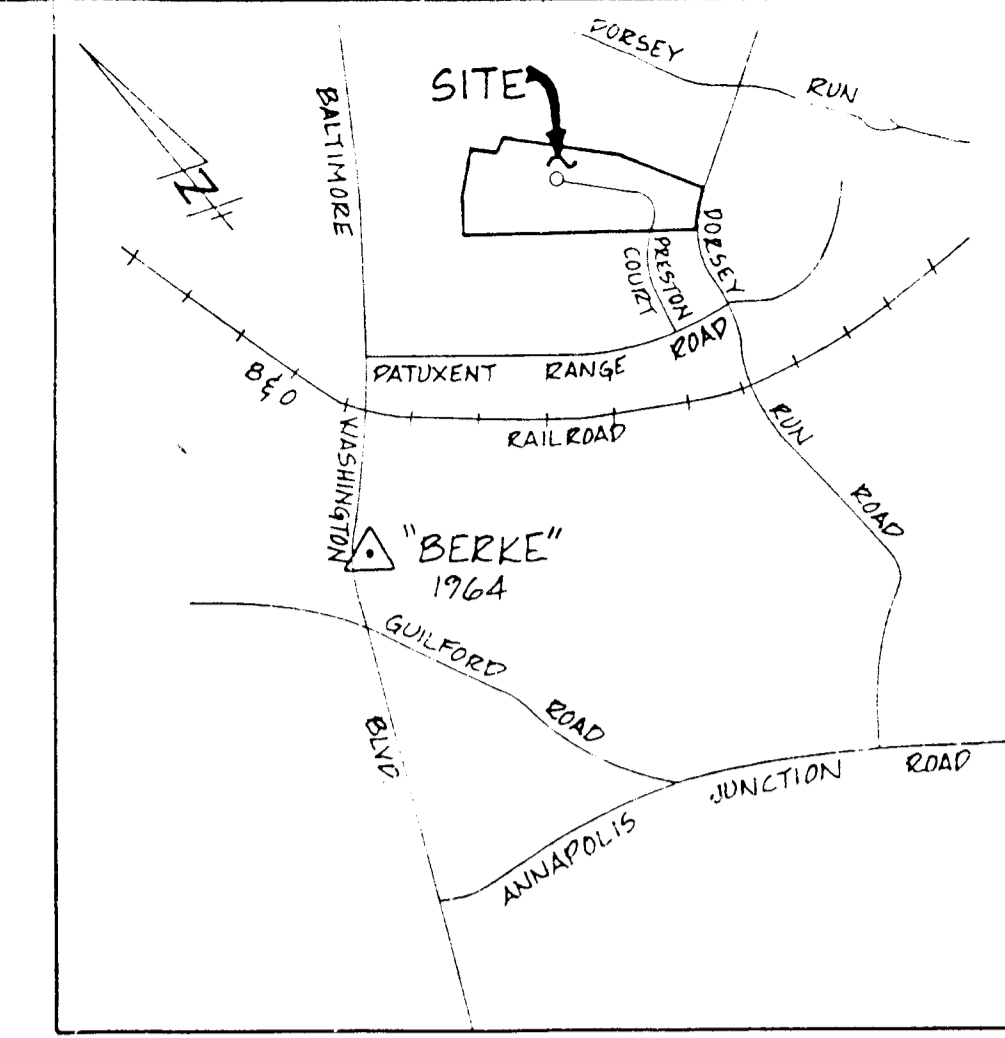


# BALTIMORE WASHINGTON INDUSTRIAL PARK - SEC. II

## DEPARTMENT OF PUBLIC WORKS

### 6th. ELECTION DISTRICT

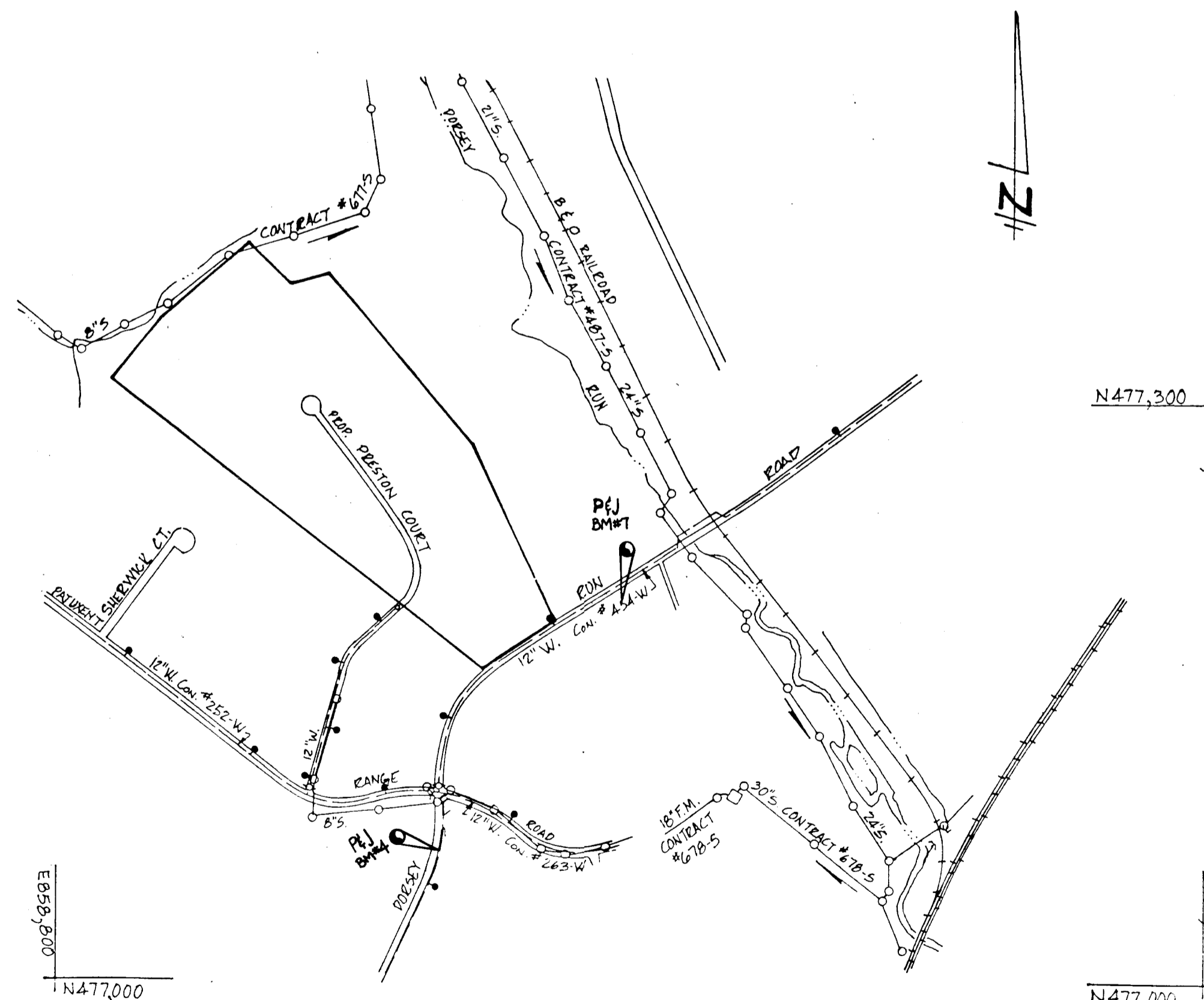
### HOWARD COUNTY, MARYLAND



VICINITY MAP  
SCALE: 1"=2000'  
COORDINATES SHOWN HEREON ARE BASED ON PLANE COORDINATES MARYLAND STATE GRID SYSTEM "BERKE AZIMUTH MARK 1964"  
N477803.34  
E854,187.53

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME IV, "STANDARD DETAILS AND SPECIFICATIONS FOR CONSTRUCTION".
2. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. 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.
3. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
4. CONTRACTOR TO NOTIFY "MISS UTILITY" PHONE (1) 539-0100 AT LEAST THREE (3) DAYS BEFORE STARTING WORK SHOWN ON THIS/THESE DRAWING(S).
5. INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1978 OR LATEST REVISION.
6. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME III STANDARDS. 35 MPH.
7. ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM 1929.
8. ALL COORDINATES BASED ON MARYLAND STATE GRID SYSTEM.
9. PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
10. BRICK BULKHEADS SHALL BE INSTALLED IN ALL STORM DRAIN STUBS.
11. CONTRACTOR TO RESTORE ALL EXISTING PAVING, SIDEWALKS OR LAWNS AFFECTED BY THE CONSTRUCTION SHOWN HEREON TO A CONDITION COMPARABLE TO THAT EXISTING PRIOR TO CONSTRUCTION.
12. REFER TO APPROVED GP 86-50 FOR SEDIMENT CONTROL DEVICES THAT ARE TO BE MAINTAINED DURING CONSTRUCTION OF THIS CONTRACT.
13. ALL STORM DRAIN BEDDING TO BE CLASS C EXCEPT WHERE OTHERWISE NOTED.



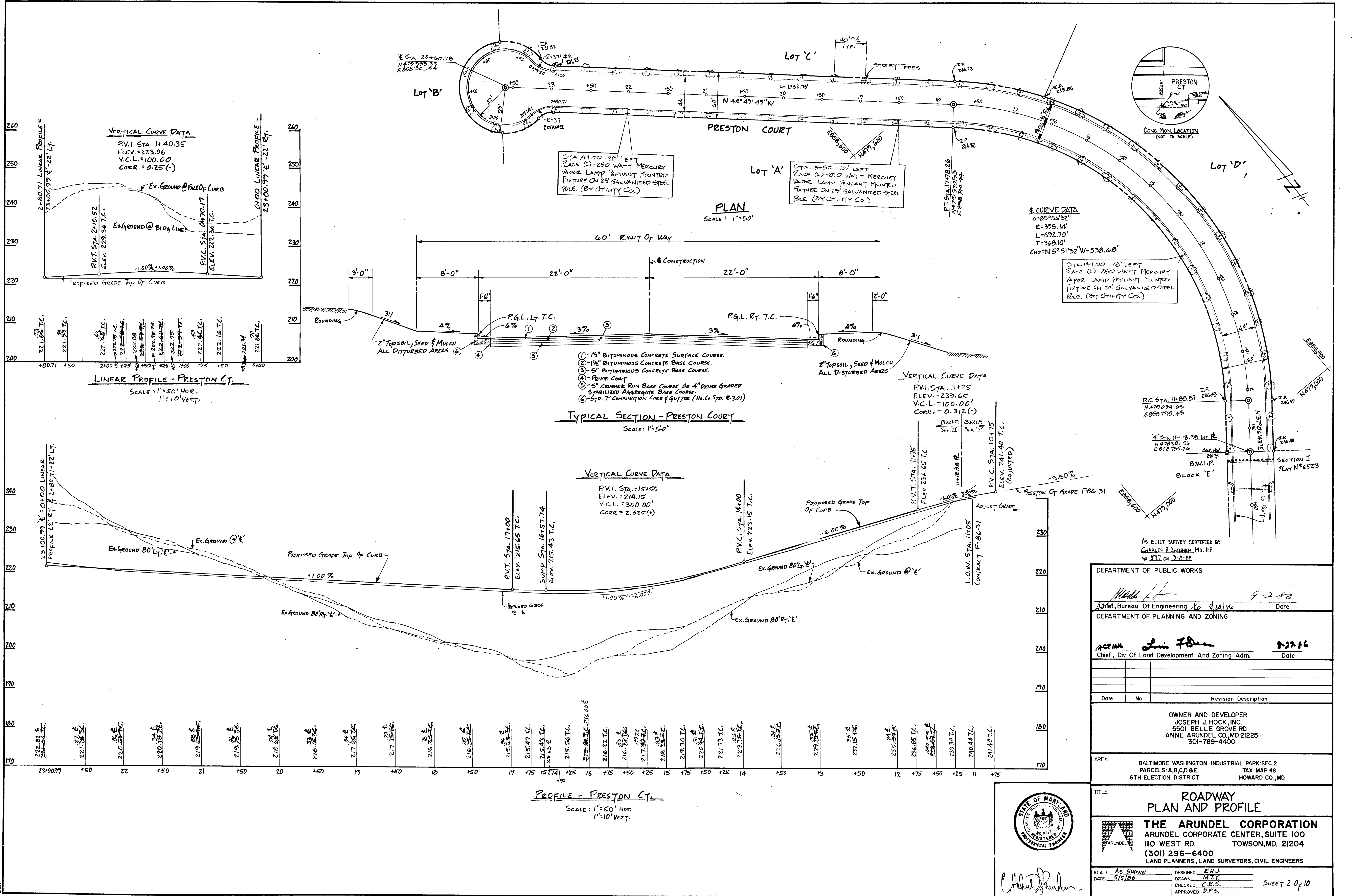
LOCATION PLAN  
SCALE: 1"=600'

NO.	INDEX OF SHEETS
1	TITLE SHEET
2	PRESTON COURT ROAD PLAN & PROFILE
3	DORSEY RUN ROAD PLAN, PROFILE & DETAILS
4	STORM DRAIN PLAN - PRESTON COURT
5	STORM DRAIN PROFILES & DETAILS
6	SEDIMENT CONTROL FOR DORSEY RUN ROAD AND SEWER CONSTRUCTION
7	SEDIMENT CONTROL FOR PRESTON COURT
8	SEDIMENT CONTROL DETAILS & NOTES
9	STORM DRAIN MANAGEMENT FOND
10	DRAINAGE AREA MAP

P.I. B.M.#4 ELEV. 211.70  
R.R. SPIKE SET IN CIP #26, G1E#26356, S. SIDE.  
DORSEY RUN ROAD.  
P.I. B.M.#7 ELEV. 177.244  
R.R. SPIKE SET IN G1E# 263650, S. SIDE  
DORSEY RUN ROAD

DEPARTMENT OF PUBLIC WORKS		
<i>[Signature]</i>		9-2-86
Chief, Bureau Of Engineering		Date
DEPARTMENT OF PLANNING AND ZONING		
<i>[Signature]</i>		9-2-7886
Chief, Div. Of Land Development And Zoning Adm.		Date
Date	No.	Revision Description
OWNER AND DEVELOPER JOSEPH J. HOCK, INC. 5501 BELLE GROVE RD. ANNE ARUNDEL CO., MD. 21225 301-789-4400		
AREA	BALTIMORE WASHINGTON INDUSTRIAL PARK-SEC.2 PARCELS A,B,C,D&E TAX MAP 48 6TH ELECTION DISTRICT HOWARD CO., MD.	
TITLE	TITLE SHEET	
<b>THE ARUNDEL CORPORATION</b> ARUNDEL CORPORATE CENTER, SUITE 100 110 WEST RD. TOWSON, MD. 21204 (301) 296-6400 LAND PLANNERS, LAND SURVEYORS, CIVIL ENGINEERS		
SCALE: AS SHOWN	DESIGNED: M.T.Y.	
DATE: 5-29-86	DRAWN: M.T.Y.	
	CHECKED: C.R.S.	SHEET 1 OF 10
	APPROVED: D.P.S.	

*[Signature]*



**VERTICAL CURVE DATA**  
 P.V.I. STA. 14+03.35  
 ELEV. = 223.06  
 V.C.L. = 100.00  
 CORR. = 0.25 (-)

STA. 14+00 - 28' LEFT  
 PLACE (1) - 250 WATT MERCURY  
 VAPOR LAMP PENDANT MOUNTED  
 FIXTURE ON 25 GALVANIZED STEEL  
 POLE. (BY UTILITY CO.)

STA. 18+50 - 28' LEFT  
 PLACE (1) - 250 WATT MERCURY  
 VAPOR LAMP PENDANT MOUNTED  
 FIXTURE ON 25 GALVANIZED STEEL  
 POLE. (BY UTILITY CO.)

STA. 14+50 - 28' LEFT  
 PLACE (1) - 250 WATT MERCURY  
 VAPOR LAMP PENDANT MOUNTED  
 FIXTURE ON 25 GALVANIZED STEEL  
 POLE. (BY UTILITY CO.)

