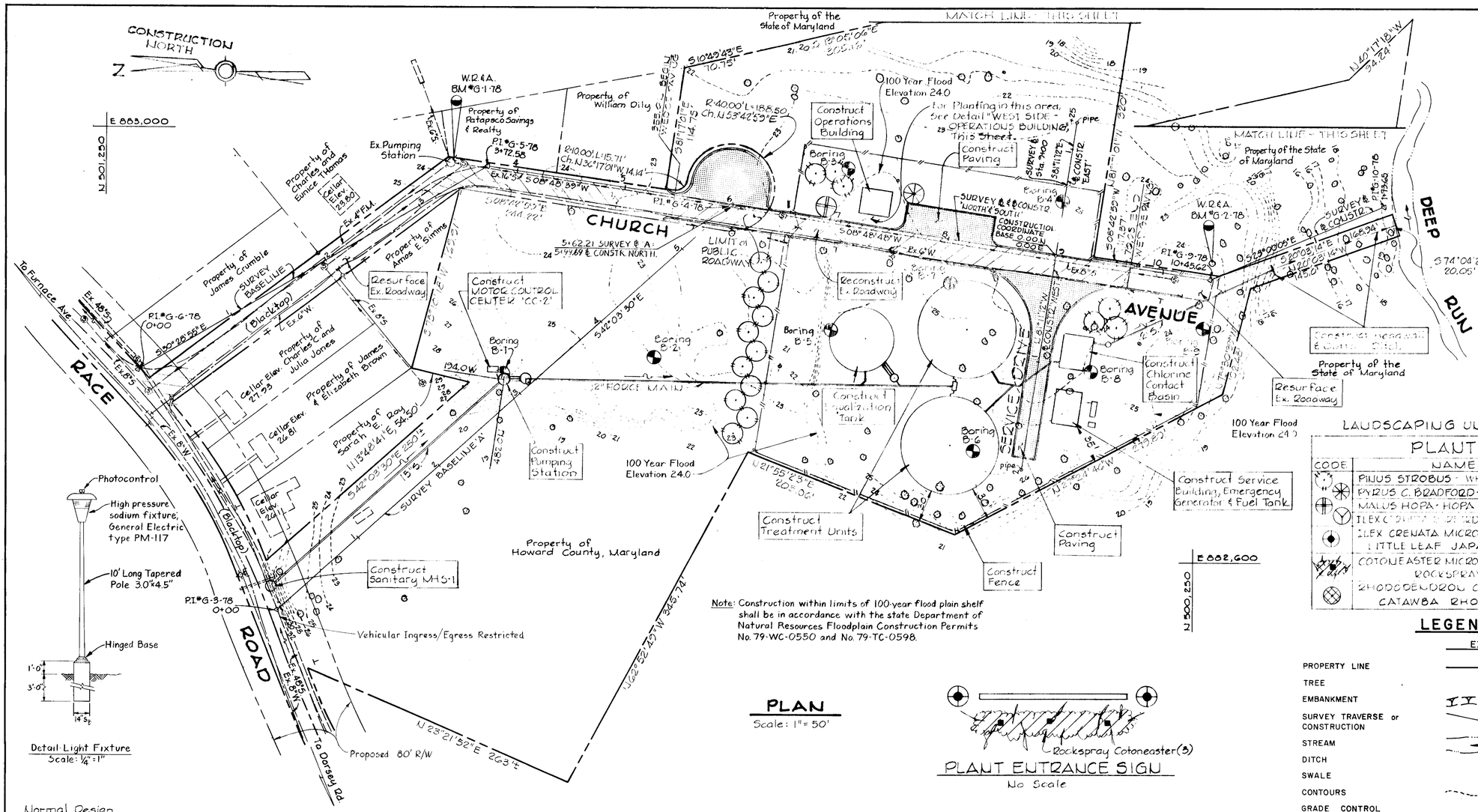
K&E BALTIMORE 17 0493 PHOENIX 8-78 MC 79699



TABULATION

LIBER	126
FOLIO	83
Tax Map	No. 38
Total Area of Property	7.47 A.
Zoning	R-12
Parking Spaces Req'd.	7
Parking Spaces Provided	8
Plant Staff	4 Persons

