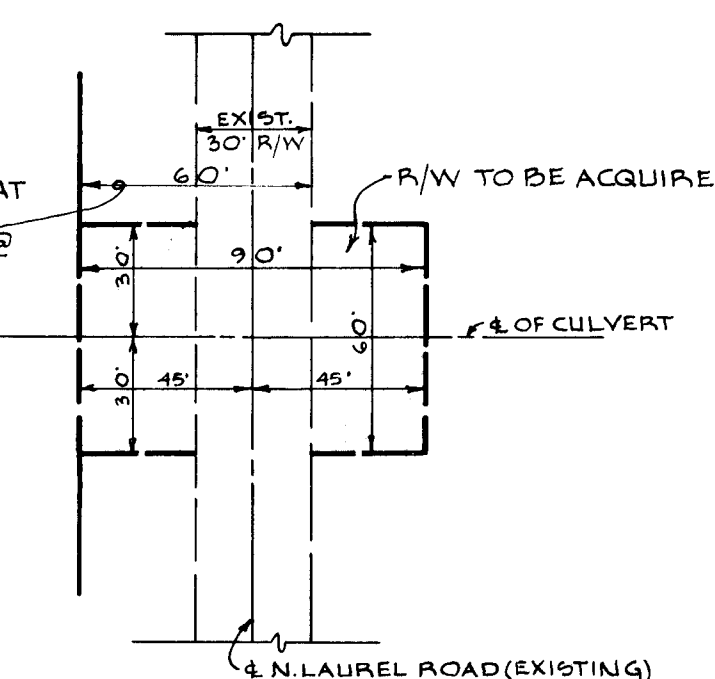


OFF-SITE DRAINAGE AREA MAP
SCALE: 1" = 2000'
VICINITY MAP
SCALE: 1" = 2000'
A = 168 ACRES
C = 0.45
100' = 6.8 INCHES/HR.

PLAN
SCALE: 1" = 30'



LIMITS OF RIGHT OF WAY
SCALE: 1" = 50'

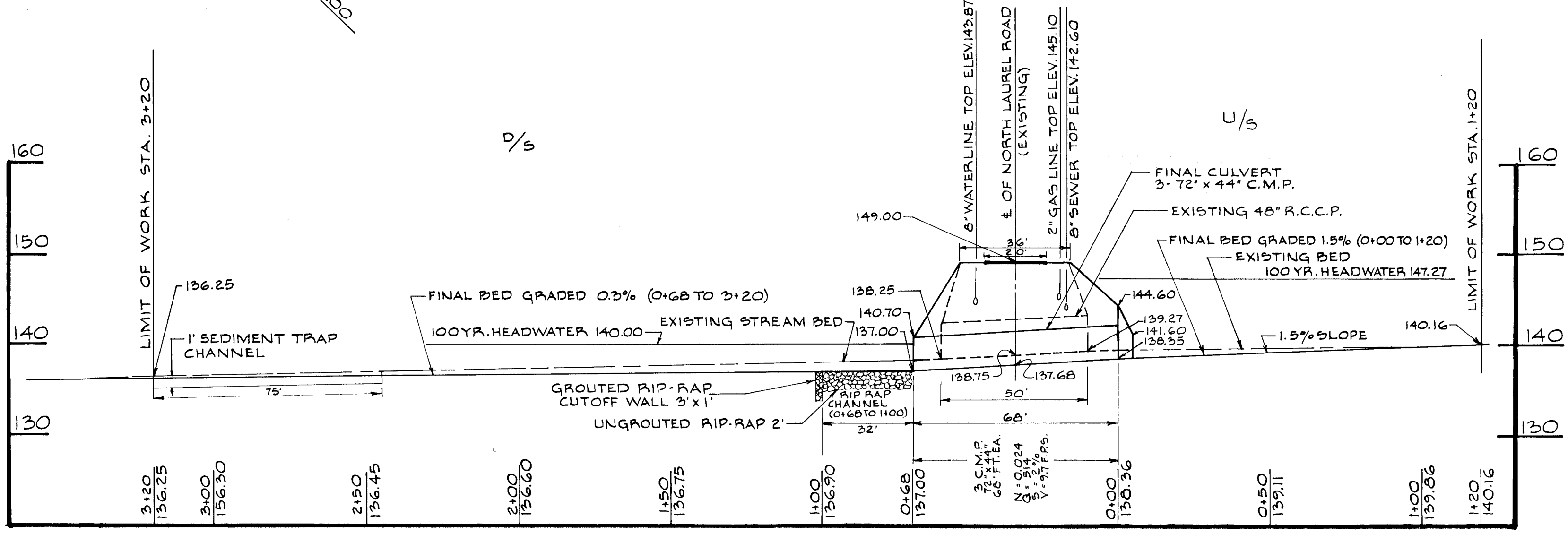
BITUMINOUS CONCRETE SURFACE	1.5"	FINAL PHASE
BITUMINOUS CONCRETE BASE (PLACE IN ONE COURSE)	5"	FIRST PHASE
		BAND C-2 OR C-3

Tack coat shall be provided in accordance with Section C-31.4. All material and construction shall be in accordance with the Howard County Road Construction Code August, 1968.

