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SITE DEVELOPMENT PLAN

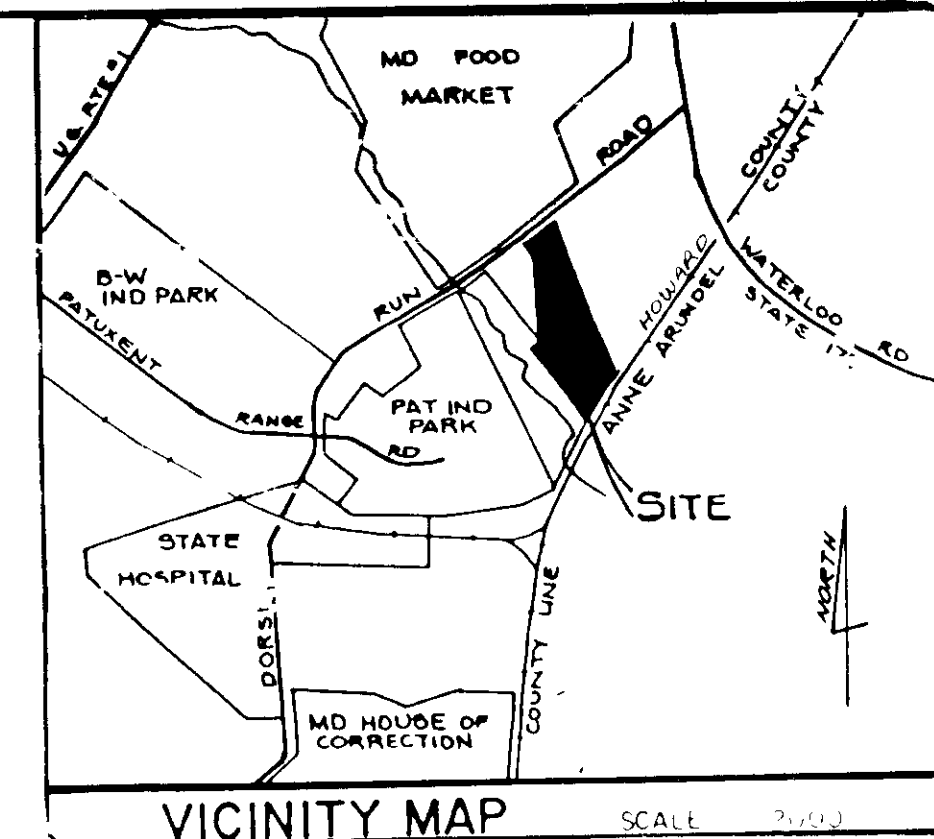
DORSEY RUN PARK

BUILDING 3

AUTO REPAIR SHOP - ADDITION TO SDP-86-255

6TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



- GENERAL NOTES**
- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
 - 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.
 - THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER. A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
 - CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
 - MISS UTILITY 1-800-257-7777
 - C&P TELEPHONE COMPANY 725-9976
 - HOWARD COUNTY BUREAU OF UTILITIES 992-2366
 - AT&T CABLE LOCATION DIVISION 393-3553
 - BALTIMORE GAS AND ELECTRIC COMPANY 685-0123
 - STATE HIGHWAY ADMINISTRATION 531-5533
 - HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK) 792-7272
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
 - THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
 - PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
 - NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
 - TOPO TAKEN FROM FIELD RUN SURVEY DATED 4/7/87 BY KIDDE CONSULTANTS, INC.
 - ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 - SITE LIGHTING TO BE DIRECTED INWARD AND DOWNWARD AWAY FROM ALL RESIDENTIAL AREAS.
 - A WAIVER HAS BEEN GRANTED FOR STORM WATER MANAGEMENT.