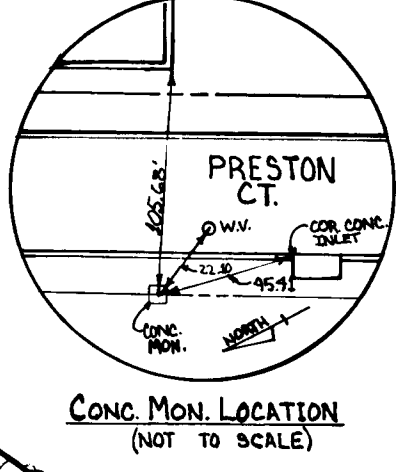
- ① - 1 1/2" BITUMINOUS CONCRETE SURFACE COURSE.
- ② - 1 1/2" BITUMINOUS CONCRETE BASE COURSE.
- ③ - 5" BITUMINOUS CONCRETE BASE COURSE.
- ④ - PRIME COAT
- ⑤ - 5" CRUSHER RUN BASE COURSE OR 4" DENSE GRADED STABILIZED AGGREGATE BASE COURSE.
- ⑥ - STD. 7" COMBINATION CURB & GUTTER (No. Co. Std. R. 3.01)

**TYPICAL SECTION - PRESTON COURT**  
 SCALE: 1"=5'0"

**VERTICAL CURVE DATA**  
 P.V.I. STA. 15+50  
 ELEV. = 214.15  
 V.C.L. = 300.00'  
 CORR. = 2.625 (+)

**VERTICAL CURVE DATA**  
 P.V.I. STA. 11+25  
 ELEV. = 239.65  
 V.C.L. = 100.00'  
 CORR. = 0.312 (-)

**PROFILE - PRESTON CT.**  
 SCALE: 1"=50' HOR.  
 1"=10' VERT.

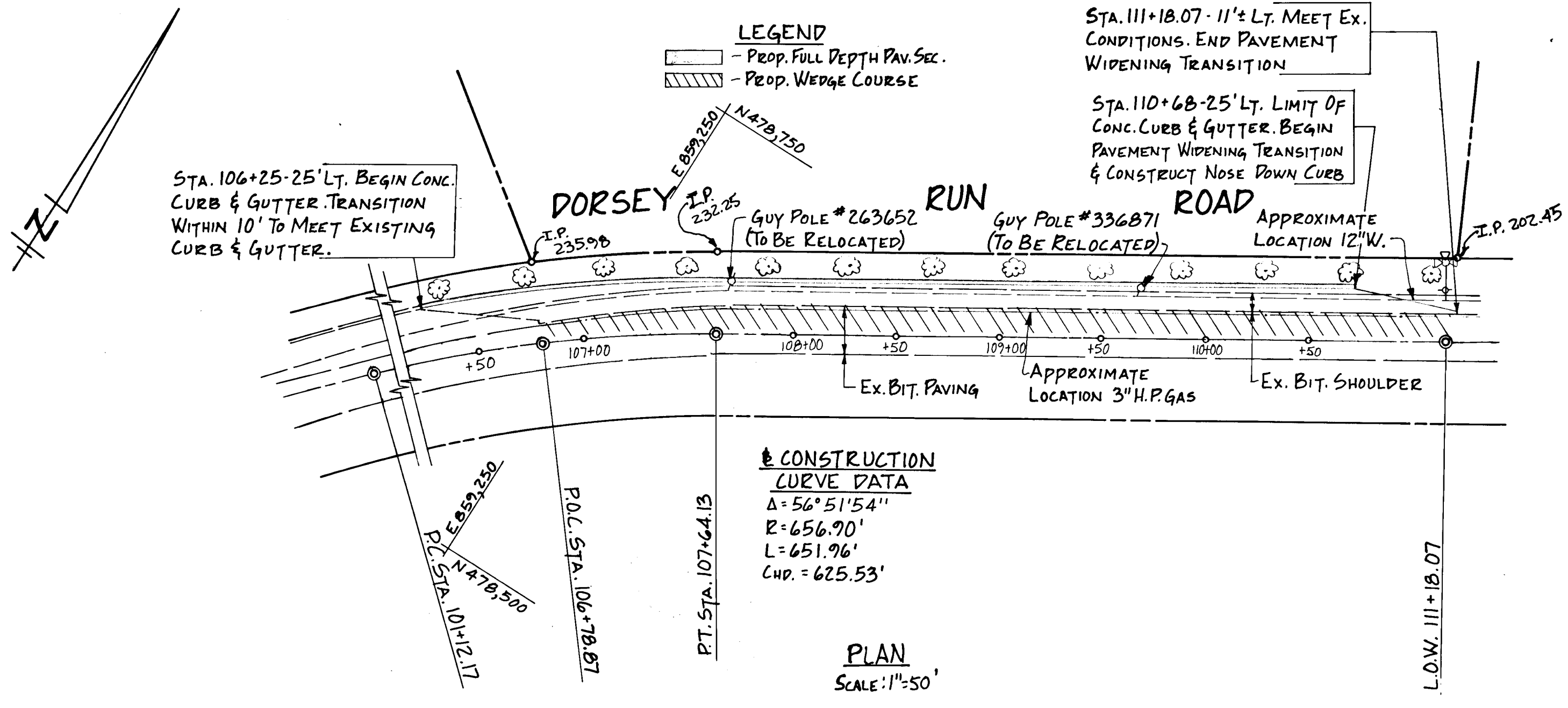


AS-BUILT SURVEY CERTIFIED BY  
 CHARLES R. SHINHAM, MD. P.E.  
 NO. 8111 ON 7-8-88.

DEPARTMENT OF PUBLIC WORKS		
Chief, Bureau of Engineering	<i>[Signature]</i>	Date 9-27-88
DEPARTMENT OF PLANNING AND ZONING		
Chief, Div. Of Land Development And Zoning Adm.	<i>[Signature]</i>	Date 9-27-88
Date	No.	Revision Description
OWNER AND DEVELOPER JOSEPH J. HOCK, INC. 5501 BELLE GROVE RD. ANNE ARUNDEL CO., MD. 21225 301-789-4400		
AREA BALTIMORE WASHINGTON INDUSTRIAL PARK-SEC.2 PARCELS A,B,C,D & E TAX MAP 48 6TH ELECTION DISTRICT HOWARD CO., MD.		



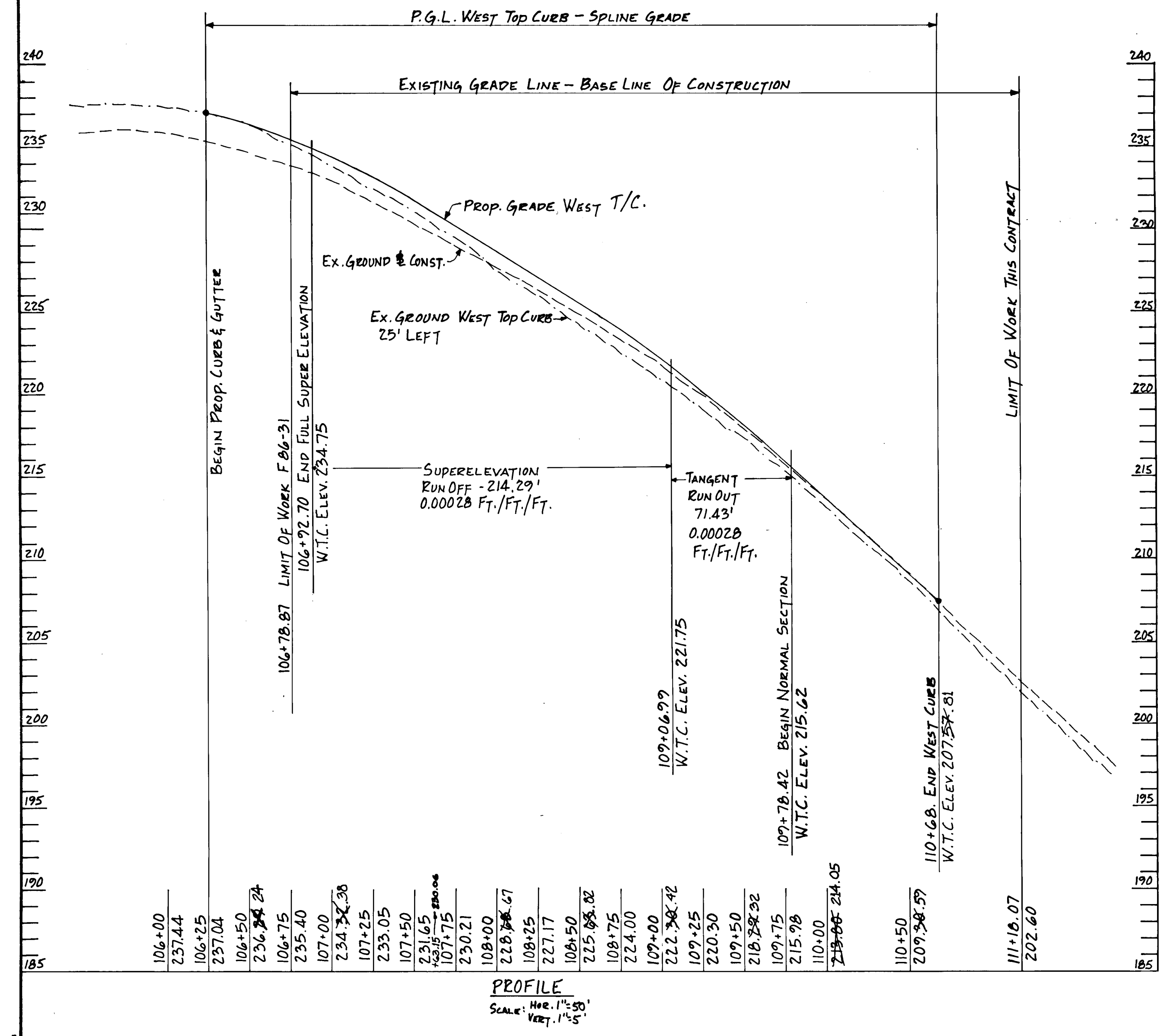
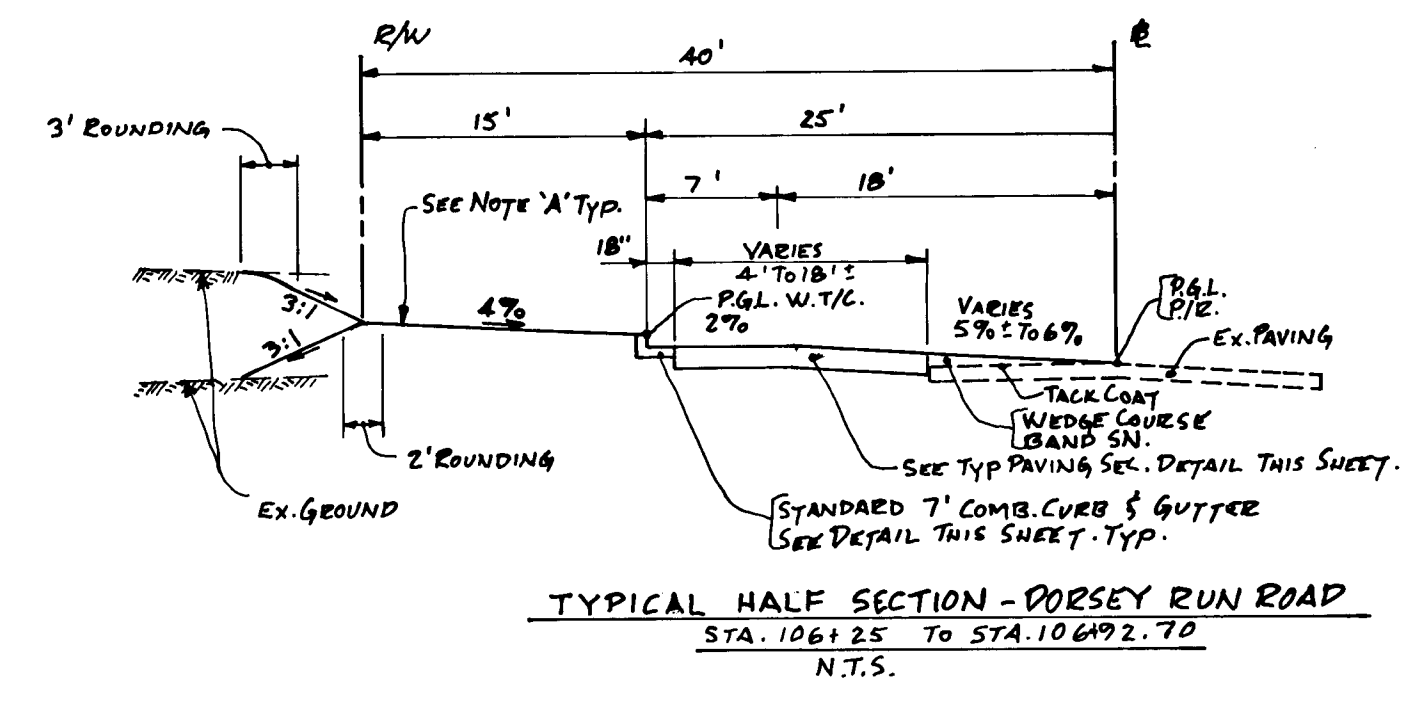
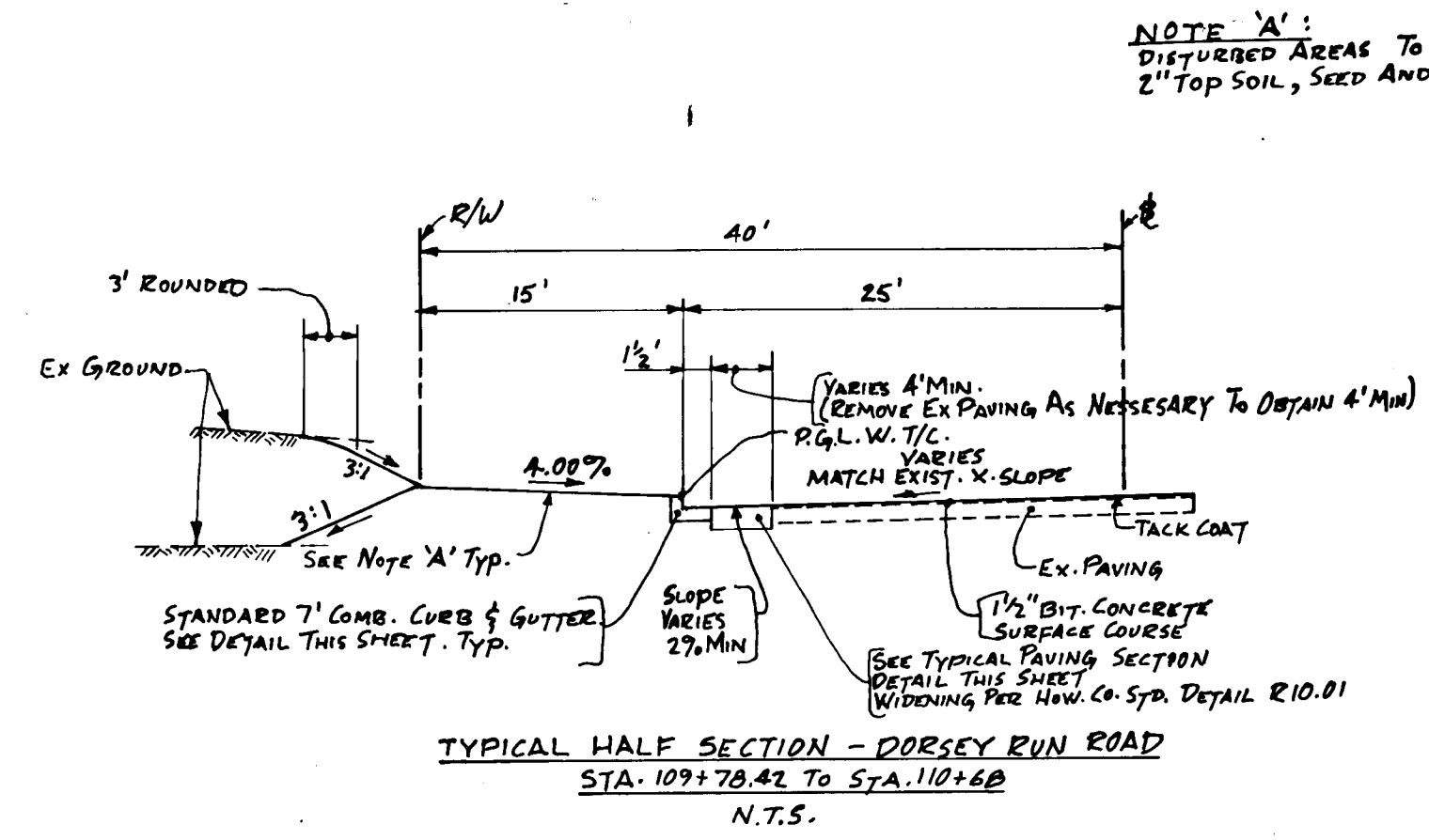
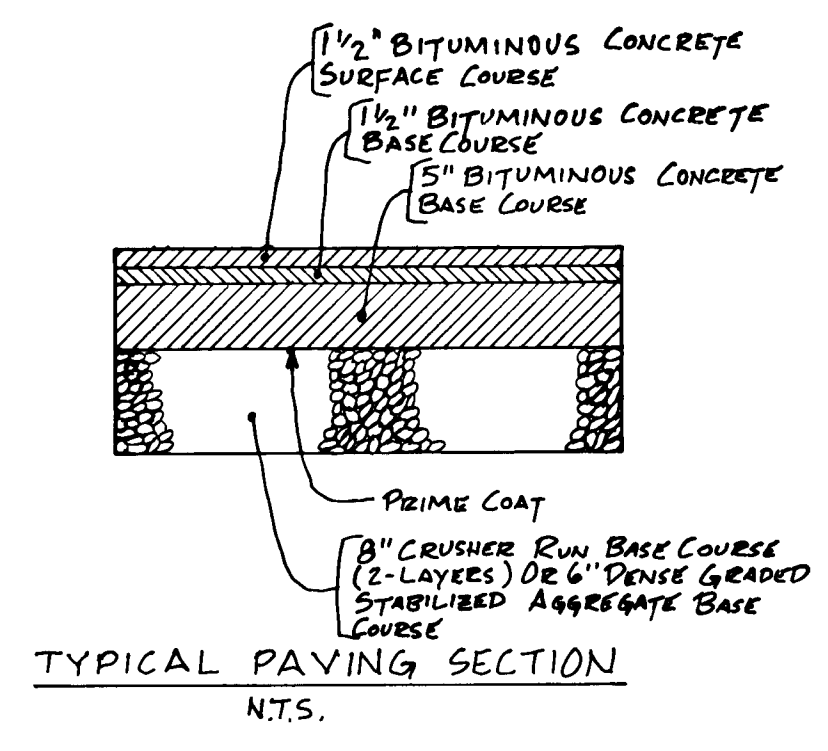
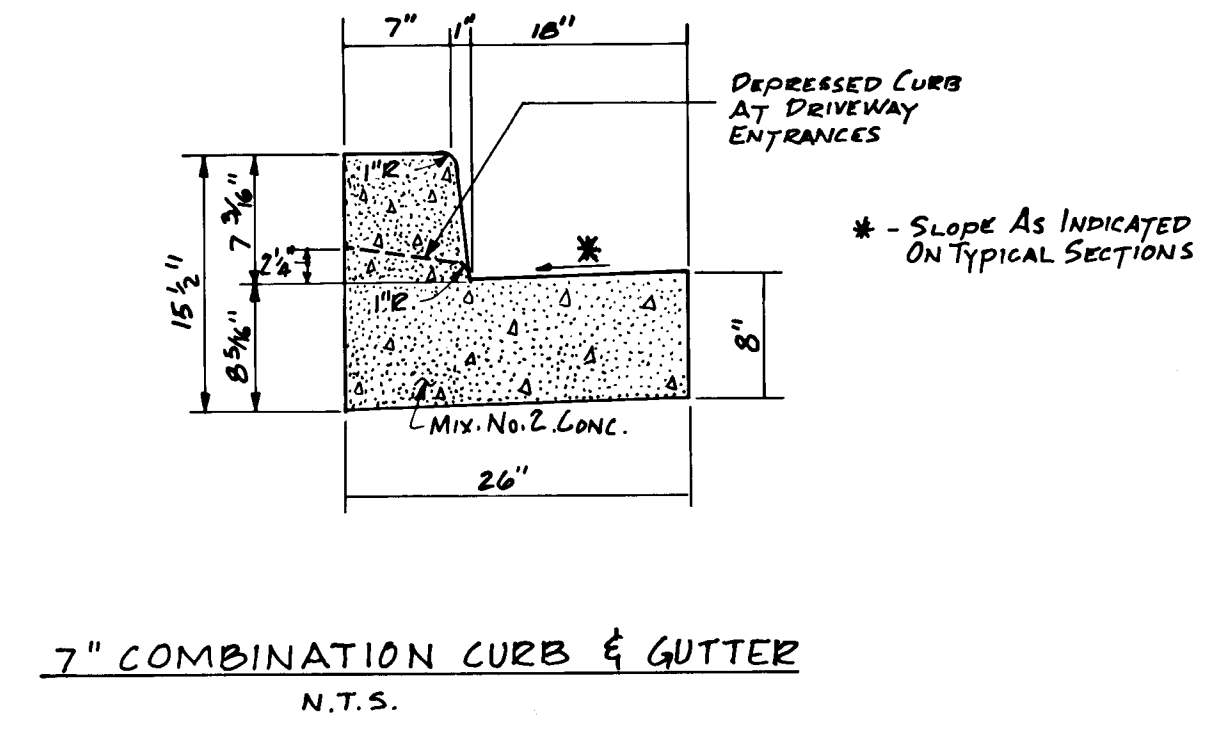
TITLE <b>ROADWAY PLAN AND PROFILE</b>		
<b>THE ARUNDEL CORPORATION</b> ARUNDEL CORPORATE CENTER, SUITE 100 110 WEST RD. TOWSON, MD. 21204 (301) 296-6400 LAND PLANNERS, LAND SURVEYORS, CIVIL ENGINEERS		
SCALE: AS SHOWN	DESIGNED: R.J.J.	SHEET 2 OF 10
DATE: 5/5/86	DRAWN: M.T.Y.	
	CHECKED: C.R.S.	
	APPROVED: P.P.S.	