PAVING SECTION
NO SCALE

GENERAL NOTES

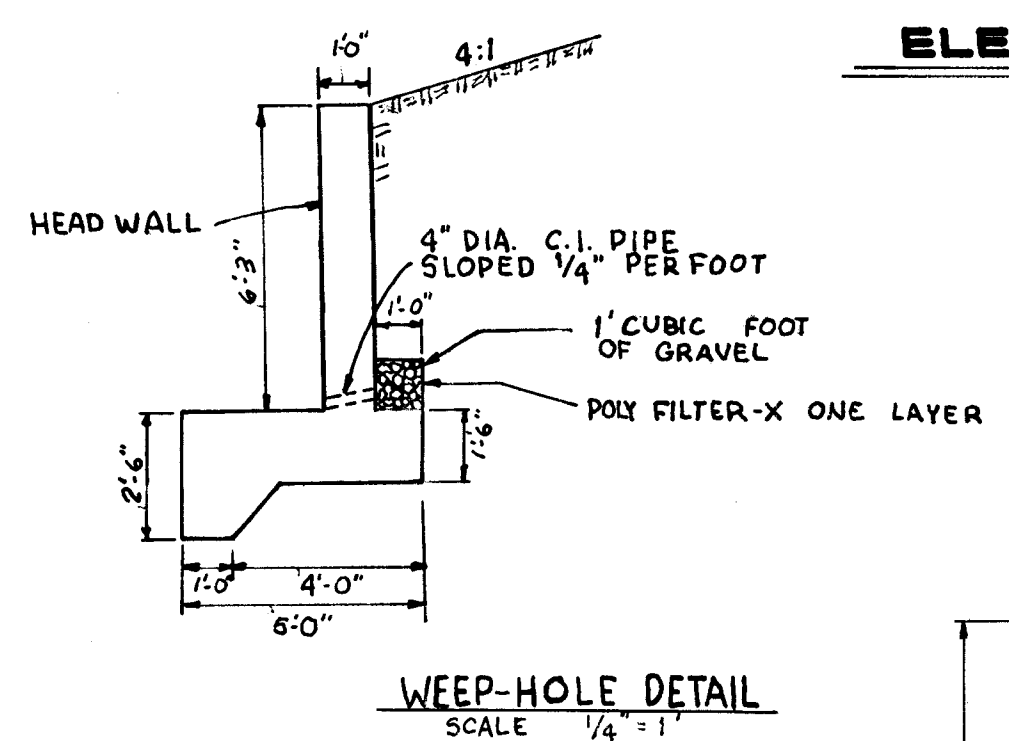
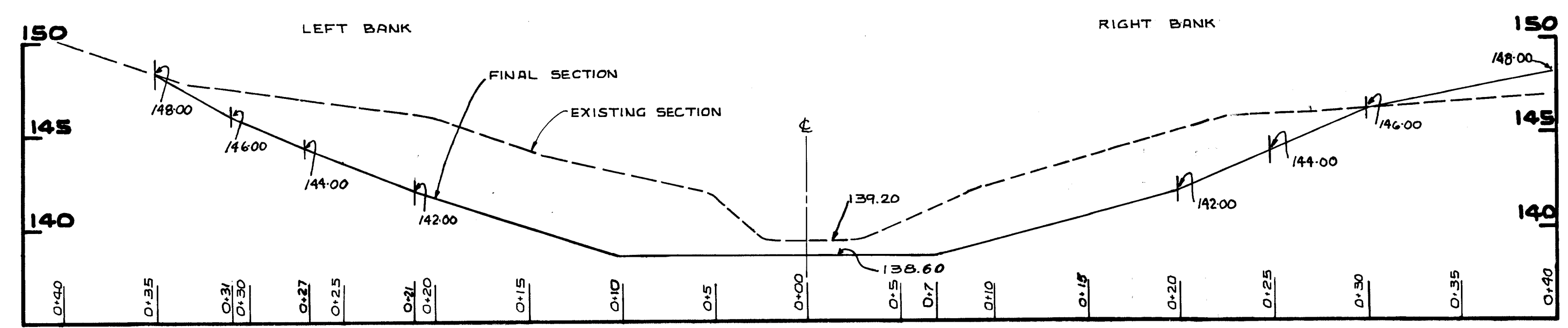
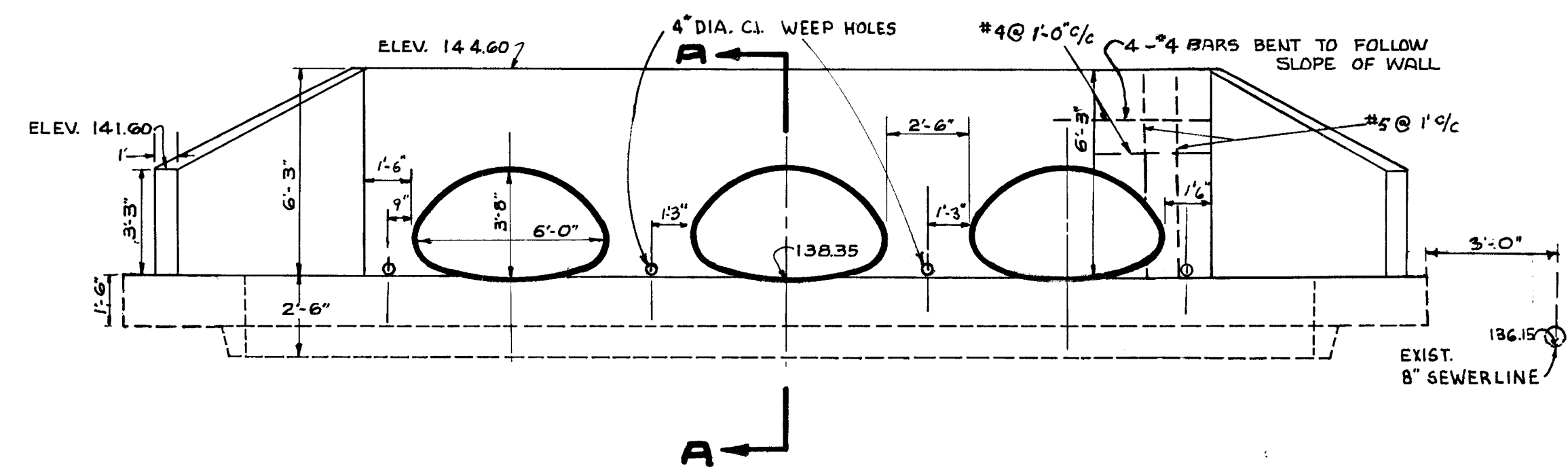
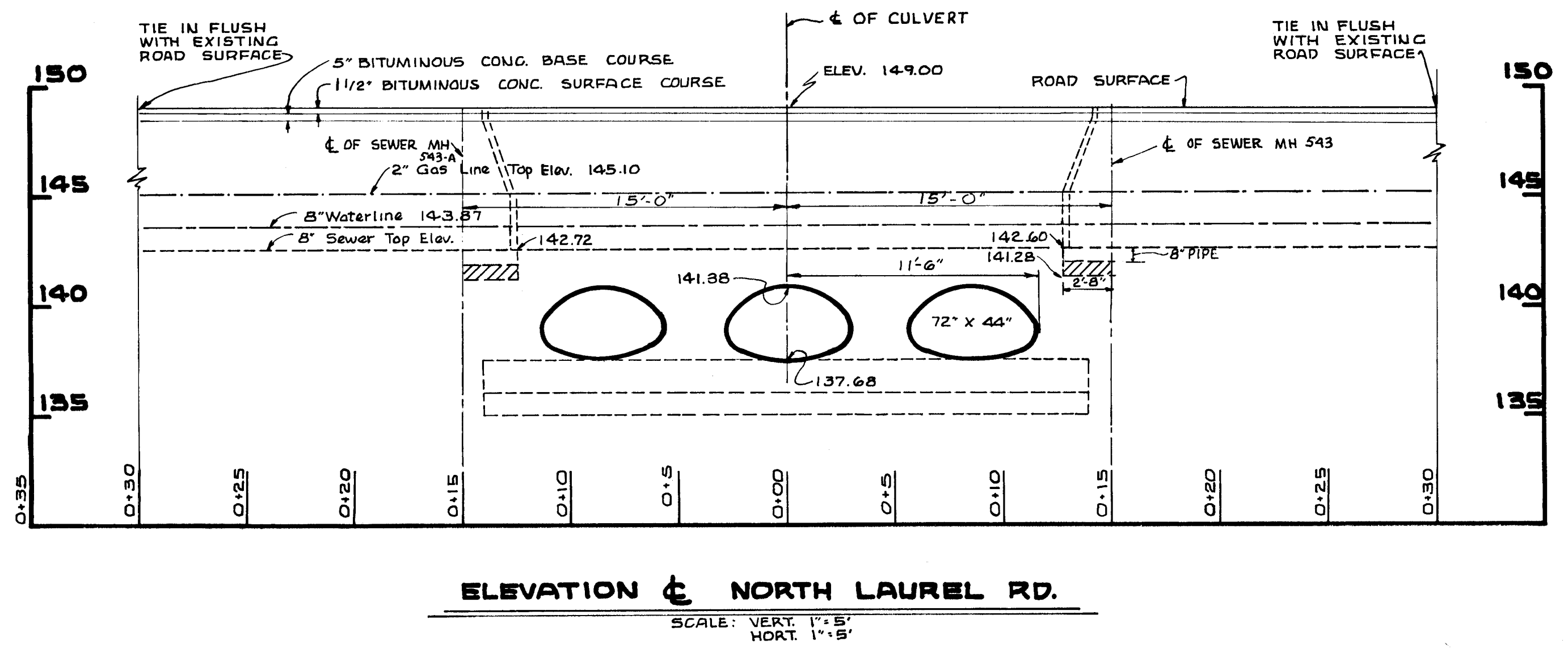
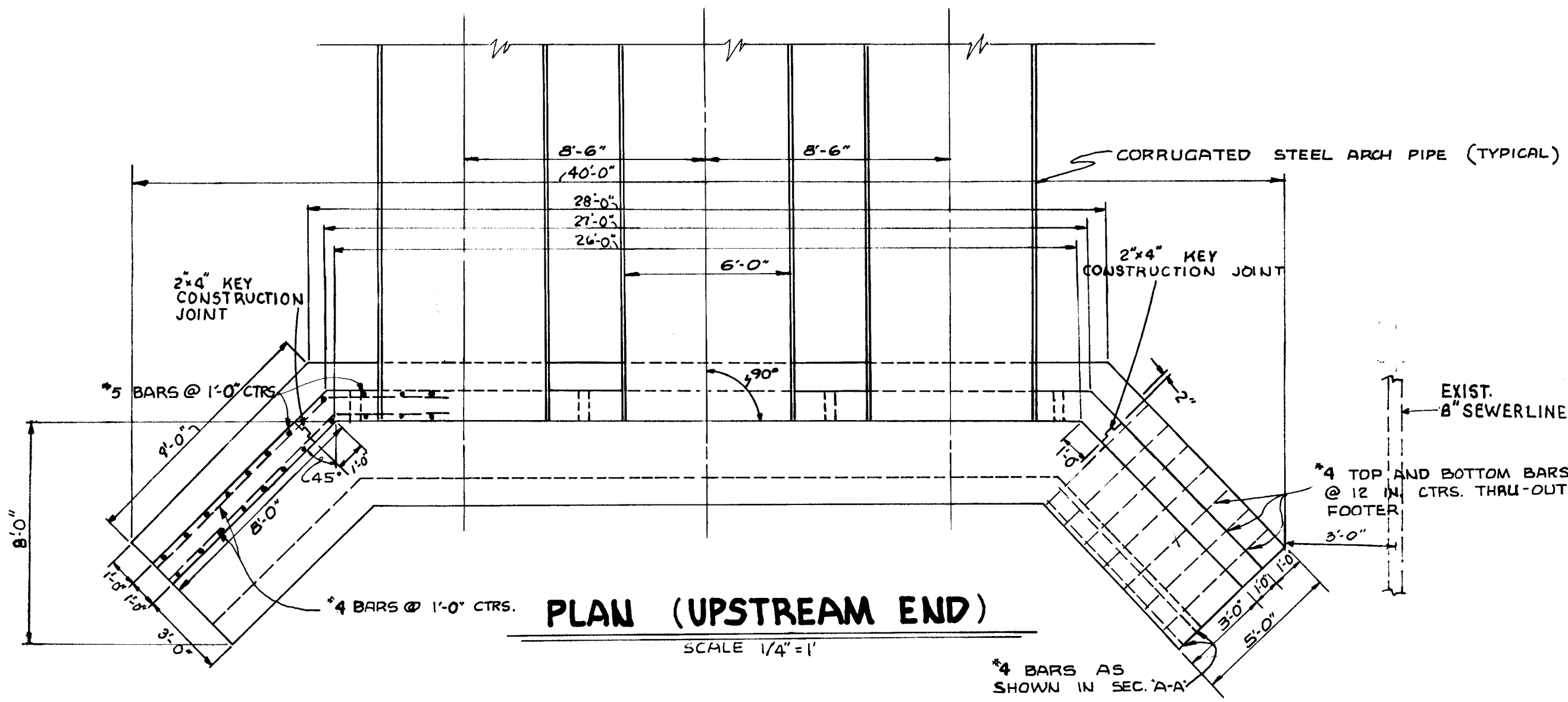
- All work shall be done in accordance with the Howard County Road Construction Code and Standard Specifications.
- The location of existing utilities are shown in accordance with existing Drawings. The Contractor shall take all necessary precautions to protect the existing utilities and maintain uninterrupted service. Any damage incurred due to Contractor's operation shall be repaired immediately at the Contractor's expense.
- The Contractor shall test pit the utilities where directed by the Engineer, a minimum of two (2) weeks in advance of construction operations.
- All installation of Traffic Signs, shall be in accordance with Manual of Uniform Traffic Control Devices - 1971 Edition.
- Half of the road shall be maintained for use of local traffic during construction stage.
- Invert Elevations of Headwalls may be modified to meet conditions encountered during installation, if approved by Engineer.
- Bracing to existing sewer line shall be done as necessary.
- A granular fill of 2 ft. shall be provided as bedding to the pipes. A uniform blanket of loose material shall cover the shaped bedding to a depth sufficient to allow the corrugations to become filled with the material.
- Before commencement of work, the sediment trap should be installed first for 75 ft., 12' deep as shown on Sheet 2 of 3.
- All disturbed slopes shall be sodded.
- All fill and backfill shall be compacted to 95% Density (ASTM-T-99)
- See Details on Sheets 2 and 3 of 3.
- Manholes 543 and 543-A will have to be protected during the construction stage to ensure continuation of sanitary sewer service.
- The Contractor shall notify the following Utilities at least three (3) days before starting work shown on these Drawings:
BALTIMORE GAS AND ELECTRIC COMPANY * 539.8000 EXT. 691
LONG DISTANCE CABLE DIVISION * 293.2553 OR 2554
HOWARD COUNTY BUREAU OF UTILITIES * 465.5000 EXT. 277
HOWARD SOIL CONSERVATION DISTRICT * 465.3180
- The Contractor shall make every effort to save the trees that are shown on this Drawing.
- The Contractor shall install a temporary fence along construction easement in area of trees.