BUILDING 1 & 2

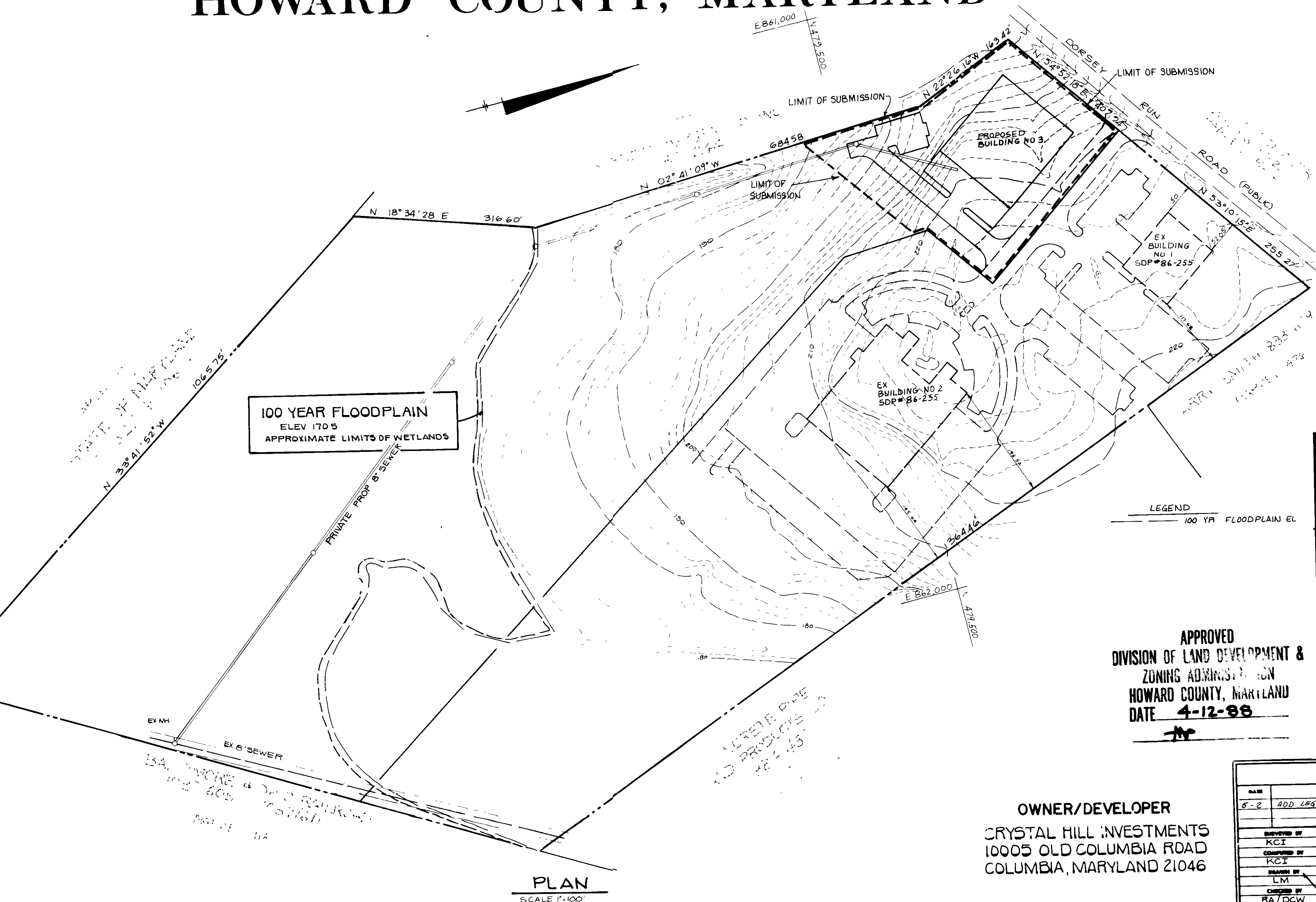
SITE ANALYSIS

A. AREA OF PARCEL	32,549 AC (1,417,834 SQ FT)
B. PRESENT ZONING	M-2
C. FLOOR SPACE	57,792 SQ. FT. TOTAL FOR SITE
BUILDING '1' (GEIPE)	2,450 SQ. FT. OFFICE
	9,550 SQ. FT. WAREHOUSE
	12,000 SQ. FT. TOTAL (85%)
BUILDING '2' (DIVERSIFIED)	8,928 SQ. FT. OFFICE
	32,400 SQ. FT. MANUFACTURING
	4,464 SQ. FT. STORAGE
	45,792 SQ. FT. TOTAL (323%)
D. MAXIMUM NUMBER OF EMPLOYEES	
BUILDING '1'	8 OFFICE
	16 WAREHOUSE
BUILDING '2'	40 OFFICE
	40 MANUFACTURING
E. PARKING REQUIRED	
BUILDING '1' (1 SPACE PER EMPLOYEE)	24 SPACES
(24 EMPLOYEES) =	
BUILDING '2' (1 SPACE PER EMPLOYEE)	80 SPACES
(80 EMPLOYEES) =	
F. PARKING PROVIDED	
BUILDING '1'	26 SPACES (2 HANDICAPPED)
BUILDING '2'	80 SPACES (4 HANDICAPPED)
G. OPEN SPACE REQUIRED	6.5 AC (20%)
H. OPEN SPACE PROVIDED	27.54 AC (85%)
I. BUILDING COVERAGE	48,864 SQ. FT. (13.4%)
J. LANDSCAPED ISLANDS REQUIRED	1,666 SQ. FT. (5%)
K. LANDSCAPED ISLANDS PROVIDED	1,915 SQ. FT. (5.7%)
L. PARKING AREA	33,462 SQ. FT.

BUILDING 3

SITE ANALYSIS

A. AREA OF PARCEL	32,549 AC (1,417,834 SQ. FT.)
B. AREA OF PROPOSED SITE	2.3 AC (100,188 SQ. FT.)
C. PRESENT ZONING	M-2
D. PROPOSED USE	AUTO VEHICLE REPAIR SHOP
E. BUILDING AREA, SQ. FT.	28350 (166%)
F. PARKING REQUIRED	ONE SPACE/500 SQ. FT. OF FLOOR AREA
SPACES REQUIRED	11
G. PARKING SPACES PROVIDED	
1. OUTDOOR PARKING SPACES	36
2. INDOOR PARKING SPACES	8
H. TOTAL PARKING PROVIDED	44
I. HANDICAPPED SP. REQUIRED	3
J. HANDICAPPED SP. PROVIDED	3
K. OPEN SPACE REQUIRED	(20%) 48 AC (20,838 00 SQ. FT.)
L. OPEN SPACE PROVIDED	1.7 AC (74,053 00 SQ. FT.)= 74%
M. BUILDING COVERAGE	80 AC (36,138 00 SQ. FT.)= 26%
N. LANDSCAPED ISLANDS REQ.	(5% OF TOTAL PARKING AREA) 800 SQ. FT.
O. LANDSCAPED ISLANDS PROV.	4,250 00 SQ. FT.= 25.5%
P. PARKING AREA	37 AC (16,000 00 SQ. FT.)=(4%)



ADDRESS CHART

BLDG	ADDRESS
3	8021 DORSEY RUN ROAD
2	8015 DORSEY RUN ROAD
1	8005 DORSEY RUN ROAD

DORSEY RUN PARK

SUPERVISION NAME	SECT./AREA	PARCEL NO.
DORSEY RUN PARK		5
PLAT NO. OR L/F	BLOCK NO.	ZONE
1000/155	3	M-2
TAX./ZONE	MAPELEC	DIST.
48		6TH
CENSUS TR.	6064	
WATER CODE	SEWER CODE	
802	3020000	

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

Director: *James J. Lee* DATE: 6/6/88

Chief Bureau of Engineering: *James J. Lee* DATE: 6-7-88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

County Health Officer: *James J. Lee* DATE: 6-9-88

APPROVED. HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Director: *James J. Lee* DATE: 6.16.88

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 4-12-88

OWNER/DEVELOPER
CRYSTAL HILL INVESTMENTS
10005 OLD COLUMBIA ROAD
COLUMBIA, MARYLAND 21046

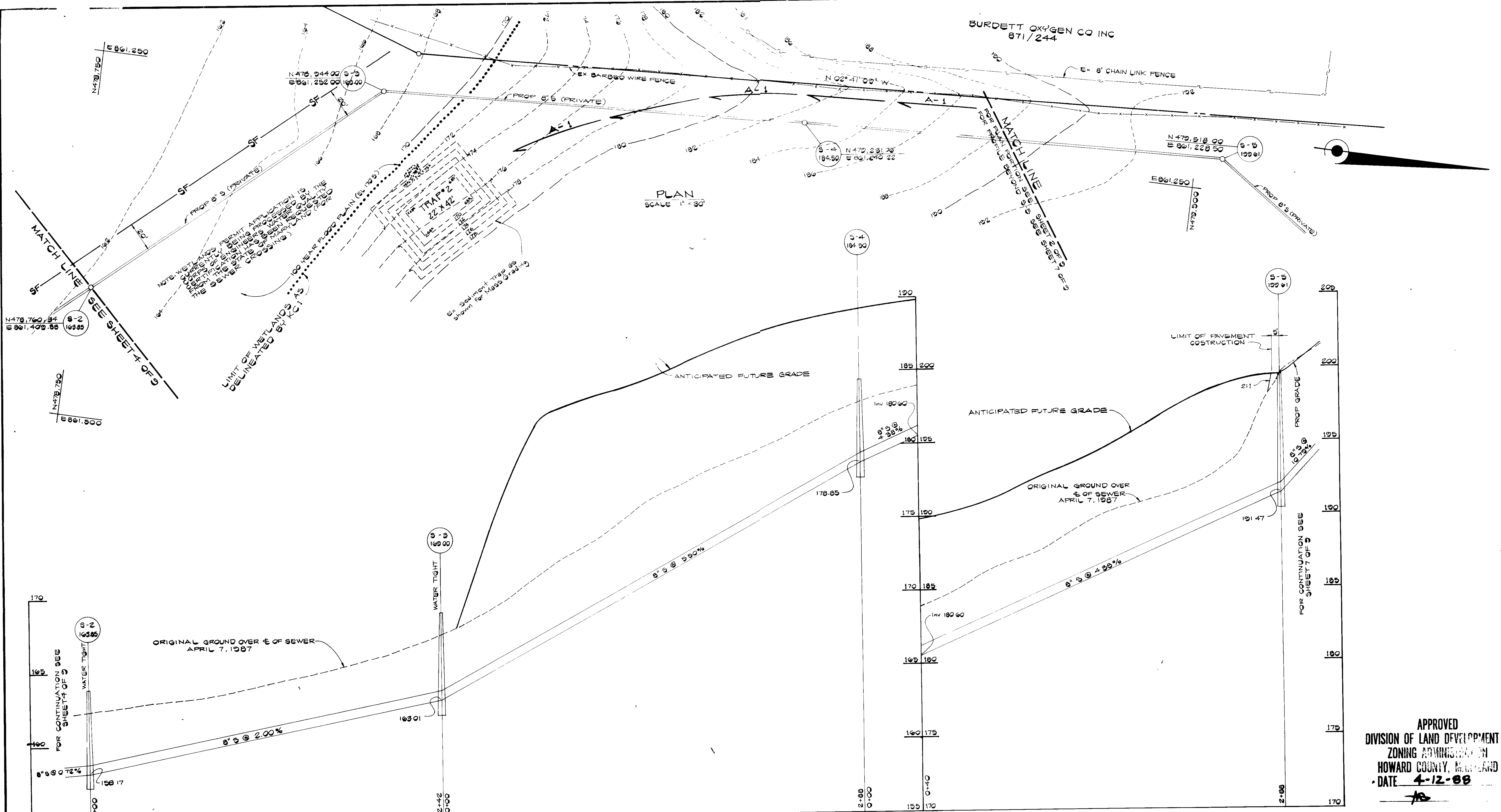
KIDDE CONSULTANTS, INC.