**LEGEND**  
 - Prop. Full Depth Pav. Sec.  
 - Prop. Wedge Course

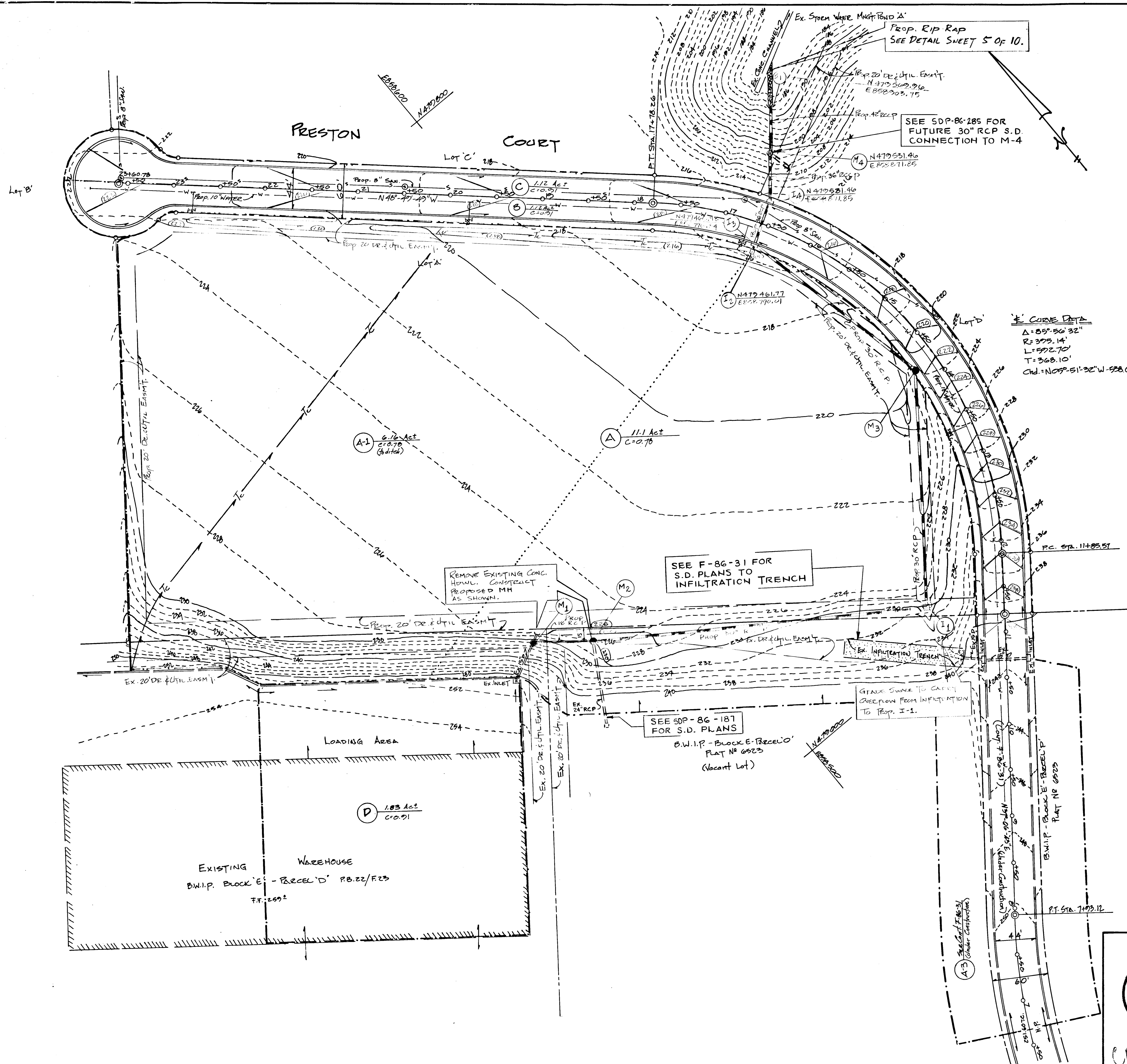
**CONSTRUCTION CURVE DATA**  
 $\Delta = 56^\circ 51' 54''$   
 $R = 656.90'$   
 $L = 651.96'$   
 $Chd. = 625.53'$

**PLAN**  
 SCALE: 1"=50'



AS-BUILT SURVEY CERTIFIED BY  
 CHARLES R. SHENHAM MD. P.E.  
 NO. 8717 ON 9-8-88.

DEPARTMENT OF PUBLIC WORKS		
Chief, Bureau Of Engineering	<i>[Signature]</i>	9-2-88
DEPARTMENT OF PLANNING AND ZONING		
Chief, Div Of Land Development And Zoning Adm.	<i>[Signature]</i>	9-27-86
Date	No	Revision Description
OWNER AND DEVELOPER JOSEPH J. HOCK, INC. 5501 BELLE GROVE RD. ANNE ARUNDEL CO., MD. 21225 301-789-4400		
AREA BALTIMORE WASHINGTON INDUSTRIAL PARK-SEC. 2 PARCELS: A, B, C, D & E TAX MAP 48 6TH ELECTION DISTRICT HOWARD CO., MD.		
TITLE DORSEY RUN ROAD PLAN, PROFILE & DETAILS		
SCALE: AS SHOWN	DESIGNED: C.E.S.	SHEET 3 OF 10
DATE: 4-29-86	DRAWN: M.T.Y.	
	CHECKED: C.E.S.	
	APPROVED: D.P.S.	



Prop. Rip Rap  
SEE DETAIL SHEET 5 OF 10.

SEE SDP-86-285 FOR  
FUTURE 30" RCP S.D.  
CONNECTION TO M-4

SEE F-86-31 FOR  
S.D. PLANS TO  
INFILTRATION TRENCH

SEE SDP-86-187  
FOR S.D. PLANS

B.W.I.P. - Block E - Parcel D  
PLAT NO 6523  
(Vacant Lot)

Curve Data  
 $\Delta = 85^{\circ} 56' 32''$   
 $R = 375.14'$   
 $L = 592.70'$   
 $T = 308.10'$   
 $Chd. = N 05^{\circ} 51' 32'' W - 528.68'$

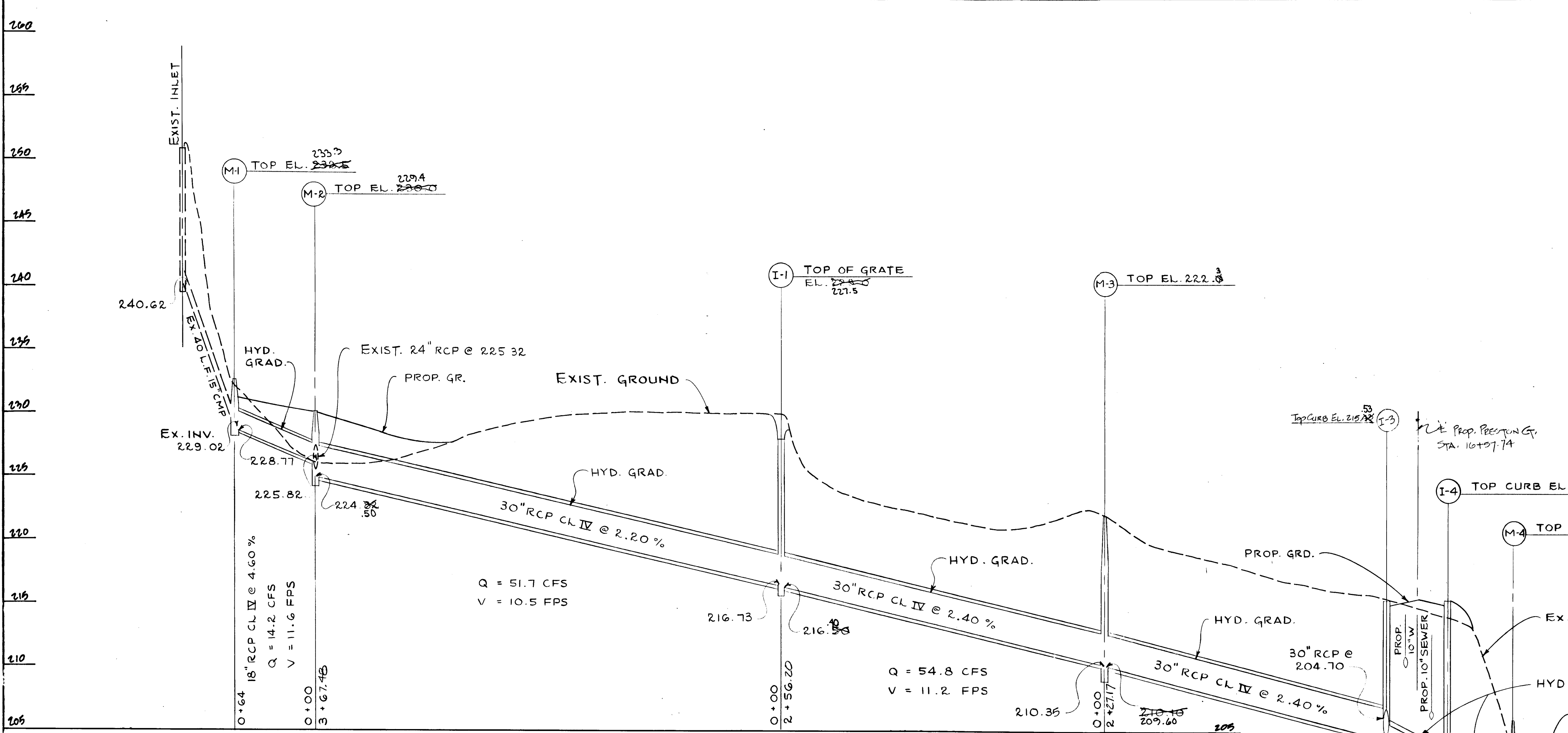
REMOVE EXISTING CONC.  
HOUWL. CONSTRUCT  
PROPOSED MH  
AS SHOWN.

GRADE SWINE TO CAREEN  
OVERFLOW FROM INFILTRATION  
TO PROP. I-1.