LANDSCAPING UNDER THIS CONTRACT:

PLANT LIST

CODE	NAME	SIZE	QUANT.
	PINUS STROBUS - WHITE PINE	10'-12'	17
	PYRUS C. BRADFORD - BRADFORD PEAR	2½"-3"CAL.	2
	MALUS HOPA - HOPA CRAB	3"-3½"CAL.	1
	ILEX C. 'SHEPPARDII' - SHEPPARDII HOLLY	3'-4'	2
	ILEX CRENATA MICROPHYLLA - LITTLE LEAF JAPANESE HOLLY	3'-4'	2
	COTONEASTER MICROPHYLLA CONGESTA ROCKSPRAY C. - COTONEASTER 5 PLTS		10
	RHODODENDRON CATAWBIENSE - CATAWBA RHODO (PURPLE)	3'	4

LEGEND

	EXISTING	CONSTRUCTION THIS CONTRACT
PROPERTY LINE		
TREE		
EMBANKMENT		
SURVEY TRAVERSE or CONSTRUCTION		
STREAM		
DITCH		
SWALE		
CONTOURS	24	24
GRADE CONTROL ELEVATION		24.08
BUILDINGS or STRUCTURES		
ROADWAYS:		
RESURFACING		
RECONSTRUCTION WITH WEDGE COURSE		
NEW TOTAL CONSTRUCTION		
SIDEWALK		
CURB & CURB OPENING		
STAIRWAY		
FENCE & GATE		
PIPELINE (8" & SMALLER)		
PIPELINE (10" & LARGER)		
MANHOLES / CLEANOUTS		
LIGHT FIXTURE		
RIPRAP		
POWER POLE		

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 3-8-79

CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 3-8-79

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR — DATE

CHIEF, BUREAU OF ENGINEERING — DATE 3-29-79

HOWARD COUNTY, MARYLAND
APPROVED
3-29-79
M.A.P.P.W.M.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER — DATE 5-7-79

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

KENNETH A. McCORD P.E.#1974 — DATE 3/8/79

OWNER AND DEVELOPER
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND 21043

MARCH 9, 1979

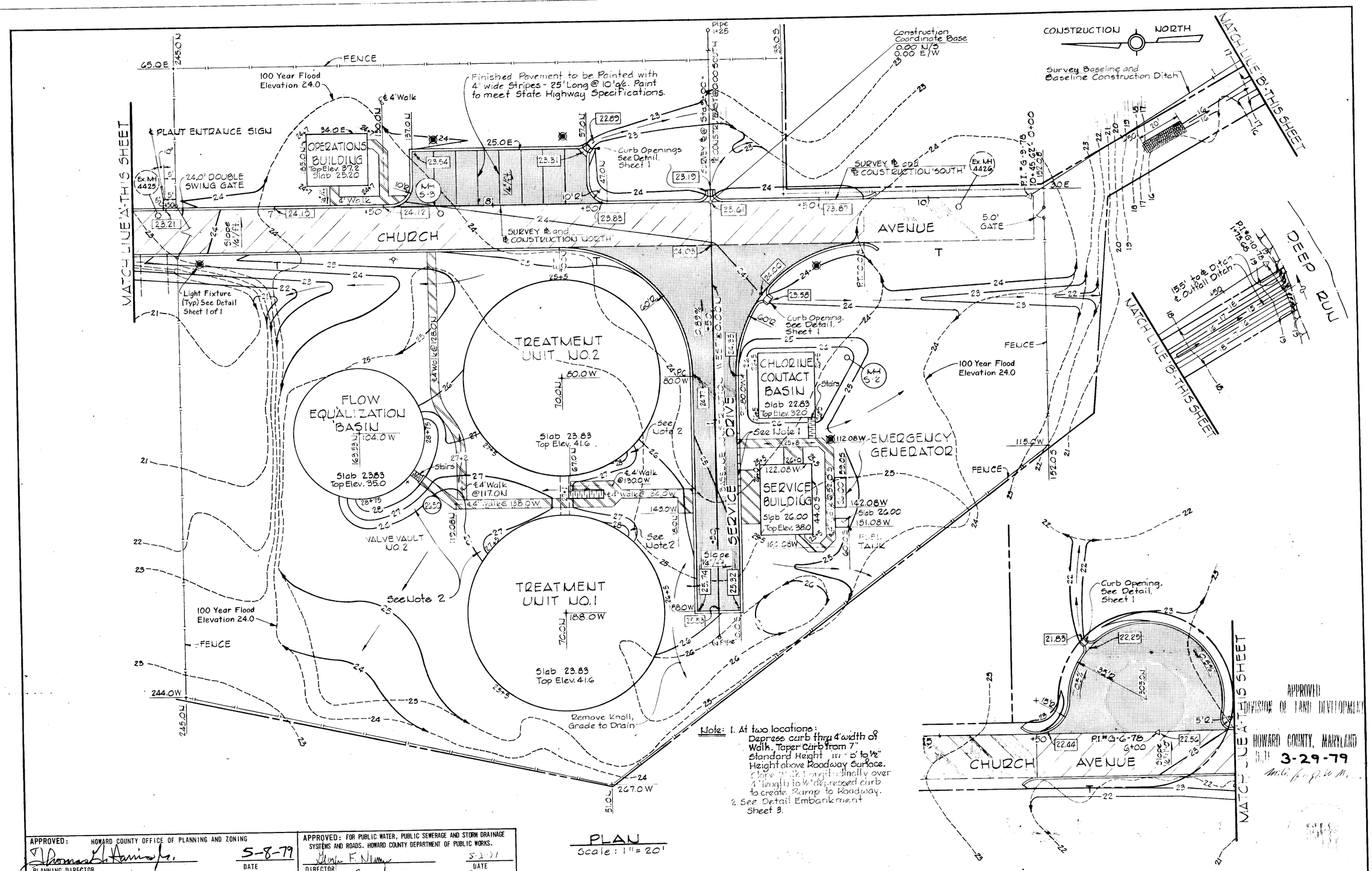
DEEP RUN INTERIM WASTEWATER TREATMENT PLANT
SITE DEVELOPMENT PLAN
ELECTION DISTRICT NO. 1 HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN

W.O. 7348-2

SHEET NO. 1 OF 4

SDP-79-112



Note: 1. At two locations: Depress curb thru 4' width of Walk. Taper Curb from 7" Standard Height in 5' to ½" Height above Roadway Surface. Slope Walk Longitudinally over 4' length to ½" depressed curb to create Ramp to Roadway.
2. See Detail Embankment Sheet 3.

PLAN
Scale: 1" = 20'

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
3-29-79

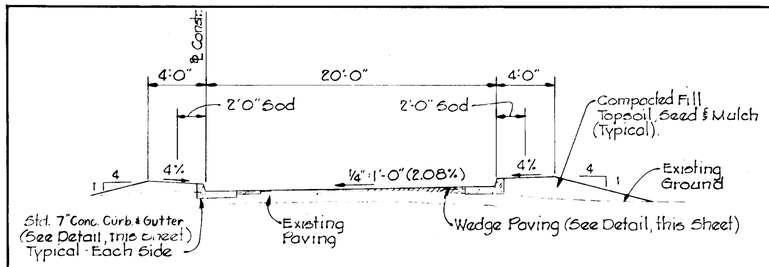
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING PLANNING DIRECTOR — DATE 5-8-79 CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 5-8-79	APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. DIRECTOR — DATE 5-2-79 CHIEF, BUREAU OF ENGINEERING — DATE 5-1-79	APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT. COUNTY HEALTH OFFICER — DATE 5-2-79	OWNER AND DEVELOPER HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 3430 COURT HOUSE DRIVE ELLICOTT CITY, MARYLAND 21043
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	KENNETH A. McCORD P.E.#1974 — DATE 3/8/79		

DEEP RUN INTERIM WASTEWATER TREATMENT PLANT
SITE DEVELOPMENT PLAN
ELECTION DISTRICT NO.1 HOWARD COUNTY, MARYLAND
MARCH 9, 1979
SCALE: AS SHOWN
SHEET NO.2 OF 4