ENGINEERS • PLANNERS • SURVEYORS

1100 WEST STREET / SUITE 100, LAUREL MD 20707
(Wash.) (301) 953-1821 / 792-8086 (Balt.)

DATE: SEPT, 1987 SCALE AS SHOWN

SHEET 1 OF 9



APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 4-12-88

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 DATE 6/15/88
 DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DATE 6/6/88
 CHIEF BUREAU OF ENGINEERING

REVIEWED FOR HOWARD SOIL CONSERVATION AND MEETS TECHNICAL REQUIREMENTS
 DATE 4-28-88
 U.S. SOIL CONSERVATION SERVICE

ENGINEERS CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR EROSION & 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"

DEVELOPERS CERTIFICATE
 "I/WE CERTIFY THAT ALL DEVELOPMENT & CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 & EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT"

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 COUNTY HEALTH OFFICER
 DATE 6/1/88

OWNER/DEVELOPER
 CRYSTAL HILL INVESTMENTS
 10005 OLD COLUMBIA ROAD
 COLUMBIA, MARYLAND 21046

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION & SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 DATE 4-29-88
 HOWARD SOIL CONSERVATION DISTRICT

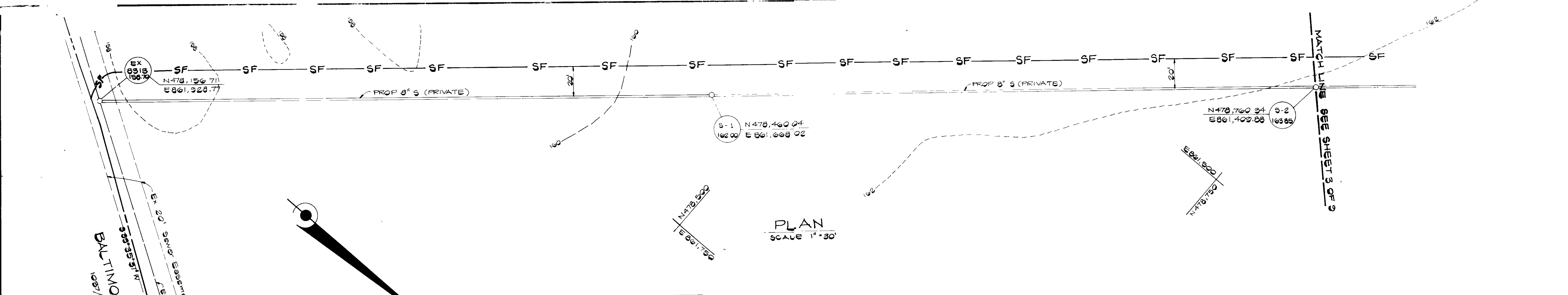
ENGINEERS SIGNATURE
 DATE 4/20/88

DEVELOPERS SIGNATURE
 DATE 10/12/87

DORSEY RUN PARK
 PRIVATE 8" SEWER
 PLAN PROFILE & SEDIMENT CONTROL
 AUTO REPAIR SHOP ADDITION TO SDP-86-255
 TAX MAP 48 PARCEL 5 6TH ELECTION DISTRICT HOWARD CO, MD
 SHEET 3 OF 9

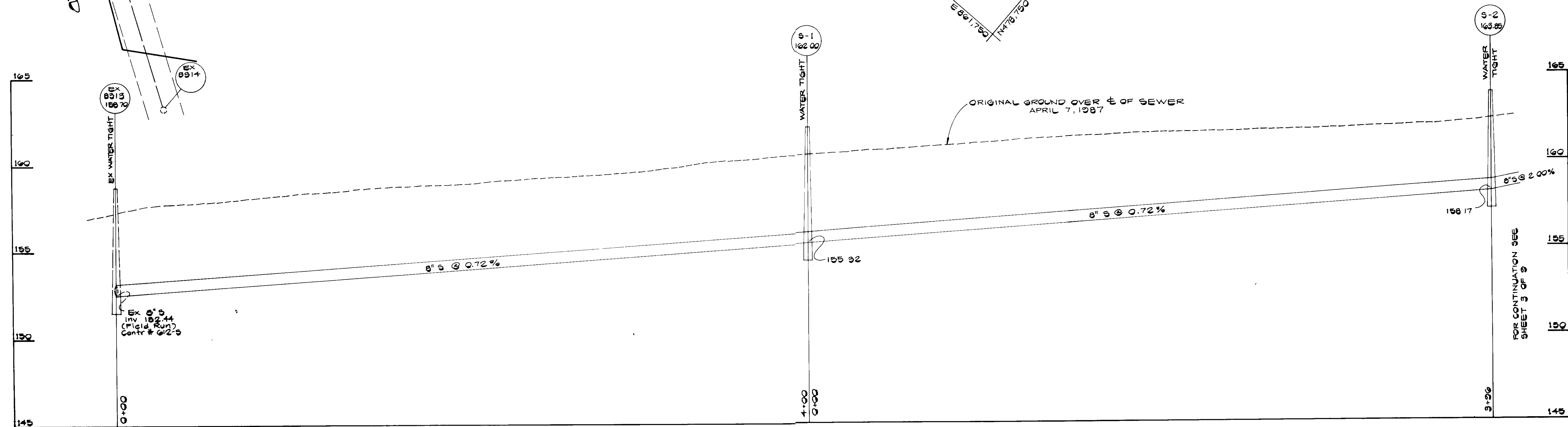
KIDDE CONSULTANTS, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 1100 WEST STREET / SUITE 100 / LAUREL, MD 20707
 (301) 553-1821 / 782-8088 (Bx1)

DATE OCT 1987 SCALE AS SHOWN
 SDP-88-71



QUANTITIES		
ITEM	DESIGN	AS-BUILT
8" SEWER	1783 LF	
STD MANHOLES	2	
W.T. MANHOLES	3	

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 4-12-88



PROFILE
HOR. 1"=30'
VERT 1"=3'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
COUNTY HEALTH OFFICER
DATE 6-7-88

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
DIRECTOR, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
DATE 6-16-88

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR
DATE 6/6/88

CHIEF BUREAU OF ENGINEERING
DATE 6-7-88

OWNER/DEVELOPER
CRYSTAL HILL INVESTMENTS
10005 OLD COLUMBIA ROAD
COLUMBIA, MARYLAND 21046

REVIEWED FOR HOWARD SOIL CONSERVATION AND MEETS TECHNICAL REQUIREMENTS
US SOIL CONSERVATION SERVICE
DATE 4-28-88

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION & SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
HOWARD SOIL CONSERVATION DISTRICT
DATE 4/29/88

