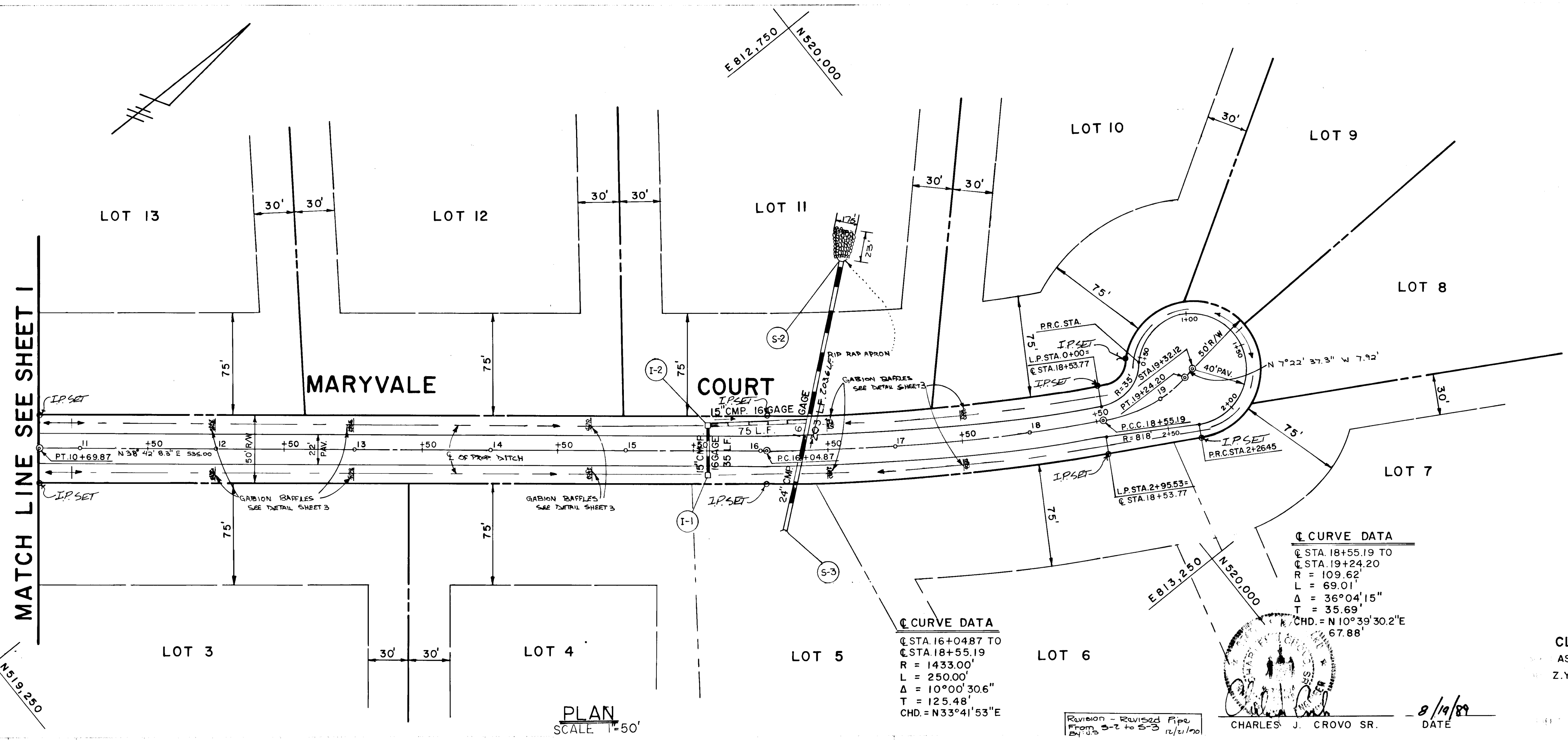


PLAN
 DATE
 BY
 CHECKED
 APPROVED
 DEPARTMENT OF PUBLIC WORKS
 DEPARTMENT OF PLANNING AND ZONING
 DIVISION OF COMMUNITY AND LAND DEVELOPMENT

APPROVED: *Frank W. Sapan* 10/19/89
 DEPARTMENT OF PUBLIC WORKS
Granville W. Welleand 10/18/89
 DEPARTMENT OF PLANNING AND ZONING
William B. Riley 10-20-89
 DEPARTMENT OF PUBLIC WORKS
Frank W. Sapan 10/20/89
 DIVISION OF COMMUNITY AND LAND DEVELOPMENT

PROFILE
 DATE
 BY
 CHECKED
 APPROVED
 DEPARTMENT OF PUBLIC WORKS
 DEPARTMENT OF PLANNING AND ZONING
 DIVISION OF COMMUNITY AND LAND DEVELOPMENT



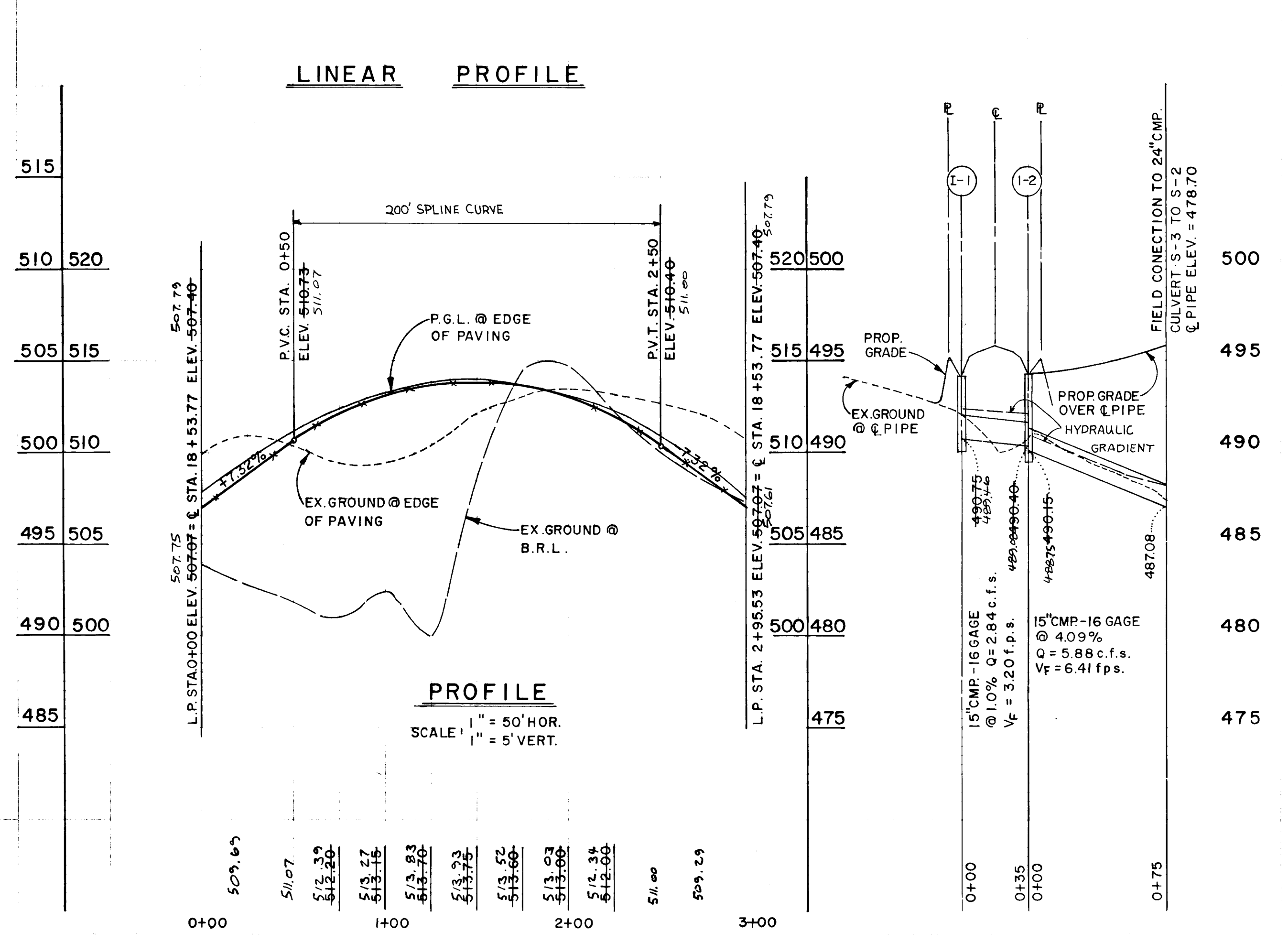
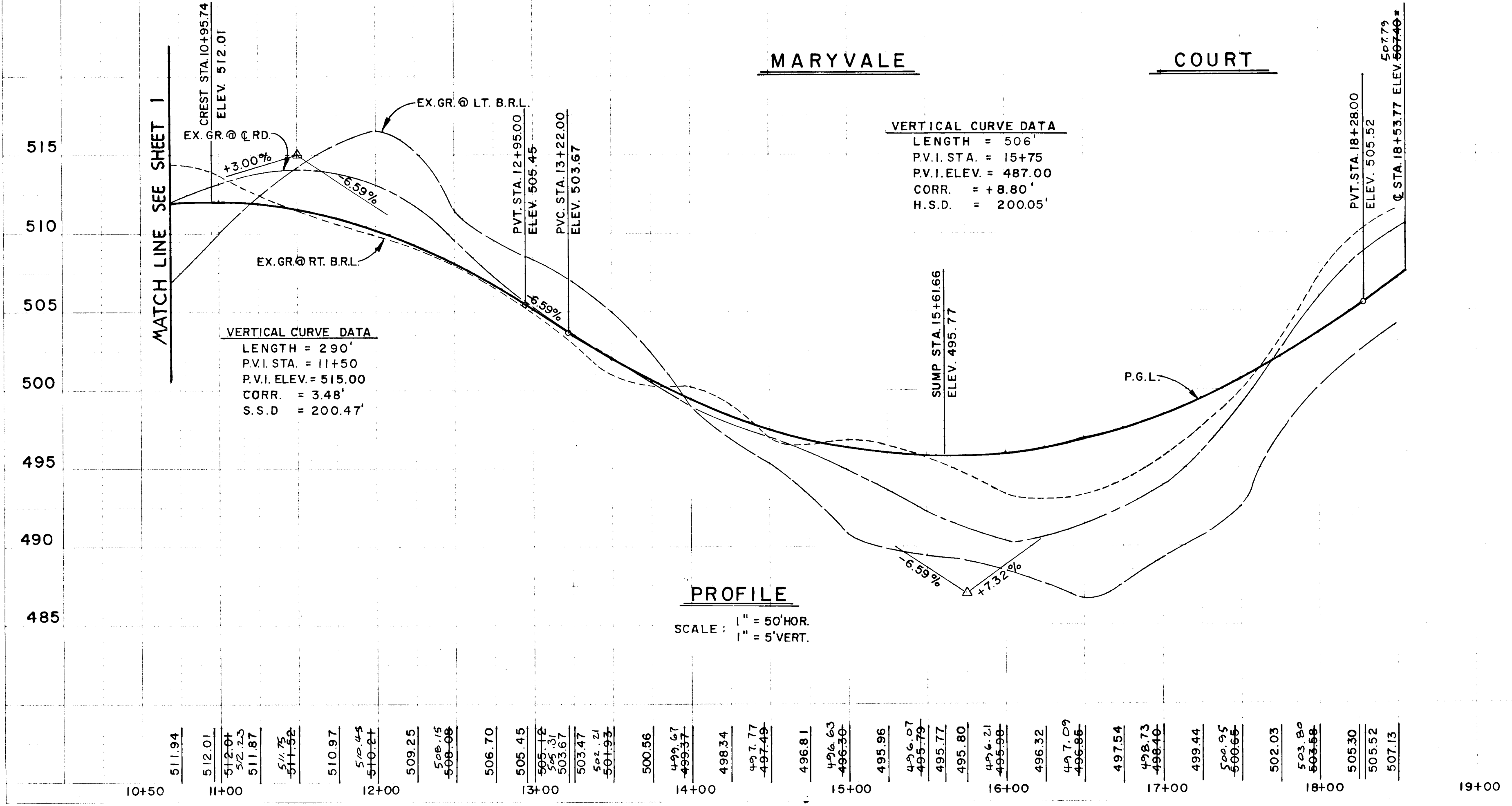
SECOND DISCOVERY
LOTS 1-16
THIRD ELECTION DISTRICT
HOWARD COUNTY MARYLAND
MARYVALE COURT
PLAN AND PROFILE