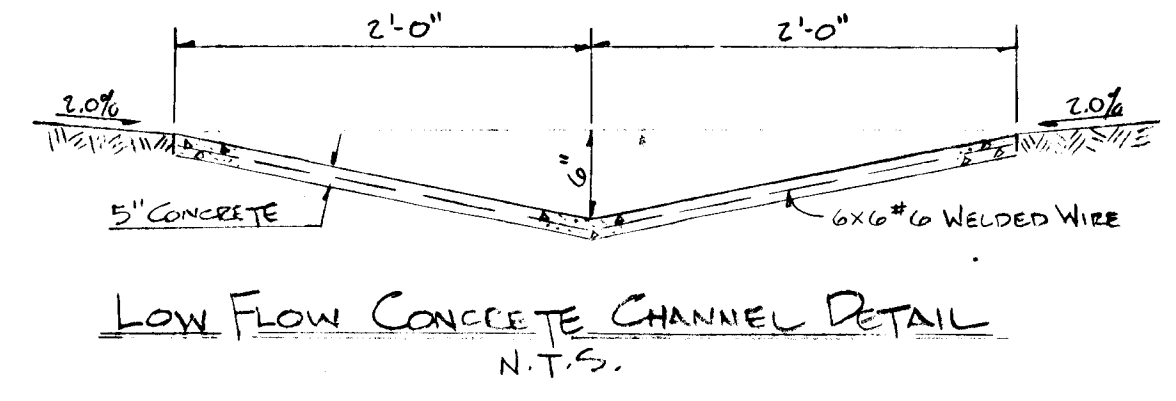
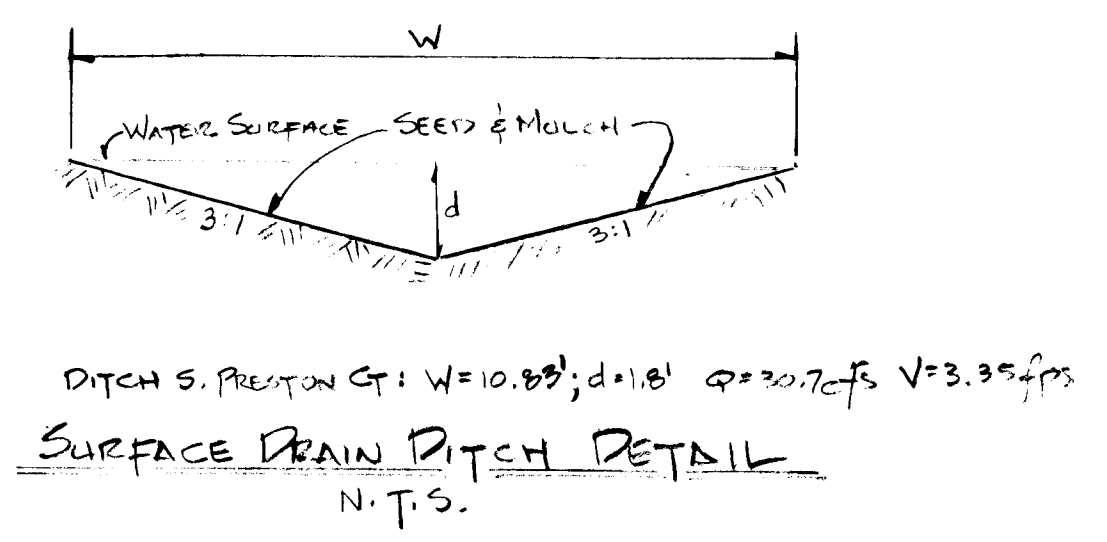
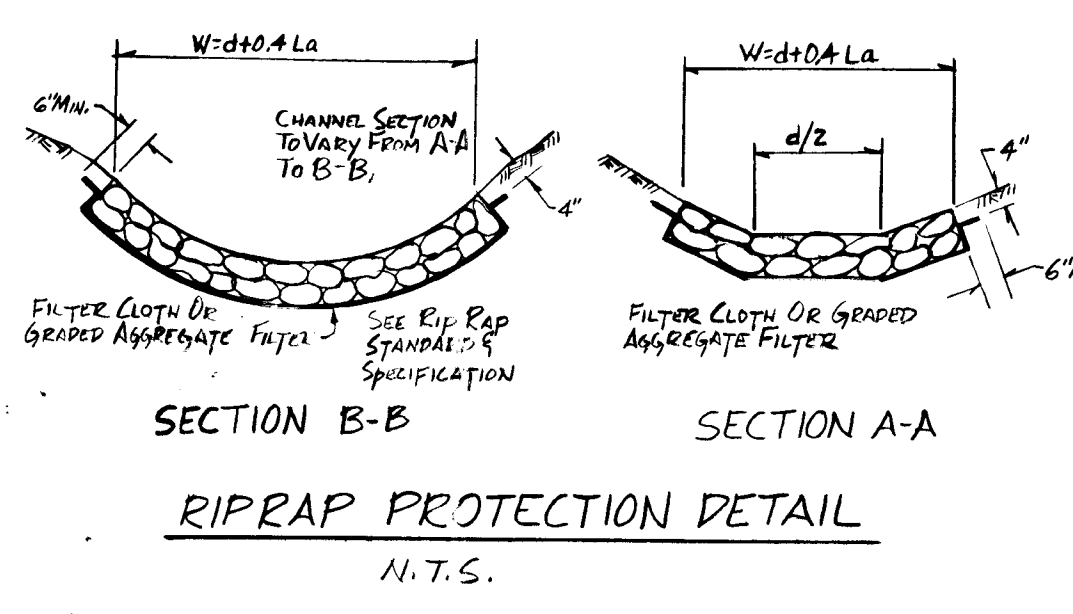
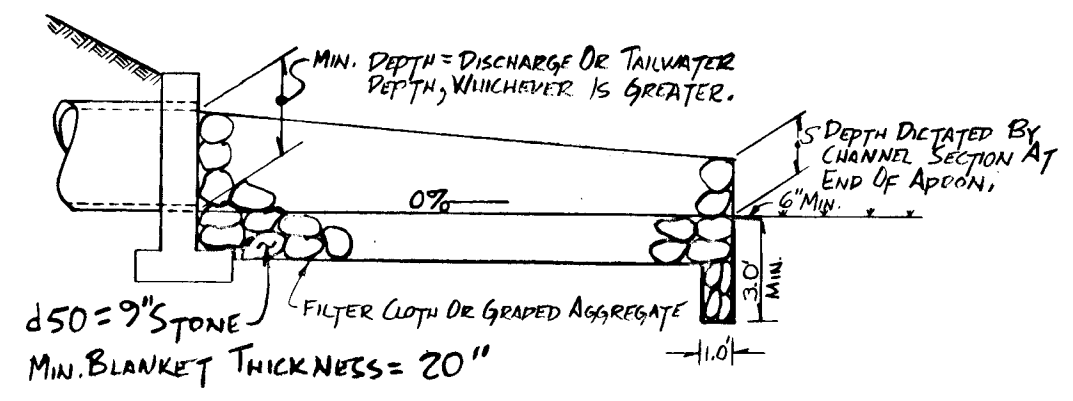
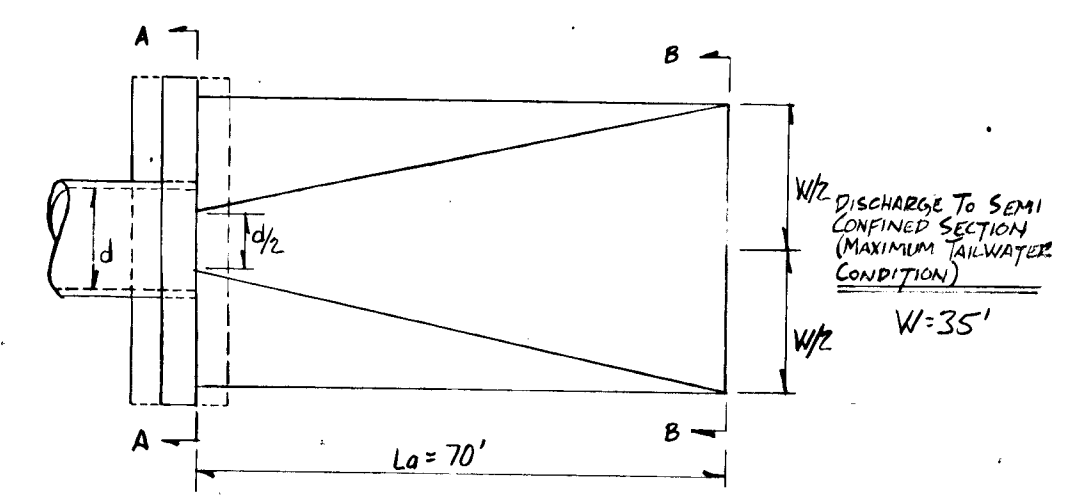
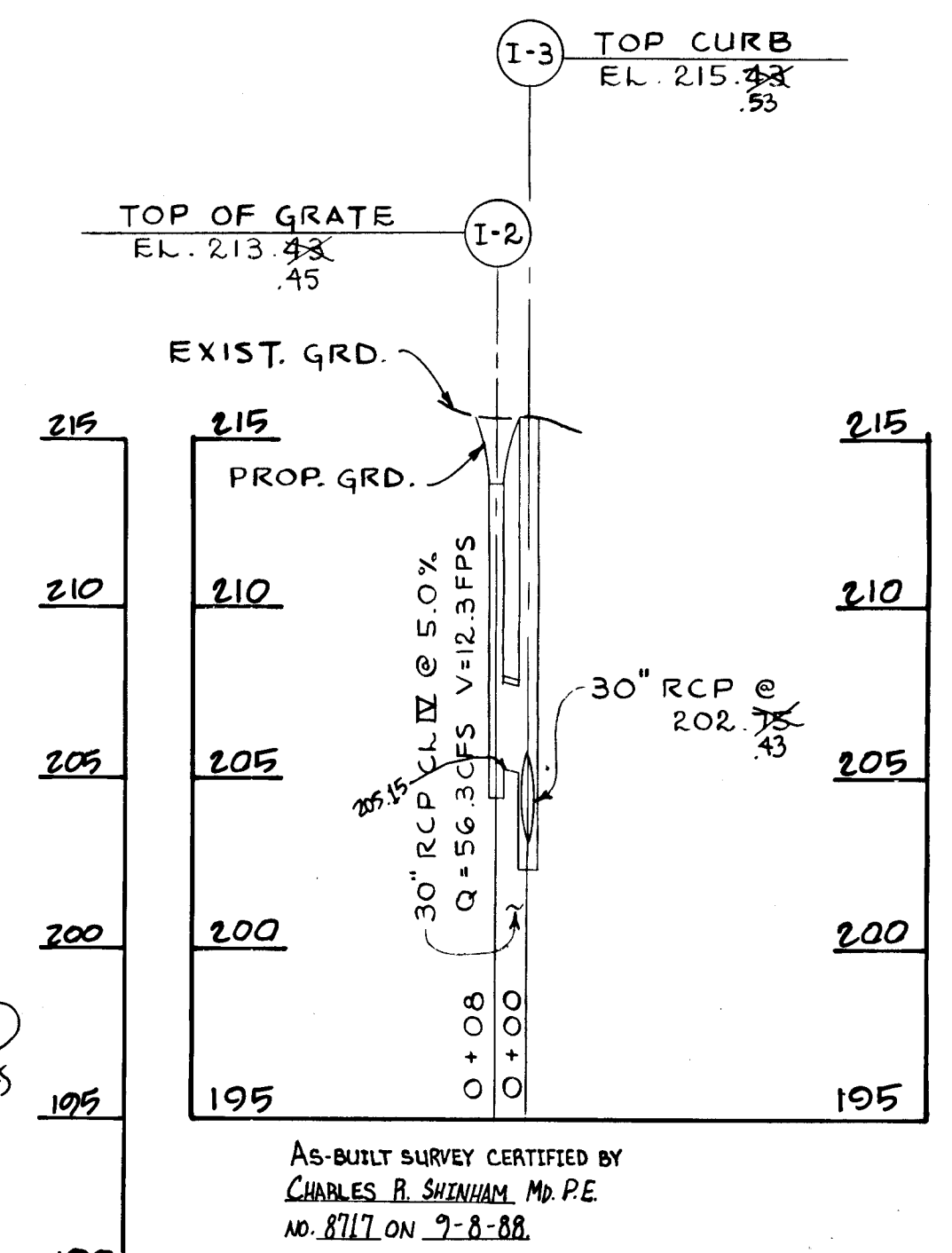
NOTE: FOR PLUMBER, DETAILS & STRUCTURE SCHEDULE  
SEE SHEET 5 OF 8.

DEPARTMENT OF PUBLIC WORKS		
Chief, Bureau Of Engineering	<i>[Signature]</i>	9-28-86 Date
DEPARTMENT OF PLANNING AND ZONING		
ACTING Chief, Div. Of Land Development And Zoning Adm.	<i>[Signature]</i>	8-27-86 Date
Date	No	Revision Description
OWNER AND DEVELOPER JOSEPH J. HOCK, INC. 5501 BELLE GROVE RD. ANNE ARUNDEL CO., MD. 21225 301-789-4400		
AREA	BALTIMORE WASHINGTON INDUSTRIAL PARK-SEC. 2 PARCELS A, B, C, D BE TAX MAP 48 6TH ELECTION DISTRICT HOWARD CO., MD.	
TITLE	STORM DRAIN PLAN-PRESTON COURT	
<b>THE ARUNDEL CORPORATION</b> ARUNDEL CORPORATE CENTER, SUITE 100 110 WEST RD. TOWSON, MD. 21204 (301) 296-6400 LAND PLANNERS, I. AND SURVEYORS, CIVIL ENGINEERS		
SCALE: 1"=50'	DESIGNED: P.H.	SHEET 4 OF 10
DATE: 5-12-86	DRAWN: P.H.	
	CHECKED: C.R.S.	
	APPROVED: P.P.S.	

F-86-210



**STORM DRAIN PROFILE**  
Scale: 1"=50' hor.  
1"=5' vert.



DEPARTMENT OF PUBLIC WORKS		
Chief, Bureau Of Engineering	<i>[Signature]</i>	9-2-86 Date
DEPARTMENT OF PLANNING AND ZONING		
Chief, Div. Of Land Development And Zoning Adm.	<i>[Signature]</i>	8-27-86 Date

Date	No.	Revision Description

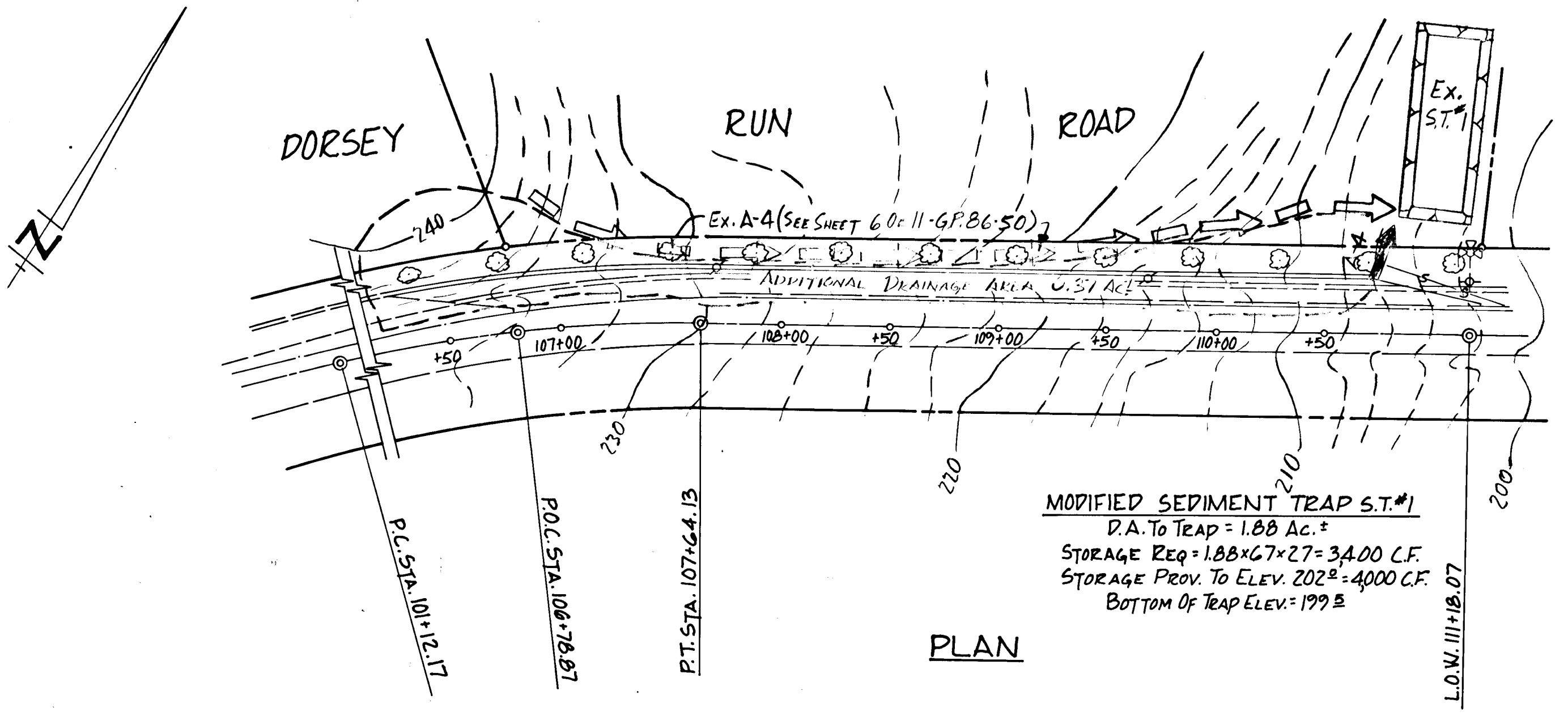
OWNER AND DEVELOPER  
JOSEPH J. HOCK, INC.  
5501 BELLE GROVE RD.  
ANNE ARUNDEL CO., MD. 21225  
301-789-4400

AREA  
BALTIMORE WASHINGTON INDUSTRIAL PARK-SEC. 2  
PARCELS: A, B, C, D & E  
6TH ELECTION DISTRICT

TITLE  
**STORM DRAIN PROFILES & DETAILS**

**THE ARUNDEL CORPORATION**  
ARUNDEL CORPORATE CENTER, SUITE 100  
110 WEST RD. TOWSON, MD. 21204  
(301) 226-6400  
LAND PLANNERS, LAND SURVEYORS, CIVIL ENGINEERS

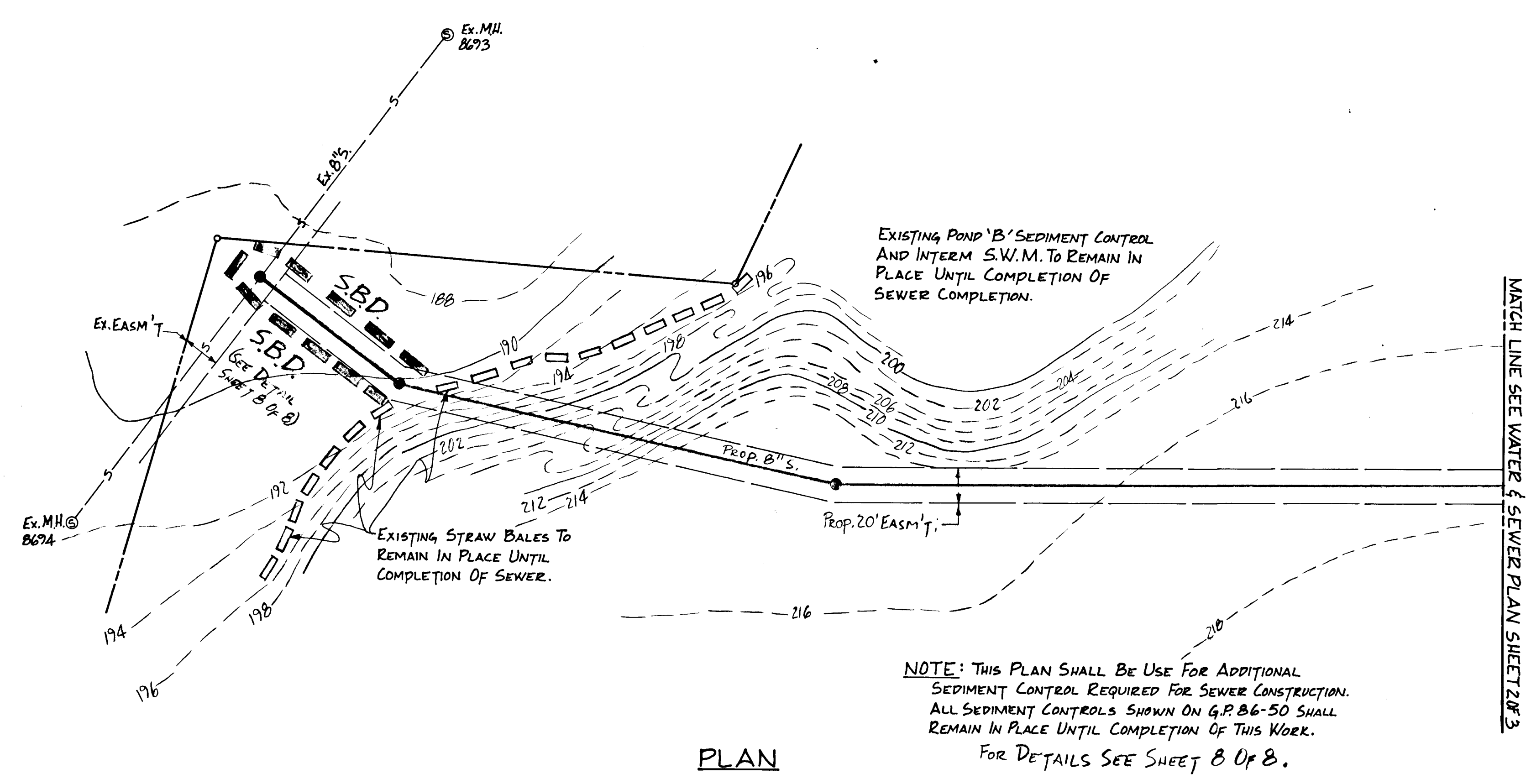
SCALE: AS SHOWN  
DATE: 5-28-86  
DESIGNED: RLV  
DRAWN: RLV  
CHECKED: CES  
APPROVED: DPS