ENGINEERS CERTIFICATE
"I CERTIFY THAT THIS PLAN FOR EROSION & 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"

ENGINEERS SIGNATURE
DATE 4/20/88

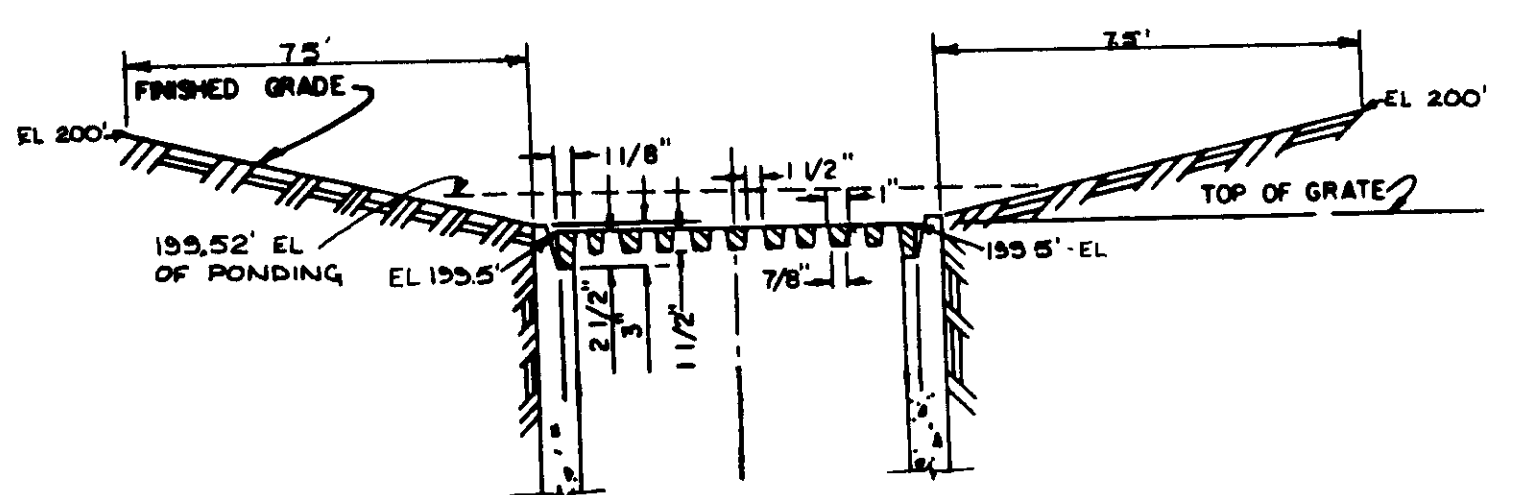
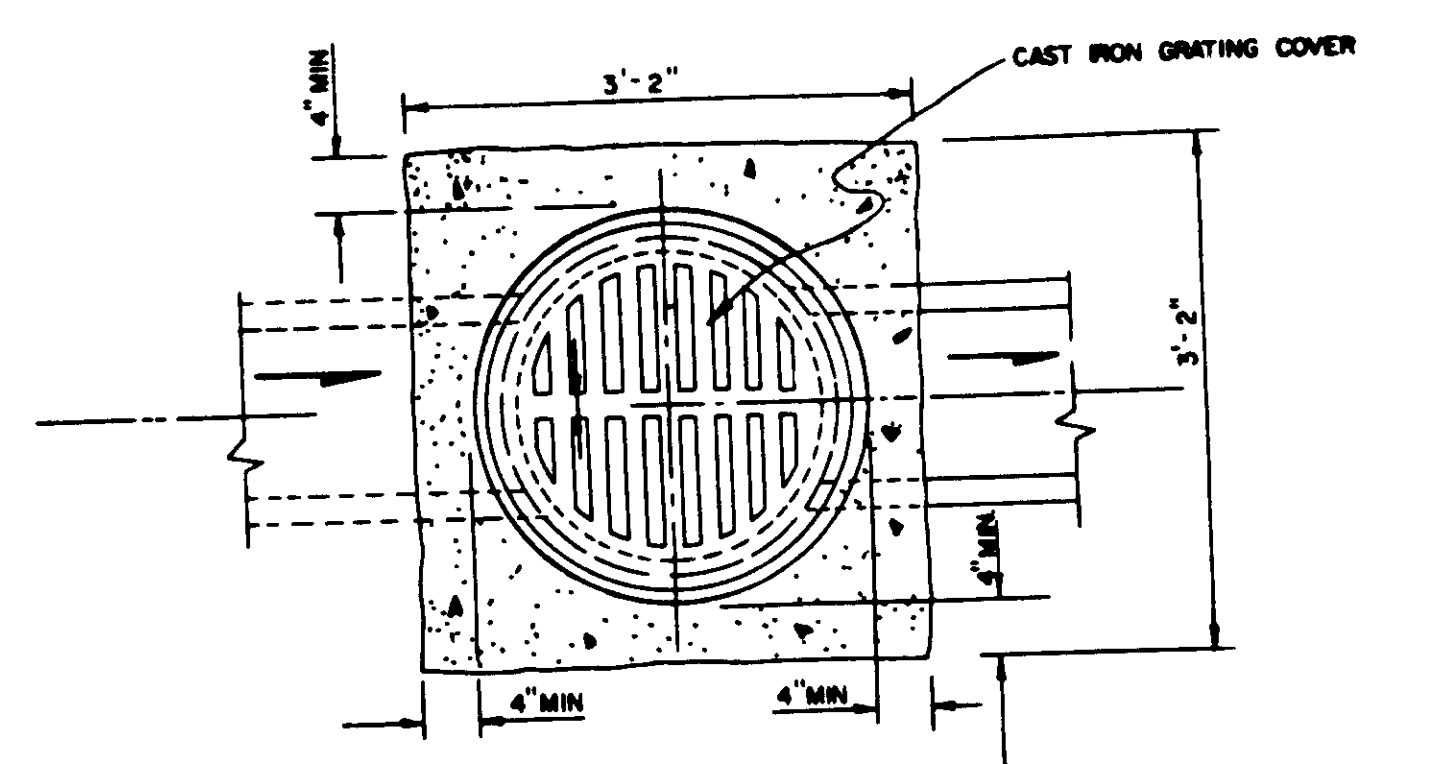
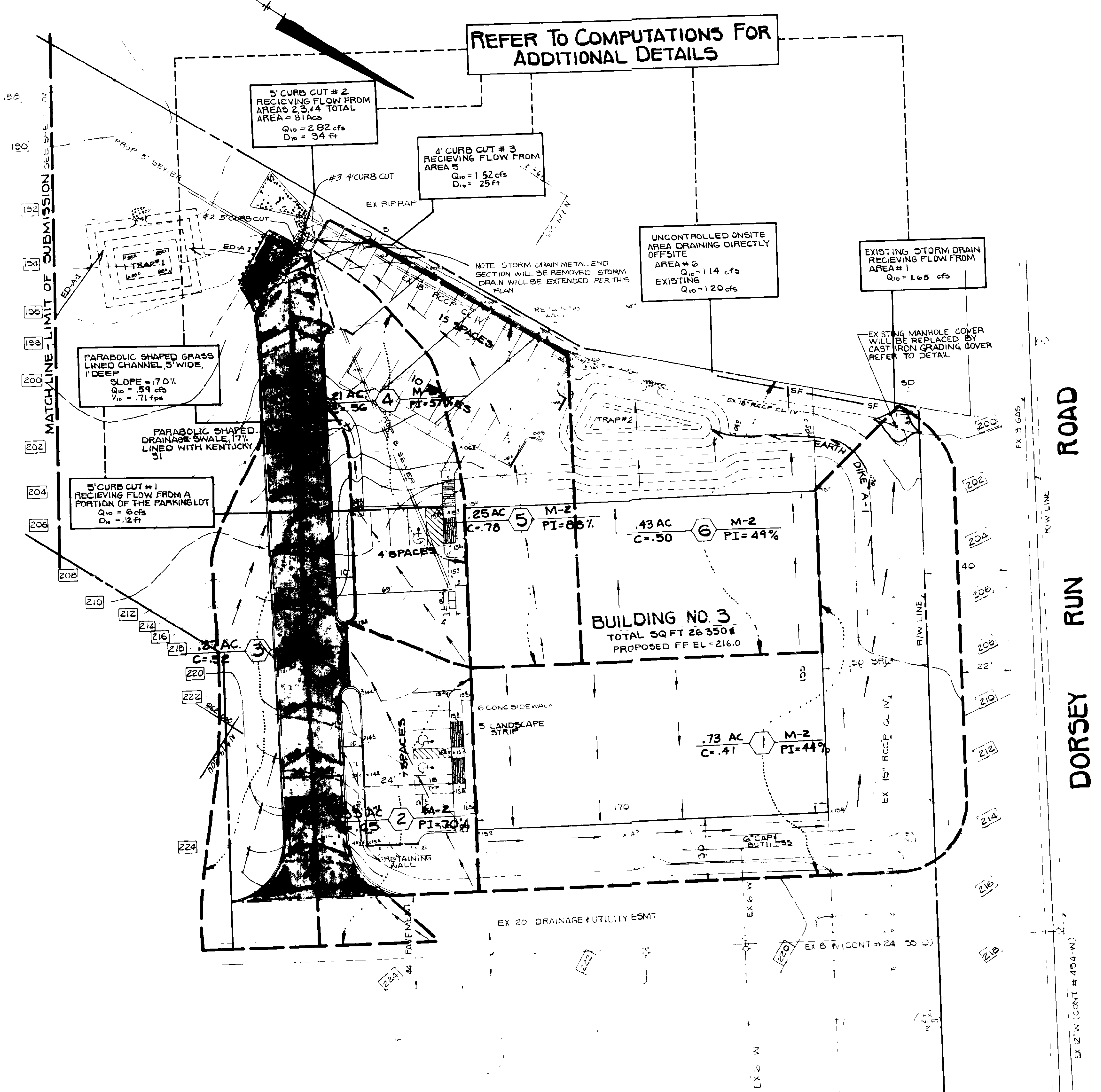
DEVELOPERS CERTIFICATE
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DEVELOPERS SIGNATURE
DATE 10/12/87