WILLIAM W. AITCHESON
12706 FOLLY QUARTER RD.
CLARKSVILLE MARYLAND 21029

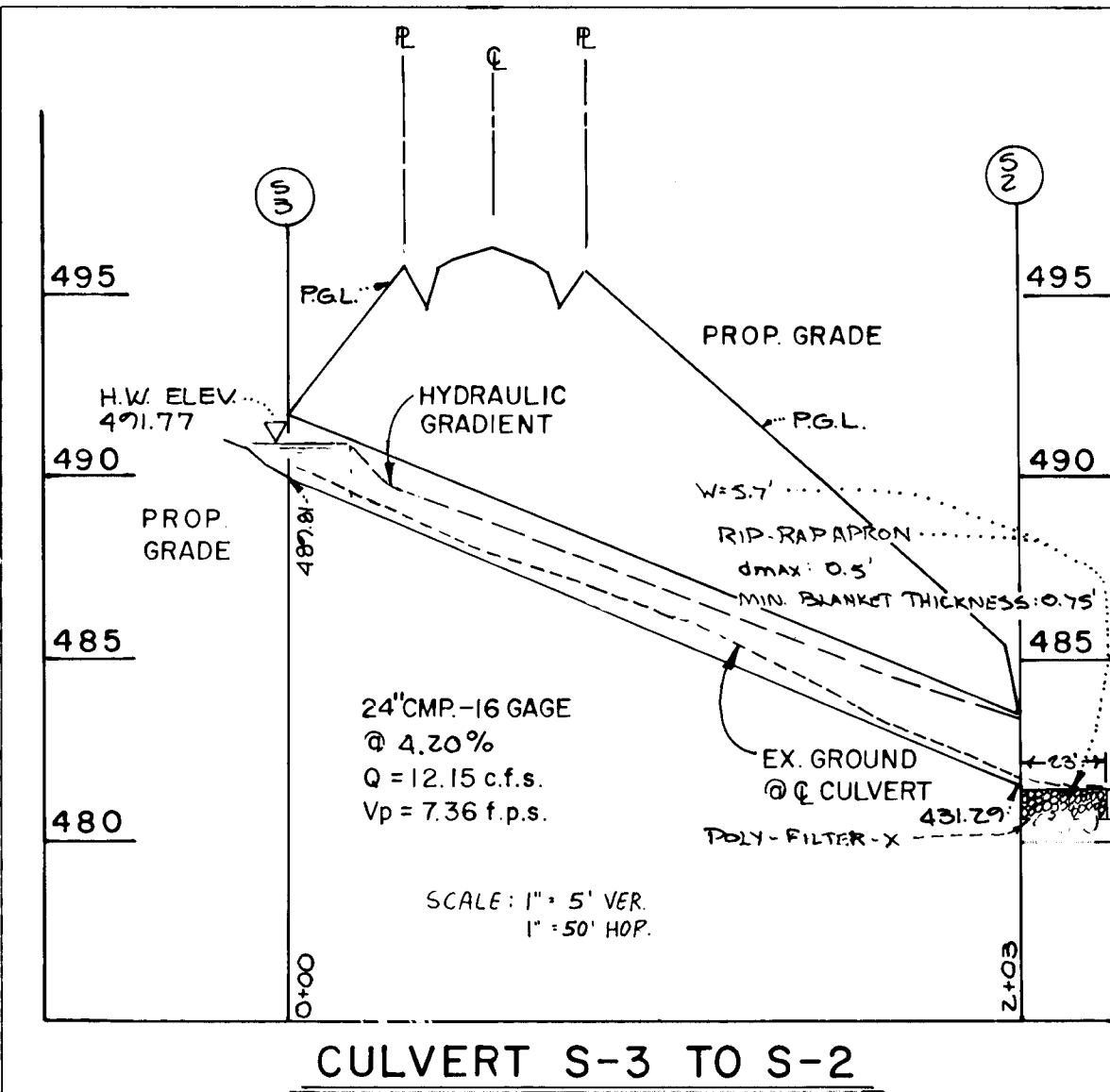
AS SHOWN 6/5/89 2 5
 Z.Y.F. A.S. C.J.C.

Revision - Revised Pipe
 From S-2 to S-3
 12/21/89

CHARLES J. CROVO SR. DATE 8/19/89



1504



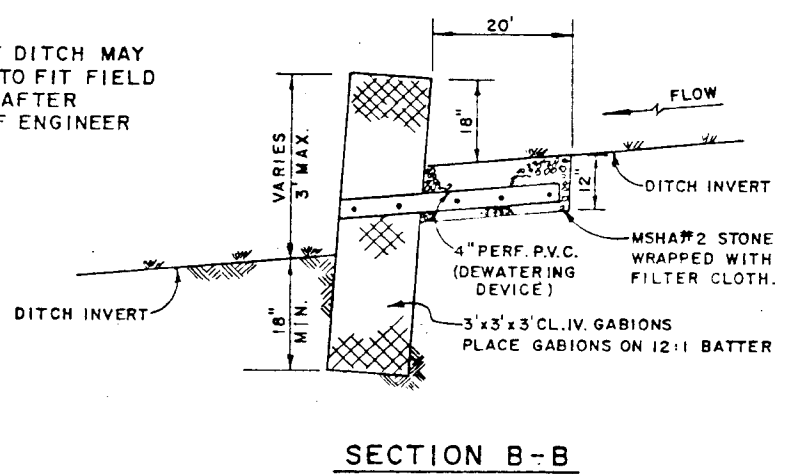
DRIVEWAY CULVERTS

LOT NO.	Q	CULVERT SIZE	LENGTH
1	3.11	15" CMP	15 L.F.
2	3.89	15" CMP	15 L.F.
3	2.89	15" CMP	15 L.F.
4	2.84	15" CMP	15 L.F.
5	2.84	15" CMP	15 L.F.
6	2.84	15" CMP	15 L.F.
7	1.5	12" CMP	15 L.F.
8	1.5	12" CMP	15 L.F.
9	1.5	12" CMP	15 L.F.
10	3.13	15" CMP	15 L.F.
11	3.13	15" CMP	15 L.F.
12	3.13	15" CMP	15 L.F.
13	1.5	12" CMP	15 L.F.
14	2.44	15" CMP	15 L.F.
15	2.72	15" CMP	15 L.F.
16	4.34	15" CMP	15 L.F.

