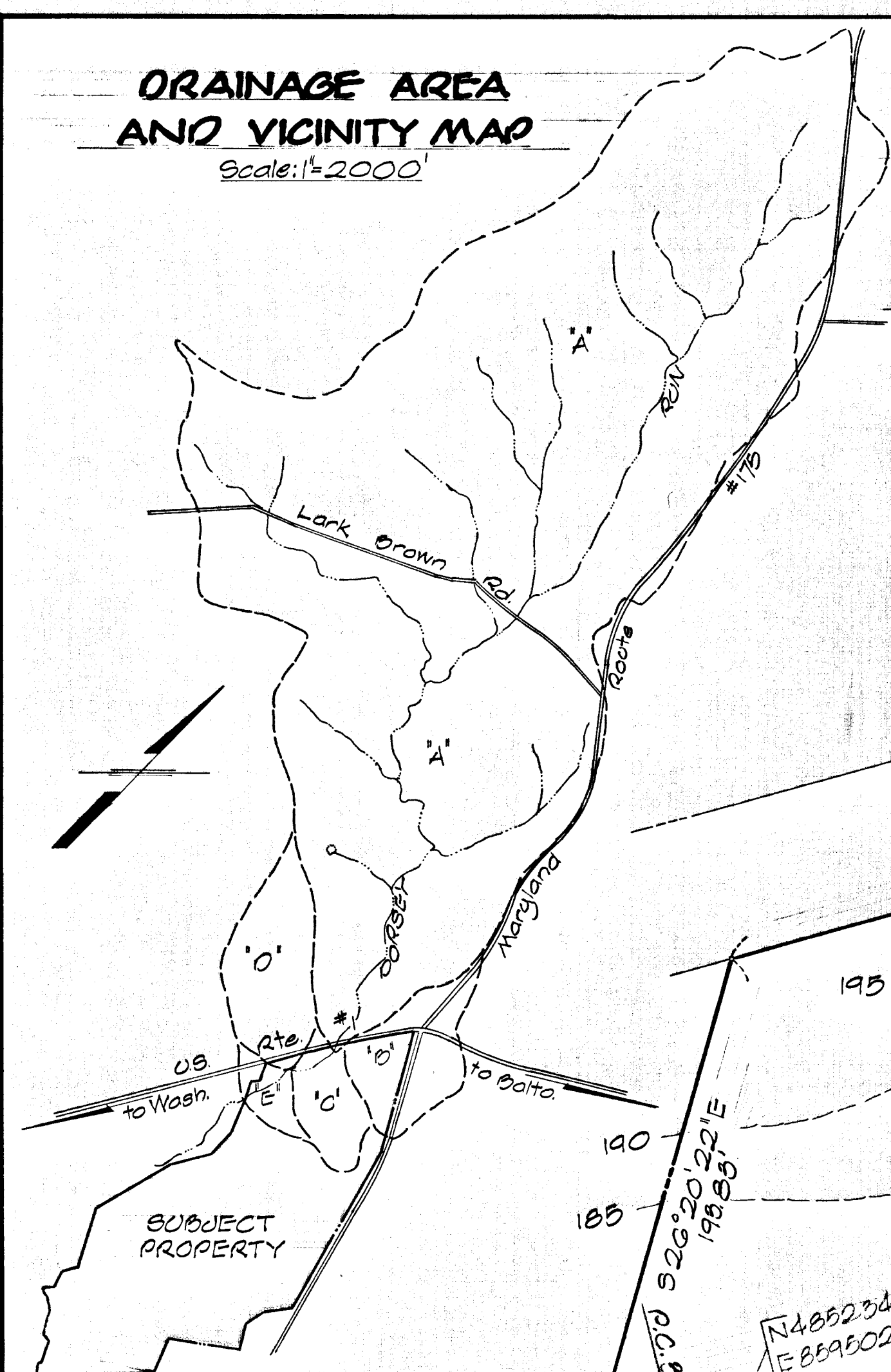