W.O. 7348-2

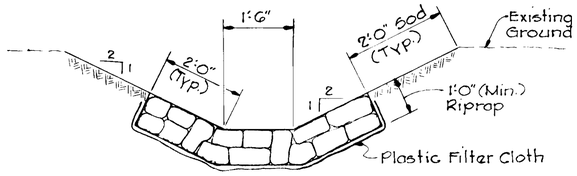
SDP-79-112

K&E BALTIMORE 170493 PHOENIX MC81326



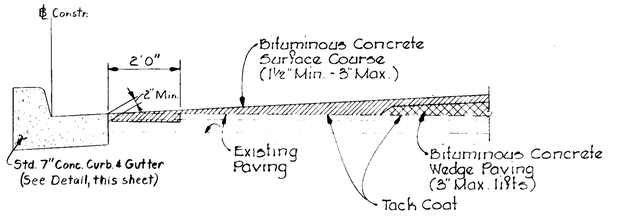
TYPICAL SECTION - CHURCH AVENUE

Sta. 5+44 to Sta. 7+15 & Sta. 8+43 to Sta. 9+70 Survey ℄
Scale : 1"=5'0"



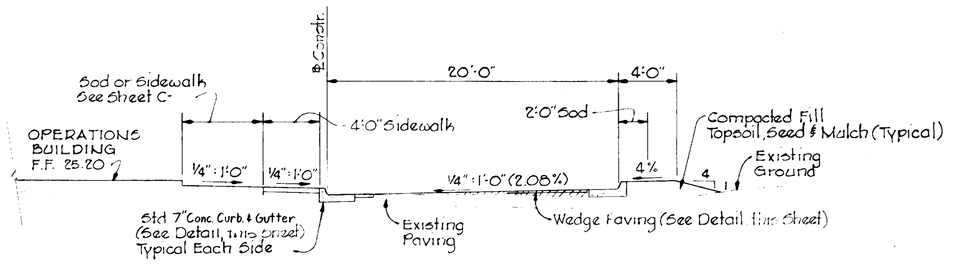
TYPICAL RIPRAP OUTFALL DITCH

No Scale



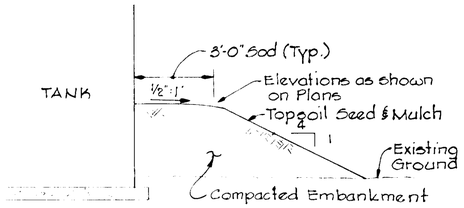
WEDGE PAVING DETAIL

No Scale



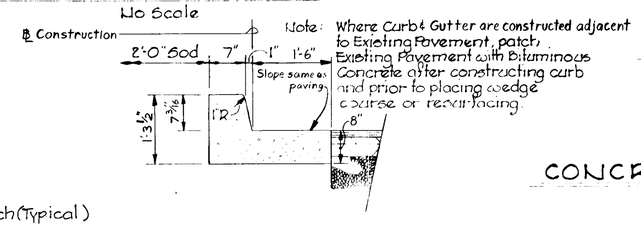
TYPICAL SECTION - CHURCH AVENUE

Sta. 7+15 to Sta. 7+63 Survey ℄
Scale : 1"= 5'0"



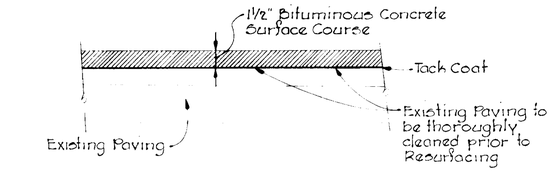
DETAIL - TYPICAL EMBANKMENT FOR EXTERIOR PIPING

