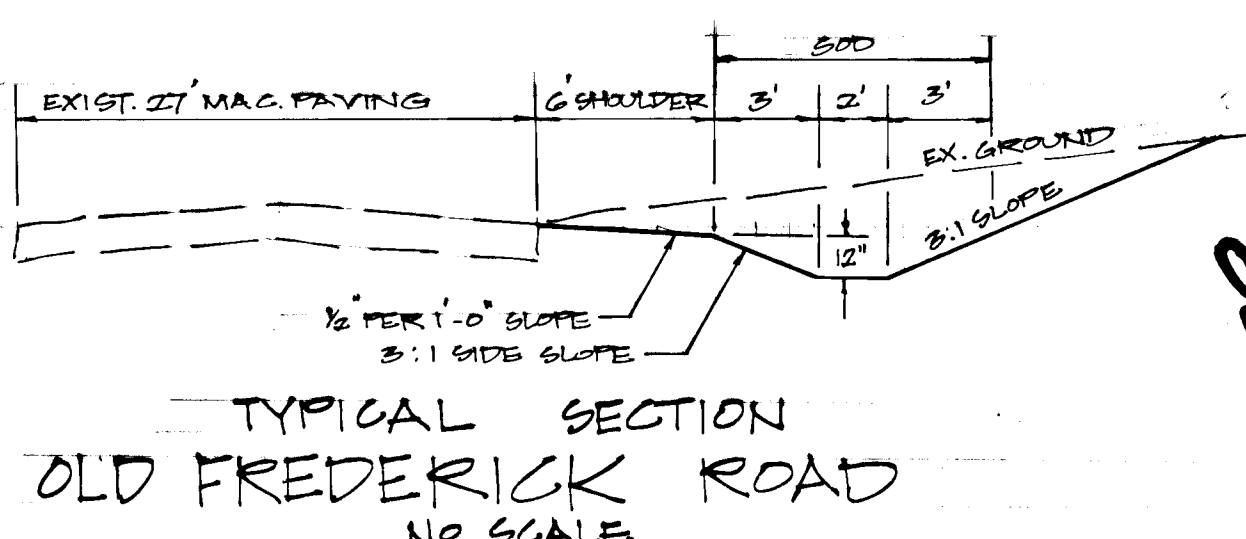


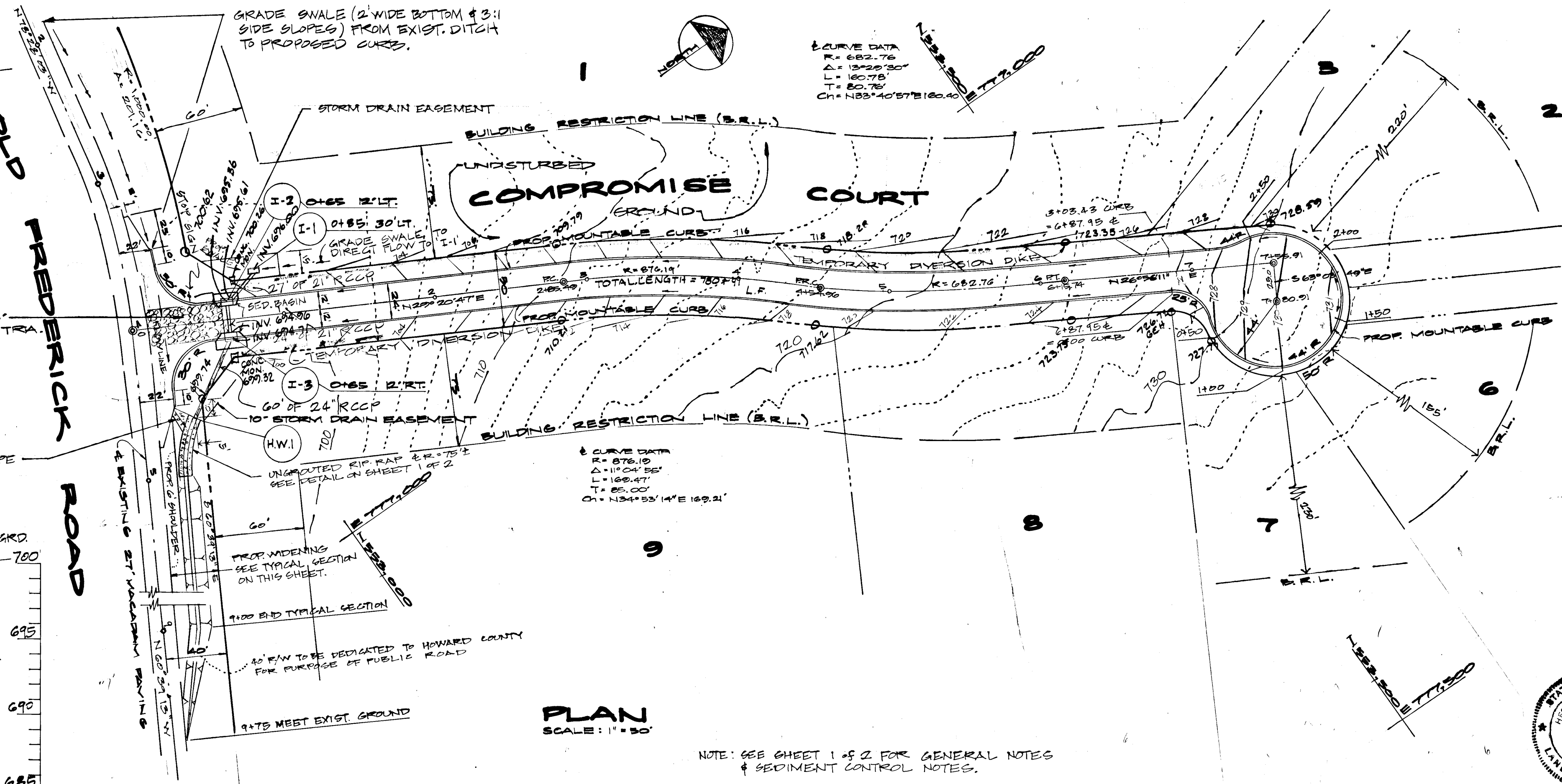
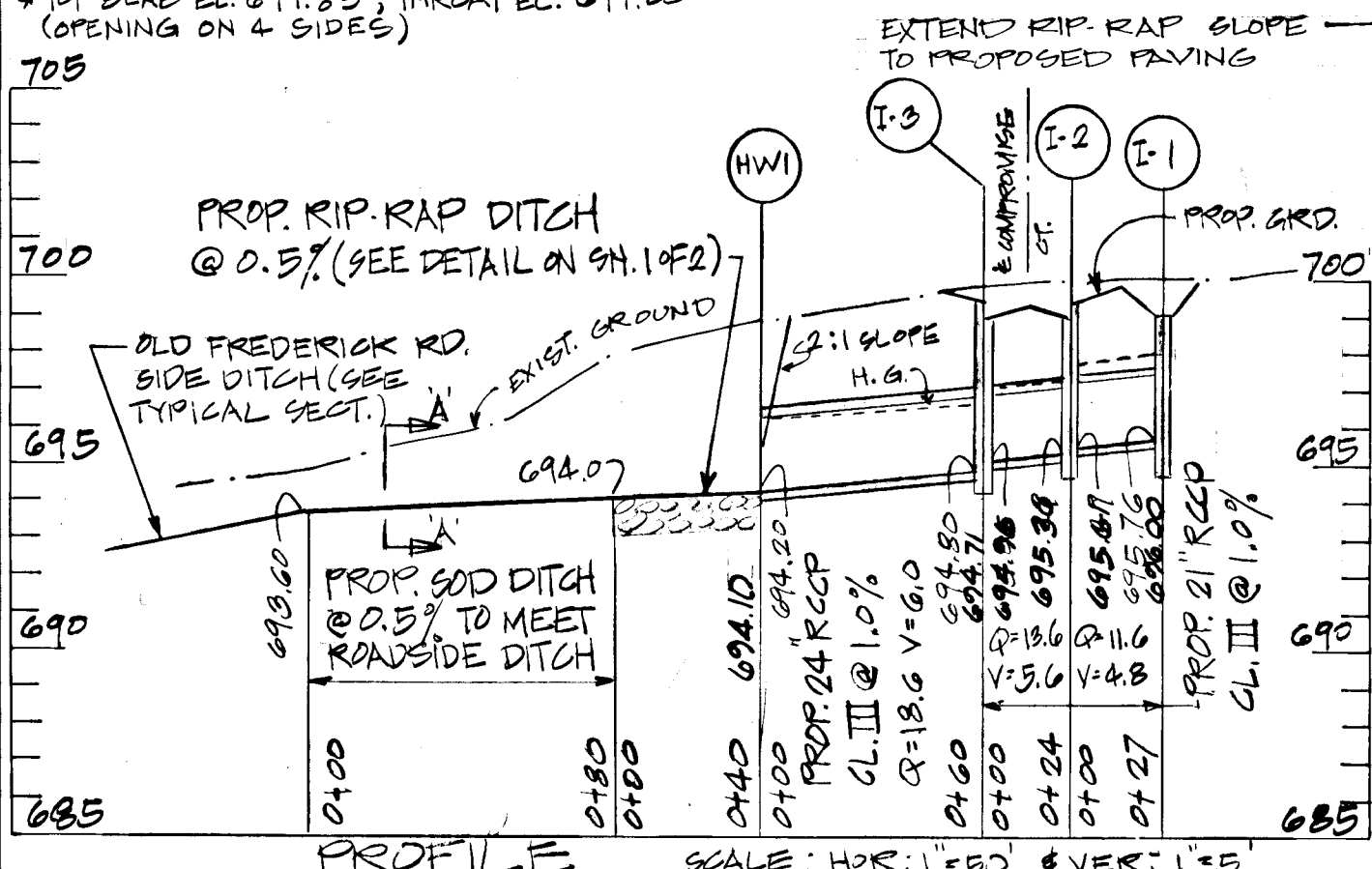
DATE: _____ BY: _____
 SURVEYED, PLOTTED, CHECKED, NO. _____
 ALIGNMENT CHECKED, NO. _____
 RT. OF INT. CHECKED, NO. _____