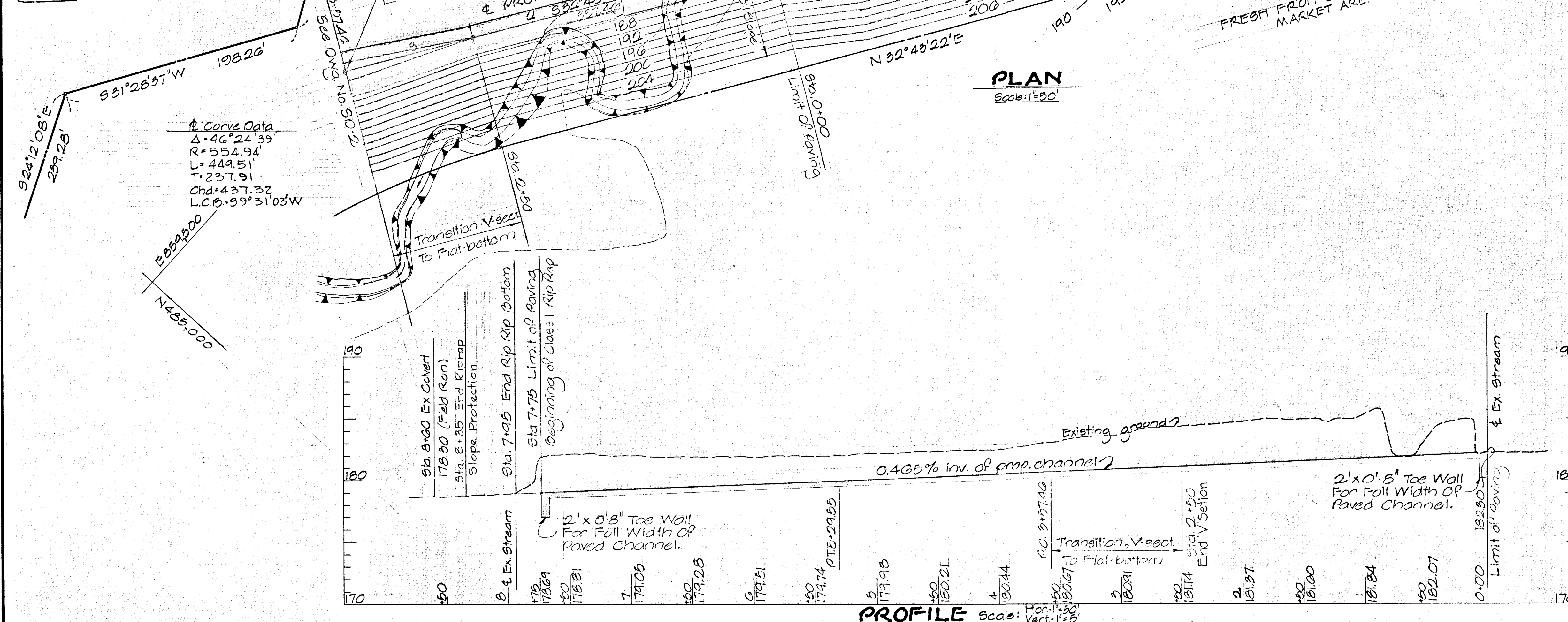