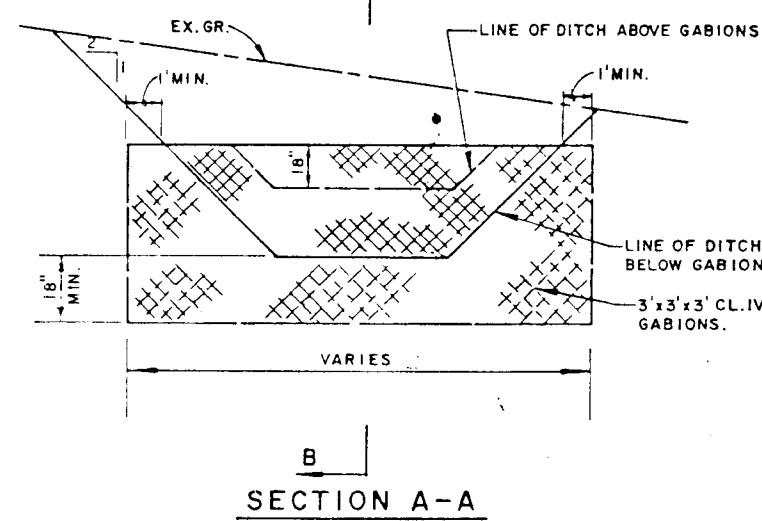
STRUCTURE SCHEDULE

STRUCT.	TYPE	INV. IN.	INV. OUT.	TOP ELEV.	CL. RD. STA.	REMARKS
I-1	K* INLET	489.46	489.46	493.77	15+61.66 RT.	S.D.-4.12
I-2	K* INLET	489.46	489.46	493.77	15+61.66 LT.	S.D.-4.12
I-3	K* INLET	502.07	501.08	506.22	8+95.59 RT.	S.D.-4.12
I-4	K* INLET	502.56	502.56	508.16	8+95.59 RT.	S.D.-4.12
I-5	TD. INLET	512.07	513.93	517.5	5+75	S.D.-4.14
I-6	K* INLET	509.60	509.60	513.76	6+75 RT.	S.D.-4.12
I-7	K* INLET	506.47	506.47	512.57	4+25 LT.	S.D.-4.12
I-8	K* INLET	517.41	517.41	521.47	4+00 RT.	S.D.-4.12
I-9	K* INLET	516.70	516.08	521.77	4+00 LT.	S.D.-4.12
S-1	METAL END SECTION	492.54	494.79	504.78	202' LT. OF CENTERLINE RD.	S.D.-5.61
S-2	METAL END SECTION	481.27	488.29	494.42	16+42	S.D.-5.61
S-3	METAL END SECTION	489.81	491.67	494.22	16+22	S.D.-5.61
S-4	METAL END SECTION	487.65	489.93	491.41	41' RT. OF CENTERLINE RD.	S.D.-5.61
M-1	MANHOLE	497.83	497.83	508.12	10+23	G-5.01

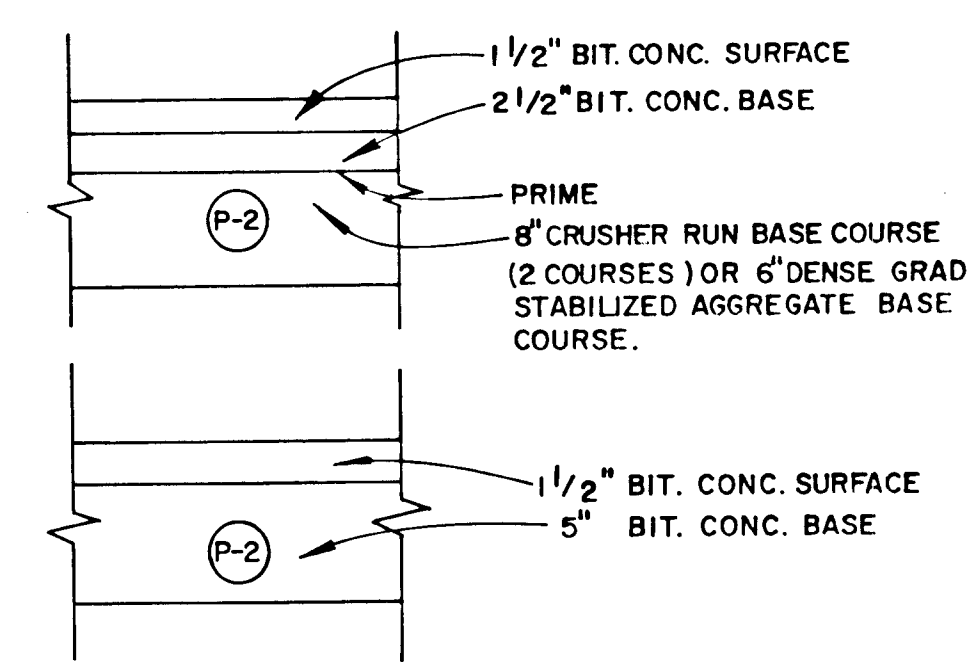
NOTE: LOCATION OF DITCH MAY BE REVISED TO FIT FIELD CONDITIONS AFTER APPROVAL OF ENGINEER



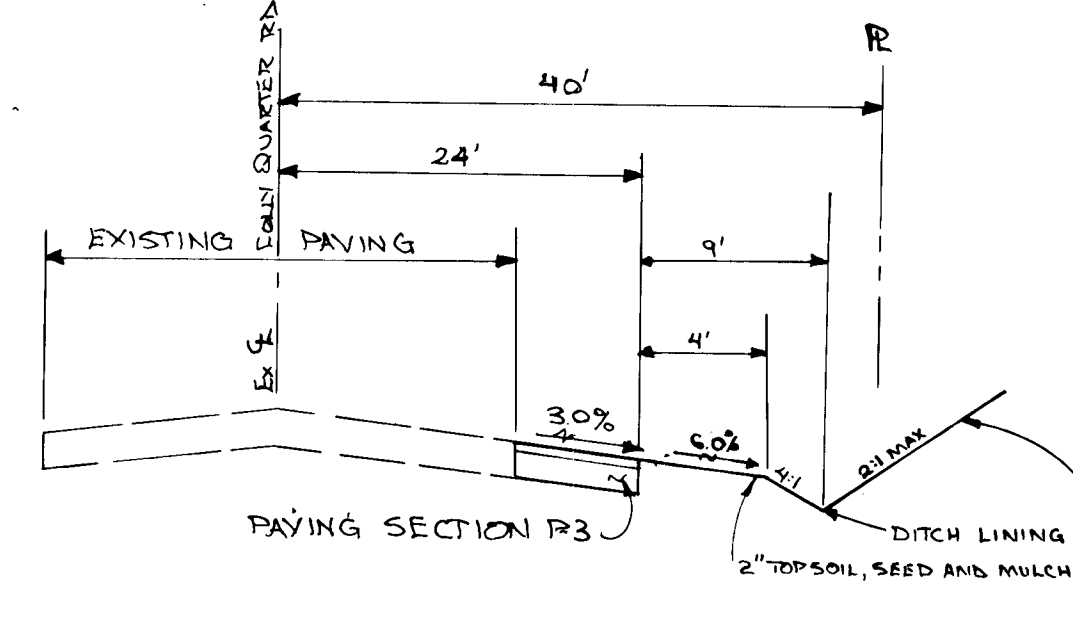
DETAIL OF GABION BAFFLE
NOT TO SCALE



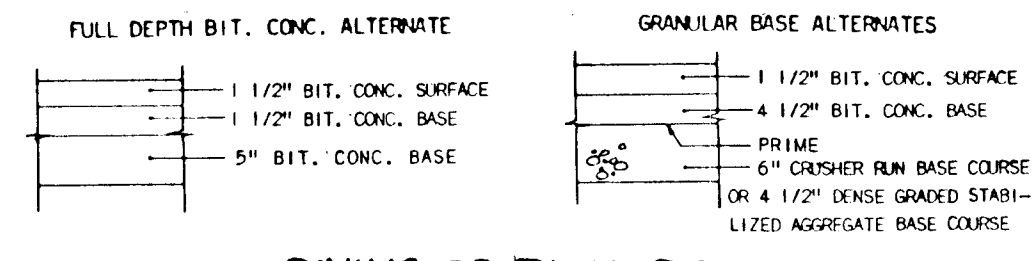
SECTION A-A



PAVING SECTION P-2
NOT TO SCALE

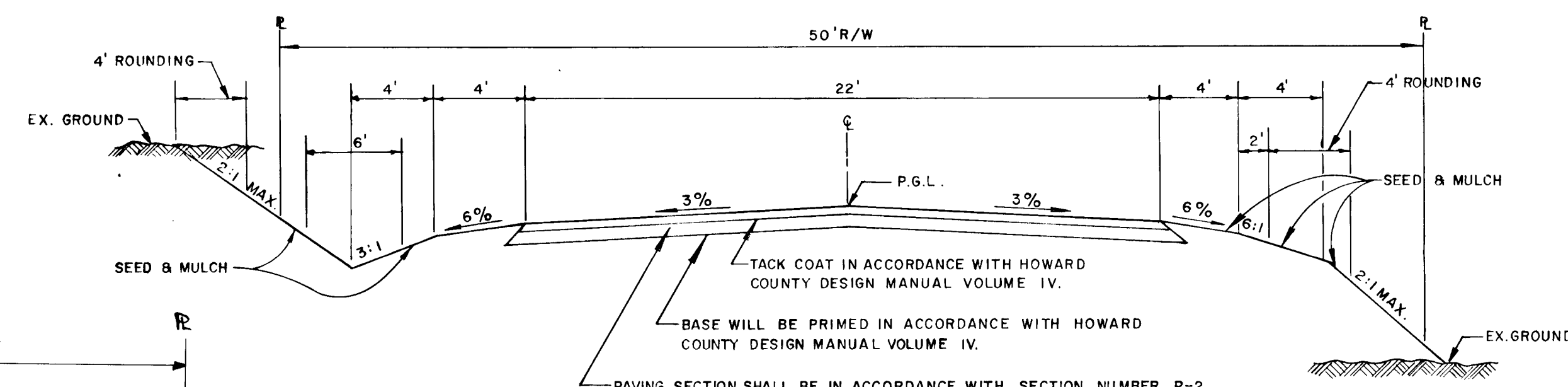


TYPICAL WIDENING SECTION
FOLLY QUARTER ROAD
NO SCALE



PAVING SECTION P-3
NOT TO SCALE

MARYVALE COURT
LIMITS @ STA. 0+00 TO @ STA. 19+32.12
CLASSIFICATION CUL DE-SAC ZONED 'R' DESIGN SPEED 30 MPH.