DORSEY RUN PARK
PRIVATE 8" SEWER
PLAN PROFILE & SEDIMENT CONTROL
AUTO REPAIR SHOP ADDITION TO SDP-86-255
TAX MAP 48 PARCEL 5 6th ELECTION DISTRICT HOWARD CO. MD
SHEET 4 OF 9

KIDDE CONSULTANTS, INC.
ENGINEERS • PLANNERS • SURVEYORS
1100 WEST STREET / SUITE 100 / LAUREL, MD 20701
(Wash) (301) 953-1821 / 792-8086 (Balt)

DATE OCT 1987 SCALE AS SHOWN
SDP-88-71



APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING
HOWARD COUNTY
DATE 4-12-88

- SEQUENCE OF CONSTRUCTION
- OBTAIN REVISED GRADING PERMIT. 1 DAY
 - UTILIZE ALL EXISTING SEDIMENT CONTROL MEASURES FROM THE MASS GRADING PLAN (GP-88-15)
 - INSTALL ALL UTILITIES AND OIL SEPARATOR TANK. (REPLACE EXISTING MANHOLE #2 WITH A YARD INLET). 10 DAYS
 - INSTALL CURB AND GUTTER. 2 WEEKS
 - FINE GRADE THE SITE AS PER THE PLANS. (RELOCATE DIKE ON NORTH SIDE OF TRAP #2 AS SHOWN IN PLANS). 2 WEEKS
 - INSTALL ALL P-1 AND P-3 PAVING. 2 1/2 WEEKS
 - INSTALL DRAINAGE SWALE FROM CURB CUT #1. (STABILIZE ALL AREAS PRIOR TO REMOVAL OF CONTROLS) 2 DAYS
 - WITH APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES BY FILLING AND COMPACTING THEM. STABILIZE ALL AREAS REMAINING AREAS USING KENTUCKY 31 TALL PESCUE. 3 DAYS
 - ONGOING MAINTENANCE 1 WEEK

OWNER/DEVELOPER
CRYSTAL HILL INVESTMENTS
10005 OLD COLUMBIA ROAD
COLUMBIA, MARYLAND 21046

DORSEY RUN PARK
DRAINAGE AREA AND
SEDIMENT CONTROL PLAN
AUTO REPAIR SHOP ADDITION TO SDP-86-255
TAX MAP 48 PARCEL 5
6TH ELECTION DISTRICT HOWARD COUNTY, MD

KIDDE CONSULTANTS
OCT 1987
11:30
5:09

STATE OF MARYLAND
PROFESSIONAL ENGINEER

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
DATE 6/6/88
DIRECTOR

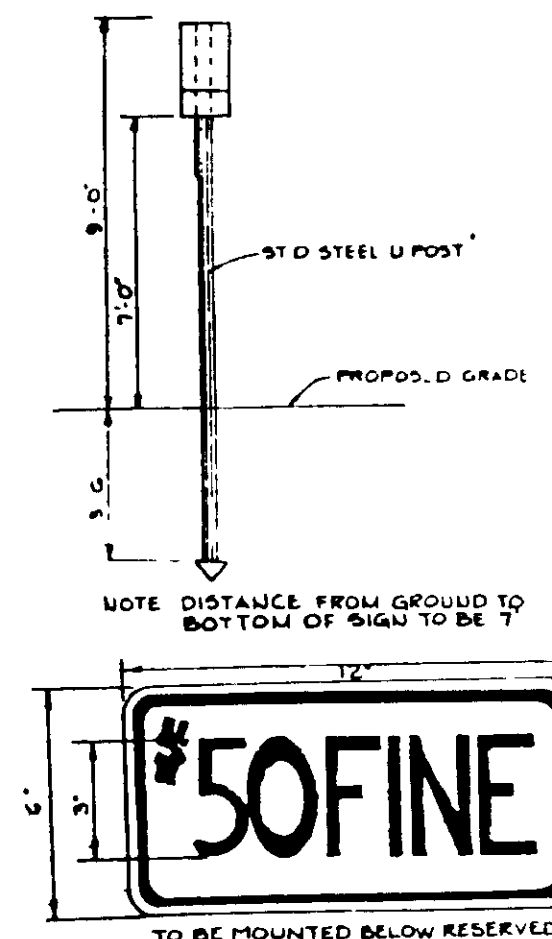
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE 6/9/88
DIRECTOR