DRAINAGE AREA AND VICINITY MAP
Scale: 1"=2000'



DRAINAGE COMPUTATIONS

Area	Acreage	C	CA	Time	I ₅₀	K(%)	Q ₅₀ (CFS)
A	1990	0.60	1195	58	3.2	92.3	3530
B	79	0.50	395	15	7.2	—	262
C	41	0.80	328	12	8.0	—	232
D	91	0.60	546	15	7.2	—	292
E	22	0.80	176	10	8.2	—	145
A-E	2217	0.60	1330.6	62	3.1	92.2	3210



REVISIONS		
DATE	DESCRIPTION	BY
4-4-69	Limit of Riprap in Profile & Concrete Channel Plan Title Block.	W.L.D. T.W.
5-15-69		

OWNER & DEVELOPER GREATER BALTIMORE FOOD MARKET AUTHORITY 1015 ONE CHARLES CENTER BALTIMORE, MD 21201	ENGINEER GEORGE STEPHENS, JR. & ASSOC., INC. 508 ALLEGHENY AVE TOWSON, MARYLAND 21284
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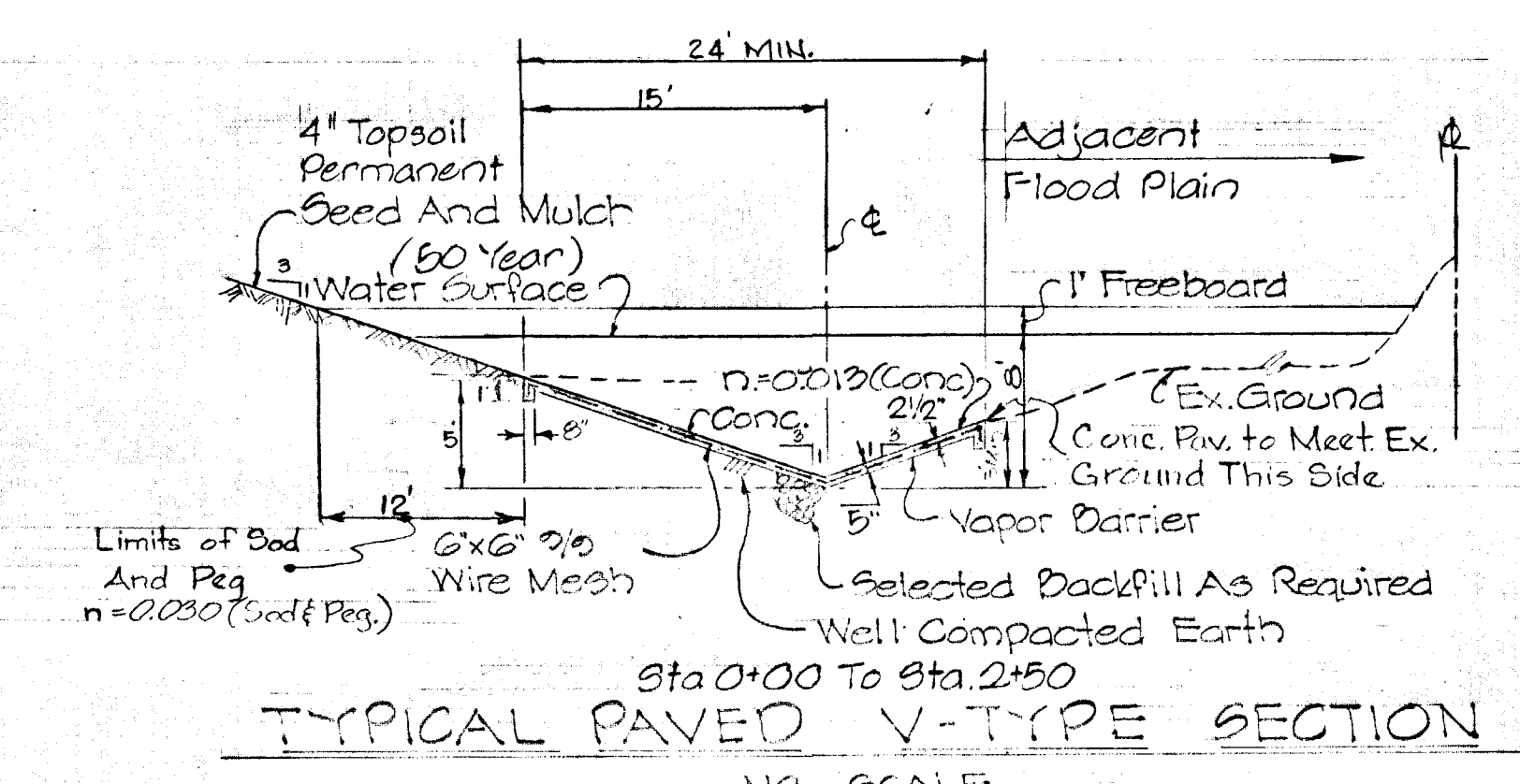
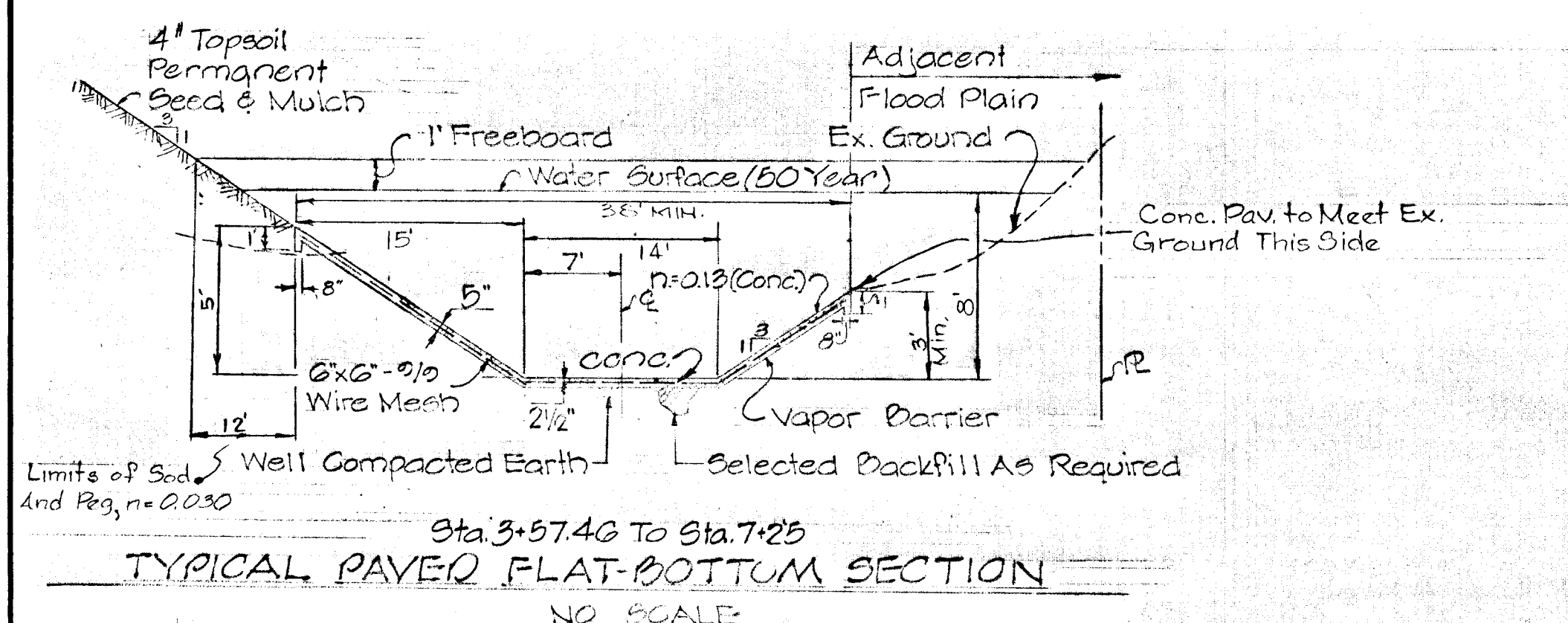
APPROVED: HO.CO. DEPT. PUBLIC WKS. DATE: Dec. 30, 1968
Francis P. Wehler
 CHIEF, BUREAU OF HIGHWAYS