NOTE: ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV.

TYPICAL ROADWAY SECTION
NO SCALE

APPROVED DEPARTMENT OF PUBLIC WORKS
William W. Aitchison 10/13/89
CHIEF, BUREAU OF DEVELOPMENT

APPROVED DEPARTMENT OF PUBLIC WORKS
William W. Aitchison 10/18/89
CHIEF, BUREAU OF HIGHWAYS

APPROVED DEPARTMENT OF PUBLIC WORKS
William W. Aitchison 10/20/89
CHIEF, BUREAU OF ENGINEERING

APPROVED DEPARTMENT OF PLANNING AND ZONING
Frank J. Zupplé 11/20/89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

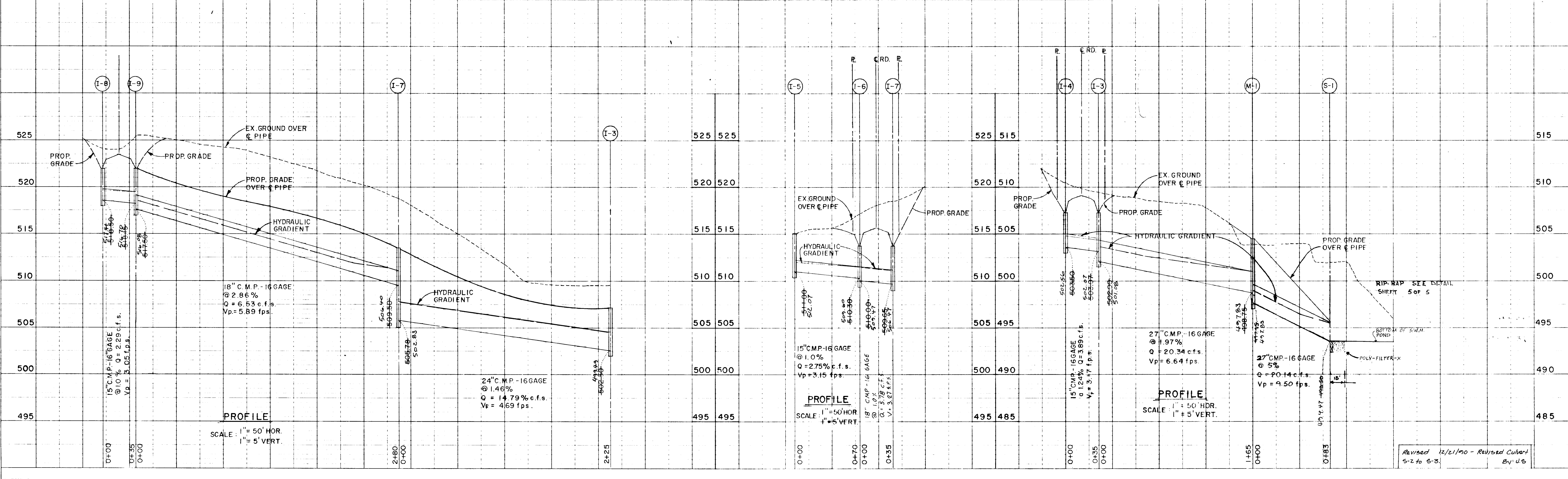
SECOND DISCOVERY LOTS 1-16
THIRD ELECTION DISTRICT
HOWARD COUNTY MARYLAND

STORMDRAIN PROFILES AND DETAILS

OWNER AND DEVELOPER
WILLIAM W. AITCHISON
12706 FOLLY QUARTER RD.
CLARKSVILLE MARYLAND 21029

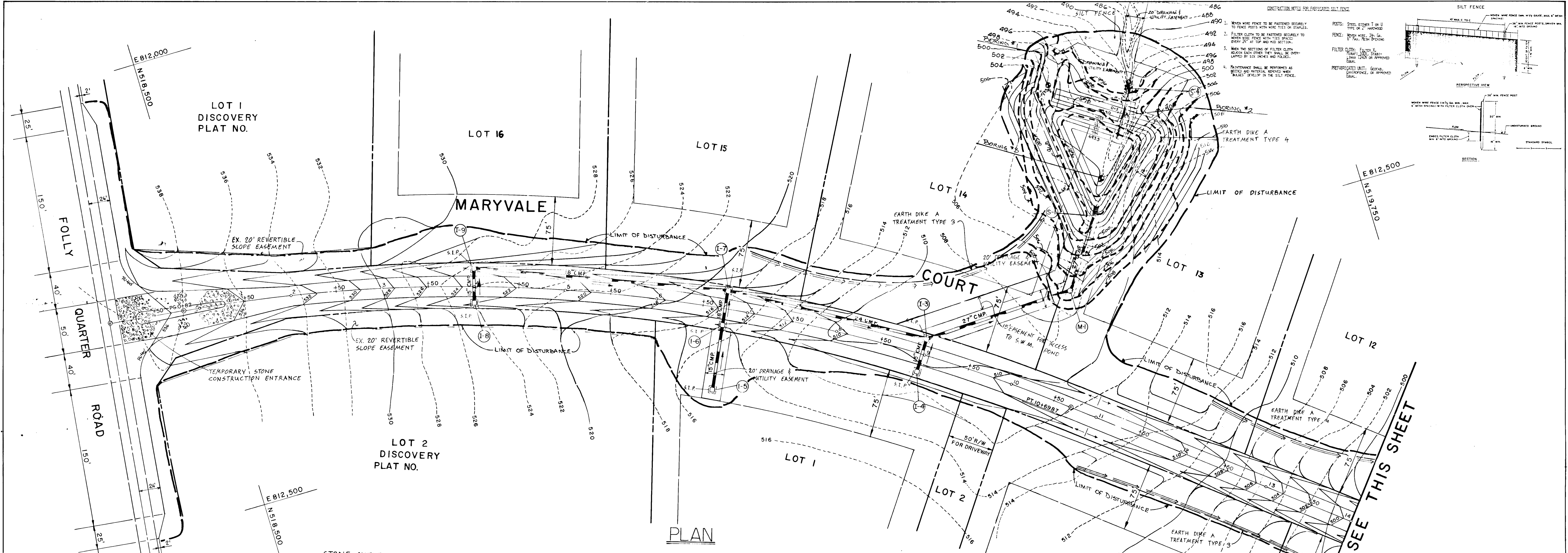
SCALE AS SHOWN DATE 6/5/89 DWG NO 3 OF 5
DES. Z.Y.F. DRN. A.S. CHK. C.J.C.

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE ELLICOTT CITY, MARYLAND 21043



Revised 12/21/90 - Revised Culvert S-2 to S-3 By: US

1504

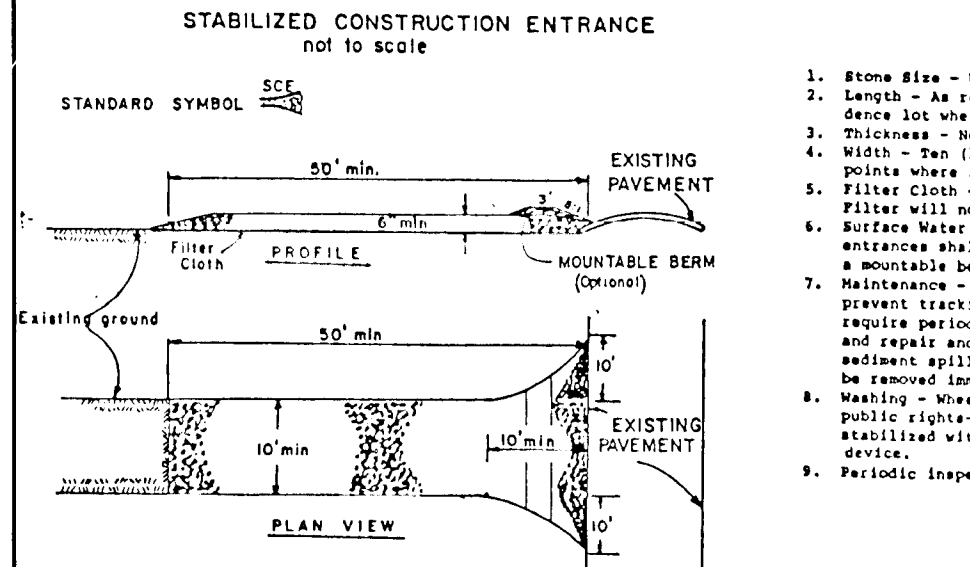


PLAN
SCALE 1"=50'