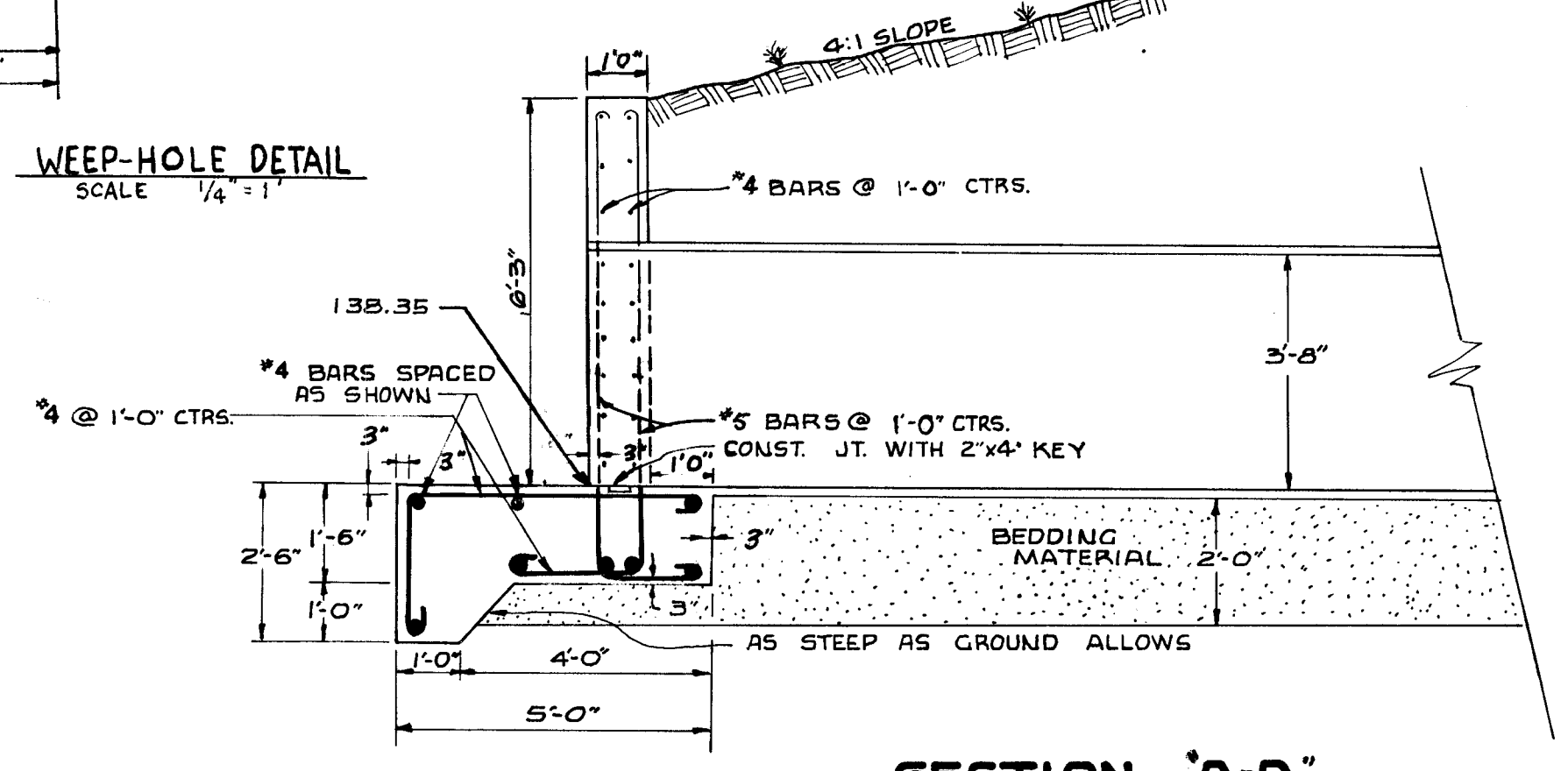
PROFILE
SCALE: HOR. 1" = 30'
VERT. 1" = 10'