DATE: _____ BY: _____
 SURVEYED, PLOTTED, CHECKED, NO. _____
 GRADES CHECKED, NO. _____
 STRUCTURE NOTATIONS CHECKED, NO. _____



NOTE: EARTH SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION C-5.2 OF THE STANDARD SPECIFICATIONS.

NUMBER	TYPE	INV. IN.	INV. OUT	TOP ELEV	ST'D DETAIL
I-1	CLASS 'C' INLET	698.76	699.83	DWG # 64 C	
I-2	'S' COMB. INLET	695.44	695.29	T.6699.25	
I-3	'S' COMB. INLET	695.05	694.80	T.6699.25	
HW-1	CONC. END SECTION	694.20	-	-	SEE DETAIL ON SHEET 1

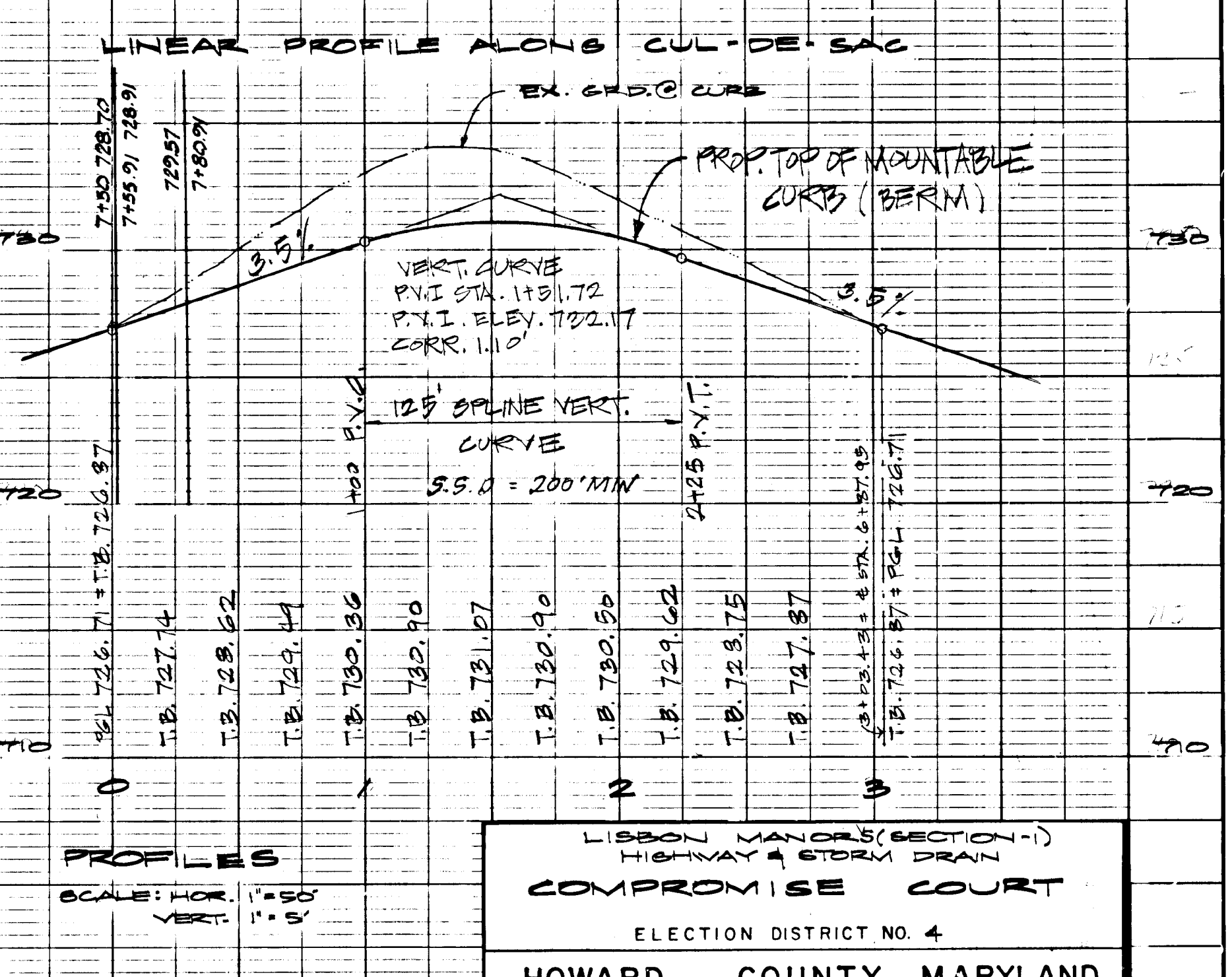
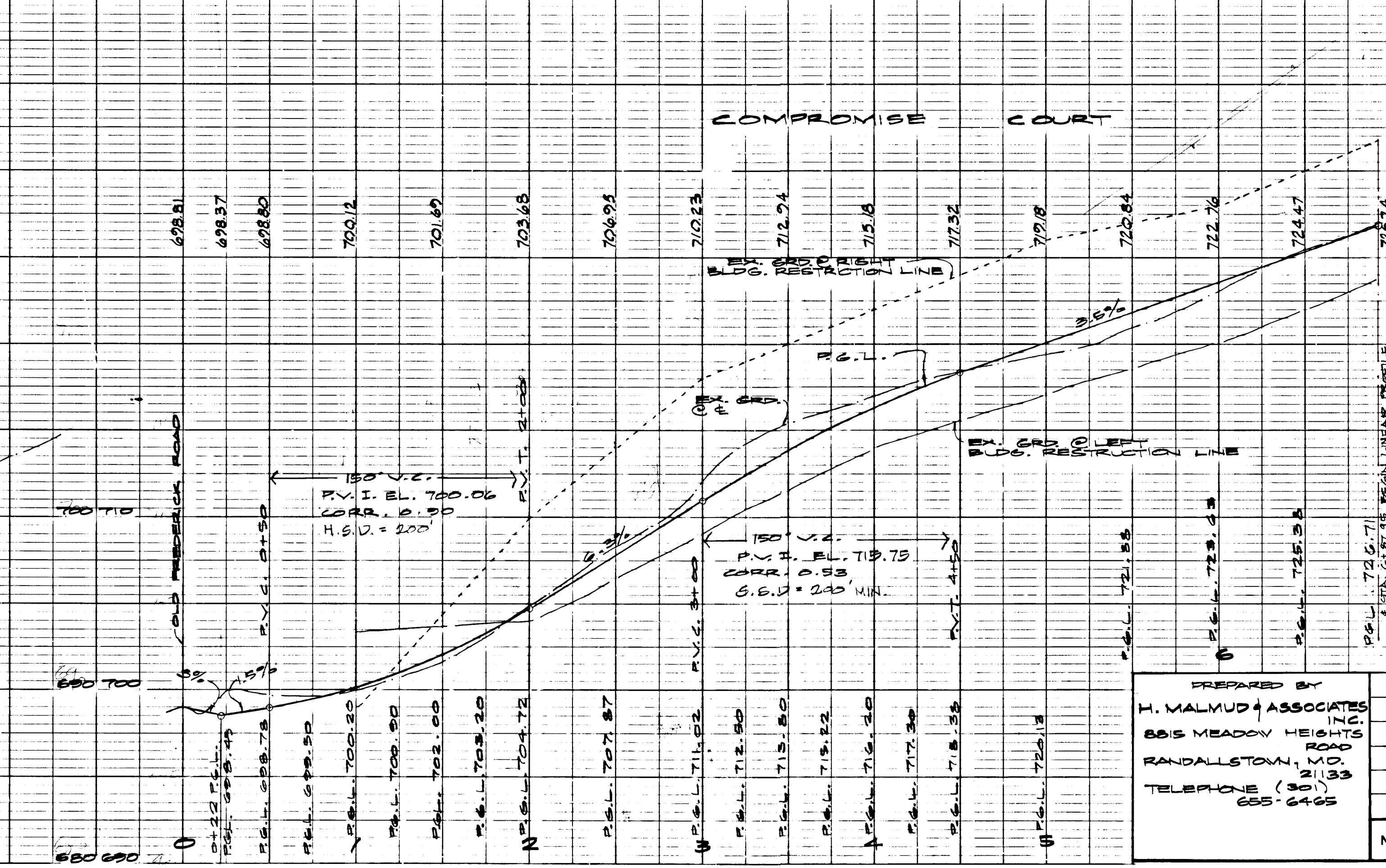
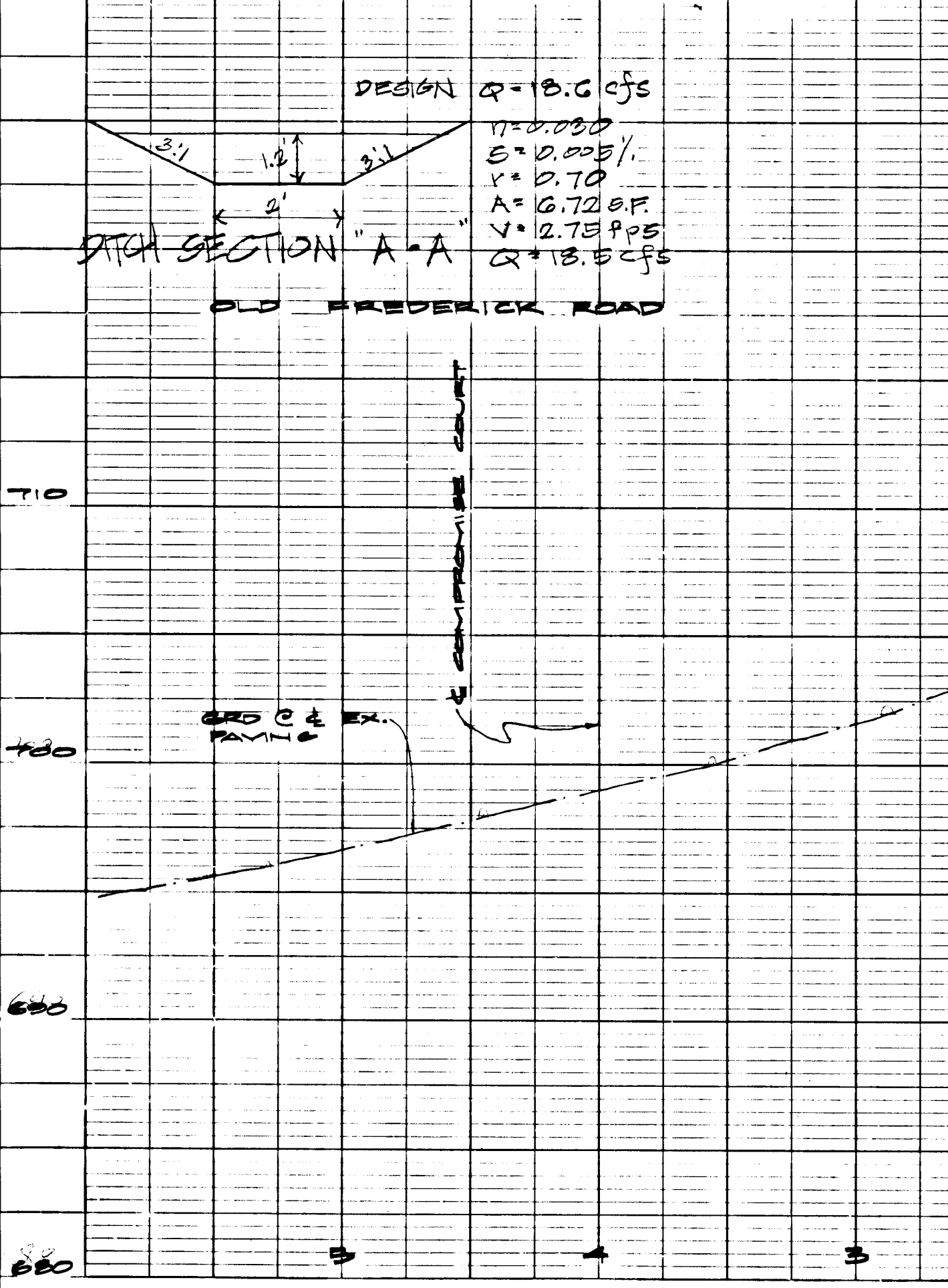