STONE OUTLET SEDIMENT TRAP DATA

- SEDIMENT CONTROL NOTES:**
- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (892-2437).
 - ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - FOR ALL INITIAL SOIL DISTURBANCE OR RESTORATION, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES; DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 2:1, 3:14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
 - ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOIL (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
 - ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - SITE ANALYSIS:**
TOTAL AREA OF SITE: 63.72 ACRES
AREA DISTURBED: 8.25 ACRES
AREA TO BE ROOFED OR PAVED: 1.14 ACRES
AREA TO BE VEGETATIVELY STABILIZED: 5.00 CU.YDS.
TOTAL CUT: 5900 CU.YDS.
TOTAL FILL: 214 CU.YDS.
 - ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY PLACING OR REMOVING UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 - ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR BUILDING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

TRAP NO.	DRAINAGE AREA	STORAGE REQUIRED	STORAGE PROVIDED	STORAGE ELEVATION	DIMENSIONS	BOTTOM ELEVATION	CLEANOUT ELEVATION	WEIR CREST ELEVATION	DEPTH	SIDE SLOPE
TRAP NO. 1	0.77 AC.	47.33 CU.YDS.	47.30 CU.YDS.	489.00	22'x12'	486.00	487.5	489.00	3.0'	2:1
TRAP NO. 2	1.00 AC.	66.67 CU.YDS.	71.33 CU.YDS.	491.00	18'x18'	488.00	489.50	491.00	3.0'	2:1
TRAP NO. 3	0.39 AC.	26.00 CU.YDS.	26.60 CU.YDS.	495.00	12'x12'	493.00	494.00	495.00	3.0'	2:1
TRAP NO. 4	0.35 AC.	23.33 CU.YDS.	27.36 CU.YDS.	493.00	12'x12'	491.5	492.25	493.00	3.0'	2:1

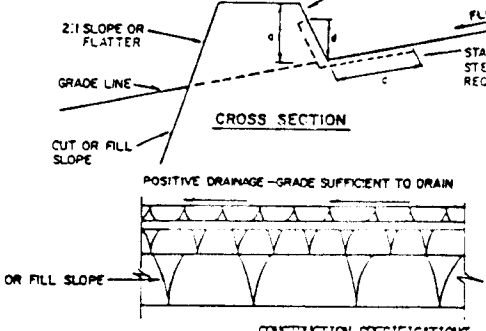


FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
1208 COURT AVENUE
L I COTT CITY, MARYLAND 21043

Revised 5-2 to 5-3 by J.S.
December 14, 1970

CHARLES J. CROVO SR. DATE

TYPE OF MATERIAL	APPROXIMATE QUANTITY	NOTE
1. 5:1 SLOPE	1.5	SEE AND STORM FLOOD
2. 3:1 SLOPE	1.5	SEE AND STORM FLOOD
3. 5:1 SLOPE	1.5	SEE AND STORM FLOOD



OWNER AND ARCHITECT
WILLIAM W. AITCHESON
12706 FOLLY QUARTER RD.
CLARKSVILLE MARYLAND 21029

STORM WATER MANAGEMENT
GRADING AND SEDIMENT
CONTROL PLAN
SECOND DISCOVERY
LOTS 1-16
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN JUNE 5, 1989
F-89-243 SHEET 1 OF 16

STORM WATER MANAGEMENT POND CERTIFICATION AND APPROVAL

ENGINEER'S CERTIFICATE
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

Charles J. Crovo 8/19/89

DEVELOPER'S CERTIFICATE
I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS OF THE HOWARD SOIL CONSERVATION DISTRICT.

William W. Aitcheson 8/19/89

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION. APPROVAL OF THE DISTRICT IS NOT GUARANTEED.

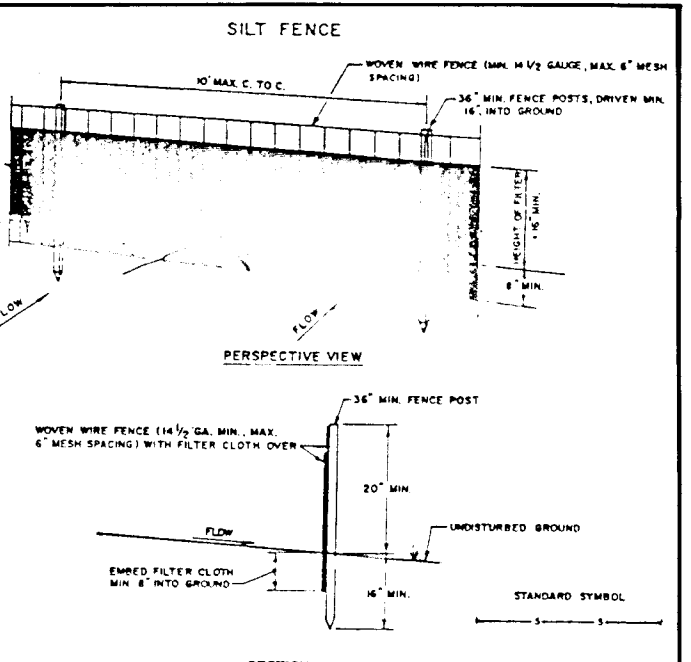
James T. ... 9-27-89

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Blair ... 9/27/89

APPROVED: DEPARTMENT OF PLANNING AND ZONING
... 10/10/89

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
... 10/18/89



ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL, REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST SUBMIT THIS PLAN TO THE HOWARD SOIL CONSERVATION DISTRICT WITHIN 30 DAYS OF COMPLETION OF THE POND CONSTRUCTION.

Charles W. Crovo 8/17/89
 William W. Aitchison 8/17/89

DEVELOPER'S CERTIFICATE
 I HAVE CERTIFIED THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERSONNEL TO PERFORM THE INSPECTIONS OF THE HOWARD SOIL CONSERVATION DISTRICT.

William W. Aitchison 10-24-89

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION AND SEDIMENT CONTROL.