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE 6/15/88
DIRECTOR

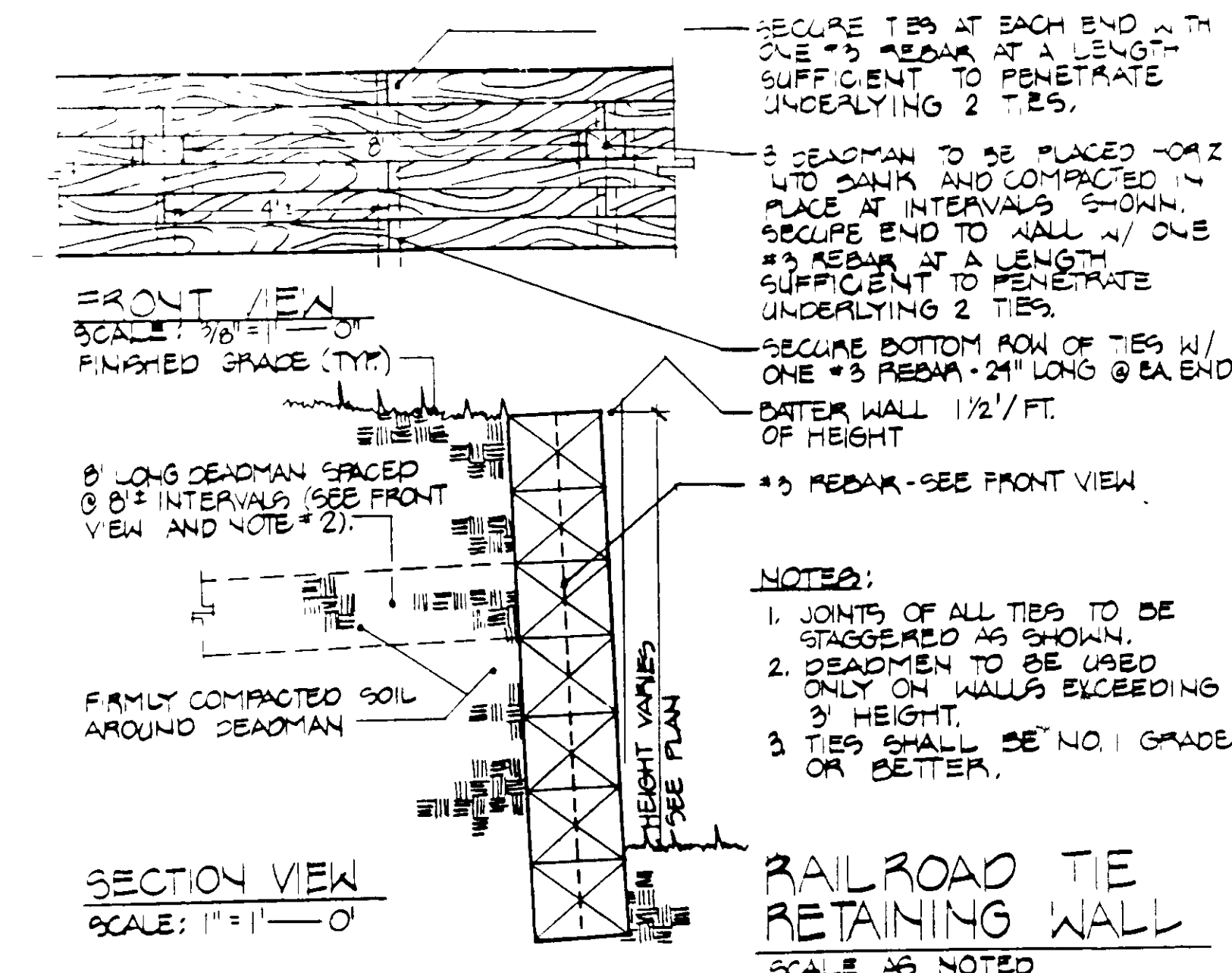
ENGINEER OF EARTHWORK
John Z. Alimode
4/20/88