<p>HOWARD SOIL CONSERVATION DISTRICT</p> <p>REVIEWED: FOR HOWARD SOIL CONSERVATION DISTRICT - MEETS TECHNICAL REQUIREMENTS</p> <p><i>James M. Helm</i> Jan 14, 1976 James M. Helm Date</p> <p>APPROVED: FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.</p> <p><i>Robert W. Zielinski</i> Jan 14, 1976 Robert W. Zielinski Date Howard Soil Conservation District</p>	<p>ENGINEER'S STATEMENT</p> <p>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 SOIL CONSERVATION DISTRICT.</p> <p><i>Kenneth J. Smith</i> Jan 16, 1976 Kenneth J. Smith Date</p>	<p>DEVELOPER</p> <p>I CERTIFY THAT ALL THE DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY DERIVATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.</p> <p><i>W.O. Albert</i> 2-5-76 Date</p>
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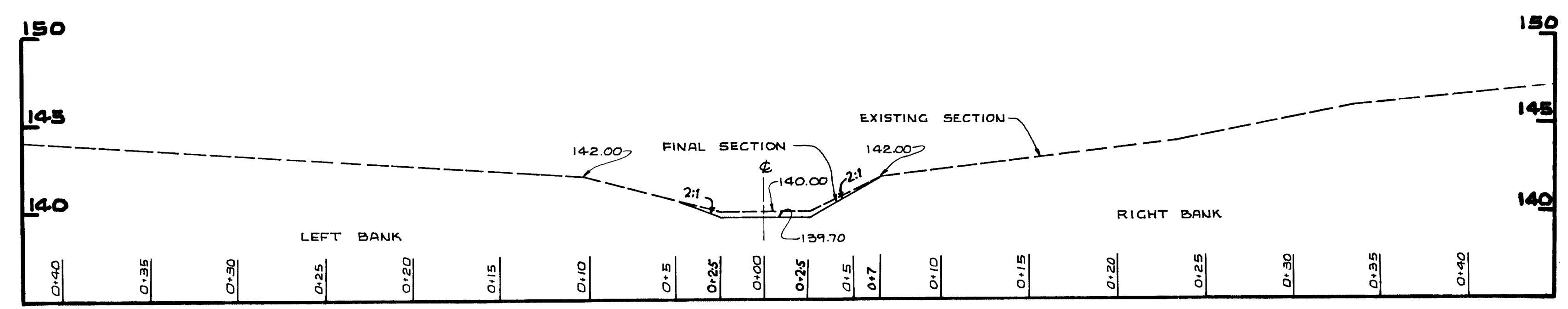
<p>BUREAU OF ENGINEERING INSPECTION AND SURVEY DIVISION</p>	<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>D.J. Reed</i> 2/5/76 DIRECTOR OF PUBLIC WORKS DATE</p>	<p>CONTRACT NO. D-5-1019</p>	<p>PLAN, PROFILES AND DETAILS FOR STORM DRAIN IMPROVEMENTS</p>	<p>NORTH LAUREL ROAD ELECTION DISTRICT NUMBER 6</p>	<p>DRAWING NO 1 OF 3</p>	<p>SCALE AS SHOWN</p>	<p>DES. BY A.M. DRWN. R.K.H. CHK. M.L.L.</p>
	<p><i>W.O. Albert</i> 1-27-76 CHIEF-BUREAU OF ENGINEERING DATE</p>						



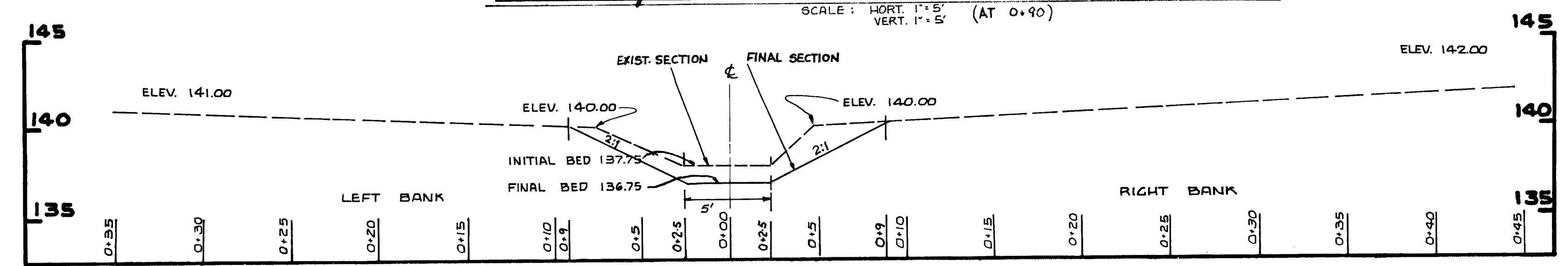
WEEP-HOLE DETAIL
SCALE: 1/4" = 1"



SECTION 'A-A'
(UPSTREAM END)
SCALE: 3/8" = 1"



TYPICAL U/S CHANNEL CROSS SECTION (0+50 TO 1+20)
SCALE: VERT. 1" = 5"
HORT. 1" = 5" (AT 0+90)



TYPICAL D/S CHANNEL CROSS SECTION (1+00 TO 3+20)
SCALE: VERT. 1" = 5"
HORT. 1" = 5" (AT 1+50)

BUREAU OF ENGINEERING
INSPECTION & SURVEY DIVISION

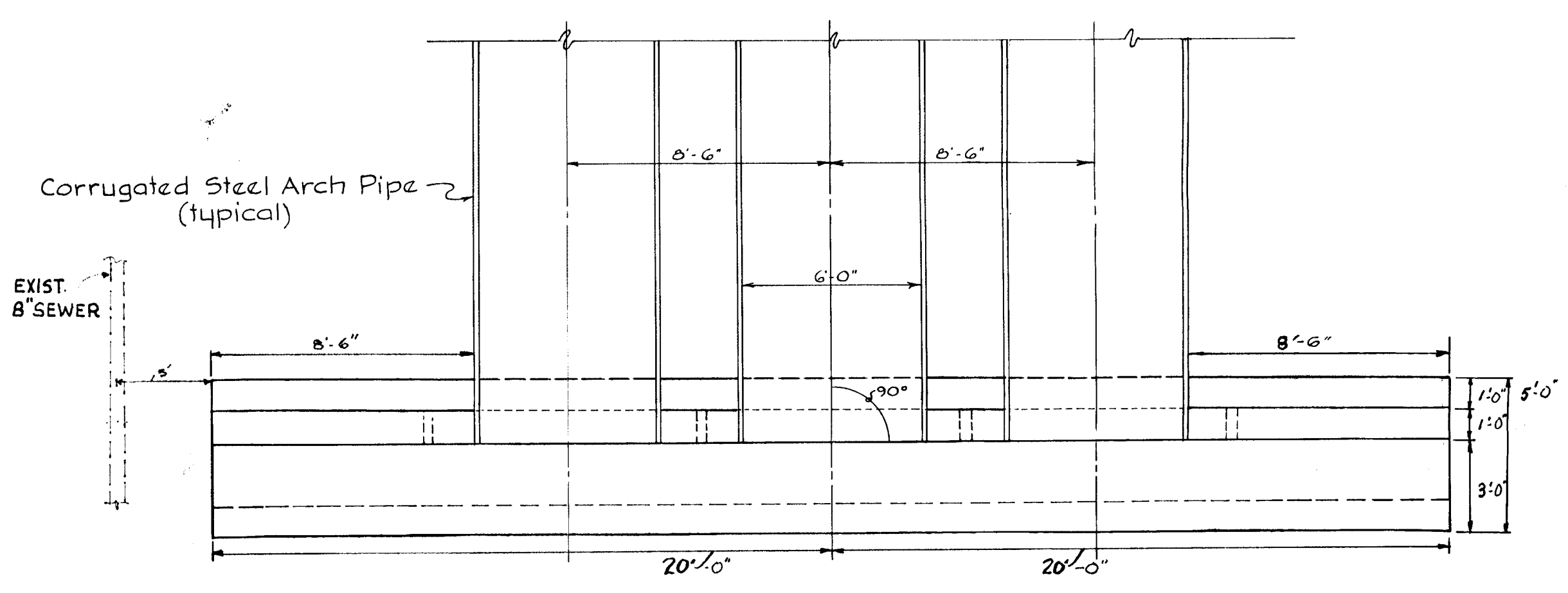
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
2/15/76
DATE