PLAN SCALE: 1"=50'

NOTE: SEE SHEET 1 OF 2 FOR GENERAL NOTES & SEDIMENT CONTROL NOTES.



OWNER - DEVELOPER
 SIMCO CORPORATION
 1001 W. HOLDCREST DRIVE
 SILVER SPRING, MD. 20908
 TELEPHONE (301) 593-7858



PREPARED BY
 H. MALMUD & ASSOCIATES
 8815 MEADOW HEIGHTS
 RANDALLSTOWN, MD 21133
 TELEPHONE (301) 655-6405

NUMBER	REVISION	DATE

LIBBOL MANORS (SECTION 1)
 HIGHWAY & STORM DRAIN
COMPROMISE COURT
 ELECTION DISTRICT NO. 4
 HOWARD COUNTY MARYLAND
 DEPARTMENT OF PUBLIC WORKS
 W.O. Albert 11-1-79
 CHIEF, BUREAU OF ENGINEERING DATE
 John W. Murchison 10-27-78
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

SEDIMENT CONTROL GENERAL NOTES

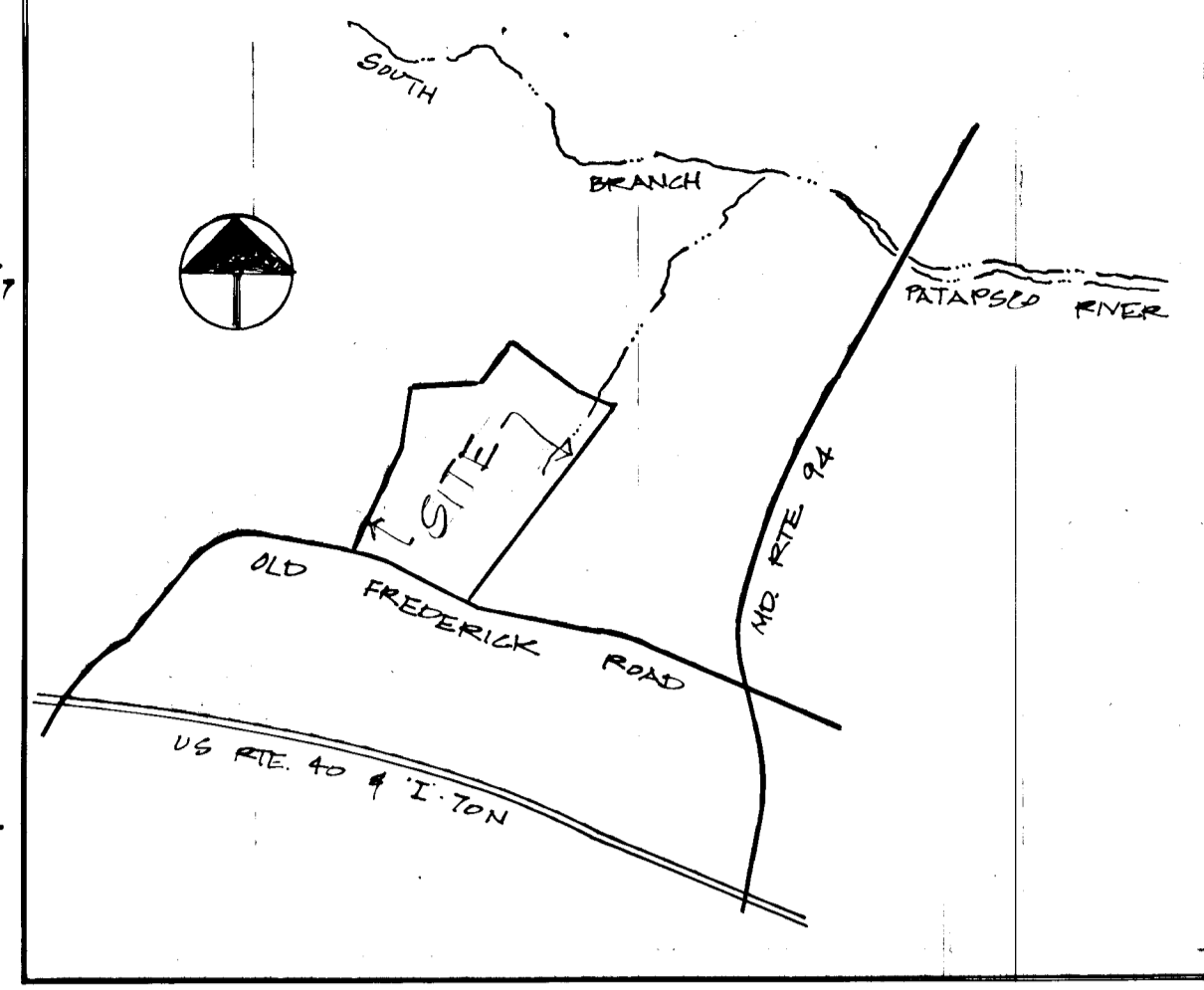
- 1) CONTRACTOR TO GIVE MINIMUM 24 HOUR NOTICE TO HOWARD SOIL CONSERVATION DISTRICT 465-3180.
- 2) EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED PRIOR TO GENERAL SITE GRADING.
- 3) PERMANENT SLOPES NOT TO EXCEED 3:1 IN FILL & 2:1 IN CUT. FILL SLOPES TO BE LEFT ROUGH TO PREVENT UNDER EROSION UNTIL READY TO STABILIZE.
- 4) LOCATION OF TEMP DIVERSION DIKES ARE APPROXIMATE AND SHALL MEET FIELD CONDITIONS.
- 5) ADDITIONAL SEDIMENT CONTROL MEASURES MAY BE REQ'D. BY FIELD CONDITIONS.
- 6) A CONCEPTUAL GRADING PLAN SHALL BE DEVELOPED BY THE BUILDER AND APPROVED BY HOWARD COUNTY, BEFORE ANY BUILDING PERMITS WILL BE ISSUED.