APPROVED: HO.CO. OFF. PLAN & ZONING.
 CHIEF ENGINEER, DIV OF LAND DEV. DATE: *Charles E. Fick*

STORM DRAIN CHANNEL PLAN
 REALIGNMENT OF DORSEY RUN
 PHASE ONE
GREATER BALTIMORE CONSOLIDATED WHOLESALE FOOD MARKET
 HOWARD CO., MD. ELECT. DIST. 6
 SCALE: AS SHOWN DEC 27, 1968

Drawing Number: **50-1**

#28

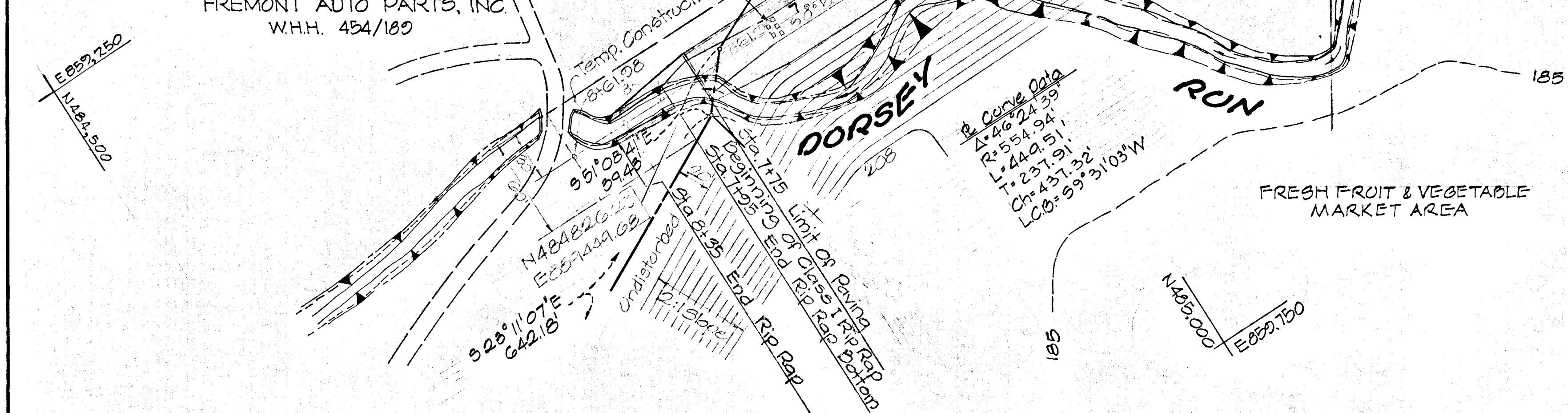
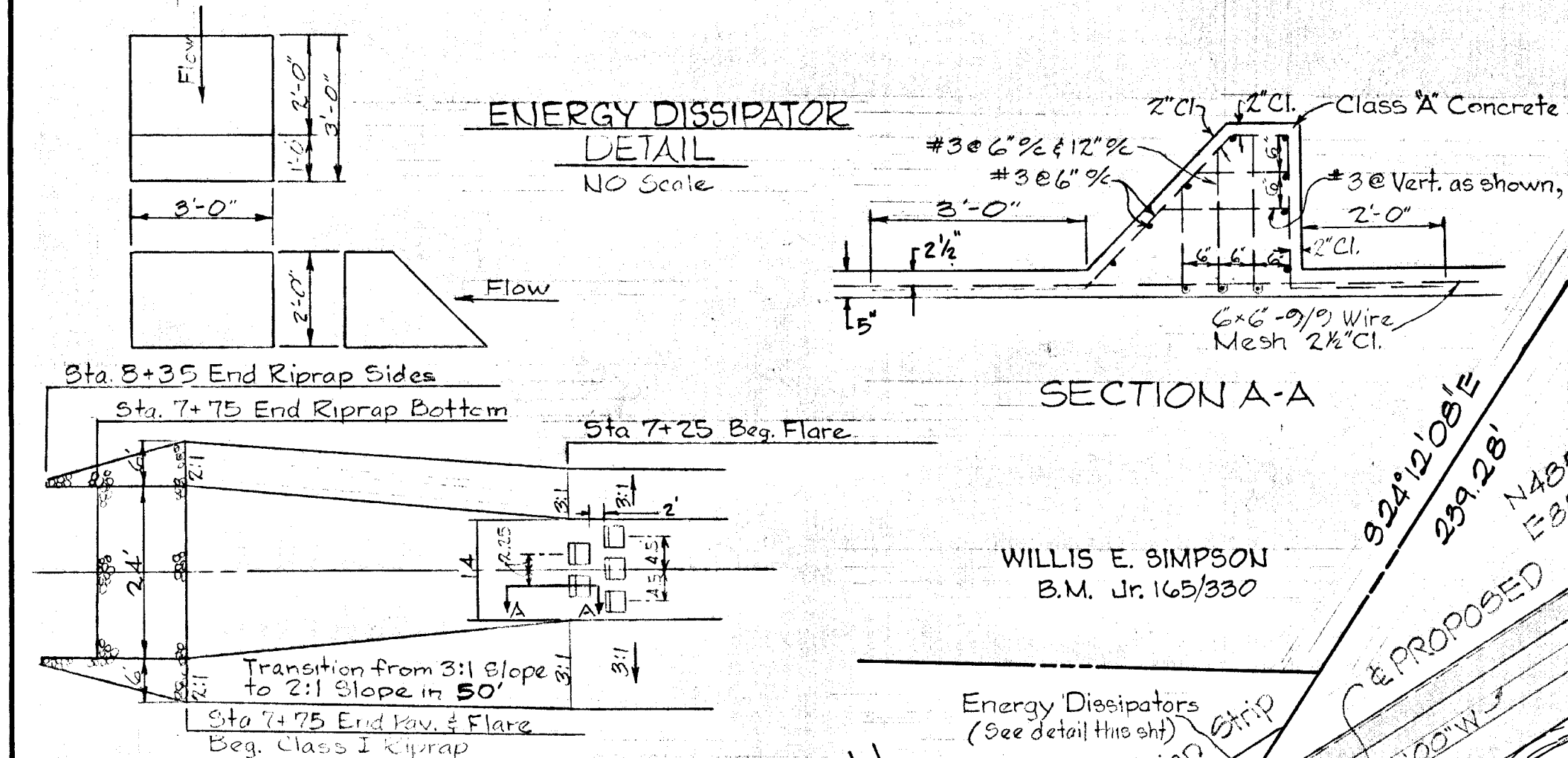


