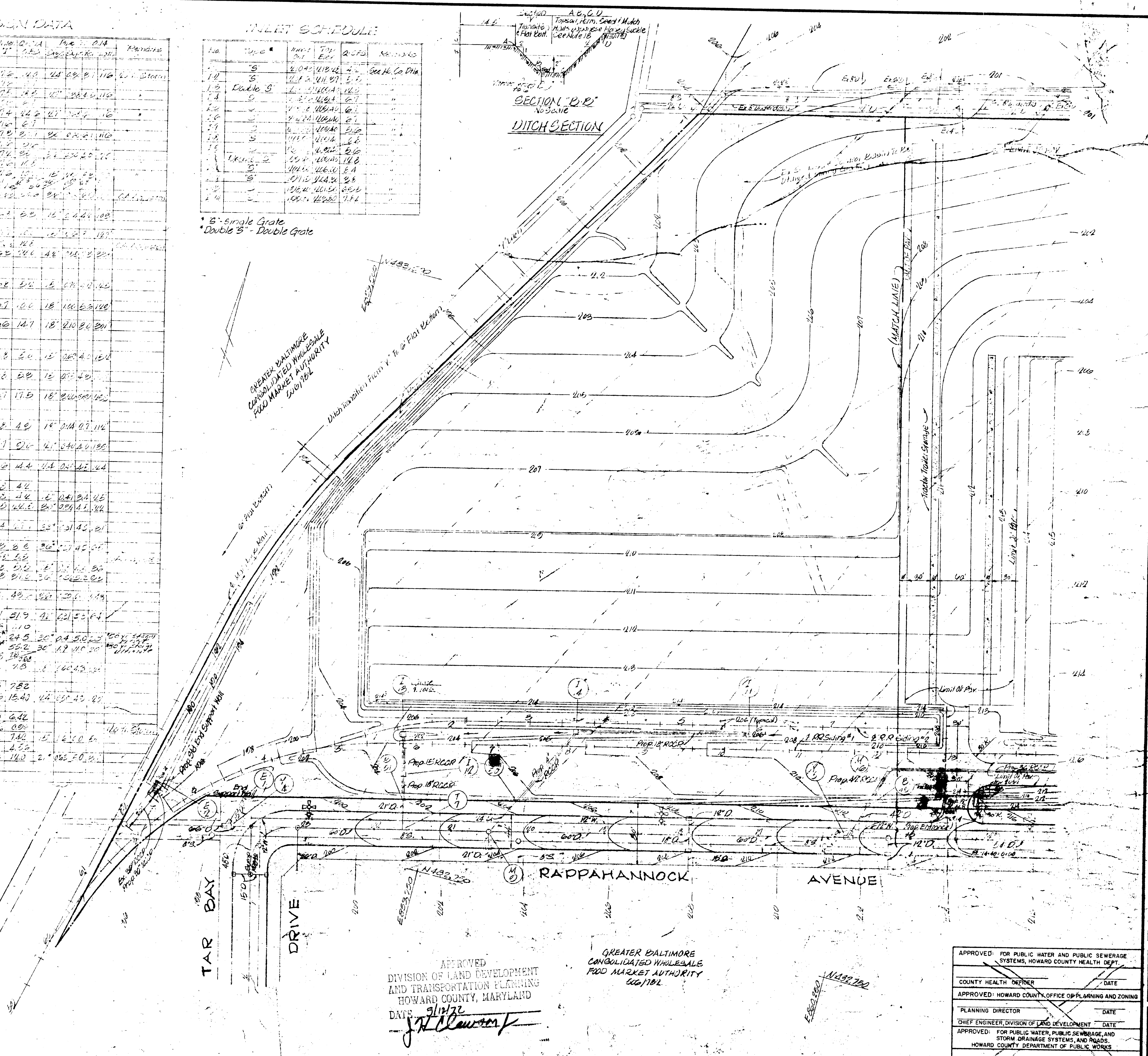
Storm frequency: 10 yr. except as noted

From	To	Area	Area (Sub)	Area (Total)	C	CA	ΣCA	Time Inlet	Time Flow	Time Total	I	Q=CIA	Pipe Size	Slope	Vel.	Length	Remarks
	I-3	O	1.75		[illegible]	1.59											
I-3	I-4	O		1.75			1.59	5	-	5	7.6	12.0	24"	0.30	3.7	116	2 yr. Storm
	I-4	P	2.73			[illegible]		5	-	5	7.6	[illegible]					
I-4	I-5	O-P		4.48			2.43	5	0.42	5.42	7.5	18.5	27"	0.38	4.5	116	"
	I-5	Q	0.93		[illegible]	0.88		5	-	5	[illegible]	[illegible]					
I-5	I-6	O-Q		3.61			3.31	5.42	0.43	5.85	7.4	24.6	27"	[illegible]		116	"
	I-6	R	0.93		[illegible]	0.88		5	-	5	7.6	6.7					
I-6	I-7	O-R		4.54			4.22	5.85	0.34	6.19	7.3	30.1	30"	0.28	6.1	116	
	I-7	S	0.78		0.95	0.74		5	-	5	7.6	5.6					
I-7	T-L	O-S		5.32			4.96	6.19	0.32	[illegible]	7.2	35.8	30"	0.33	5.9	127	
	I-8	T	1.48		0.95	1.48		5	-	5	7.6	10.8					
I-8	T-1	T		1.48			1.42	5	[illegible]	[illegible]	7.6	10.8	18"	[illegible]			
T-1	T-2	O-T,U		[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	36"	[illegible]			"
I-9	[illegible]	O-U		7.66			[illegible]	6.34	0.22	[illegible]	[illegible]	[illegible]	36"	[illegible]	[illegible]		C.A. Revised
	M-8	M	0.84		0.95	[illegible]											
M-9	M-7	M		0.84			0.80	5	-	5	6.8	5.3	15"	0.44	4.4	103	
	M-7	N	0.76		[illegible]	[illegible]											
M-7	I-10	M,N		1.58			1.50	5	0.4	5.4	[illegible]	[illegible]	18"	[illegible]		127	
	I-10	V	1.77		0.95	[illegible]		5	-	5	[illegible]	12.8					
I-10	B-4	O-V		10.93			11.03	[illegible]	[illegible]	[illegible]	6.2	74.0	42"	[illegible]	[illegible]	[illegible]	C.A. Revised
	M-11	L	0.80		0.95	0.76											
M-11	M-10	L		0.80			0.76	5	-	5	6.8	5.2	15"	0.76	4.0	120	
	M-10	K	0.77		0.95	0.72											
M-10	M-9	K-L		1.57			1.40	5	0.40	5.40	6.7	10.0	18"	1.00	5.5	120	
	M-9	J	0.77		0.95	0.72											
M-9	B-6	J-L		2.34			2.22	5.40	0.38	5.87	6.6	14.7	18"	2.10	9.0	301	
	M-12	I	0.77		0.95	0.73											
M-12	M-13	I		0.77			0.73	5	-	5	6.8	5.0	15"	0.67	4.0	152	
	M-14	JJ	0.82		0.95	0.78											
M-14	M-13	JJ		0.82			0.78	5	-	5	6.8	5.3	15	0.55	4.0	[illegible]	
	M-13	HH	1.22		0.95	1.16											
M-13	B-8	I-JJ,HH		2.81			2.67	5	0.64	5.64	6.7	17.5	18"	2.10	[illegible]	[illegible]	