SEDIMENT CONTROL SEQUENCE OF CONSTR.

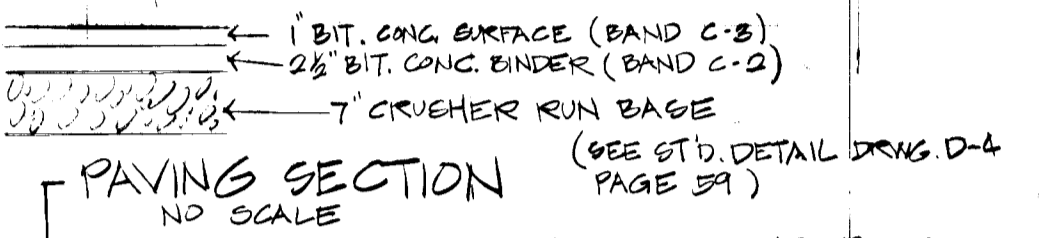
- PHASE I -**
- 1) GRADE AREA IN VICINITY OF PROPOSED STORM DRAIN SYSTEM TO ROAD SUB-GRADE.
 - 2) INSTALL STORM DRAIN SYSTEMS AND SEDIMENT BASING. (SEE THIS SHEET FOR DETAILS.)
 - 3) GRADE TEMP DIVERSION DIKES AND DITCHES TO DIRECT SURFACE FLOW TO PROPOSED BASINS @ INLETS.
 - 4) COMPLETE SITE GRADING & INSTALL TEMP STONE FILTERS.
- PHASE II -**
- 1) FILL AREA AROUND INLETS & INSTALL STONE FILTER ON FRONT SIDE OF INLET TO TOP ELEV. OF INLET (SEE DETAILS ON THIS SHEET)
 - 2) INSTALL ROAD PAVING SECTION - BITUMINOUS CONCRETE.

GENERAL NOTES FOR SOD AND SEEDING

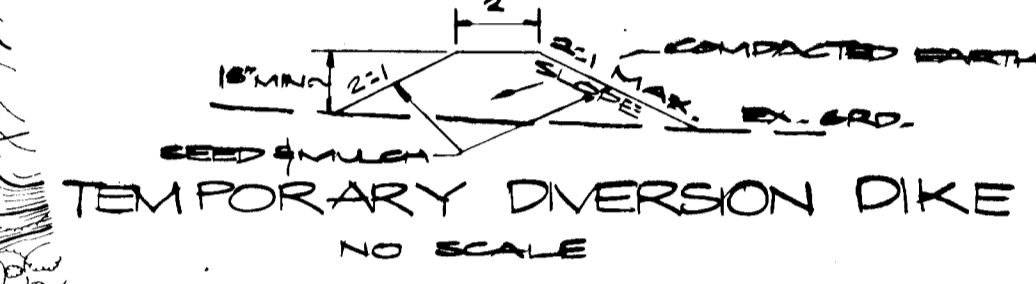
- 1) CROWN VETCH @ 20 LBS./ACRE (SEED TO BE SCARIFIED AND INOCULATED) OR KY-31 PEGGUE @ 40 LBS./ACRE SHALL BE USED ON ALL SLOPES STEEPER THAN 3:1. SOD WILL NOT BE PERMITTED.
- 2) TEMPORARY AND PERMANENT SEEDING AND SODDING SHALL CONFORM WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. SEE TABLES OF TURF SOD FOR THE SPECIFICATIONS AND SPECIFICATION FOR SOIL EROSION AND STABILIZATION DEVELOPING AGENCIES DATED JULY, 1975. TYPE OF SEED USED SHALL BE DEFINED ON THE TIME OF YEAR APPLIED. ALL SOD SHALL BE MARYLAND OR VIRGINIA STATE "CERTIFIED" OR APPROVED.
- 3) ALL DISTURBED AREAS, BEYOND PROPOSED PAVING, SHALL BE STABILIZED WITH KENTUCKY 31 TALL FESLU APPLIED AT A RATE OF 60 LBS./ACRE. FERTILIZE WITH 20-10-10 AT RATE OF 6.75 LBS. PER 1,000 SF. - APPLY STRAW MULCH TO SEEDING AREA AT A RATE OF 10 POUNDS PER 1,000 SF.