James M. Helm 9/27/89

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

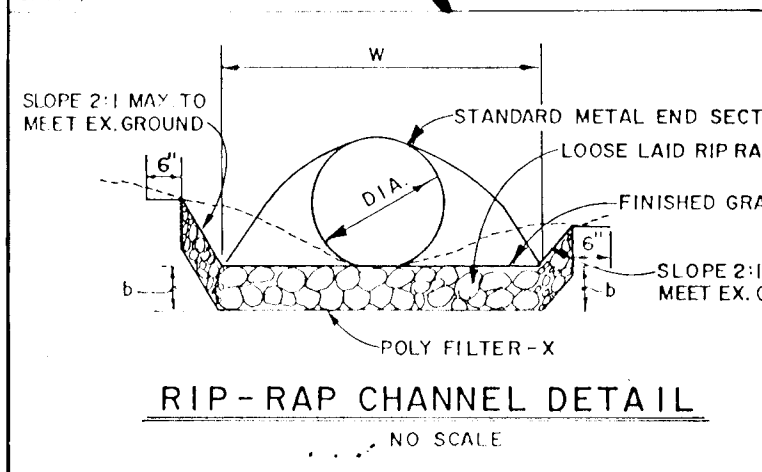
Robert J. Zimm 9/27/89

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Frank S. Campbell 11/4/89

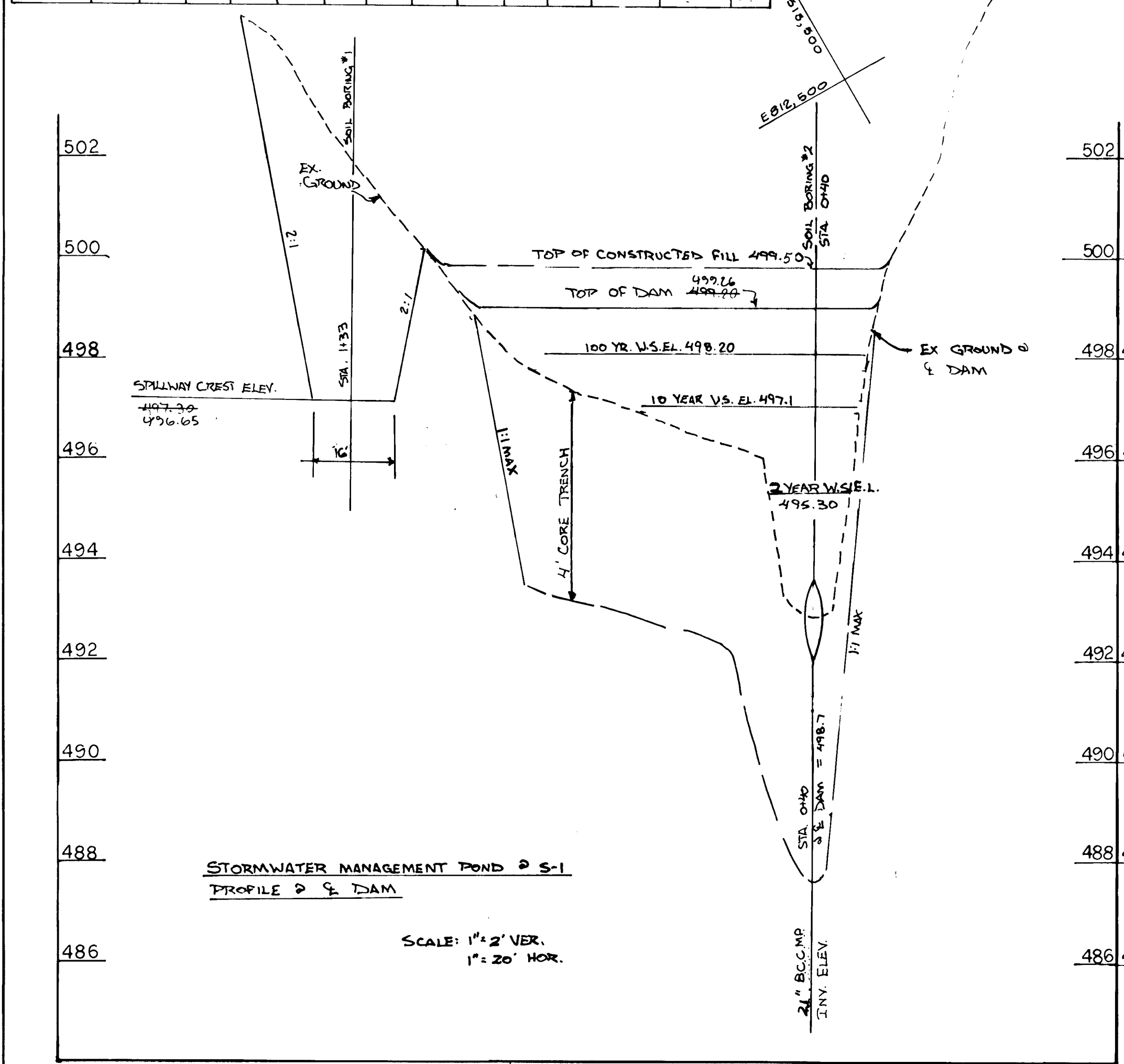
APPROVED: DEPARTMENT OF PUBLIC WORKS
Donald J. Jones 10/19/89