CONTRACT NO. D-5-1019

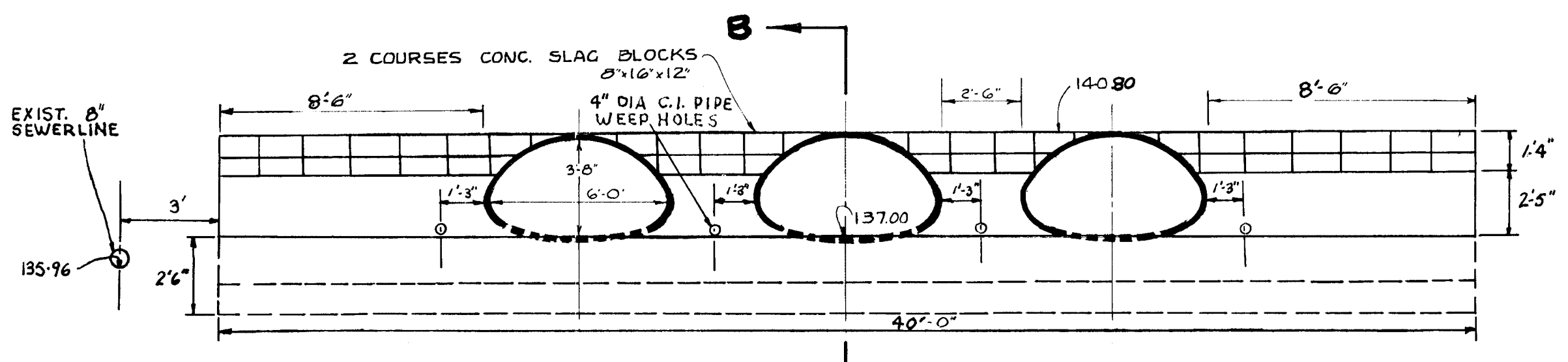
DETAIL SHEET

STORM DRAINAGE IMPROVEMENTS
NORTH LAUREL RD.
ELECTION DISTRICT NUMBER 6

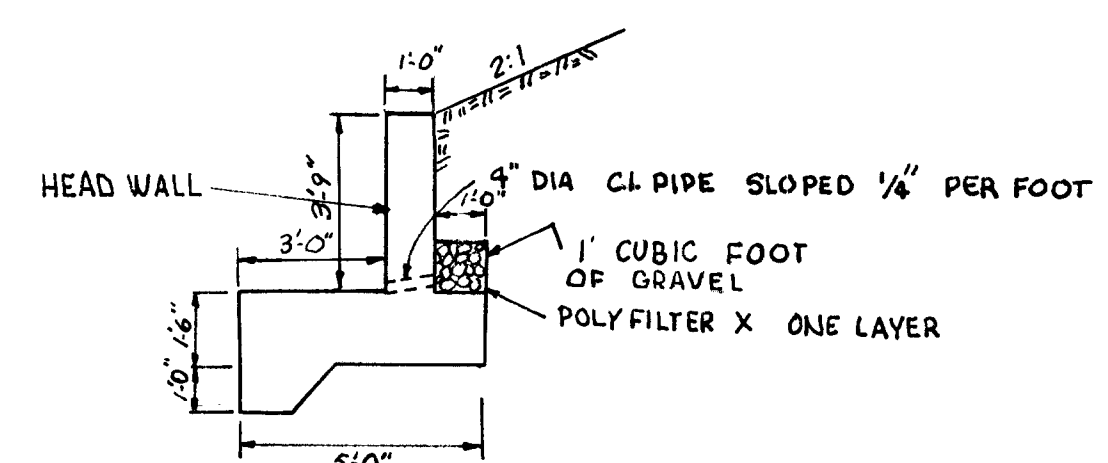
DRAWING NO. 2 OF 3
SCALE AS SHOWN
DES. A.M.
DWN. M.P.C.
CHK. BY: M.L.L.



PLAN (DOWN-STREAM END)
SCALE: 1/4" = 1'