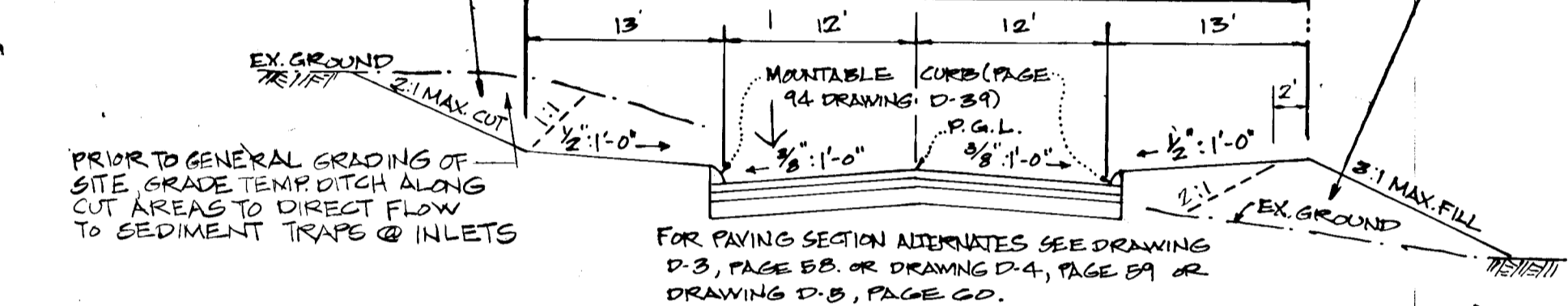
VICINITY MAP SCALE: 1" = 2,000'



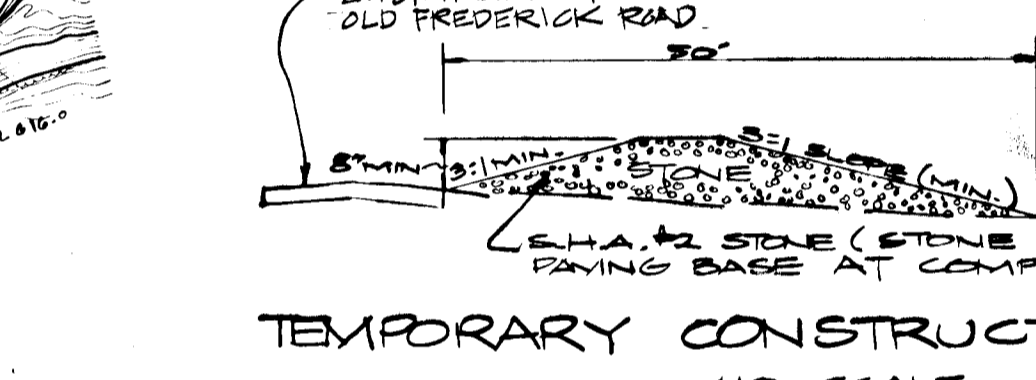
PAVING SECTION NO SCALE



TEMPORARY DIVERSION DIKE NO SCALE



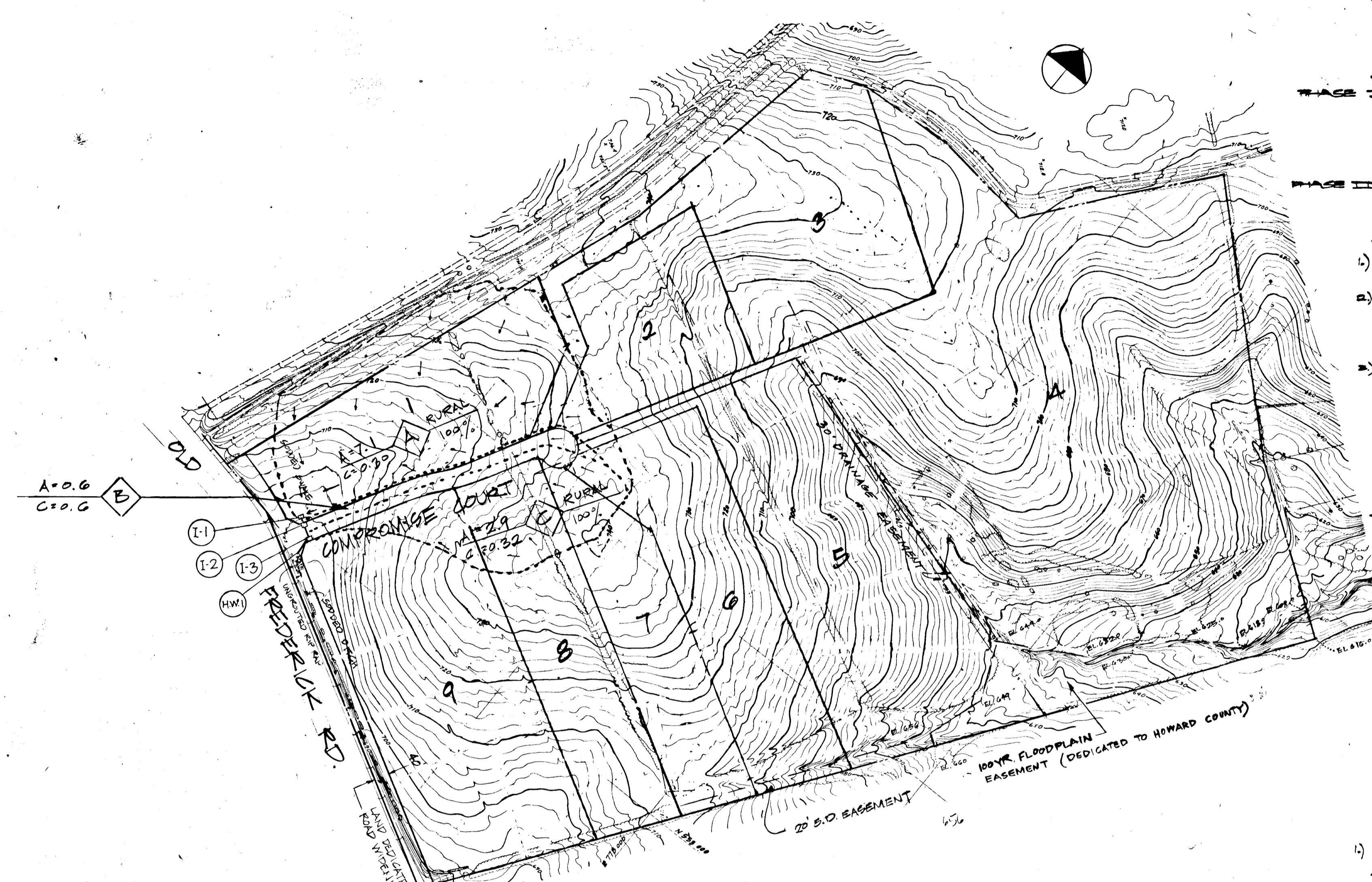
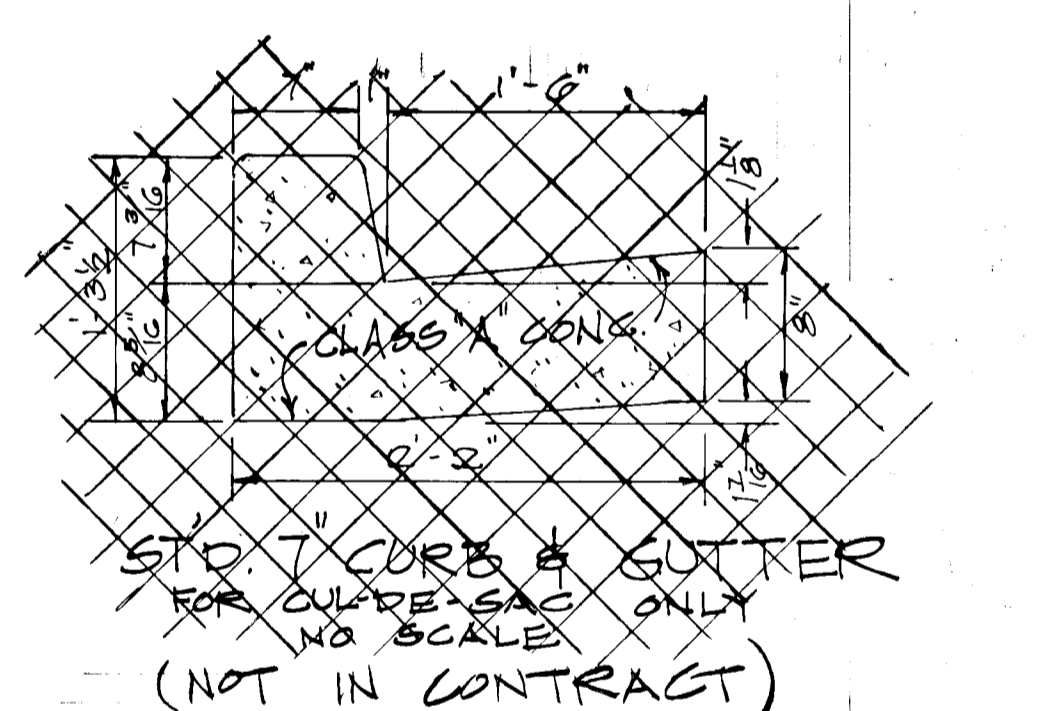
TYPICAL SECTION (50 FT. Right of Way) COMPROMISE COURT NO SCALE DESIGN SPEED 30mph.