CONSTRUCTION NOTES

- 1-Construct Channel Paving And Rip Rap Outfall Before Relocating Stream.
- 2-Clean And Align Stream In Temporary Construction Strip
- 3-Relocate Stream
- 4-Construct 3:1 Slopes As Shown On Site Grading Plan.

GENERAL NOTES

- CONCRETE:** All concrete shall be Class A-1 concrete, P.C. = 2500 P.S.I. at the end of 28 Days.
- DAMP-PROOFING AND WATERPROOFING:** Construction, Contraction And Expansion Joints With Backfill On One Side And Atmosphere On The Other Side Must Be Effectively Waterproofed With 2 Ply Membrane 18" Wide And Damp-proofed On Backfill Side.
- REINFORCING STEEL:** Wire Mesh For Reinforcement Shall Be Composed Of Cold Drawn Steel Wire Meeting The Requirements Of A.S.T.M. Designation: A-185
- SOODING:** All Sod To Be Staked With 1/2"x1 1/2" Wooden Stakes On 24" Centers Both Ways.
- TREE PROTECTION:** Contractor To Protect All Trees Between U.S. Rte. 1 And Work Limits As Shown Hereon.
- ENERGY DISSIPATOR:** The (3) Concrete Energy Dissipators shall be of monolithic construction and shall be poured as an integral part of the concrete Channel Paving



HYDRAULIC COMPS.

TYP. FLAT-BOTTOM SECTION

STA. 7+00

Total Area = 514 ft²
 Total W.P. = 130 ft
 n_{conc} = 0.050*
 R = 3.96
 R^{2/3} = 2.503
 V = 7.39/SEC.
 S_{EL} = 0.0059 ft/ft
 *n_{conc} = 0.013, n_{sop} = 0.030, n_{wat.fr} = 0.060
 Q_{cap} = 3800 c.f.s.

TYP. V-TYPE SECTION

STA. 0+50

Total Area = 552.5 ft²
 Total W.P. = 173 ft
 n_{comp} = 0.036*
 R = 3.19
 R^{2/3} = 2.167
 V = 6.88/SEC.
 S_{EL} = 0.0059 ft/ft
 *n_{conc} = 0.013, n_{sop} = 0.030, n_{wat.fr} = 0.040
 Q_{cap} = 3800 c.f.s.
 Note: Hydraulic comps. by backwater method

REVISIONS

DATE	DESCRIPTION	BY
A-4-69	Concrete Channel Sections, Plan, and Comps.	W.L.D.
B-15-69	Title Block.	T.W.

OWNER & DEVELOPER GREATER BALTIMORE FOOD MARKET AUTHORITY 1015 ONE CHARLES CENTER BALTIMORE, MD 21201	ENGINEER GEORGE STEPHENS, JR. & ASSOC., INC. 502 ALLEGHENY AVE. TOWSON, MARYLAND 21284
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APPROVED: HO. CO. DEPT. PUB. WORKS Dec. 30, 1968

Irwin W. Meheand 6-20-68
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: HO. CO. OFF. PLAN. & ZON.