	M-6	A	0.76		0.95	0.72											
M-6	M-5	A		0.76			0.72	5	-	5	6.8	4.9	15"	0.14	0.7	112	
	M-5	B	0.76		0.95	0.72											
M-5	M-4	A-B		1.52			1.44	5	0.71	5.71	6.7	9.6	21"	0.40	4.0	139	
	M-4	C	0.79		0.95	0.75											
M-4	M-3	A-C		2.31			2.19	5.71	0.58	6.29	6.6	14.4	24	0.4	4.5	124	
	M-3	D	0.70		0.95	0.67											
	I-1	G	0.64		0.95	0.61		5	-	5	6.8	4.2					
I-1	M-3	G		0.64			0.61	5	-	5	6.8	4.2	15"	0.41	3.4	25	
M-3	M-2	A-D,G		3.65			3.47	6.29	0.46	6.75	6.5	22.5	30"	0.31	4.5	22	
	M-2	E	0.79		0.95	0.75											
M-2	M-1	A-E,G		4.44			4.22	6.75	0.45	7.20	6.4	[illegible]	33"	0.31	4.5	81	
	M-1	F	0.88		0.95	0.80											
M-1	Y-1	A-G		5.32			5.02	7.20	0.49	7.69	6.3	3.6	36"	[illegible]	4.5	85	
	I-2	H	0.76		0.95	[illegible]		5		5	[illegible]	5.5					
I-2	Y-1	H		0.76			0.81	5		5	[illegible]	5.5	15"	[illegible]	[illegible]	36	
Y-1	M-15	A-H		6.08			5.83	7.69	0.24	7.93	6.3	37.0	36"	[illegible]	5.2	82	
	M-E	II	1.22		0.95	1.16											
M-15	M-16	A-H,II		7.31			7.04	7.93	0.30	8.23	[illegible]	43.[illegible]	36"	[illegible]	[illegible]	[illegible]	
	M-16	K-K	1.52		0.95	1.44											
M-16	B-10	A-II,KK		8.83			8.48	8.23	[illegible]	8.91	6.1	51.9	42"	0.31	5.3	64	
	E-1	TT	0.11	-	0.40	0.16	-	5	-	5	6.8	1.10					
E-2	Exist.	CO	-	15.27	0.20	3.15	-	5	7.6	12.6	7.7*	24.5	30"	0.4	5.0	23	*50 yr. storm H[illegible]
E-2	Exist.	OO	-	8.75	0.8	7.1	-	5	5.1	10.9	7.8*	55.2	30"	1.9	11.0	20	*50 yr. storm Ult[illegible]
I-11	I-11	LL,PP	[illegible]	[illegible]	[illegible]	[illegible]		5	-	5	6.8	7.8 / 0.68					
I-11	I-14	LL,PP		[illegible]			1.15	5				7.8	15"	1.60	4.3	[illegible]	
	I-4	MM	1.76		[illegible]	[illegible]											
	I-4	QQ	0.[illegible]		[illegible]	[illegible]	1.15	5	-	5	6.8	7.82					
I-14	B-50	LL,PP,MM,QQ		12.41			[illegible]	5	[illegible]	[illegible]	6.6	15.40	24"	0.50	4.3	[illegible]	
	I-13	NN	6.80		0.95	0.95		5	-	5	6.8	6.42					
	I-13	RR	0.39		[illegible]	0.14		5	-	5	[illegible]	0.96					
I-13	I-12	NN,RR		1.30			[illegible]	5	-	5	[illegible]	7.42	15"	1.6	6.0	[illegible]	10 yr. Storm
	I-12	SS	0.71		0.95	0.67		5	-	5	6.8	4.56					
I-12	B-51	NN,RR,SS		2.01			1.76	5	0.14	5.14	6.8	12.0	21"	0.50	5.0	[illegible]	