No Scale



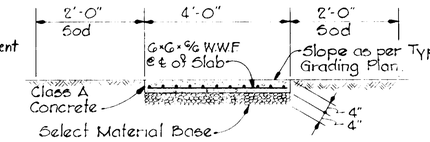
TYPICAL CURB & GUTTER DETAIL

No Scale



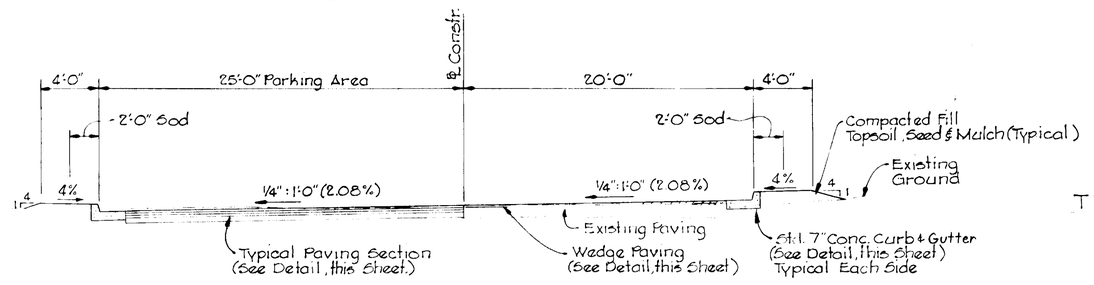
TYPICAL RESURFACING SECTION

CHURCH AVENUE
Sta 0+00± to Sta. 5+44 & Sta 9+70 to Sta. 10+46± Survey ℄
No Scale



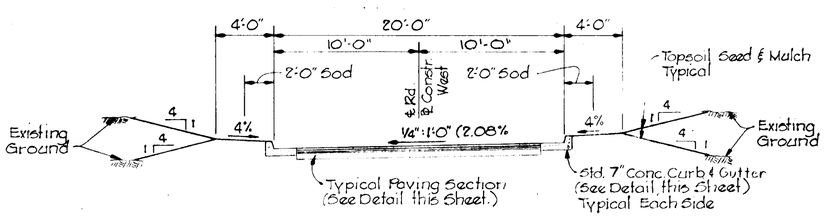
CONCRETE SIDEWALK DETAIL

No Scale



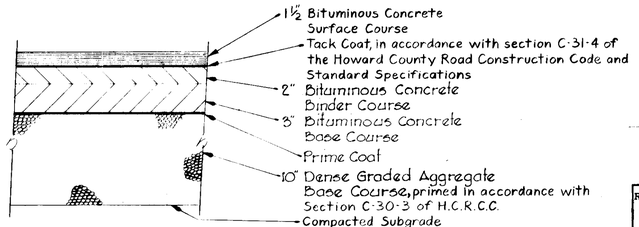
TYPICAL SECTION - CHURCH AVENUE

Sta. 7+63 to Sta. 8+43 Survey ℄
Scale : 1"= 5'-0"



TYPICAL SECTION - SERVICE DRIVE

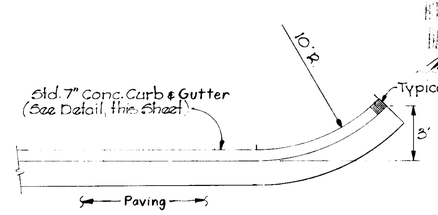
Sta. 0+20± to Sta. 1+88 ℄ Construction West
Scale : 1"= 5'0"



Note: 1) All Construction shall be in accordance with the Howard County Road Construction Code and Standard Specifications
2) Design speed limit - 15 m.p.h.

TYPICAL PAVING SECTION

No Scale



TYPICAL FLARED CURB DETAIL

No Scale

APPROVED
DIVISION OF LAND DEVELOPMENT
DATE 3-29-79
M.O. for D.W.M.

Reviewed for Howard SR S.C.D.
Name
and meets Technical Requirements
C. Wayne Ray Date 4/23/79
Signature
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Approved Robert W. Zeller Date 4/24/79
Howard S.C.D.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas H. Harris Jr. 5-8-79
PLANNING DIRECTOR — DATE
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
5-9-79
DIRECTOR — DATE
5-1-79
CHIEF, BUREAU OF ENGINEERING — DATE

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

Kenneth A. McCord 3/8/79
KENNETH A. McCORD P.E.#1974 — DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
5-1-79
COUNTY HEALTH OFFICER — DATE

OWNER AND DEVELOPER
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND 21043