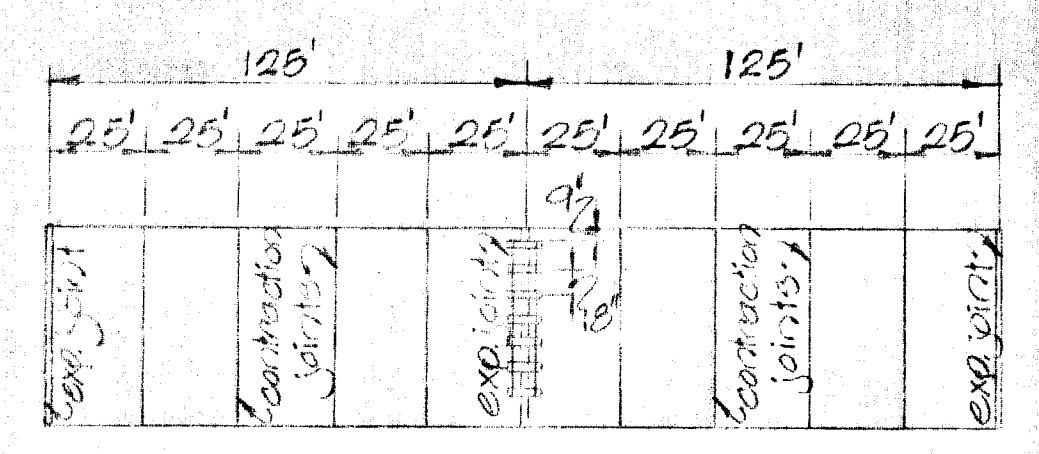
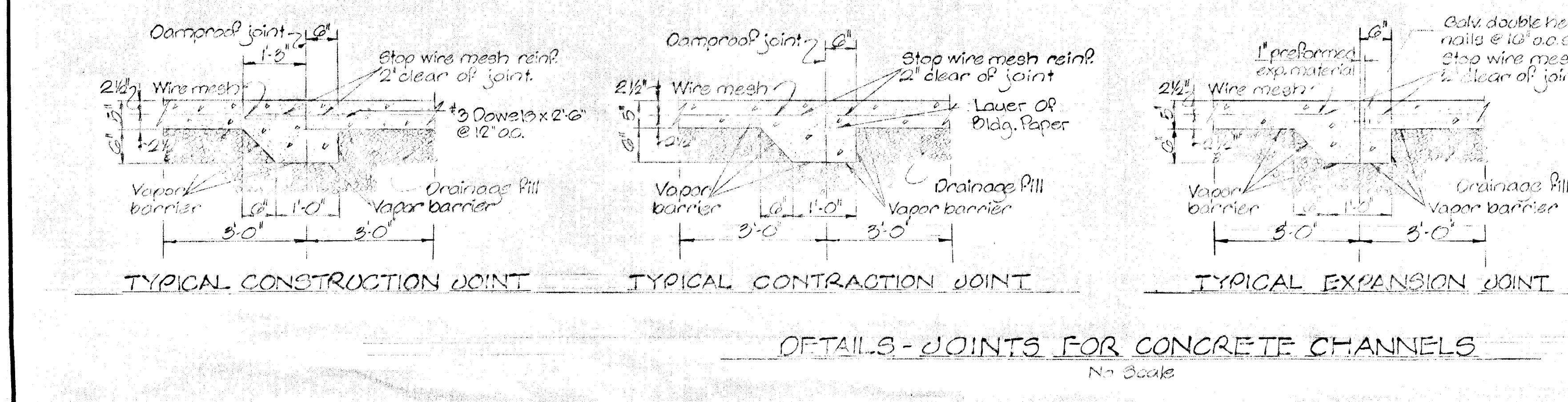
CHIEF ENG., DIV. OF LAND DEV. DATE *Charles E. Kich*

STORM DRAIN CHANNEL PLAN
REALIGNMENT OF DORSEY RUN
PHASE ONE

GREATER BALTIMORE CONSOLIDATED WHOLESALE FOOD MARKET

HOWARD CO., MD. SCALE AS SHOWN ELECT. DIST. #6
DEC. 27, 1968

Drawing Number **50-2**



#28