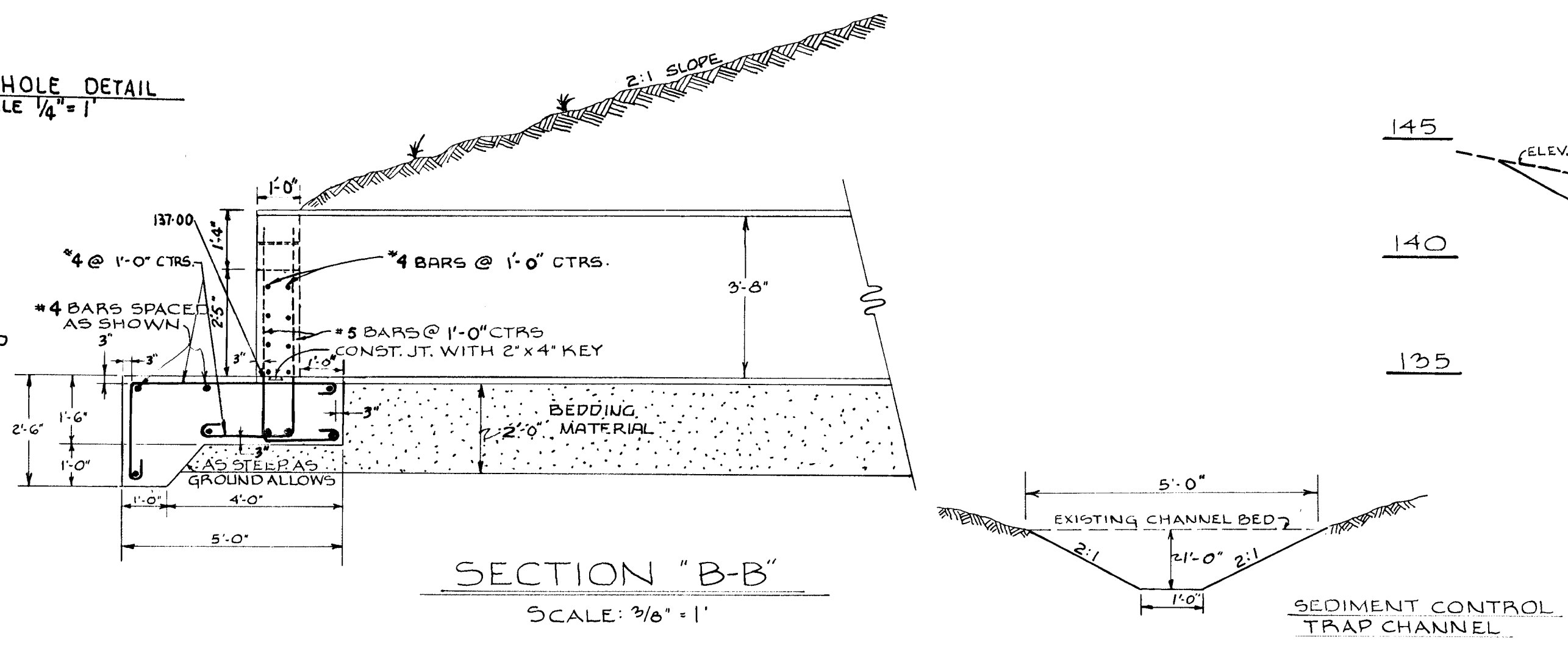


ELEVATION (DOWN-STREAM)
SCALE: 1/4" = 1'

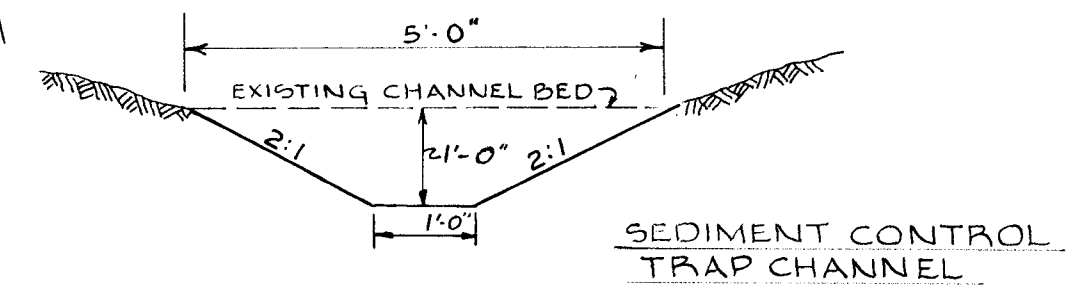


WEEP HOLE DETAIL
SCALE: 1/4" = 1'

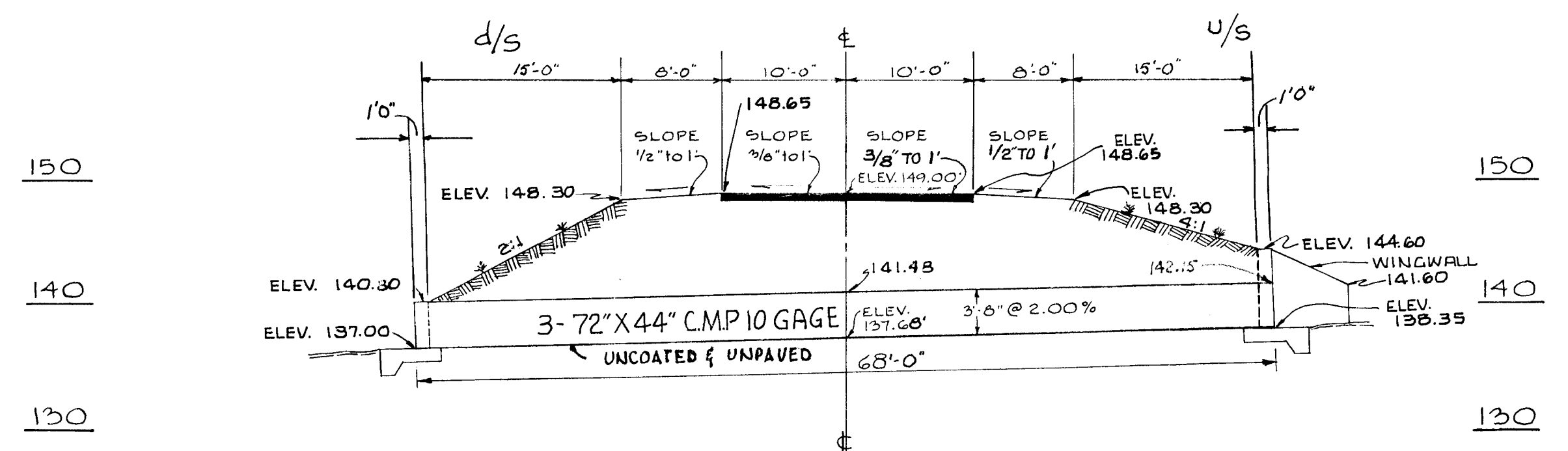
NOTE:
THE HEADWALL SHALL BE CONSTRUCTED WITH 2'-5" R.C. AND CAPPED 1/4" WITH CONCRETE SLAG BLOCK CONTAINING LEAN MIX 1:10