INLET SCHEDULE

No.	Type *	Invert Out	Top Elev.	Q-CFS	Remarks
I-1	"S"	210.43	213.42	4.2	See Ho. Co. Dtls.
I-2	"S"	[illegible]	211.37	5.5	"
I-3	Double "S"	[illegible]	209.40	12.0	"
I-4	"S"	[illegible]	209.40	6.7	"
I-5	"S"	[illegible]	209.40	6.7	"
I-6	"S"	[illegible]	209.40	6.7	"
I-7	"S"	[illegible]	209.40	5.6	"
I-8	"S"	[illegible]	210.4	6.8	"
I-9	"S"	[illegible]	210.22	5.6	"
I-10	Double "S"	[illegible]	209.40	12.8	"
I-11	"S"	[illegible]	206.20	8.4	"
I-12	"S"	[illegible]	214.30	3.8	"
I-13	"S"	[illegible]	201.50	6.93	"
I-14	"S"	[illegible]	209.50	7.82	"

* "S" - Single Grate
*"Double S" - Double Grate



GEORGE WILLIAM STEPHENS, JR.
AND ASSOCIATES, INC.
ENGINEERS
303 W. ALLEGHENY AVE.
TOWSON, MARYLAND 21204

APPROVED
DIVISION OF LAND DEVELOPMENT
AND TRANSPORTATION PLANNING
HOWARD COUNTY, MARYLAND
DATE 5/12/72
J.H. Clawson

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.
COUNTY HEALTH OFFICER — DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE
CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT — DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, AND STORM DRAINAGE SYSTEMS, AND ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE
CHIEF BUREAU OF HIGHWAYS — DATE

donald n. coupard · associates a.i.a.
architects planners
6010 executive boulevard
rockville maryland