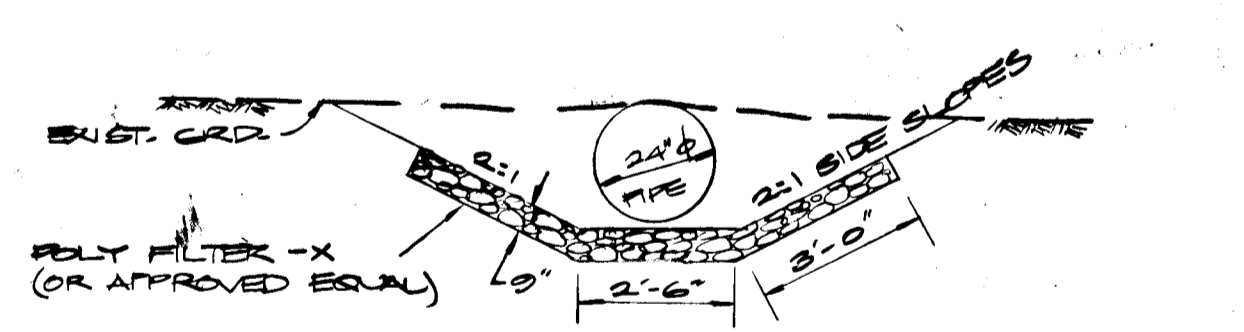
TEMPORARY CONSTRUCTION ENTRANCE NO SCALE

GENERAL NOTES

- 1) ALL CONSTRUCTION SHOWN ON THESE PLANS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS DATED NOV. 27, 1982 AND REVISED AUG. 1987.
- 2) REFERENCE TO PAGE AND DRAWING NUMBERS REFER TO THE ABOVE MENTIONED SPECIFICATIONS.
- 3) BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION C-30-3 AS PROVIDED IN THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
- 4) STACK CONTACT IS REQUIRED IN ACCORDANCE WITH SECTION C-31-4 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
- 5) PLUMWOOD (3/4" THICK) SHALL BE PLACED OVER THE OPEN END OF ANY UNFINISHED STORM DRAINS AT THE END OF EACH WORKING DAY.
- 6) COMPROMISE COURTS SHALL BLEND INTO THE ADJACENT LOTS AS SHOWN ON THE ABOVE TYPICAL SECTION. CONTRACTOR SHALL FINE GRADE AS REQUIRED TO PREVENT TRAPPING SURFACE WATER ON ADJACENT LOTS.

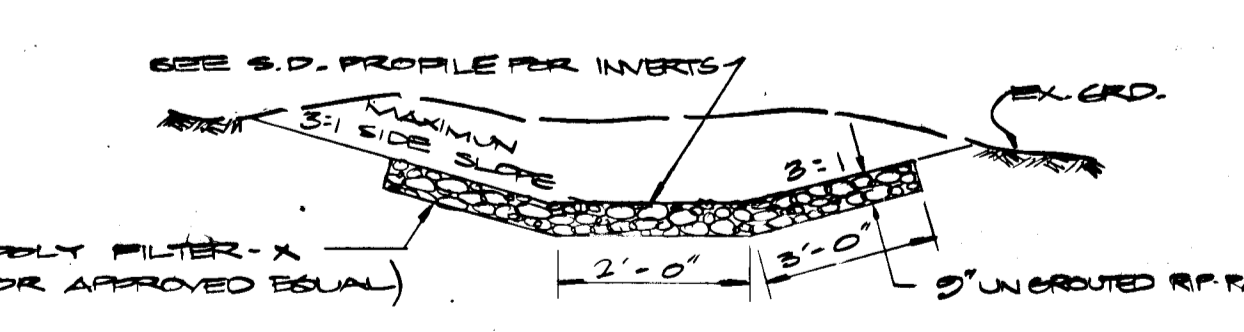


DRAINAGE AREA MAP SCALE 1" = 200'