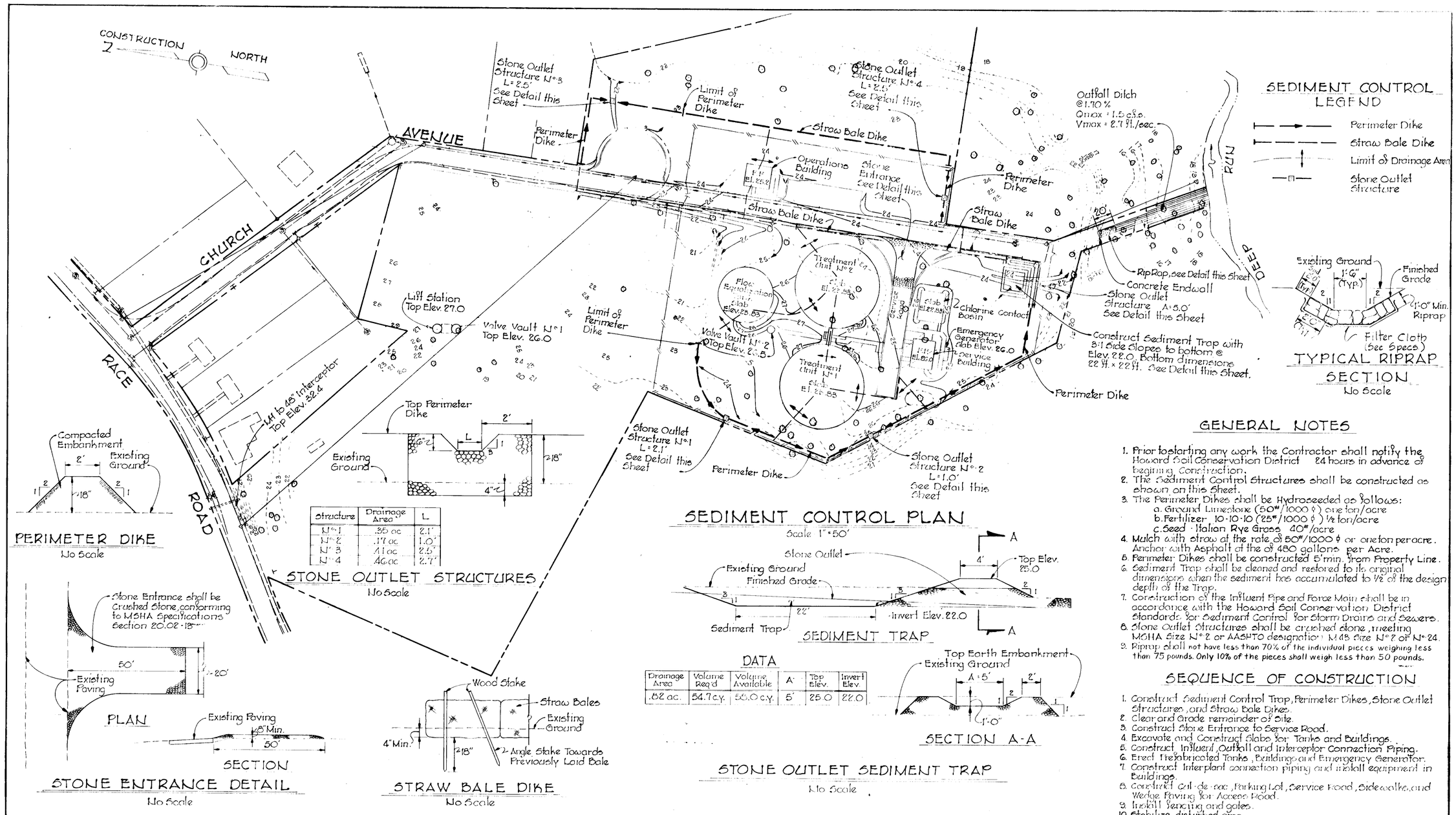
DEEP RUN INTERIM WASTEWATER TREATMENT PLANT
SITE DEVELOPMENT PLAN
MARCH 9, 1979 — ELECTION DISTRICT NO.1 HOWARD COUNTY, MARYLAND — SCALE: AS SHOWN

W.O. 7348-2

SHEET NO. 3 OF 4

SDP-79-112

K&E BALTIMORE 17 0493 PHOENIX 6-78 MC 7849



SEDIMENT CONTROL LEGEND

- Perimeter Dike
- Straw Bale Dike
- Limit of Drainage Area
- Stone Outlet Structure

TYPICAL RIPRAP SECTION
No Scale

PERIMETER DIKE
No Scale

Structure	Drainage Area	L
N°1	.35 ac	2.1'
N°2	.17 ac	1.0'
N°3	.41 ac	2.5'
N°4	.46 ac	2.7'