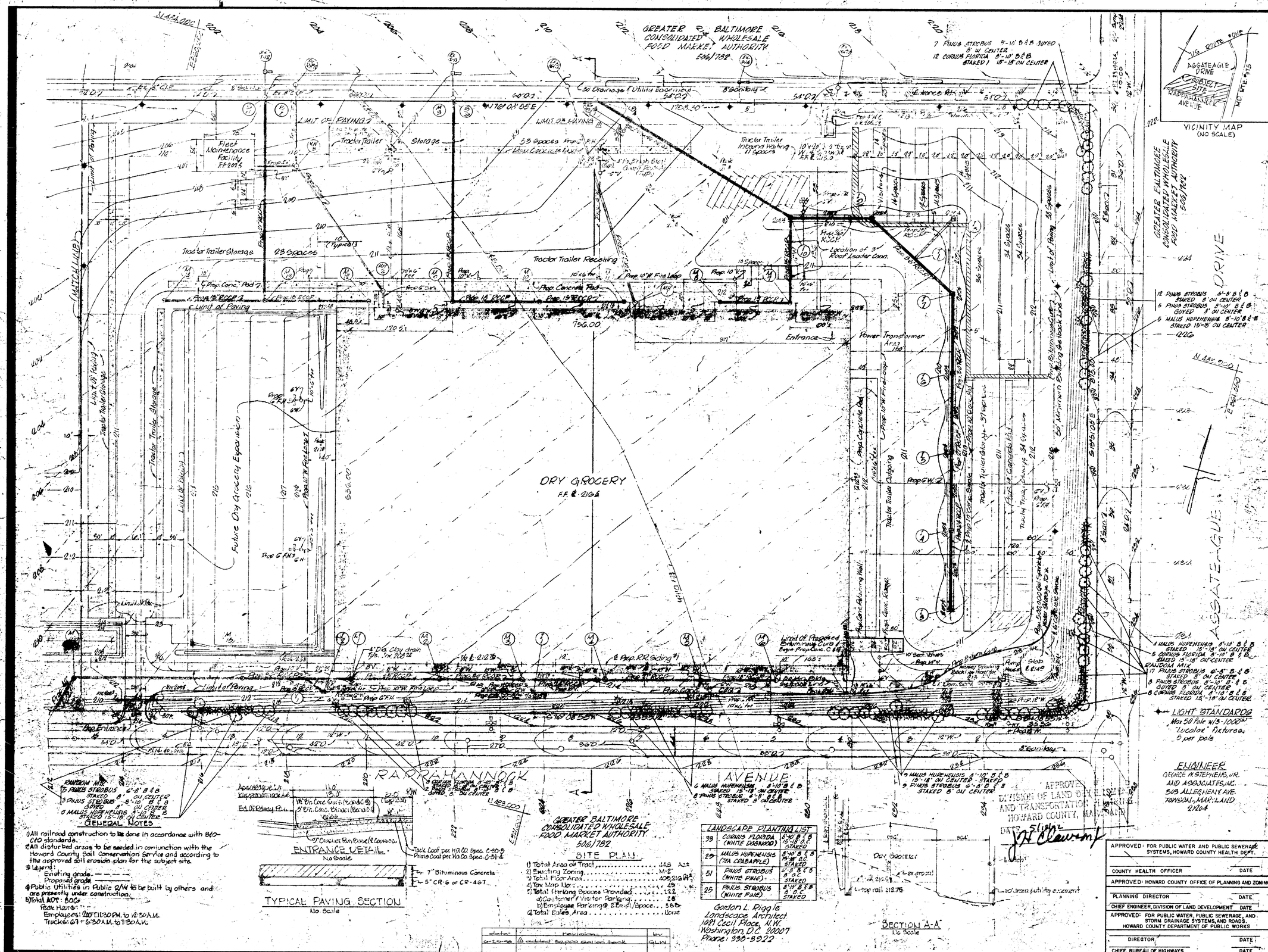
DNC

SITE PLAN
GIANT FOOD
Howard Co., Maryland

DRAWN
JOB NUMBER
REVISIONS
Revised May 3, 1972
ISSUED

Professional Engineer
Reg. No. [illegible] Date 5/8/72

SDP-72-77

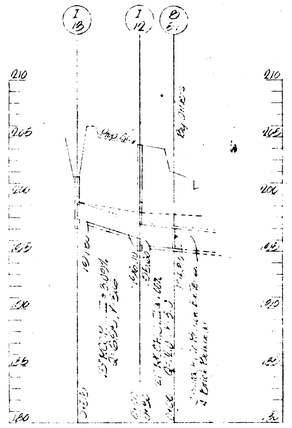

GREATER BALTIMORE CONSOLIDATED WHOLESALE FOOD MARKET AUTHORITY
506/782
DRY GROCERY
F.F.E. 210.6
Future Dry Grocery Expansion
Fleet Maintenance Facility FF 207.5
Tractor Trailer Storage
Tractor Trailer Receiving
Tractor Trailer Outgoing
Power Transformer Area
Location of 3" Roof Leader Conn.
Entrance
RAPPAHANNOCK AVENUE
ASSATEAGUE DRIVE
VICINITY MAP
(NO SCALE)
AGATEAGLE DRIVE
SUBJECT SITE
RAPPAHANNOCK AVENUE
US ROUTE 1
GENERAL NOTES
1) All railroad construction to be done in accordance with B&O CRO standards.
2) All disturbed areas to be seeded in conjunction with the Howard County Soil Conservation Service and according to the approved soil erosion plan for the subject site.
3) Legend:
Existing grade
Proposed grade
4) Public Utilities in Public R/W to be built by others and are presently under construction.
5) Total ADT: 800
Peak Hours:
Employees: 200 - 11:30 P.M. to 12:30 A.M.
Trucks: 67 - 6:30 A.M. to 7:30 A.M.
TYPICAL PAVING SECTION
No Scale
ENTRANCE DETAIL
No Scale
SITE PLAN
1) Total Area of Tract ..... 44.8 Ac±
2) Existing Zoning M-2
3) Total Floor Area ..... 408,212 SF±