Ernest W. Ueland 10/18/89

William W. Aitchison 10-24-89

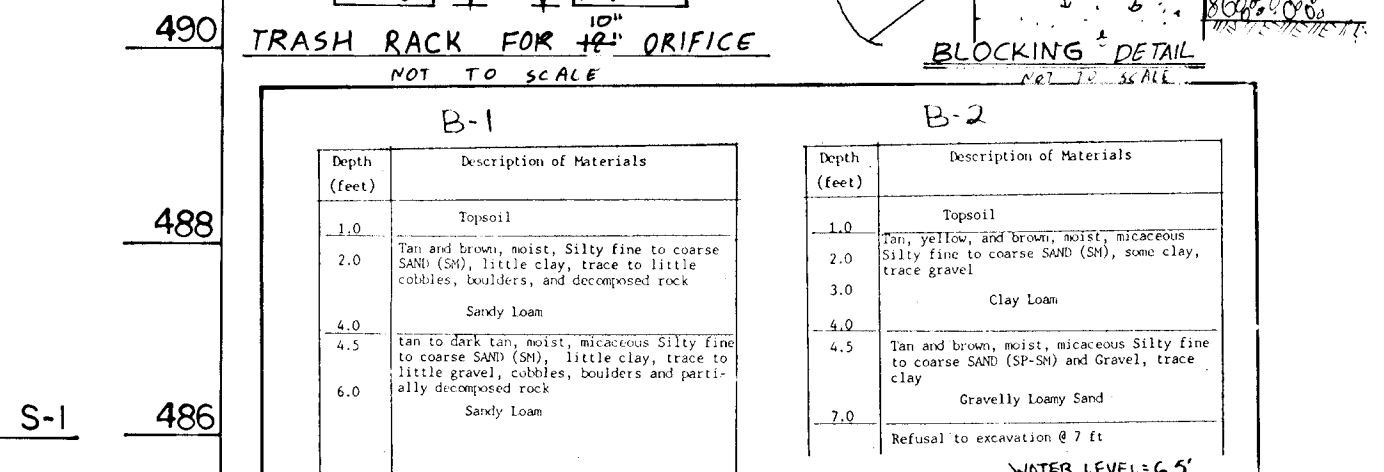
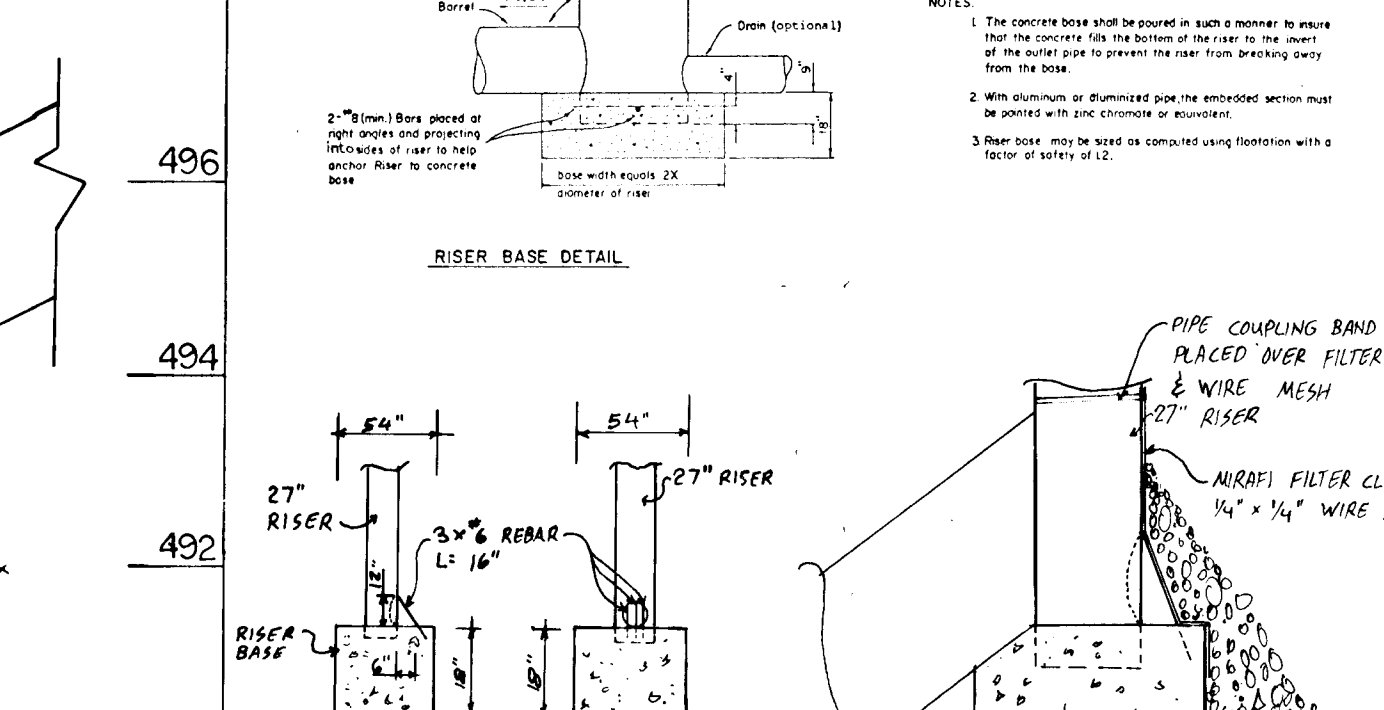
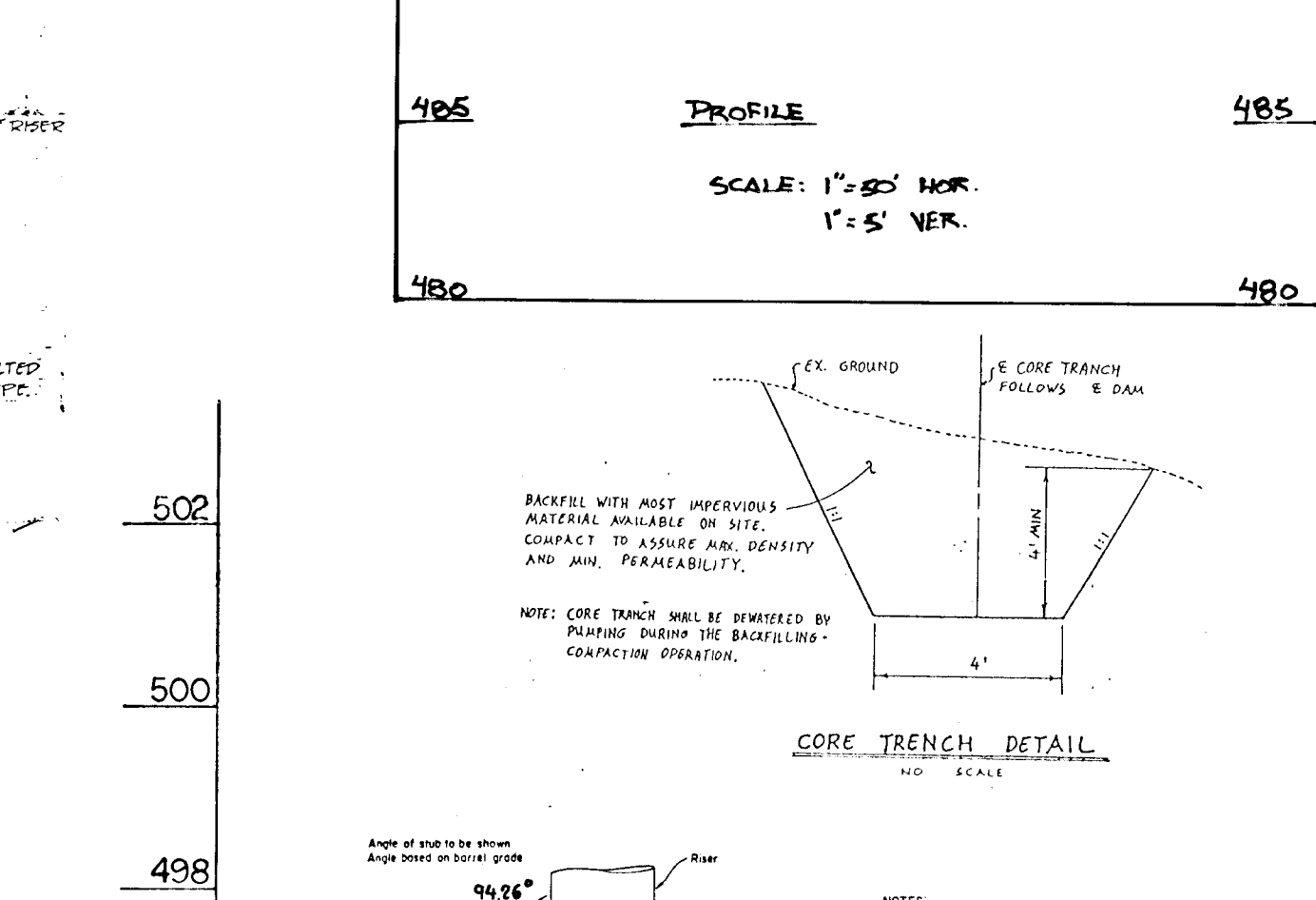
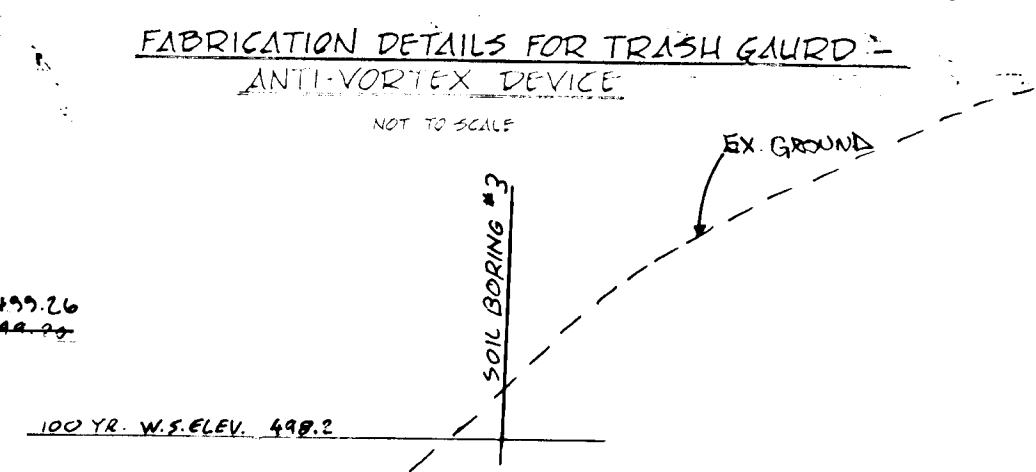
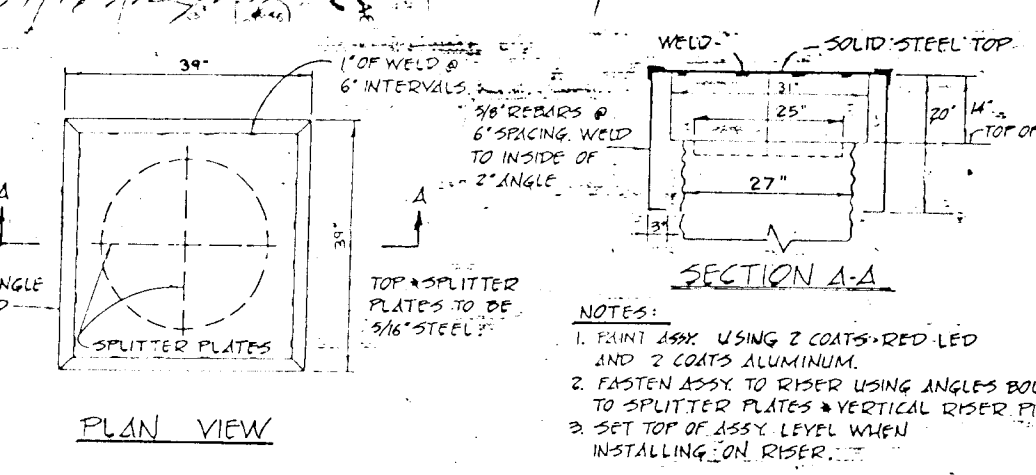
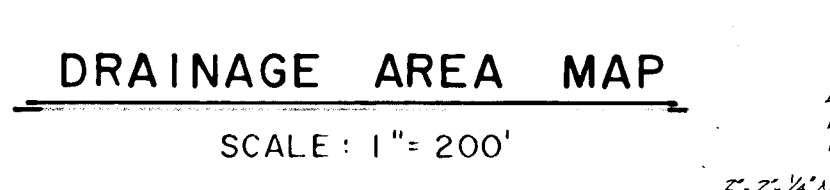
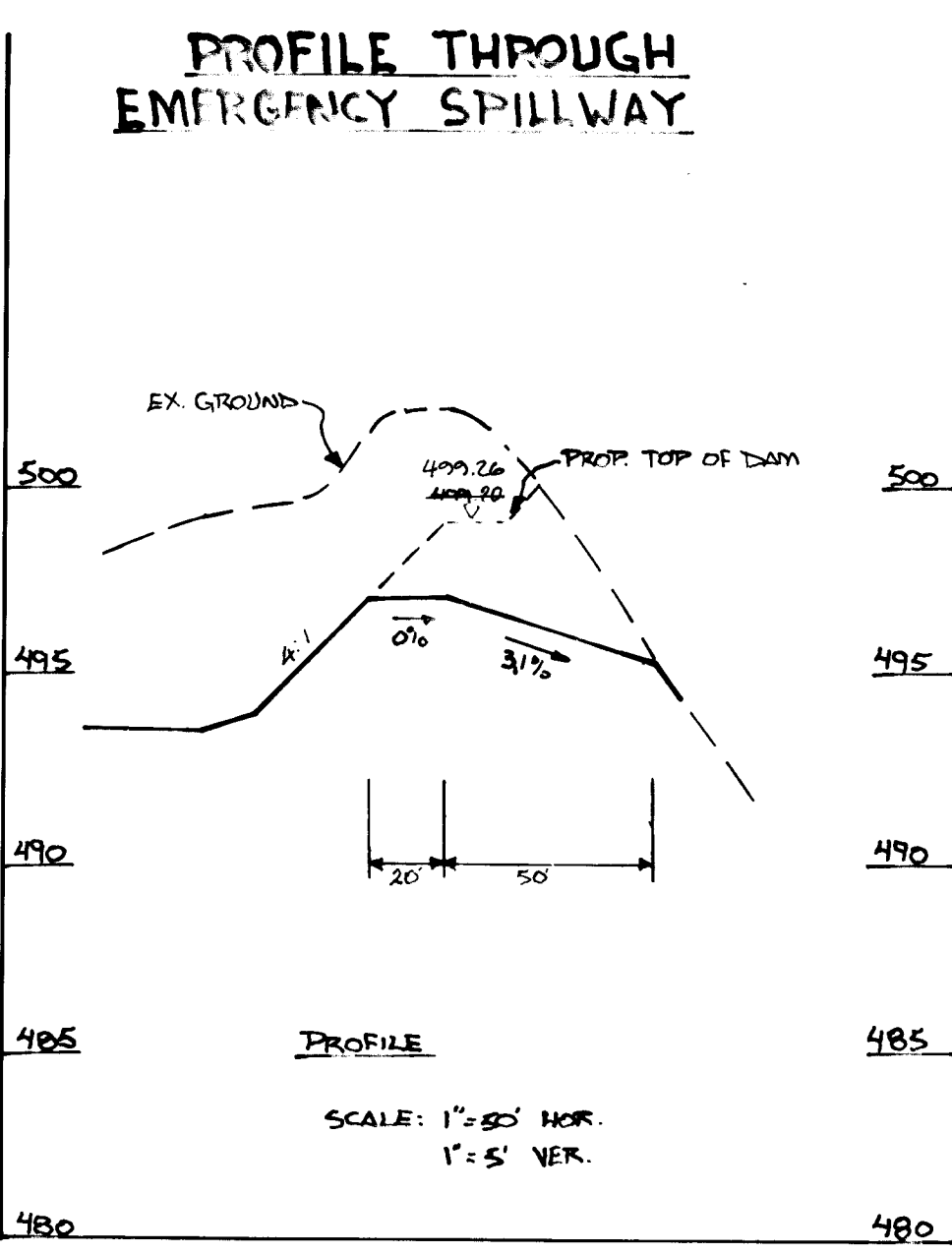