STONE OUTLET STRUCTURES
No Scale

STONE ENTRANCE DETAIL
No Scale

STRAW BALE DIKE
No Scale

SEDIMENT CONTROL PLAN
Scale 1"=50'

SEDIMENT TRAP

DATA

Drainage Area	Volume Req'd	Volume Available	A	Top Elev.	Invert Elev.
.82 ac.	54.7 c.y.	55.0 c.y.	5'	25.0	22.0

SECTION A-A

STONE OUTLET SEDIMENT TRAP
No Scale

GENERAL NOTES

1. Prior to starting any work the Contractor shall notify the Howard Soil Conservation District 24 hours in advance of beginning Construction.
2. The Sediment Control Structures shall be constructed as shown on this Sheet.
3. The Perimeter Dikes shall be Hydroseeded as follows:
   a. Ground Limestone (50#/1000 ¢) one ton/acre
   b. Fertilizer 10-10-10 (25#/1000 ¢) ½ ton/acre
   c. Seed - Italian Rye Grass 40#/acre
4. Mulch with straw at the rate of 50#/1000 ¢ or one ton per acre. Anchor with Asphalt at the of 480 gallons per Acre.
5. Perimeter Dikes shall be constructed 5' min. from Property Line.
6. Sediment Trap shall be cleaned and restored to its original dimensions when the sediment has accumulated to ½ of the design depth of the Trap.
7. Construction of the Influent Pipe and Force Main shall be in accordance with the Howard Soil Conservation District Standards for Sediment Control for Storm Drains and Sewers.
8. Stone Outlet Structures shall be crushed stone, meeting MSHA Size N°2 or AASHTO designation M 43 Size N°2 or N°24.
9. Riprap shall not have less than 70% of the individual pieces weighing less than 75 pounds. Only 10% of the pieces shall weigh less than 50 pounds.

SEQUENCE OF CONSTRUCTION

1. Construct Sediment Control Trap, Perimeter Dikes, Stone Outlet Structures, and Straw Bale Dikes.
2. Clear and Grade remainder of Site.
3. Construct Stone Entrance to Service Road.
4. Excavate and Construct Slabs for Tanks and Buildings.
5. Construct Influent, Outfall and Interceptor Connection Piping.
6. Erect Prefabricated Tanks, Buildings and Emergency Generator.
7. Construct Interplant connection piping and install equipment in Buildings.
8. Construct Cul-de-sac, Parking Lot, Service Road, Sidewalks, and Wedge Paving for Access Road.
9. Install Fencing and gates.
10. Stabilize disturbed area.
11. Remove Sediment Control Trap, Perimeter Dikes, Stone Outlet Structures, and Straw Bale Dikes.
12. Stabilize area disturbed by Sediment Control Structures immediatley upon removal.

3-29-79

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".

Kenneth A. McCord — 3/8/79
KENNETH A. McCORD P.E. #1974 — DATE

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

CERTIFICATION BY THE DEVELOPER

"I CERTIFY THAT ALL 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"

W.O. Filbert — 5-1-79
WILLIAM O. FILBERT-CHIEF, BUREAU OF ENGINEERING, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS — DATE

Kenneth A. McCord — 3/8/79
KENNETH A. McCORD P.E. #1974 — DATE

REVIEWED FOR Howard S.C.D.
NAME
AND MEETS TECHNICAL REQUIREMENTS.

C. Wayne Ray — 4/23/79
U.S. SOIL CONSERVATION SERVICE — DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — DATE

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

Robert W. Zellhart — 4/24/79
APPROVED: HOWARD S.C.D. — DATE

OWNER AND DEVELOPER
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND 21043

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE

CHIEF, DIVISION OF LAND DEVELOPMENT — DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR — 5-2-79 DATE

W.O. Filbert — 5-1-79
CHIEF, BUREAU OF ENGINEERING — DATE

MARCH 9, 1979

DEEP RUN INTERIM WASTEWATER TREATMENT PLANT
SITE DEVELOPMENT PLAN
ELECTION DISTRICT NO. 1 HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN

W. O. 7348-2

SHEET NO. 4 OF 4

SDP-79-112