4) Tax Map No. 42
5) Total Parking Spaces Provided 122
a) Customer/Visitor Parking 28
b) Employee Parking @ 2 Emp./Space 560
6) Total Sales Area ..... None
LANDSCAPE PLANTING LIST
39 CORNUS FLORIDA (WHITE DOGWOOD) 8'-10' B&B 15'-18' O.C. STAKED
29 MALUS HUPEHENSIS (TEA CRABAPPLE) 8'-10' B&B 15'-18' O.C. STAKED
51 PINUS STROBUS (WHITE PINE) 6'-8' B&B 8' O.C. STAKED
25 PINUS STROBUS (WHITE PINE) 8'-10' B&B 8' O.C. STAKED
Gordon L. Riggle
Landscape Architect
1891 Cecil Place, N.W.
Washington, D.C. 20007
Phone: 330-8922
SECTION "A-A"
No Scale
LIGHT STANDARDS
Max 50 Pole w/8-1000W "Lucalox" Fixtures. 8 per pole
ENGINEER
GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
305 ALLEGHENY AVE.
TOWSON, MARYLAND 21204
APPROVED
DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION
HOWARD COUNTY, MARYLAND
DATE 5/19/72
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.
COUNTY HEALTH OFFICER DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR DATE
CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, AND STORM DRAINAGE SYSTEMS, AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIREGTOR DATE
CHIEF, BUREAU OF HIGHWAYS DATE
date revisions by
6-23-72 added 30,000 gallon tank GLW
donald n. coupard associates a.i.a.
architects planners
T.W. and S.L.F.
DRAWN
JOB NUMBER
REVISIONS
Revised May 3, 1972
ISSUED
SDP-72-77