STRUCTURE	A #	P.H.	R	R ² /3	5%	5 1/2	n	Q ₁₀	V ₁₀	d _r	W ₄	RIP-RAP SIZE	B MAX	b
S-1	9.10	10.80	0.84	0.89	0.5%	0.079	0.04	21.71	2.34	1.14	5.7	6"	9"	14"
S-4	3.30	7.04	0.45	0.59	0.5%	0.079	0.04	16.36	4.88	0.58	5'	6"	9"	14"



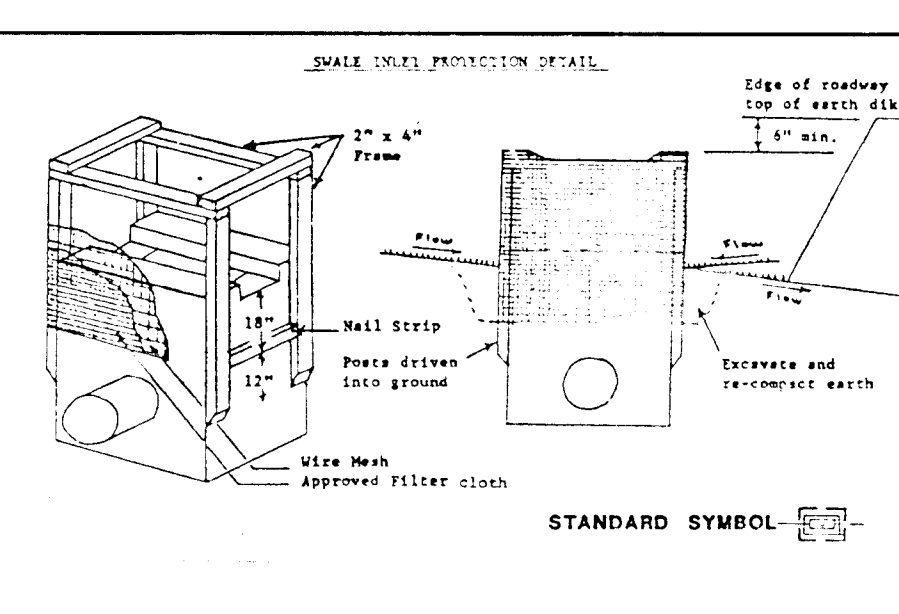
DRAINAGE AREA TABULATION

DRAINAGE AREA	GOING TO	AREA AC. ±	C _w	ZONED
A	1-9	2.68	0.30	"R"
B	1-8	1.00	0.40	"R"
C	1-6	1.65	0.35	"R"
D	1-5	2.12	0.24	"R"
E	1-7	1.40	0.35	"R"
F	1-3	1.11	0.40	"R"
G	1-4	1.95	0.37	"R"
H	1-1	0.75	0.70	"R"
I	1-2	0.90	0.65	"R"
J	S-3	13.32	0.24	"R"



BORING PROFILES

Depth (feet)	Description of Materials
1.0	Topsoil
2.0	Silt and brown, moist, silty fine to coarse sand (SM), little clay, trace of siltstone, boulders, and decomposed rock
3.0	Sandy loam
4.0	Silt, loam, and gravel, moist, silty fine to coarse sand (SM), little clay, trace of siltstone, boulders, and decomposed rock
5.0	Sandy loam
6.0	Gravelly loamy sand
8.0	Water Level: 6.5'



- CONSTRUCTION SEQUENCE**
- OBTAIN GRADING PERMIT.
 - CONSTRUCT STONE CONSTRUCTION ENTRANCE.
 - CONSTRUCT STONE OUTLET SEDIMENT TRAPS.
 - CONSTRUCT PERMANENT STORMWATER MANAGEMENT POND AND STABILIZE USING TEMPORARY SEEDING.
 - INSTALL SILT FENCE OR STORMWATER Dikes AND EARTH DIKE AS SHOWN ON SHEET 4 OF 5.
 - CLEAR MARYVALE COURT TO SUBGRADE.
 - CONSTRUCT CURBWAY FROM S-3 TO S-2.
 - CONSTRUCT STORM DRAIN SYSTEM FROM J-8 TO S-1 AND FROM I-1 TO S-2.
 - INSTALL SMALL INLET PROTECTION AT I-1, J-2, I-3, I-4, I-5, I-6, I-7, I-8 AND I-9.
 - GRADE SCOPE AREAS BETWEEN EXISTING GROUND AND EDGE OF PAVING.
 - DURING CONSTRUCTION SEDIMENT SHALL BE REMOVED FROM THE STONE OUTLET SEDIMENT TRAPS AND THE STORM WATER MANAGEMENT POND WHEN THE CLEANOUT ELEVATION HAS BEEN REACHED.
 - REMOVE STONE CONSTRUCTION ENTRANCE.
 - CLEAN BASE COURSE - APPLY TRACK COAT TO BASE COURSE AND LAY SURFACE COURSE. STABILIZE ALL AREAS USING PERMANENT SEEDING.
 - REMOVE STONE OUTLET SEDIMENT TRAPS AND EARTH DIKES ONCE DISTURBED AREAS HAVE BEEN STABILIZED.
 - INSTALL 4\"/>

- STORM WATER MANAGEMENT NOTES:**
- GENERALLY, ALL CONSTRUCTION MATERIALS, PROCEDURES, STANDARDS AND SPECIFICATIONS SHALL BE IN ACCORDANCE WITH THE "STORM WATER MANAGEMENT POND DESIGN MANUAL" PUBLISHED BY THE MD, ASSOCIATION OF SOIL CONSERVATION DISTRICTS, JUNE, 1975 AND ANY AMENDMENTS THEREON. THESE STANDARDS SHALL APPLY TO PERMANENT STORM WATER MANAGEMENT PONDS AND TO TEMPORARY SEDIMENT BASINS. THE EMBANKMENT AND EMERGENCY SPILLWAY AREAS SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF THEIR RESPECTIVE "METHODS OF SOIL STABILIZATION".
- SITE PREPARATION: AREAS DESIGNATED FOR BORROW AREAS, EMBANKMENT, AND STORMWATER MANAGEMENT PONDS SHALL BE CLEARED AND STRIPPED OF TOPSOIL. ALL TREES, VEGETATION, ROOTS AND OTHER OBSTRUCTIONABLE MATERIAL SHALL BE REMOVED. GRUBBED AREAS SHALL BE COVERED BY THE POND OR RESERVOIR WILL BE CLEARED OF ALL TREES, BRUSH, LOGS, FENCE, RUBBISH AND OTHER OBSTRUCTIONABLE MATERIAL UNLESS OTHERWISE DESIGNATED ON THE PLANS. TREE, BRUSH AND STUMPS SHALL BE CUT APPROXIMATELY LEVEL WITH GROUND SURFACE. ALL CLEARED AND GRUBBED MATERIAL SHALL BE DISPOSED OF OUTSIDE AND BELOW THE LIMITS OF THE DAM AND RESERVOIR AS DIRECTED BY THE OWNER OR HIS REPRESENTATIVE. WHEN SPECIFIED, A SUFFICIENT QUANTITY OF TOPSOIL WILL BE STOCKPILED IN A SUITABLE LOCATION FOR USE ON THE EMBANKMENT AND OTHER DESIGNATED AREAS.
 - EARTH FILL: MATERIALS FOR THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DISTURBED BORROW AREAS OR AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, OVERSIZE STONES, FROZEN OR OTHER OBSTRUCTIONABLE MATERIALS. THE EMBANKMENT SHALL BE CONSTRUCTED TO AN ELEVATION WHICH PROVIDES FOR ANTICIPATED SETTLEMENT TO THE DESIGN ELEVATION. THE FILL WEIGHT ALL ALONG THE LENGTH OF THE EMBANKMENT SHALL BE INCREASED ABOVE THE DESIGN ELEVATION (INCLUDING FREEBOARD) AS SHOWN ON THE PLANS. PLACEMENT: AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCRIPED PRIOR TO PLACEMENT TO FILL. FILL MATERIALS SHALL BE PLACED IN 6" MAXIMUM THICKNESS (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST POROUS BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT.
 - COMPACTION: THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH LIFT SHALL BE TRAVERSED BY NOT LESS THAN ONE TREAD TRACK OF THE EQUIPMENT OR COMPACTION SHALL BE ACHIEVED BY A MINIMUM OF FOUR COMPLETE PASSES OF A SHEEPSFOOT RUBBER TIRE OR VIBRATORY ROLLER. FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SUCH THAT THE REQUIRED DEGREE OF COMPACTION CAN BE OBTAINING WITH THE EQUIPMENT USED. ALL EMBANKMENTS SHALL BE COMPACTED IN LAYERS NOT EXCEEDING THICKNESS SPECIFIED ABOVE. EACH LAYER SHALL BE COMPACTED TO NOT LESS THAN 90% OF MAXIMUM DENSITY VALUE AS DETERMINED BY A.A.S.H.T.O. METHOD T-180.

FISHER, COLLINS AND CARTER, INC.
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 ELICOTT CITY, MARYLAND 21043

Revised S-2 to S-3 by J.S.
 December 21, 1990

Charles W. Crovo
 CHARLES W. CROVO SR.
 DATE 8/17/89

OWNER AND DEVELOPER
 WILLIAM W. AITCHISON
 12706 FOLLY QUARTER RD.
 CLARKSVILLE MARYLAND 21029

DRAINAGE AREA MAP
 STORM WATER MANAGEMENT
 SEDIMENT CONTROL DETAILS
SECOND DISCOVERY
 LOTS 1-16
 3RD. ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN JUNE 5, 1989
 SHEET 5 OF 5

150A

F-89-243