DEVELOPERS CERTIFICATE
Stewart Murray
10/14/87

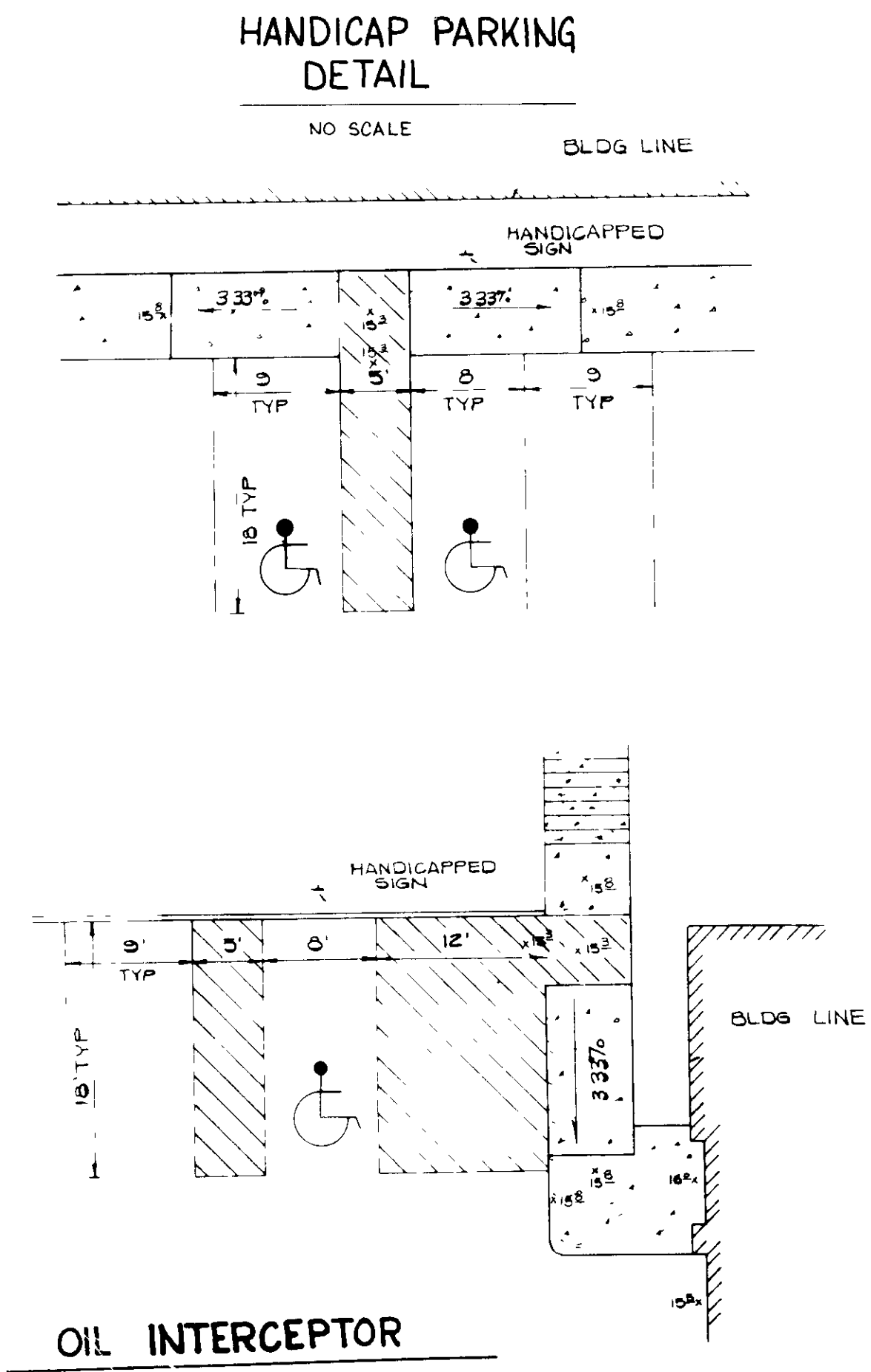
REVISION CHART
4-28-88
4/29/88



HANDICAP SIGN
NO SCALE

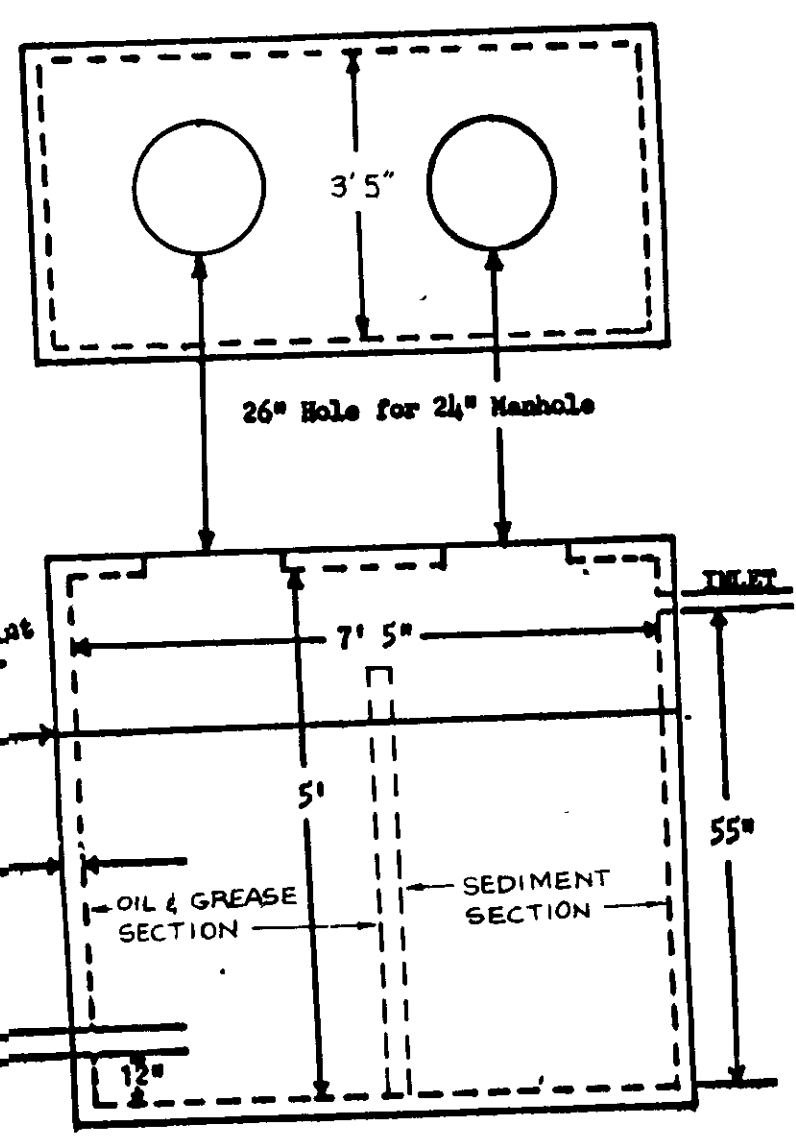


RAILROAD TIE RETAINING WALL
SCALE AS NOTED

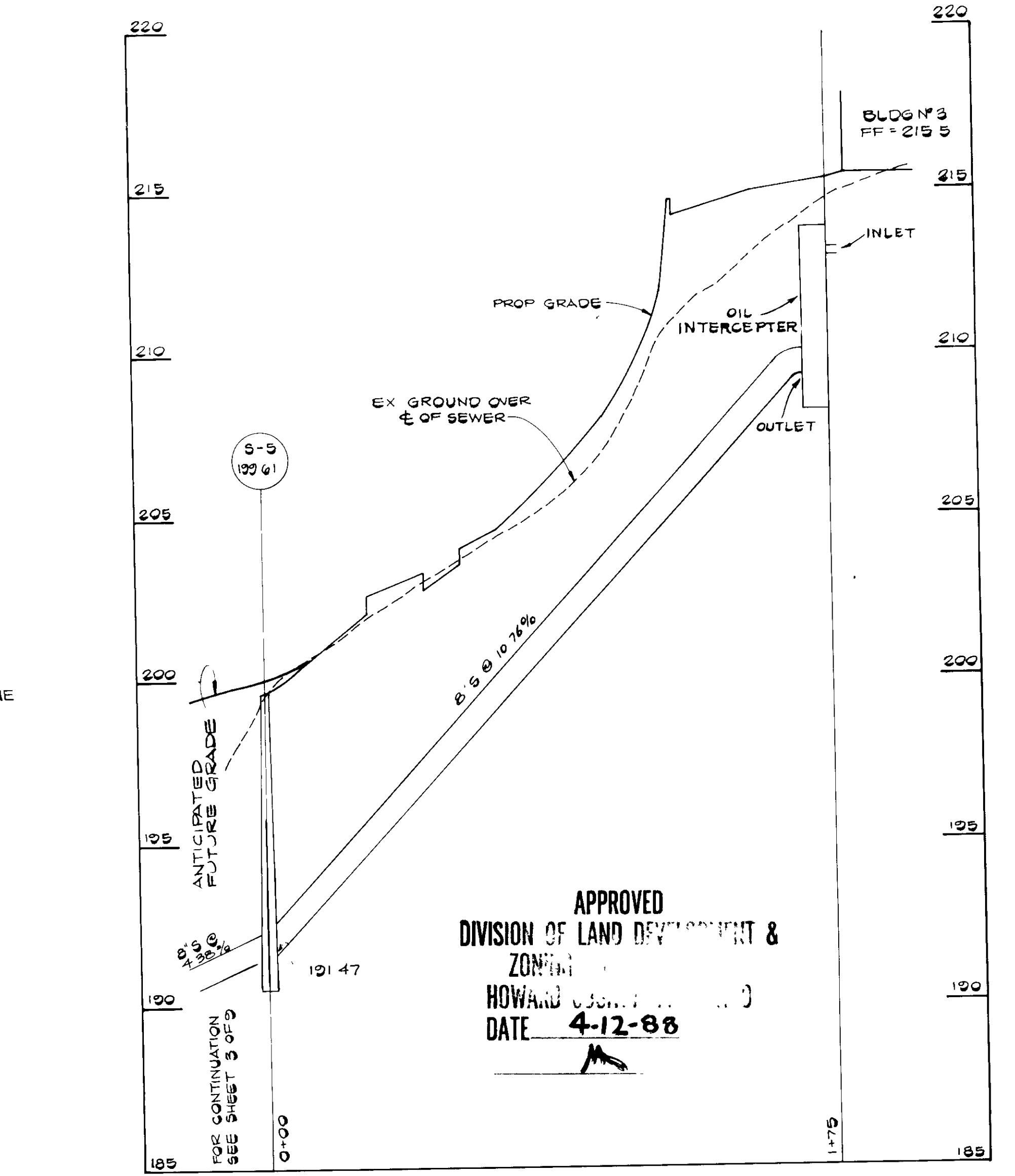


OIL INTERCEPTOR

750 GALLON OIL INTERCEPTOR

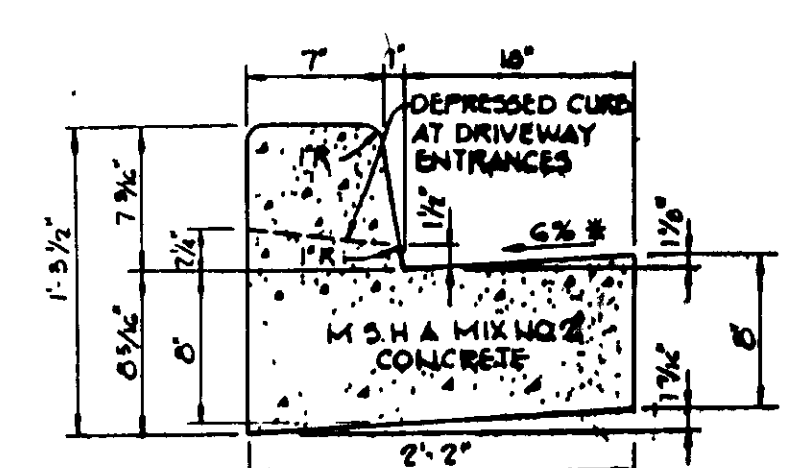


This oil interceptor is pre-cast with seven bag mix concrete and is reinforced with #5 #10 gauge wire mesh and reinforcement rods. The size and amount of reinforcement rod used in the top, bottom and side walls is at the discretion of the purchaser. The top and bottom can be manufactured to any