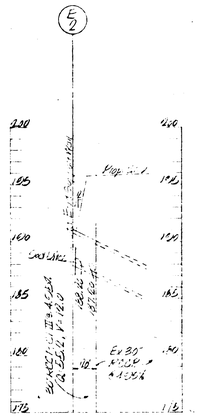
MANHOLE SCHEDULE

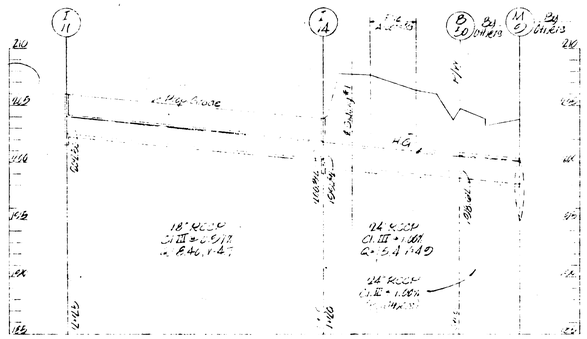
No.	Type	Size	Invert Out	Top Elev	Remarks
M-1	B	48"x48"	406.62	414.48	See Dwg.
M-2	B		406.16	414.20	
M-3	B		408.74	416.81	
M-4	B		408.14	414.18	
M-5	B		410.60	414.48	
M-6	B		410.71	416.81	
M-7	B		410.81	416.48	
M-8	B		408.[illegible]	414.[illegible]	See Dwg.
M-9	Standard		[illegible]	[illegible]	See Ho. Co. Std.
M-10	B		[illegible]	414.[illegible]	
M-11	B		[illegible]	414.[illegible]	See Dwg.
M-12	B		[illegible]	414.[illegible]	See Dwg.
M-13	Standard		[illegible]	[illegible]	See Ho. Co. Std.
M-14	B		[illegible]	414.[illegible]	See Dwg.
M-15	B		[illegible]	414.[illegible]	See Dwg.
M-16	B		[illegible]	414.[illegible]	See Dwg.

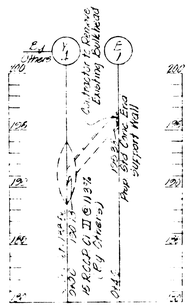
STRUCTURE SCHEDULE

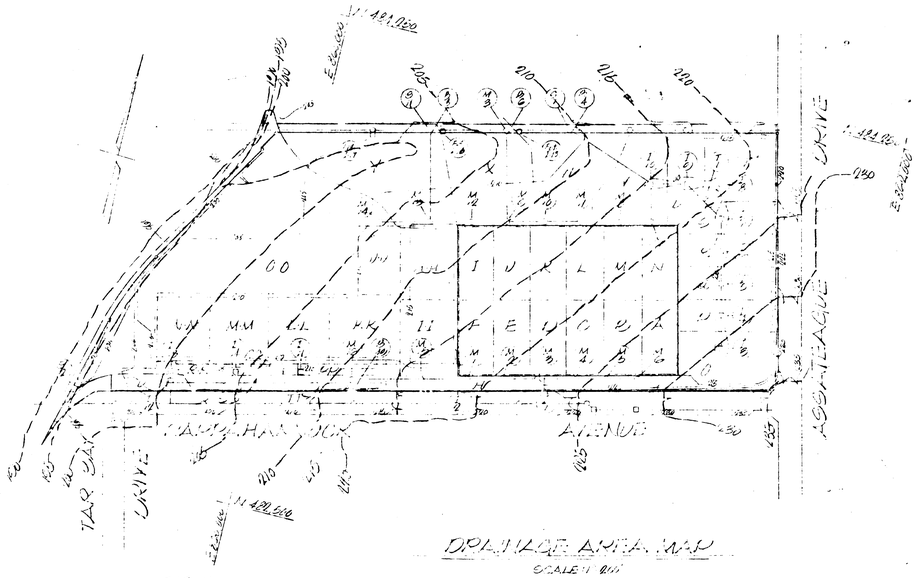
No.	Type	Size	Invert Out	Top Elev	Remarks
E-1	Standard End Support Wall	15"	195.38	196.42	See Ho. Co. Std.
E-2	Standard End Support Wall	30"	198.20	198.95	See Ho. Co. Std.
T-1	Tee Fitting	36"x18"	201.20		