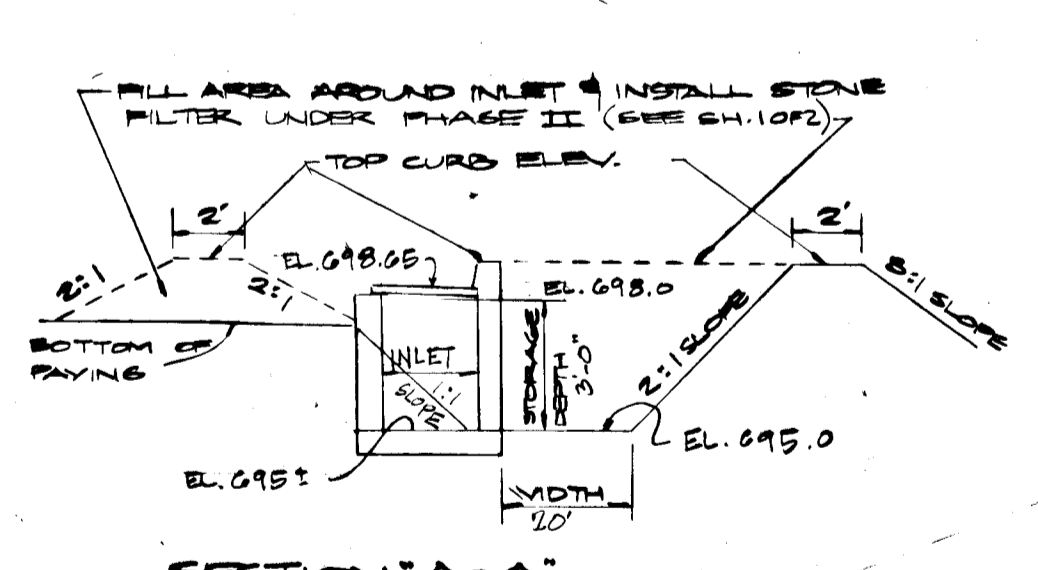
TYPICAL RIP-RAP SECTION @ END OF PIPE

NOTE: AVERAGE STONE SIZE = 6" φ



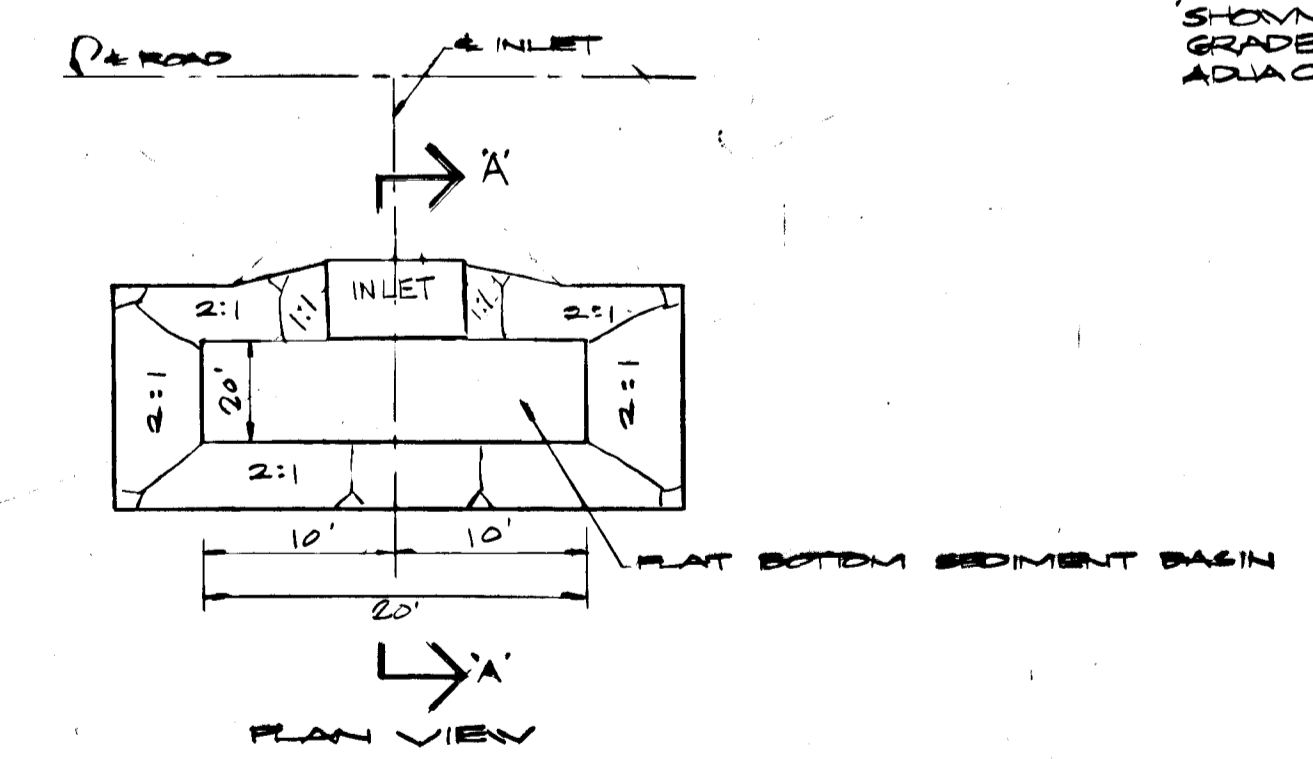
TYPICAL RIP-RAP SECTION 40' FROM PIPE

RIE-RAP DETAIL @ H.W. 1 NO SCALE



SECTION "A-A"

NOTE: PROVIDE ONE UNMORTARED VERTICAL JOINT EVERY THIRD COURSE (MAX. 3 PER SIDE)



PLAN VIEW

DETAIL OF TEMP SEDIMENT BASIN @ I-2 & I-3 INLETS

INLET NO	I-1	I-2	I-3
INLET I.C. ELEV.	699.25	699.25	699.25
BOT. EL. SED. BASIN	699.0	699.0	699.0
DRAINAGE AREA (AC.)	0.6	2.9	2.9
DISTURBED AREA (AC.)	0	0.78	0.75
STORAGE REQ'D. (CY.)	0	30	50
STORAGE PROVIDED (CY.)	30	50	50
CLEANOUT ELEV.	697.5	697.5	697.5

*DISTURBED AREA X 07 05/AC.

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION & SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS THEY ARE DEEMED NECESSARY

Stanley Singer 8-30-78 DEVELOPER DATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT

Herbert Malmud 8-30-78 ENGINEER DATE

PREPARED BY
H. MALMUD & ASSOC. INC.
8815 MEADOW HEIGHTS RD.
RANDALLSTOWN, MD. 21133
TELEPHONE (301)-655-6465

REVIEWED FOR HOWARD SOIL CONSERVATION AND MEETS TECHNICAL REQUIREMENTS:

C. Wayne Ray 10-26-78 U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Ziehm 10-25-78 APPROVED HOWARD S.C.D. DATE

LISBON MANORS
SECTION - ONE
ELECTION DISTRICT NO. 4

HOWARD COUNTY MARYLAND
DEPARTMENT OF PUBLIC WORKS

W. J. Stolt 11-1-78 CHIEF BUREAU OF HIGHWAYS DATE

Robert W. Ziehm 10-27-78 CHIEF DIVISION OF LAND DEVELOPMENT DATE

DATE: 10/10/78 SCALE: AS SHOWN SHEET 2 OF 2