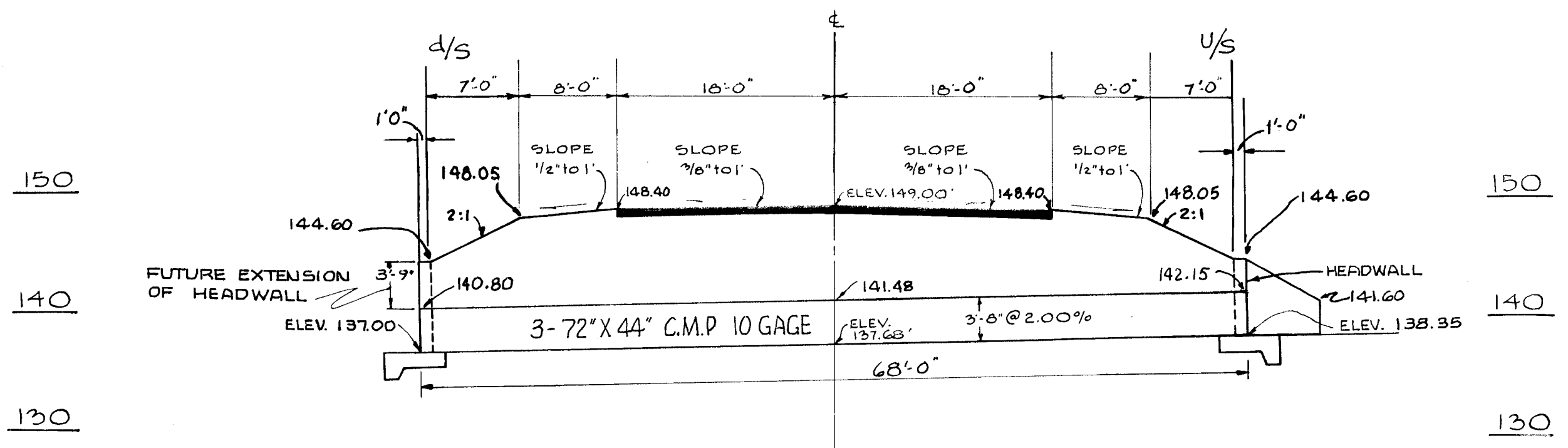
SECTION "B-B"
SCALE: 3/8" = 1'



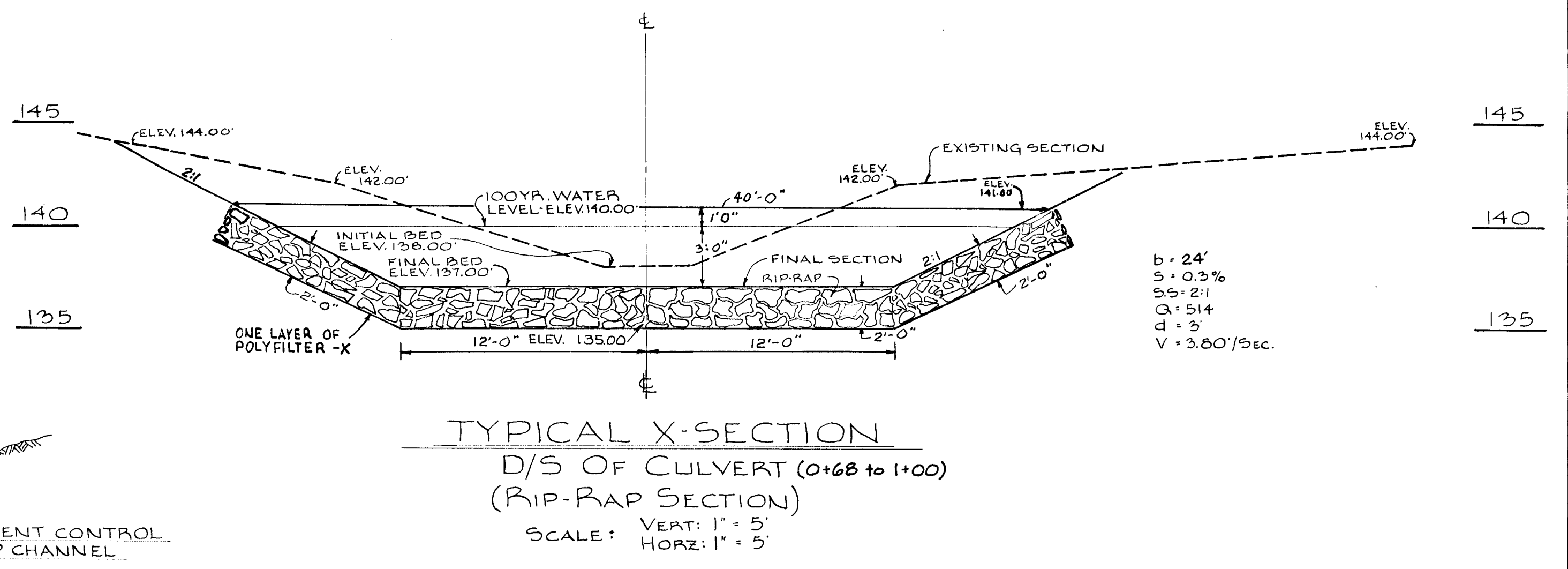
TYPICAL CHANNEL "X" SECTION
D/S OF CULVERT (2+45 to 3+20)
SCALE: 1" = 2'



FIRST PHASE OF CONSTRUCTION
SCALE: VERT: 1" = 10'
HORZ: 1" = 10'



FUTURE PHASE OF CONSTRUCTION
SCALE: VERT: 1" = 10'
HORZ: 1" = 10'



TYPICAL X-SECTION
D/S OF CULVERT (0+68 TO 1+00)
(RIP-RAP SECTION)
SCALE: VERT: 1" = 5'
HORZ: 1" = 5'

b = 24'
S = 0.3%
SS = 2:1
Q = 514
d = 3'
V = 3.60/Sec.

BUREAU OF ENGINEERING INSPECTION AND SURVEY DIVISION	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 2/15/76 DIRECTOR OF PUBLIC WORKS DATE	CONTRACT NO. D-5-1019	DETAIL SHEET	STORM DRAINAGE IMPROVEMENTS NORTH LAUREL ROAD ELECTION DISTRICT NUMBER 6	DRAWING NO. 3 OF 3 SCALE AS SHOWN Des: A.M. Dwn: R.K.H. Chk: M.L.L.
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