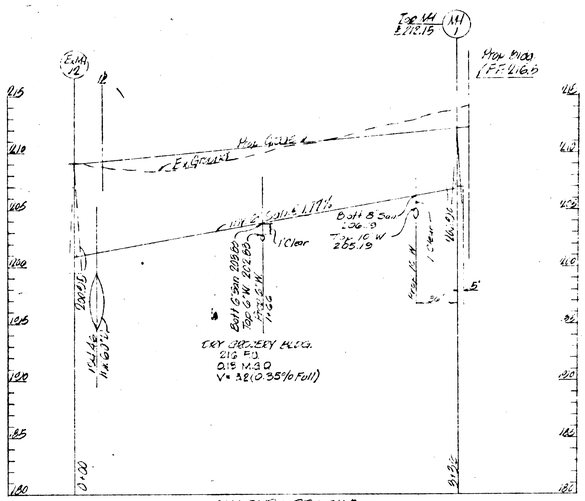
DRAINAGE AREA MAP
SCALE: 1" = 100'

LEGEND
Ex. Grd. Shown Thus
Fin. Grade Shown Thus

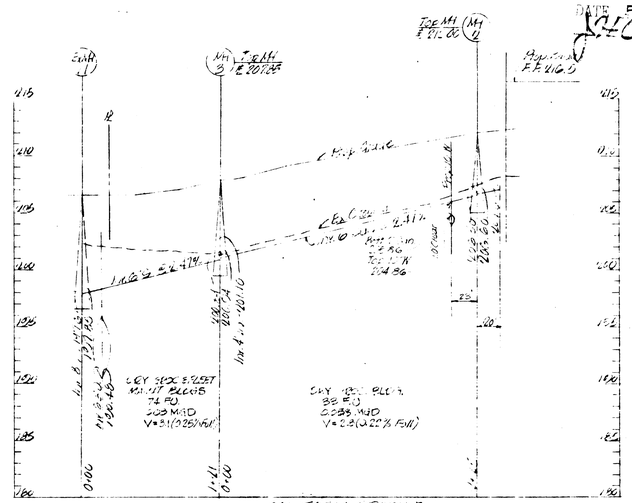
DRAINAGE AREAS

Area	Acres	C	Area	Acres	C	Area	Acres	C	Area	Acres	C	Area	Acres	C
A	0.76	.25	K	0.77	.25	I	[illegible]	.25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
B	0.72	.25	L	0.90	.25	H	2.05		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C	0.70	.25	M	0.82	.25	J	2.33		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
D	0.73	.25	N	0.76	.25		2.65	.25						
E	[illegible]	.25	O	[illegible]	.90		3.20	.14	[illegible]	[illegible]	[illegible]			
F	[illegible]	.25	P	[illegible]	.25									
G	[illegible]	.25	Q	[illegible]	.25									
			R	[illegible]	.25									
			S	[illegible]	.25									
			T	[illegible]	.25									

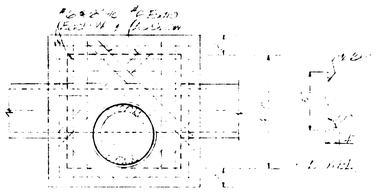
APPROVED
DIVISION OF LAND DEVELOPMENT
AND TRANSPORTATION PLANNING
HOWARD COUNTY, MARYLAND
DATE 5-2-72



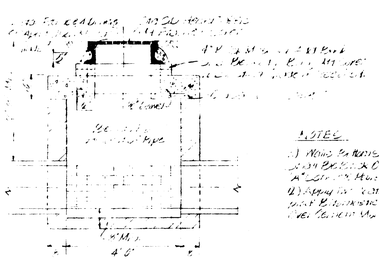
SANITARY PROFILE



SANITARY PROFILE



PLAN



SECTION

TYPE "B" MANHOLE (SHEET 10)
NO SCALE

NOTES

GEORGE WILLIAM STEPHENS, JR.
AND ASSOCIATES, INC.
ENGINEERS
303 W. ALLEGHENY AVENUE
TOWSON, MARYLAND 21204

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.	APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING	APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, AND STORM DRAINAGE SYSTEMS, AND ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
COUNTY HEALTH OFFICER — DATE	PLANNING DIRECTOR — DATE	DIRECTOR — DATE
	CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT — DATE	CHIEF, BUREAU OF HIGHWAYS — DATE

donald n. coupard · associates · a.i.a.
architects planners
[illegible]

SANITARY & STORM DRAIN DETAILS
GIANT FOOD
[illegible]

DRAWN
JOB NUMBER
REVISIONS
Revised May 8, 1972

ISSUED

[illegible] P.E.
Professional Engineer
Reg. No. 5048 Date: 3/8/72

SDP-72-77