**EXISTING SED. TRAP S.T.#1**  
 G.P. B6-50  
 P.A. To Trap = 1.51 Ac. ±  
 STORAGE REQ. = 2732 C.F.  
 STORAGE PROV. = 3200 C.F.  
 BOTTOM ELEV. = 200 ±  
 BOTTOM DIM. = 80' x 20'

**NOTE:** THIS PLAN SHALL BE USED FOR ADDITIONAL SEDIMENT CONTROL REQUIRED FOR THE CONSTRUCTION OF DORSEY RUN ROAD. ALL SEDIMENT CONTROLS SHOWN ON G.P. B6-50 SHALL REMAIN IN PLACE UNTIL COMPLETION OF THIS WORK.  
 FOR DETAILS SEE SHEET 8 OF 8.

**PLAN**



**NOTE:** THIS PLAN SHALL BE USE FOR ADDITIONAL SEDIMENT CONTROL REQUIRED FOR SEWER CONSTRUCTION. ALL SEDIMENT CONTROLS SHOWN ON G.P. B6-50 SHALL REMAIN IN PLACE UNTIL COMPLETION OF THIS WORK.  
 FOR DETAILS SEE SHEET 8 OF 8.

**PLAN**

DEPARTMENT OF PLANNING AND ZONING:  
*Arundel* *9-27-86*  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
 Date

DEPARTMENT OF PUBLIC WORKS  
*Melville L. H.* *9-2-86*  
 CHIEF, BUREAU OF ENGINEERING  
 Date

CERTIFICATION BY THE DEVELOPER:  
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR OTHER AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.  
*David P. Schelmacher* *5/29/86*  
 Signature of Developer / Date

CERTIFICATION BY THE ENGINEER:  
 "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."  
*C. Robert Johnson*  
 Signature of Engineer / Date

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.  
*J. Helmer* *8/26/86*  
 U.S. Soil Conservation Service / Date

THESE PLANS FOR EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
**APPROVED:**  
*Stephen L. Huber* *8-26-86*  
 Howard Soil Conservation District / Date

Date	No.	Revision Description

OWNER AND DEVELOPER  
 JOSEPH J. HOCK, INC.  
 5501 BELLE GROVE RD.  
 ANNE ARUNDEL CO., MD. 21225  
 301-789-4400

AREA  
 BALTIMORE WASHINGTON INDUSTRIAL PARK-SEC. 2  
 TAX MAP 48  
 6TH ELECTION DISTRICT  
 HOWARD CO., MD.

TITLE  
**SEDIMENT CONTROL FOR DORSEY RUN ROAD RECONSTRUCTED AND SEWER CONSTRUCTION**

**THE ARUNDEL CORPORATION**  
 ARUNDEL CORPORATE CENTER, SUITE 100  
 110 WEST RD. TOWSON, MD. 21204  
 (301) 296-6400  
 LAND PLANNERS, LAND SURVEYORS, CIVIL ENGINEERS

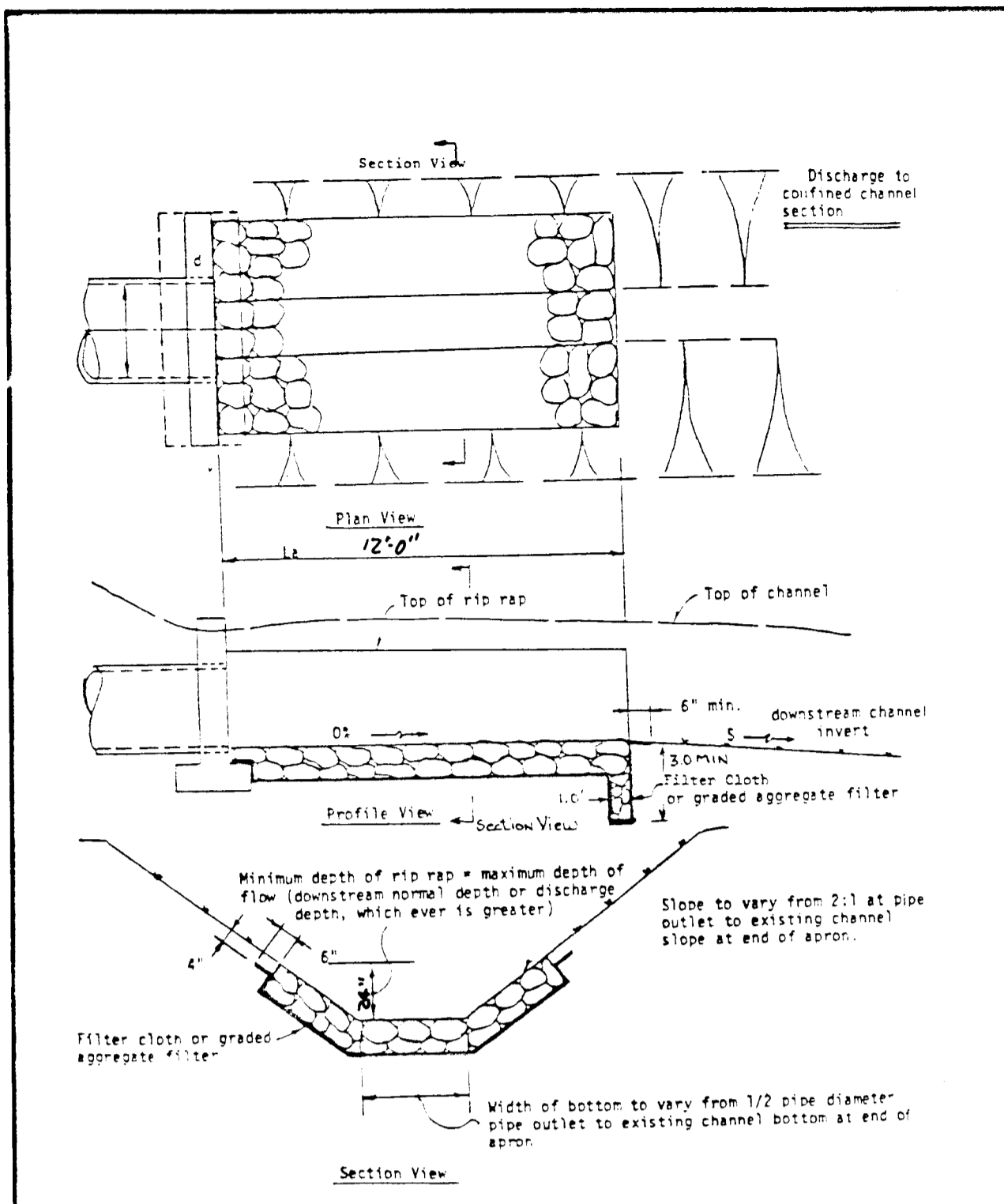
SCALE 1" = 50'  
 DATE 5-28-86  
 DESIGNED C.R.S.  
 DRAWN M.T.Y.  
 CHECKED C.R.S.  
 APPROVED P.F.S.

SHEET 6 OF 10

*C. Robert Johnson*  
 PROFESSIONAL ENGINEER

F-86-210

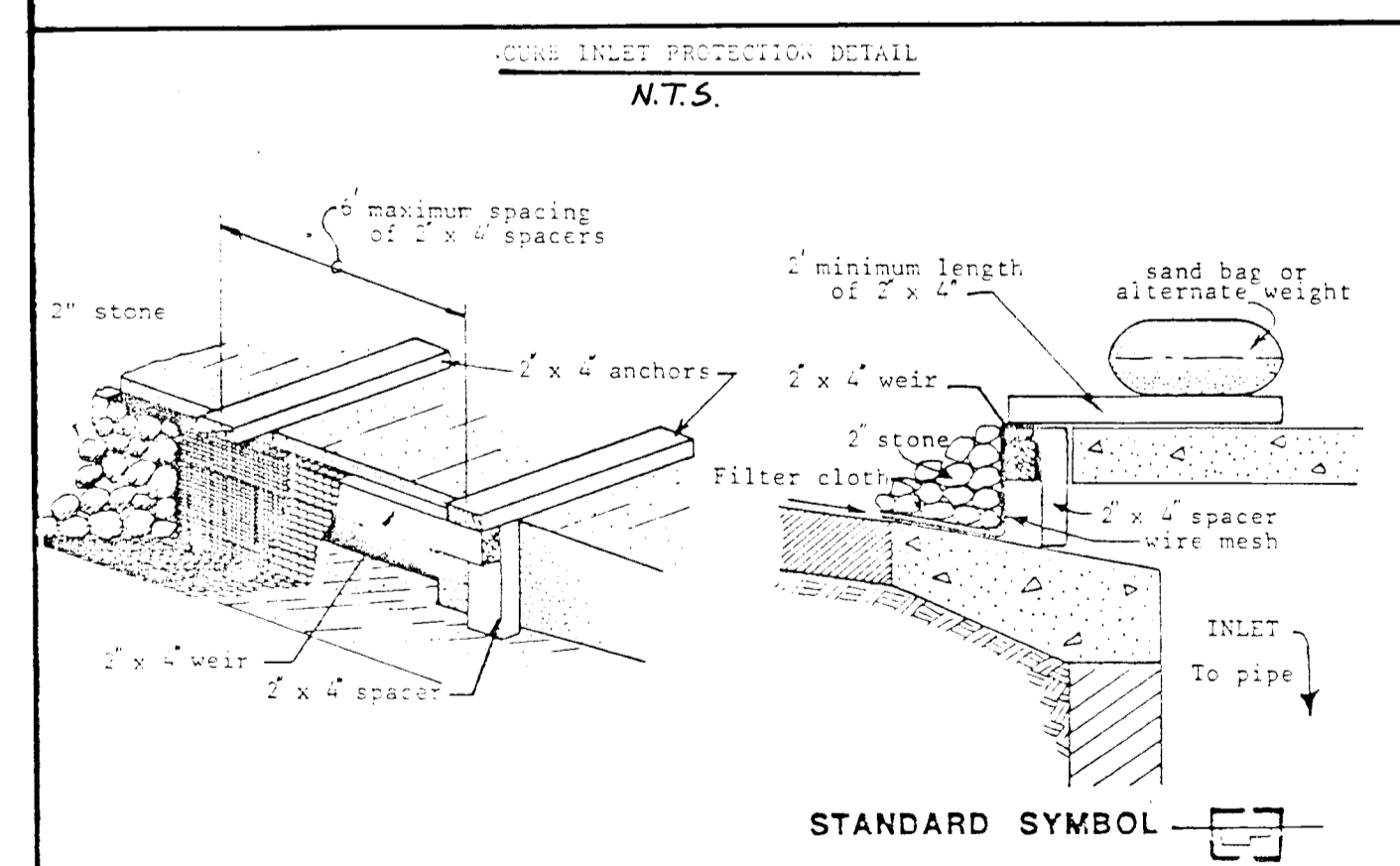
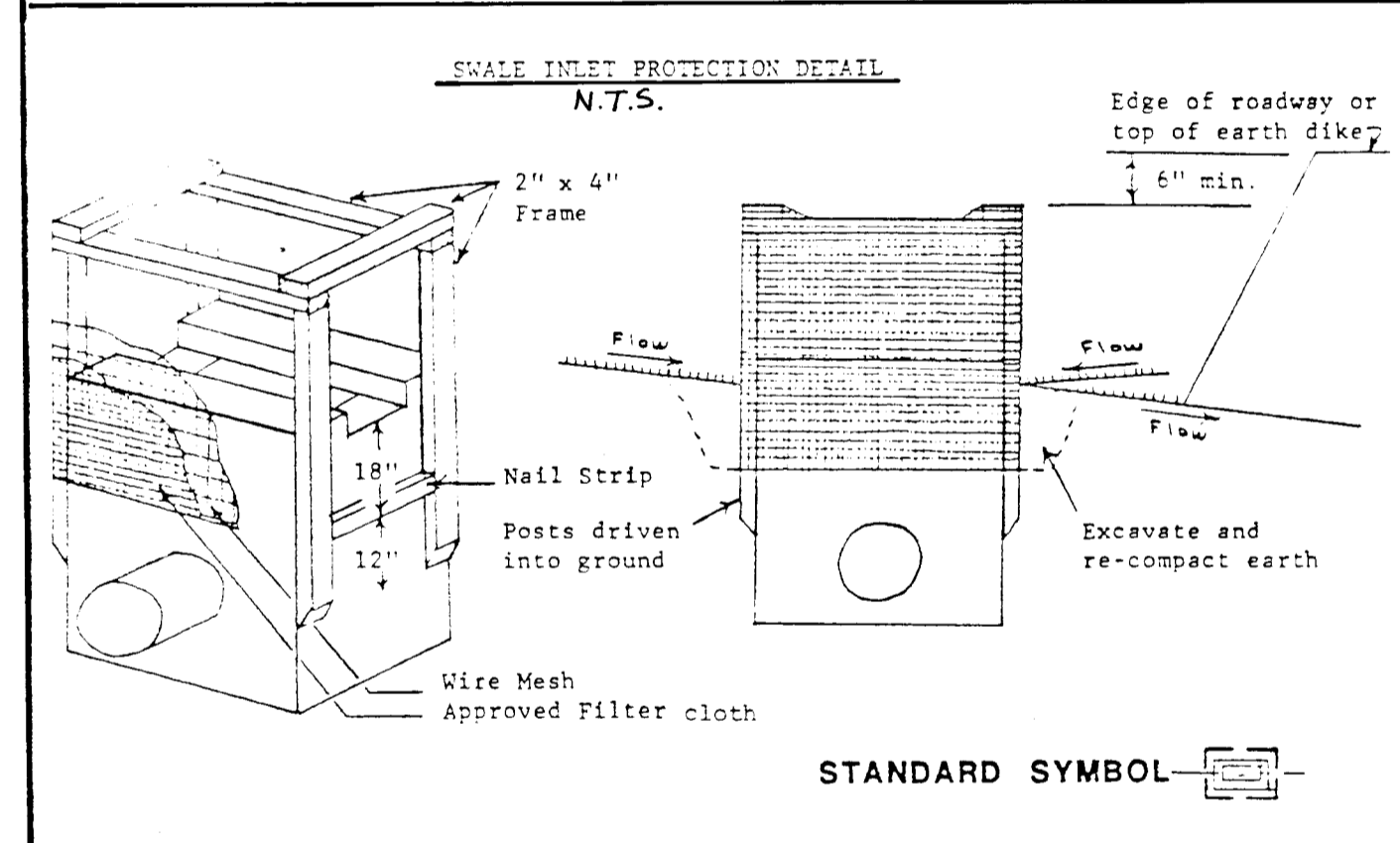




**Stone Quality.** Stone for riprap shall consist of field stone or rough unweathered quarry stone. The stone shall be hard and angular and of a quality that will not disintegrate on exposure to water or weathering. The specific gravity of the individual stones shall be at least 2.5.

Recycled concrete equivalent may be used provided it has a density of at least 150 pounds per cubic foot, and does not have any exposed steel or reinforcing bars.

**DETAIL - RIP-RAP APRON @ S-1**  
N.T.S.



**INLET PROTECTION DETAILS**  
N.T.S.

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.

2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.

3. All cut and fill slopes shall be 2:1 or flatter.

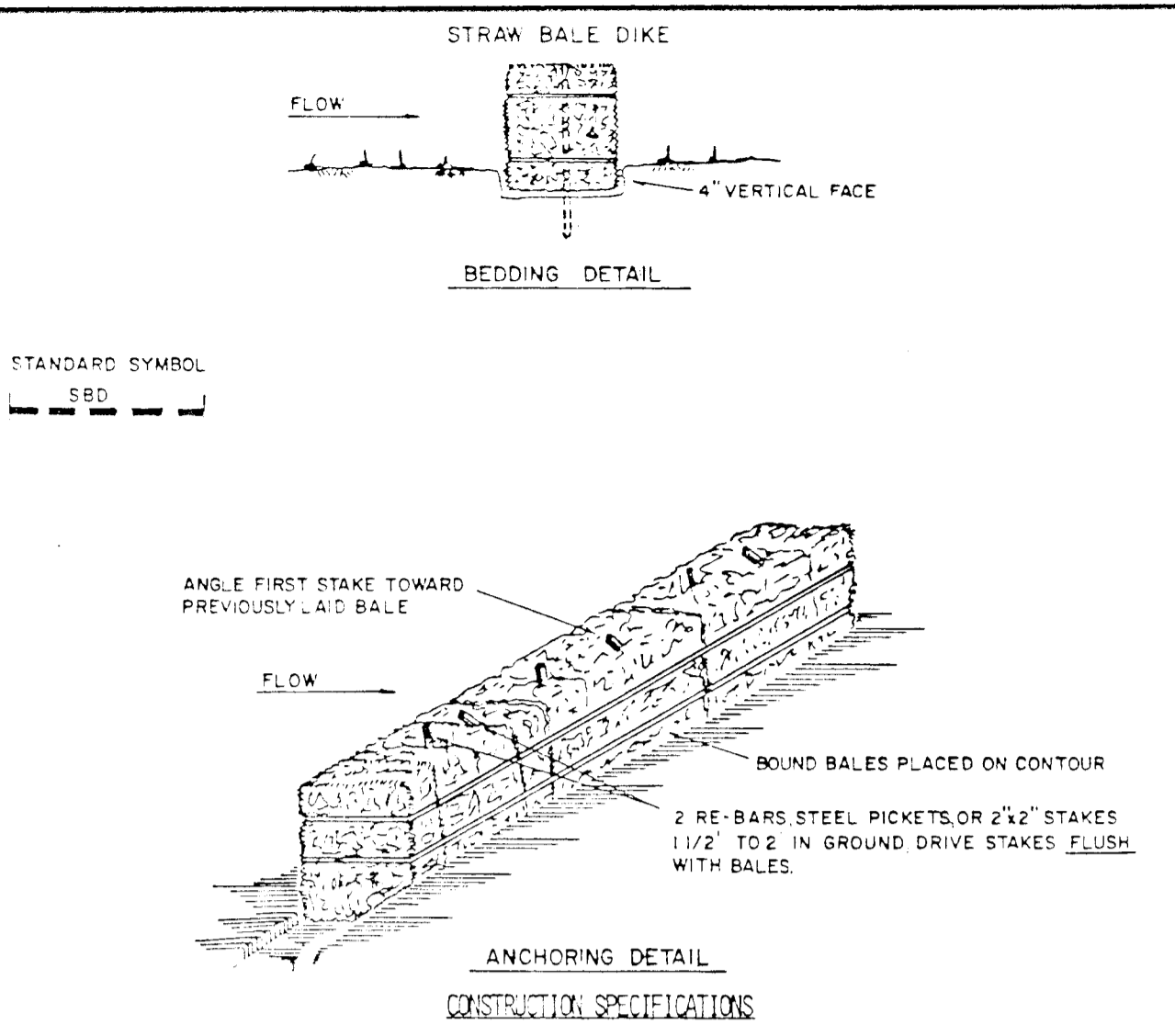
4. The stone used in the outlet shall be small riprap 4"-8" along with a 1" thickness of 2" aggregate placed on the up-grade side on the small riprap on embedded filter cloth in the riprap.

5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to the design depth of the trap.

6. The structure shall be inspected after each rain and repairs made as needed.

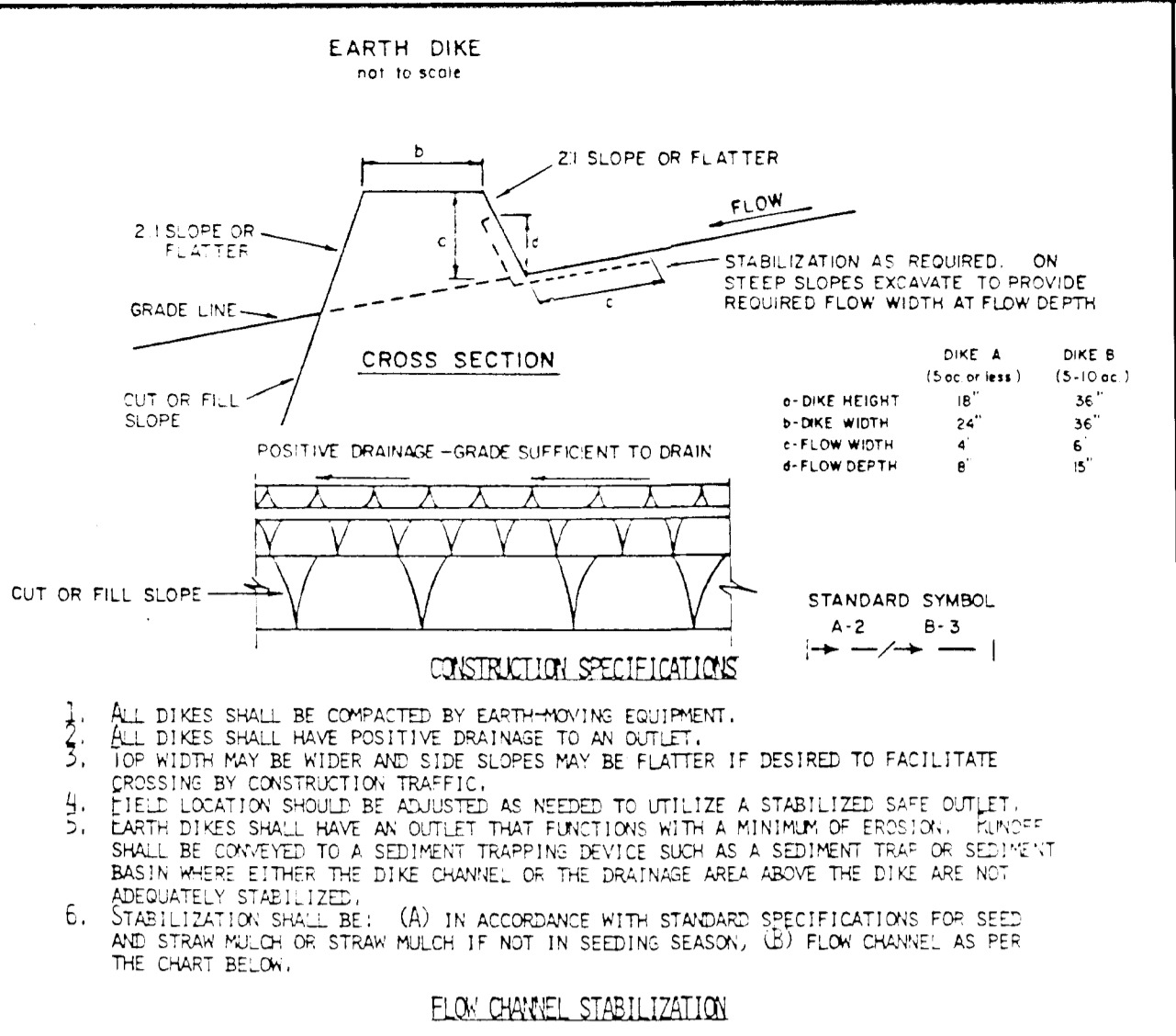
7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.

8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.



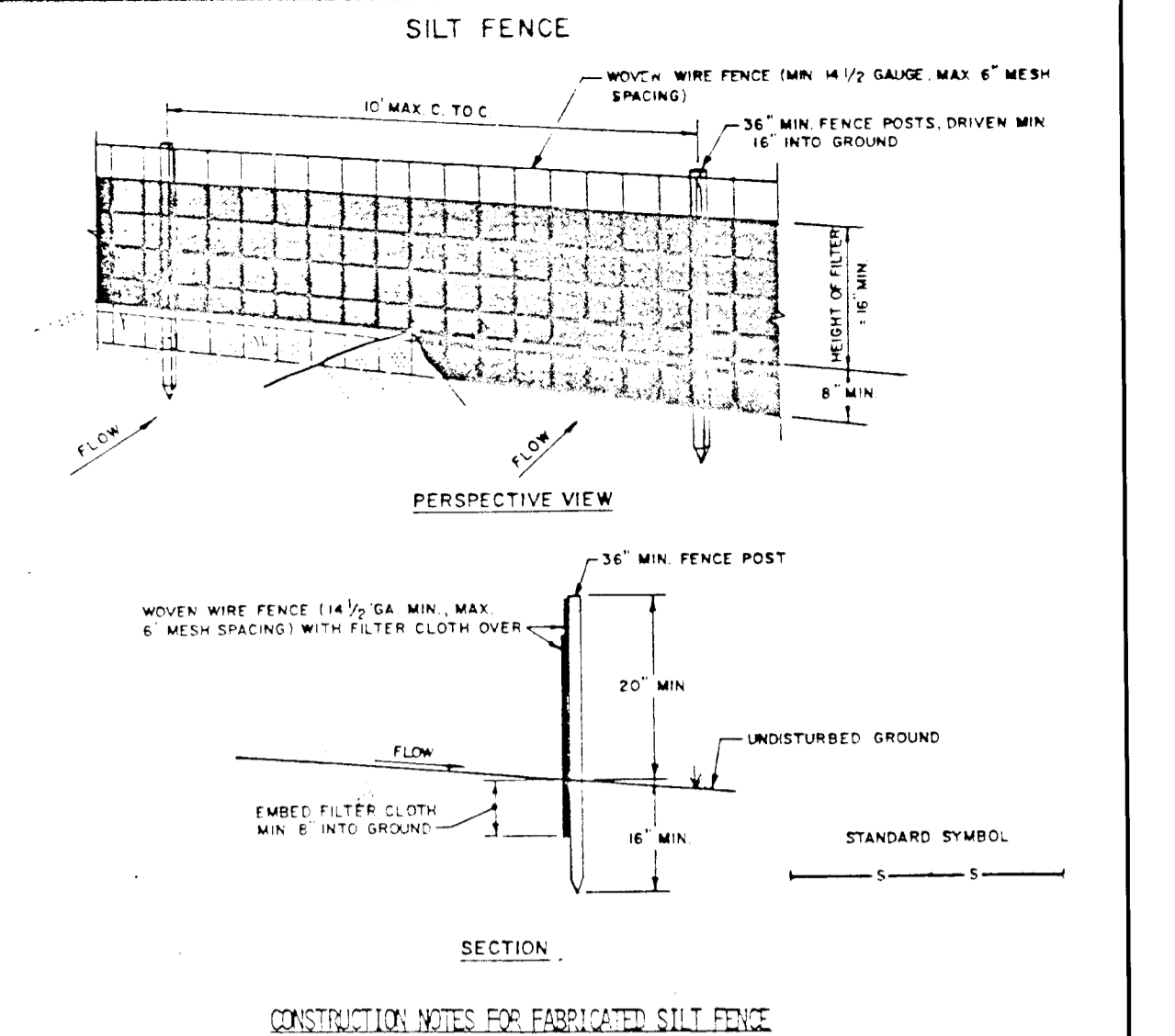
- BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ADJUTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
- INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDS STORM FLOW OF DRAINAGE.

**STRAW BALE DIKE**  
N.T.S.



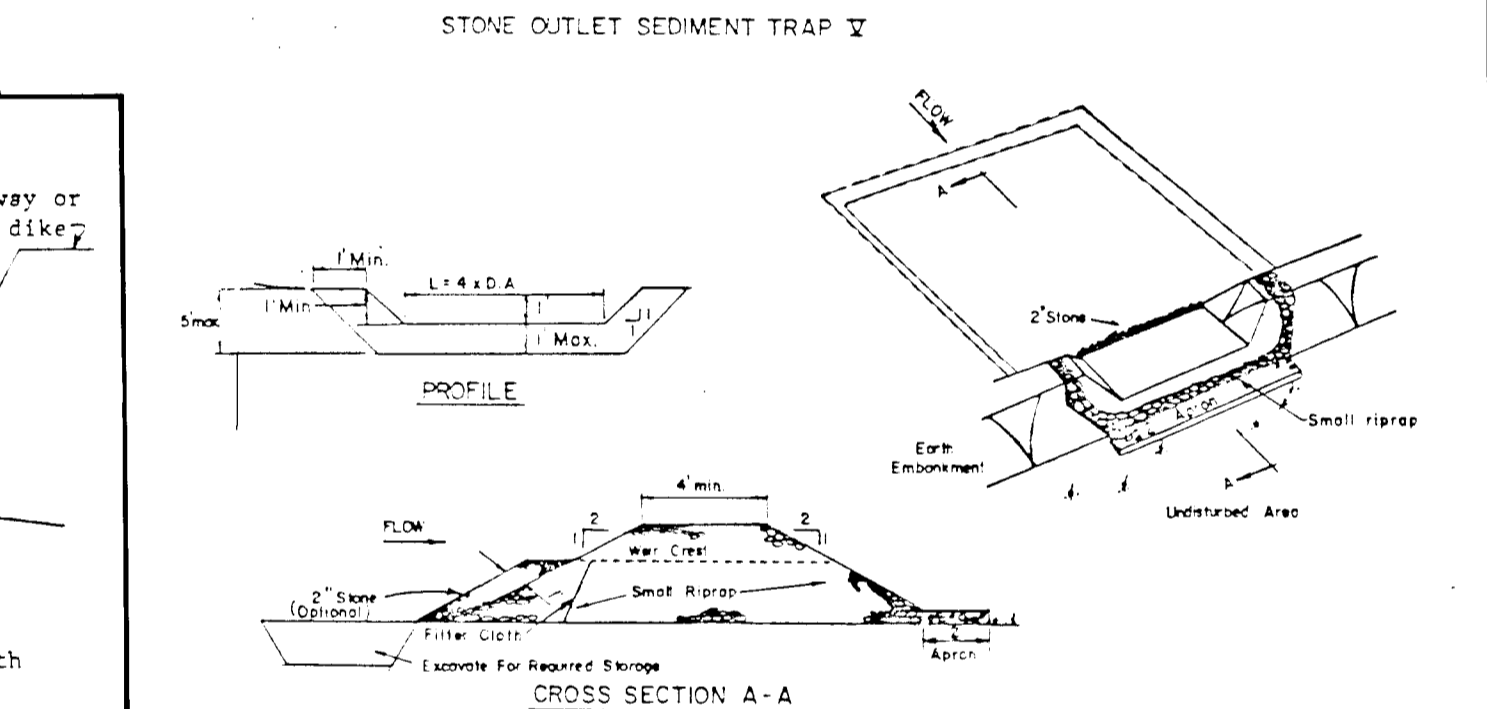
- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
  - ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
  - TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
  - EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF PERIODIC MAINTENANCE. THE OUTLET SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT POSITIVELY STABILIZED.
  - STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON; (B) FLOW CHANNEL AS PER THE CHART BELOW.
- | TYPE OF TREATMENT | CHANNEL GRADE | DIKE A                           | DIKE B                                     |
|-------------------|---------------|----------------------------------|--|
| 1                 | 5-3.0%        | SEED AND STRAW MULCH             | SEED AND STRAW MULCH                       |
| 2                 | 3.1-5.0%      | SEED AND STRAW MULCH             | SEED USING JUTE OR EXCELSTON 500; 2" STONE |
| 3                 | 5.1-8.0%      | SEED WITH JUTE, OR SOG; 2" STONE | LINED RIP-RAP 4-8"                         |
| 4                 | 8.1-20%       | LINED RIP-RAP 4-8"               | ENGINEERING DESIGN                         |
- A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.  
B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 6 INCHES THICKNESS AND PRESSED INTO THE SOIL.  
C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.  
D. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

**EARTH DIKE**  
N.T.S.



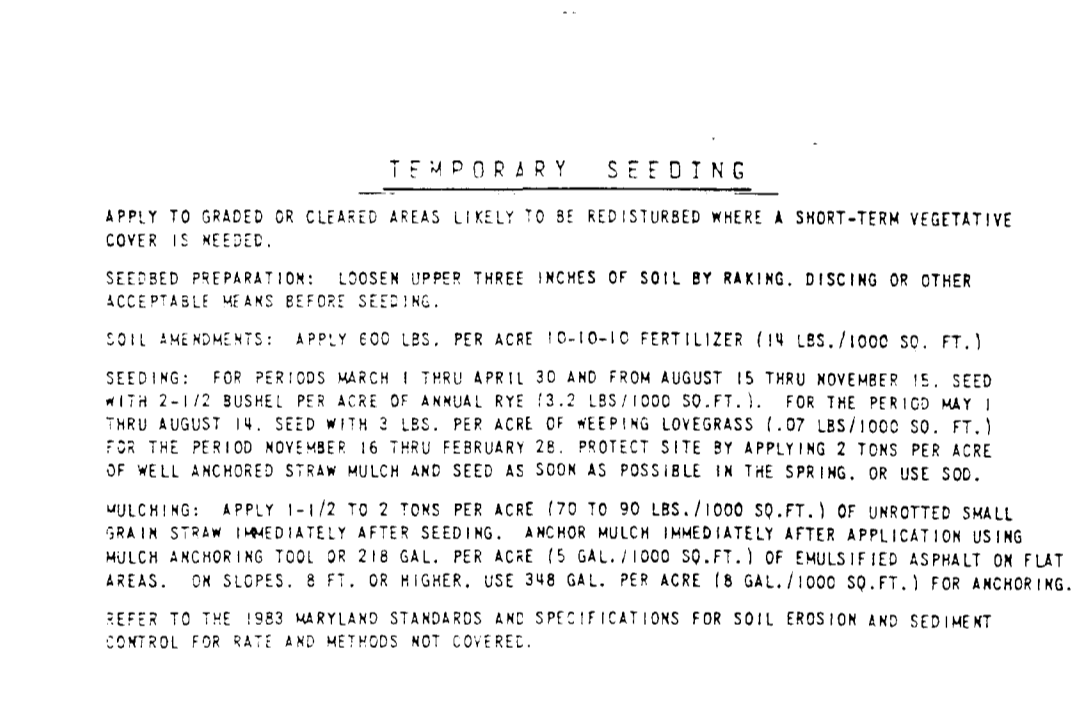
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
  - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES OR STAPLES EVERY 24" AT TOP AND MID SECTION.
  - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
  - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "MUDS" DEVELOP IN THE SILT FENCE.
- POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD  
FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING  
FILTER CLOTH: FILTER X, 100# 100% STABIL-LINK 114"X OR APPROVED EQUAL  
PREFABRICATED UNIT: GEOPAB, EXHIBIT 20, OR APPROVED EQUAL

**SILT FENCE**  
N.T.S.



- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
- All cut and fill slopes shall be 2:1 or flatter.
- The stone used in the outlet shall be small riprap 4"-8" along with a 1" thickness of 2" aggregate placed on the up-grade side on the small riprap on embedded filter cloth in the riprap.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to the design depth of the trap.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

**STONE OUTLET SEDIMENT TRAP**  
N.T.S.



- Obtain grading permit.
- Notify the DPW Sediment Control Inspector for Howard County 48 hours prior to the start of any construction.
- Refer to approved GP-86-50 for sediment control devices that are to be maintained during construction of this contract.
- For proposed improvements along Dorsey Run Road.
  - Install earth dike and silt fence as indicated on the plans.
  - Prior to beginning grading operations on Dorsey Run Road the earth dike and temporary sediment basin No. 1 indicated to be installed under Contract GP-86-50 shall be in place.
  - Perform grading operations and stabilize all disturbed areas not to be paved.
  - Construct curb and gutter and paving.
- For proposed improvements along Preston Court.
  - Prior to beginning work on Preston Court, perimeter controls, basins and silt fences indicated to be installed under Contract GP-86-50 shall be in place.
  - Install proposed storm drainage. Protect proposed inlets and pipes from receiving stormwater until Preston Court right-of-way is stabilized.
  - Final grade. Construct curb and gutter and pave road.
- For construction of proposed sewer and water:
  - Prior to beginning work, as indicated on sewer and water plans, perimeter controls and sediment control pond "B" installed under Contract GP-86-50 shall be in place.
  - Install straw bale dike as shown on the plans.
  - Construct sewer and water.
  - Stabilize all disturbed areas.

**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 (1993-24937).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1985 MARKING STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 72 HOURS UNLESS OTHERWISE SPECIFIED IN THIS PLAN. PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN 72 HOURS UNLESS OTHERWISE SPECIFIED IN THIS PLAN. PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN 72 HOURS UNLESS OTHERWISE SPECIFIED IN THIS PLAN. PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN 72 HOURS UNLESS OTHERWISE SPECIFIED IN THIS PLAN.
- ALL SEDIMENT TRAP BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 10, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1985 MARKING STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN 72 HOURS UNLESS OTHERWISE SPECIFIED IN THIS PLAN. PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN 72 HOURS UNLESS OTHERWISE SPECIFIED IN THIS PLAN. PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN 72 HOURS UNLESS OTHERWISE SPECIFIED IN THIS PLAN.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- DATE ANALYSIS:
 

TOTAL AREA OF SITE	52.04	ACRES
AREA DISTURBED	5.64	ACRES
AREA TO BE PAVED OR PAVED	2.64	ACRES
AREA TO BE VEGETATIVELY STABILIZED	2.77	ACRES
TOTAL FILL	100	CU.YDS.
TOTAL FILL	100	CU.YDS.

DEPARTMENT OF PLANNING AND ZONING:

*Annex* **Chief, Division of Land Development and Zoning Administration** Date **8-27-86**

DEPARTMENT OF PUBLIC WORKS:

**Chief, Bureau of Engineering** Date **9-2-86**

**Robert P. Sisk** Date **5/29/86**  
Signature of Developer

**C. Robert Shinkum** Date \_\_\_\_\_  
Signature of Engineer

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

**U.S. Soil Conservation Service** Date **8/26/86**

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

**Stephen L. Shinkum** Date **8-26-86**  
Howard Soil Conservation District

Date	No.	Revision Description

AREA: BALTIMORE WASHINGTON INDUSTRIAL PARK SEC 2 TAX MAP 48  
6TH ELECTION DISTRICT HOWARD CO., MD.

TITLE: **STORM DRAIN DETAILS AND NOTES**

OWNER AND DEVELOPER: JOSEPH J. HOOK, INC.  
5501 BELLE GROVE RD  
ANNE ARUNDEL CO., MD 21225  
301-789-4400

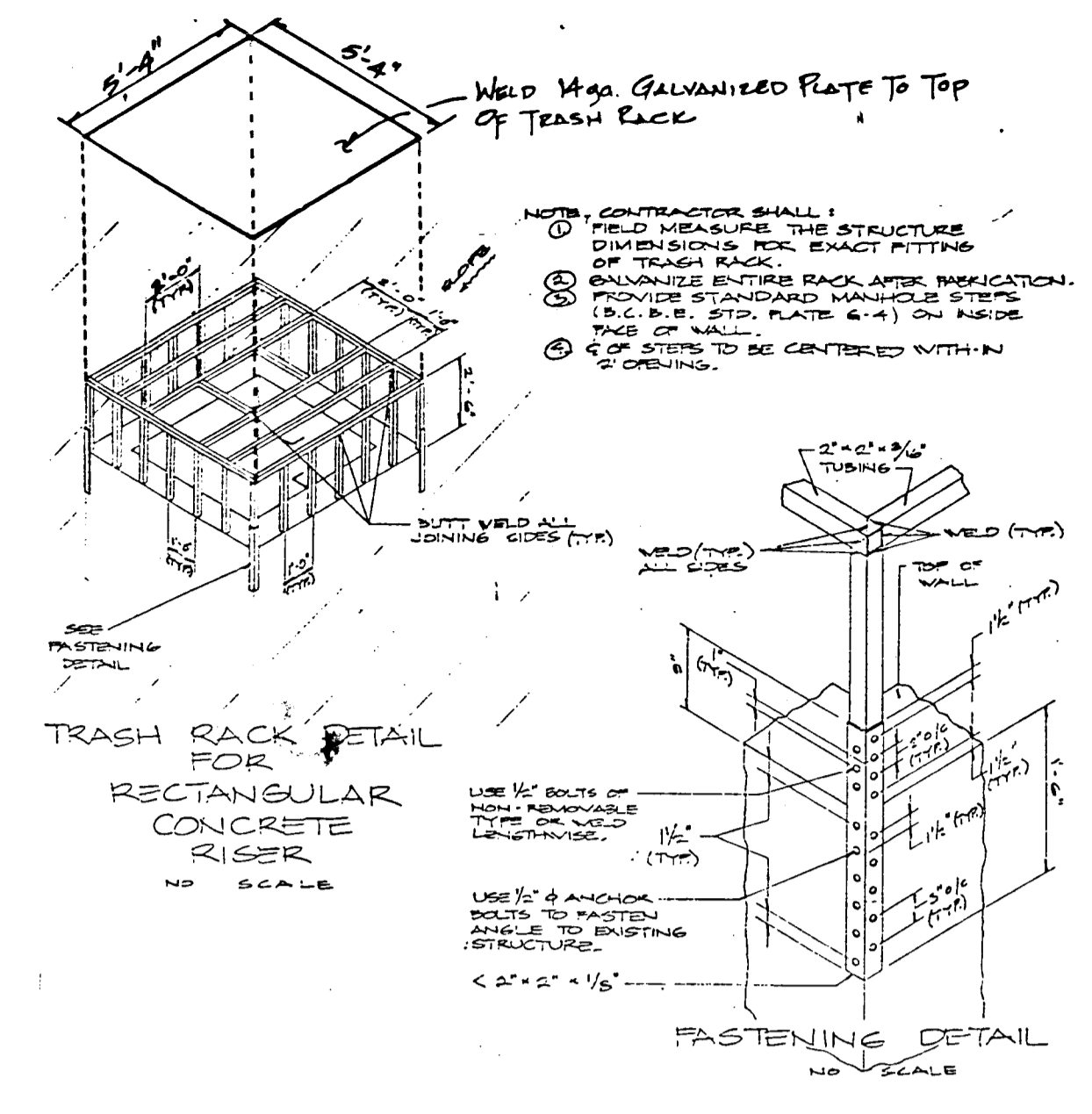
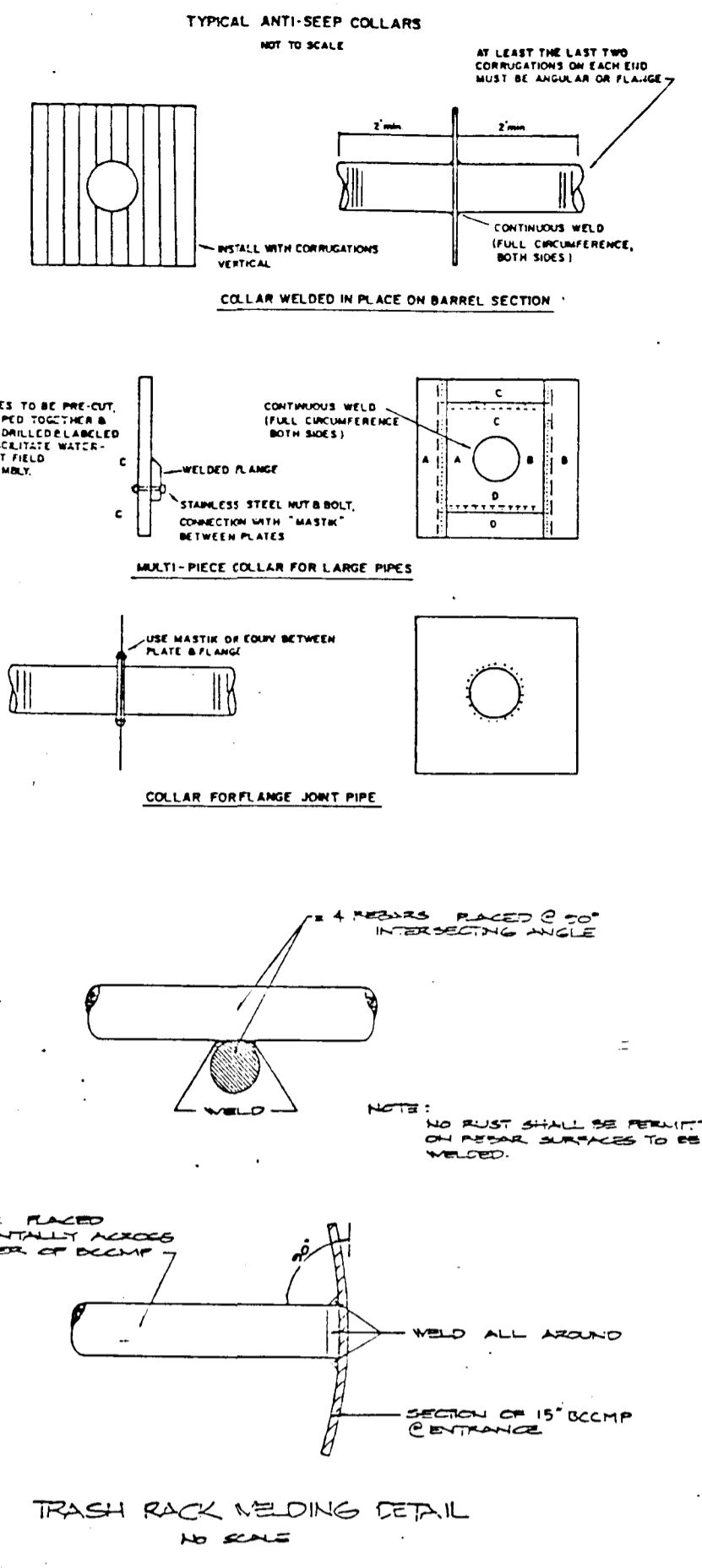
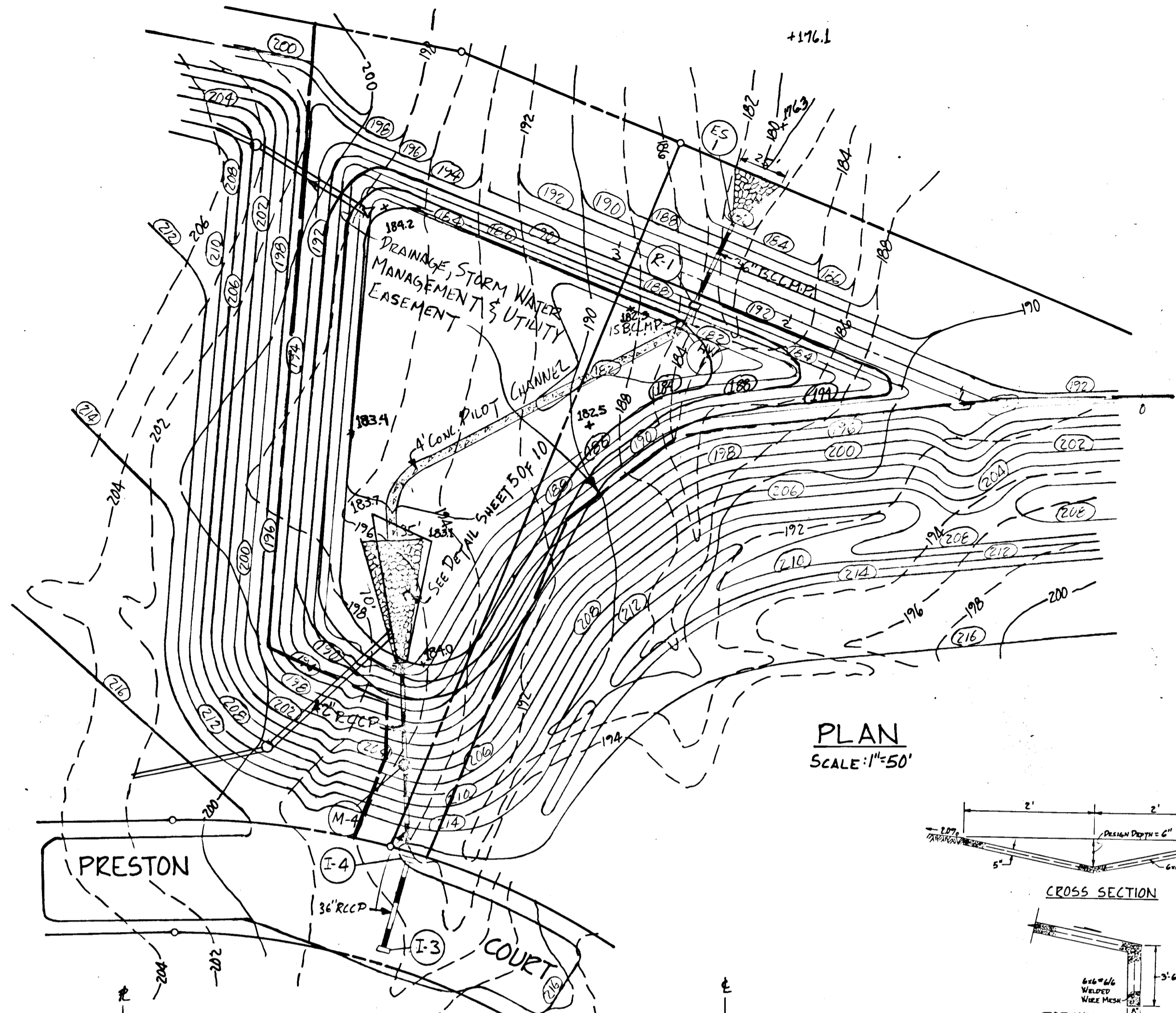
**THE ARUNDEL CORPORATION**  
ARUNDEL CORPORATE CENTER, SUITE 100  
110 WEST RD. TOWSON, MD 21284  
(301) 296-6400  
LAND PLANNERS, LAND SURVEYORS, CIVIL ENGINEERS

DATE: **5-29-86** DRAWN: **M.T.Y.** DESIGNED: **C.R.S.**  
CHECKED: **C.R.S.** APPR: **P.F.S.** SHEET **B** OF **10**

**C. Robert Shinkum**

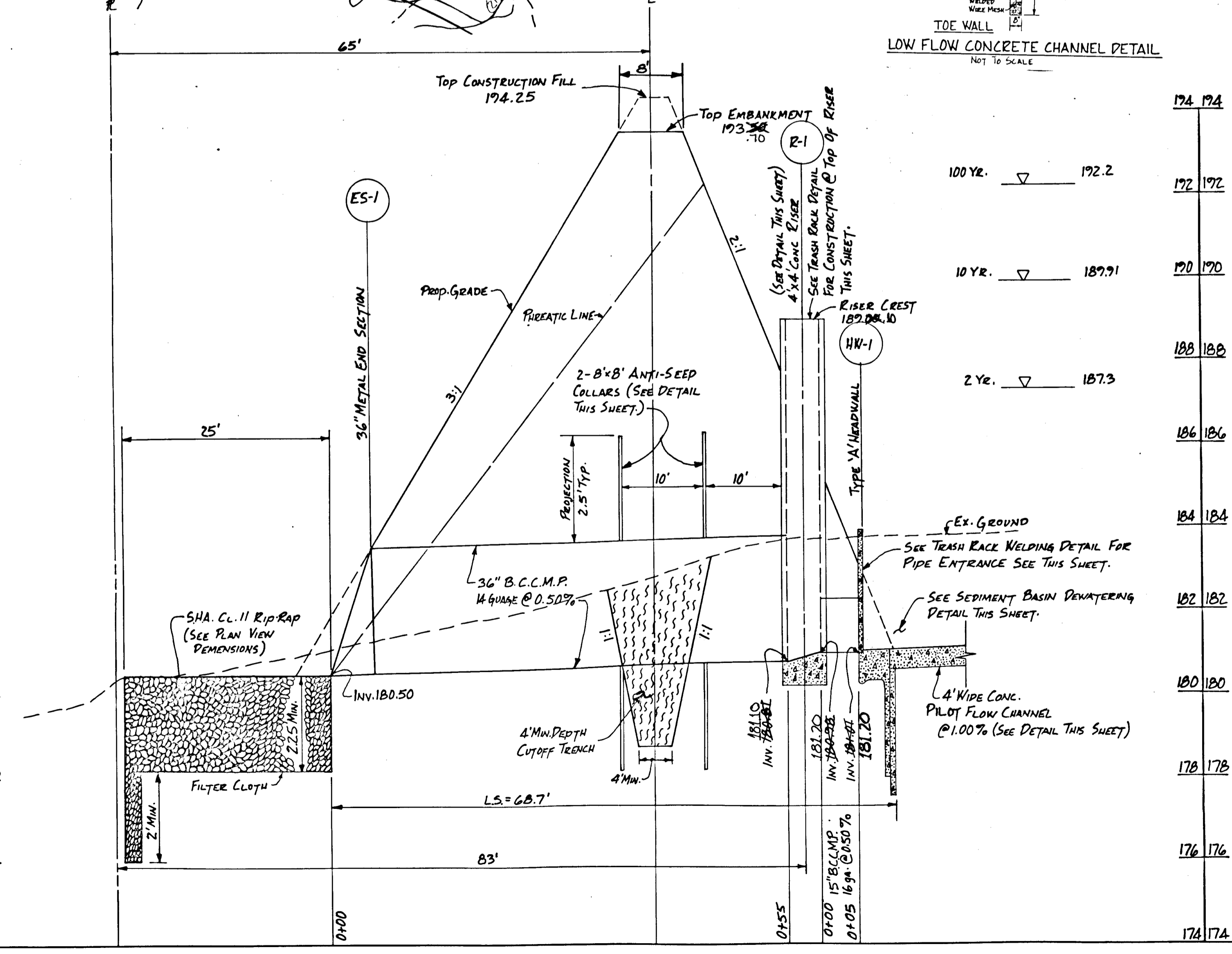
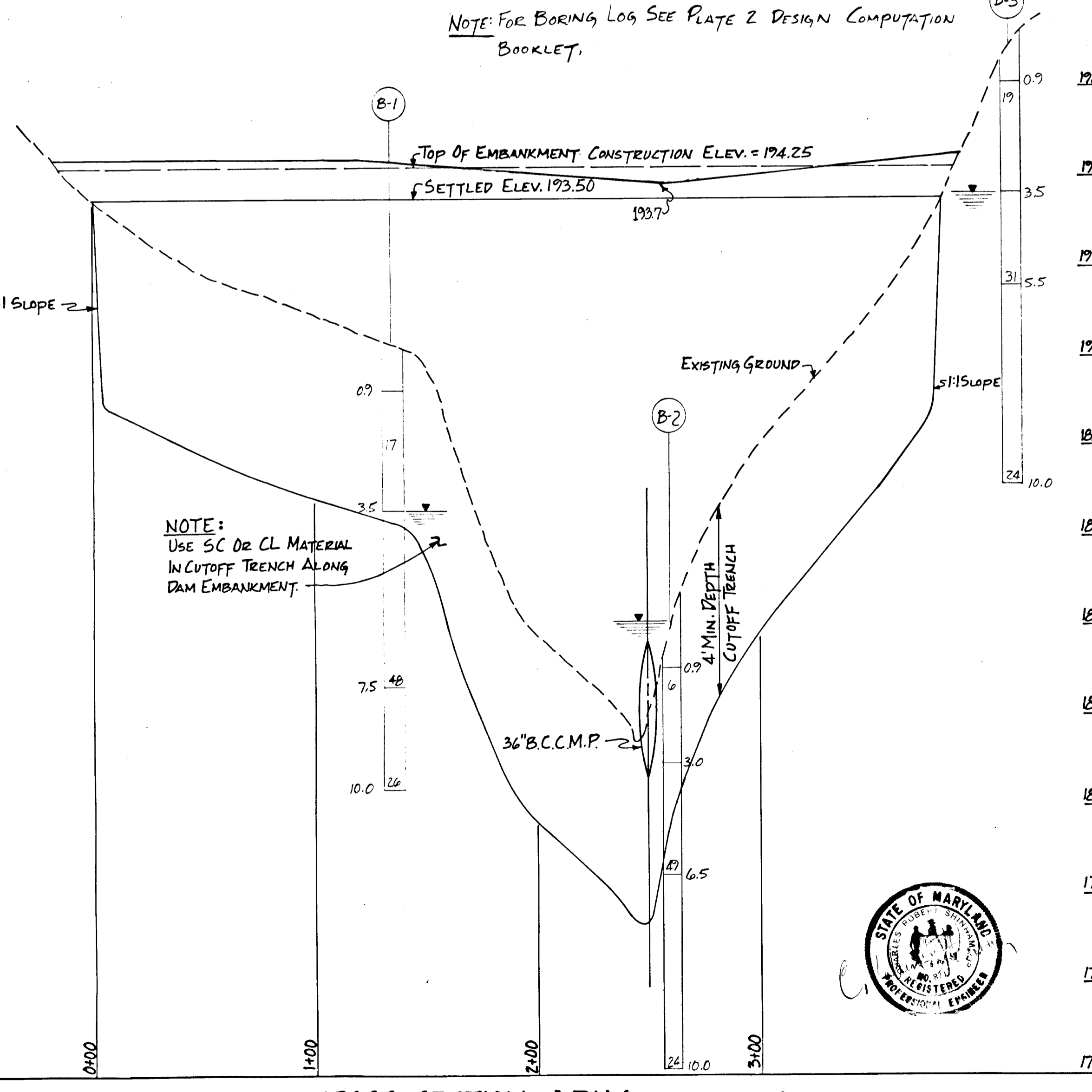
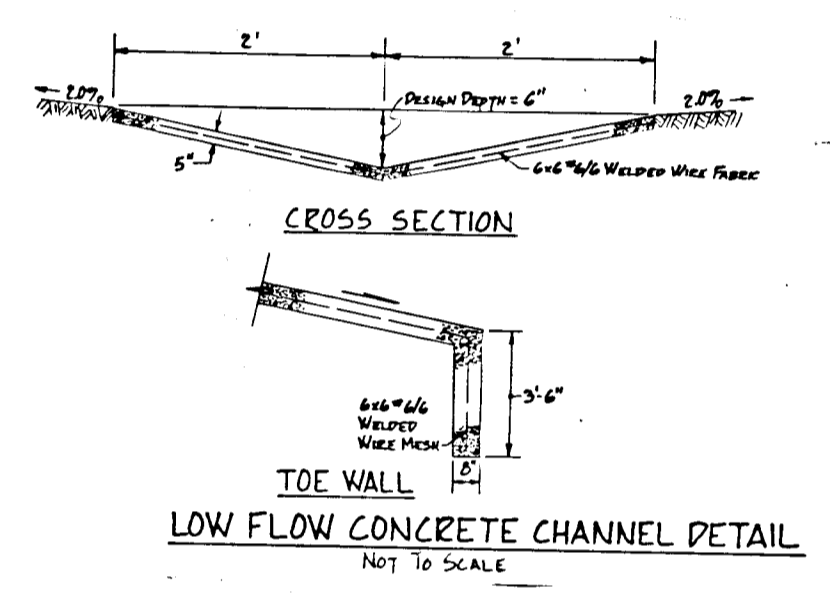
**STATE OF MARYLAND**  
REGISTERED PROFESSIONAL ENGINEER





STAGE STORAGE DATA

ELEV.	AS DESIGNED AREA (S.F.)	VOL. (AC.FT.)	AS-BUILT AREA (S.F.)	VOL. (AC.FT.)
181	0	0	0	0
184	25,600	0.752	29,025	1.00
188	36,300	3.569	37,912	3.84
192	48,025	7.444	47,875	7.71



DEPARTMENT OF PLANNING AND ZONING  
**AS-1116** *Jonis F. Ann* **9-27-86**  
 Chief, Div. Of Land Development And Zoning Adm. Date

DEPARTMENT OF PUBLIC WORKS  
*W. H. H.* **9-2-86**  
 Chief, Bureau Of Engineering Date

CERTIFICATION BY THE DEVELOPER:  
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR OTHER AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.  
*David P. Schaefer* **7/12/86**  
 Signature of Developer Date

CERTIFICATION BY THE ENGINEER:  
 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.  
*C. W. J. J.* **7/7/86**  
 Signature of Engineer Date

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.  
*J. H. H.* **8-26-86**  
 U.S. Soil Conservation Service Date

THESE PLANS FOR EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
*Stephen L. Shuler* **8-26-86**  
 Howard Soil Conservation District Date

Date	No.	Revision Description

OWNER AND DEVELOPER  
 JOSEPH J. HOOK, INC.  
 5500 BELLE GROVE RD  
 BALTIMORE, MD 21225  
 301-789-4400

AREA  
 BALTIMORE WASHINGTON INDUSTRIAL PARK-SEC. 2  
 TAX MAP 48  
 6TH ELECTION DISTRICT  
 HOWARD CO., MD.

TITLE  
**STORM WATER MANAGEMENT POND**

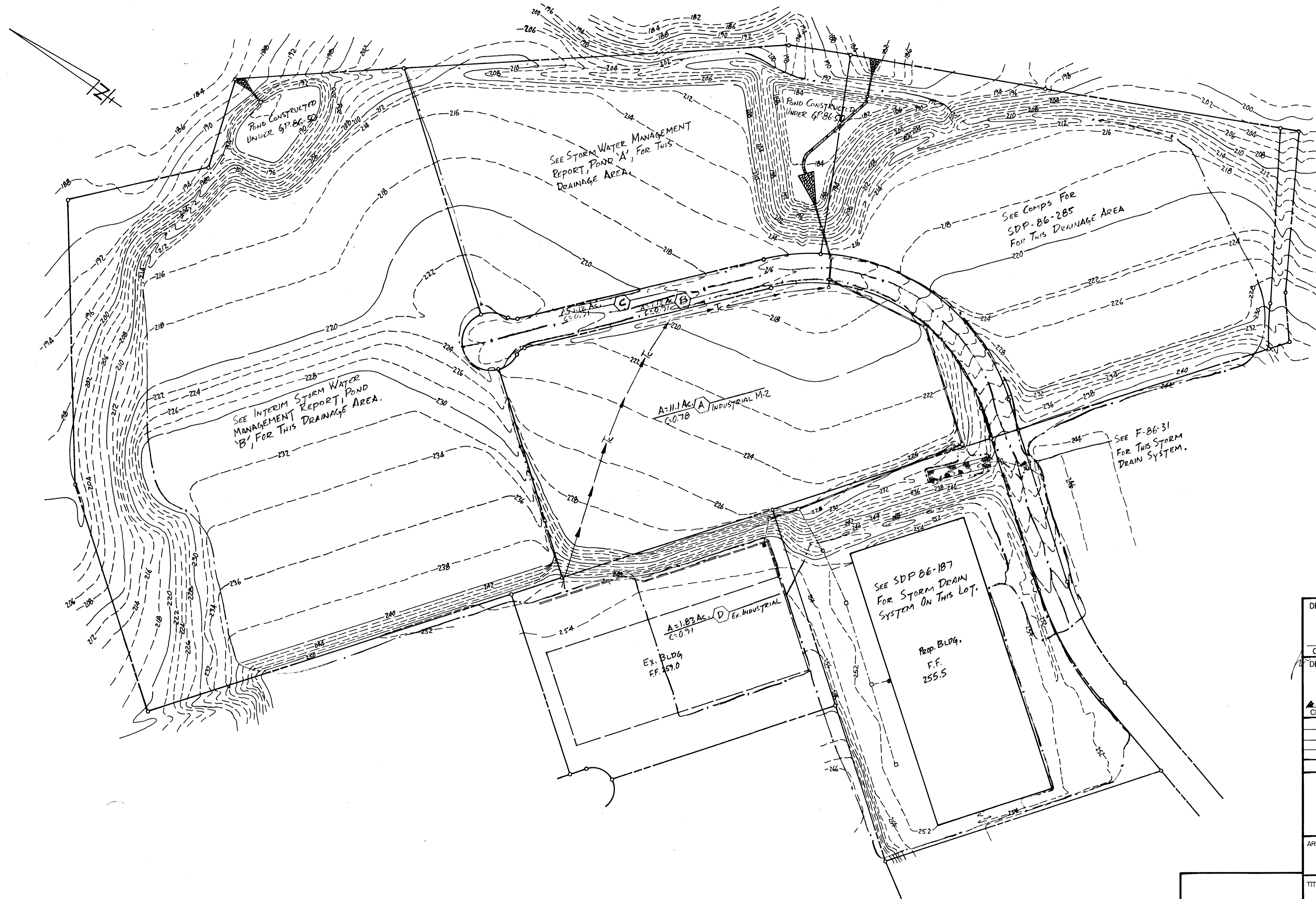
THE ARUNDEL CORPORATION  
 ARUNDEL CORPORATE CENTER, SUITE 100  
 110 WEST RD. TOWSON, MD. 21204  
 (301) 296-6400  
 LAND PLANNERS, LAND SURVEYORS, CIVIL ENGINEERS

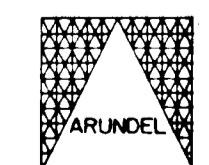
AS-BUILT SURVEY CERTIFIED BY  
 CHARLES R. SHINHAM, MD. P.E.  
 NO. 8717 ON 9-8-88.

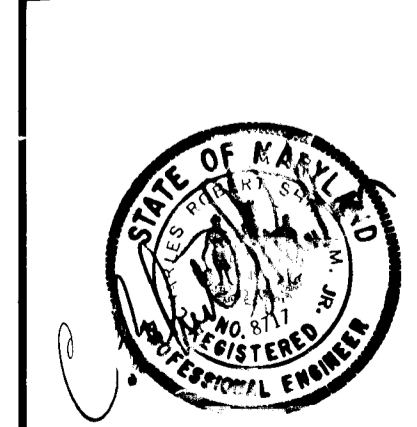
SCALE AS SHOWN  
 DATE: 7-12-86  
 DESIGNED: C.R.S.  
 DRAWN: M.T.V.  
 CHECKED: C.R.S.  
 APPROVED: P.P.S.

SHEET 9 OF 10





DEPARTMENT OF PUBLIC WORKS	
<i>William L. Linn</i>	9-2-86 Date
Chief, Bureau Of Engineering	
DEPARTMENT OF PLANNING AND ZONING	
<i>Louis F. Davis</i>	8-27-86 Date
Chief, Div. Of Land Development And Zoning Adm.	
Date	No
Revision Description	
OWNER AND DEVELOPER JOSEPH J. HOCK, INC. 5501 BELLE GROVE RD. ANNE ARUNDEL CO., MD. 21225 301-789-4400	
AREA BALTIMORE WASHINGTON INDUSTRIAL PARK SEC. 2 PARCELS: A, B, C, D, E TAX MAP 48 6TH ELECTION DISTRICT HOWARD CO., MD.	
TITLE <b>DRAINAGE AREA MAP</b>	
 <b>THE ARUNDEL CORPORATION</b> ARUNDEL CORPORATE CENTER, SUITE 100 110 WEST RD. TOWSON, MD. 21204 (301) 296-6400 LAND PLANNERS, LAND SURVEYORS, CIVIL ENGINEERS	
SCALE 1"=100'	DESIGNED <i>KTY</i>
DATE: 3/12/86	DRAWN <i>MTY</i>
	CHECKED <i>CEJ</i>
	APPROVED <i>DPS</i>
	SHEET 10 OF 10



F-86-210