thickness desired. Our oil interceptor's meet state and county regulations and are approved by M.S.S.O.

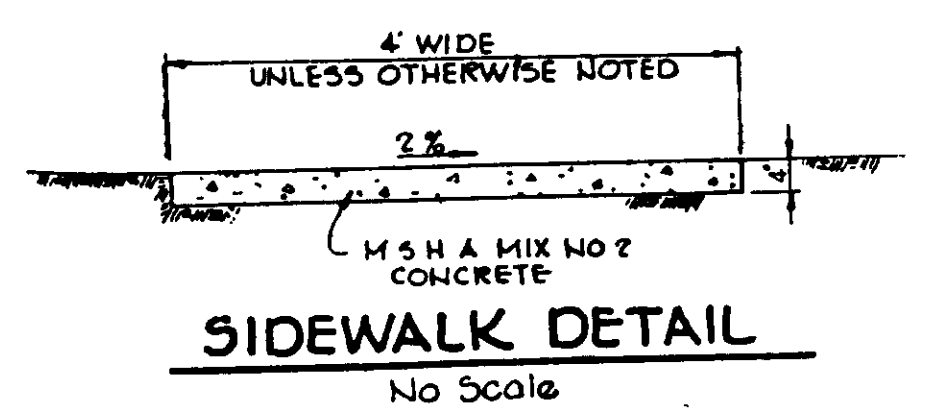


APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING
HOWARD COUNTY, MARYLAND
DATE **4-12-88**

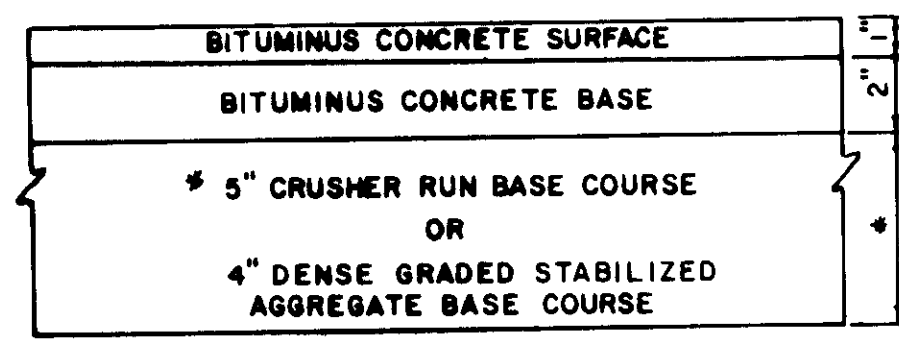
PROFILE
HORIZ: 1"=30'
VERT: 1"=3'



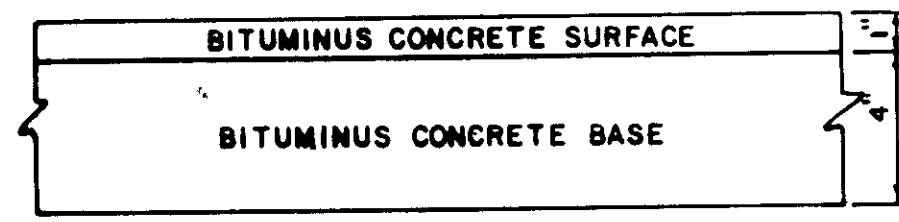
STANDARD 7" COMBINATION CURB AND GUTTER
No Scale



SIDEWALK DETAIL
No Scale

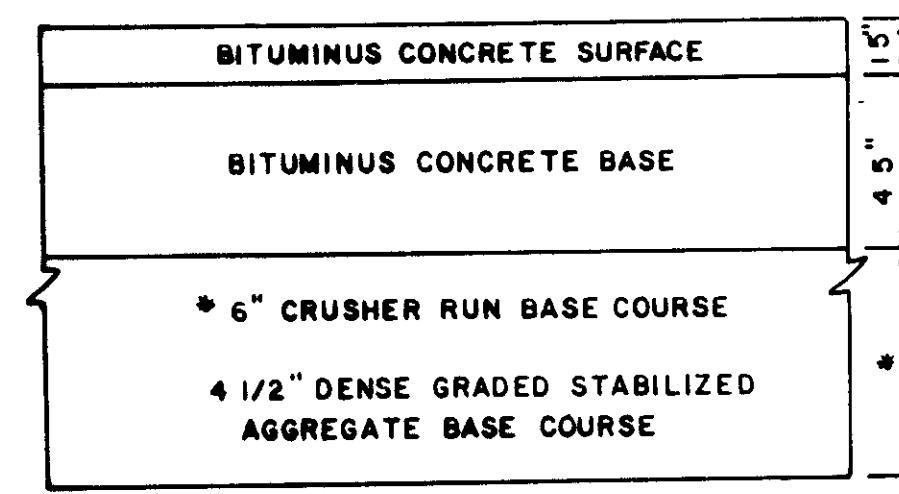


(ALTERNATE)

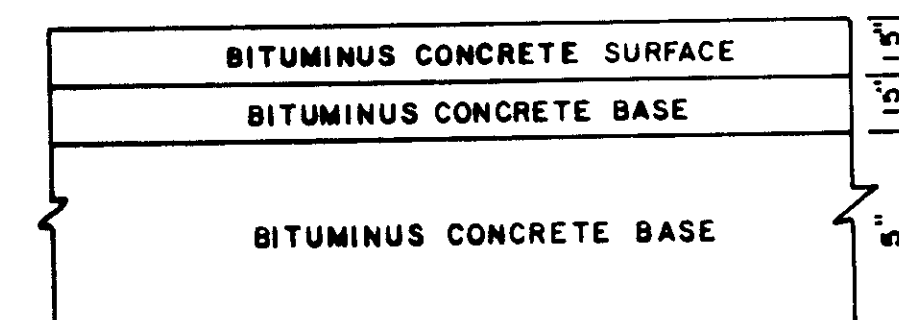


HOWARD COUNTY DESIGN MANUAL VOL. IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2 01)

(5" PAVING, P-1)
NO SCALE

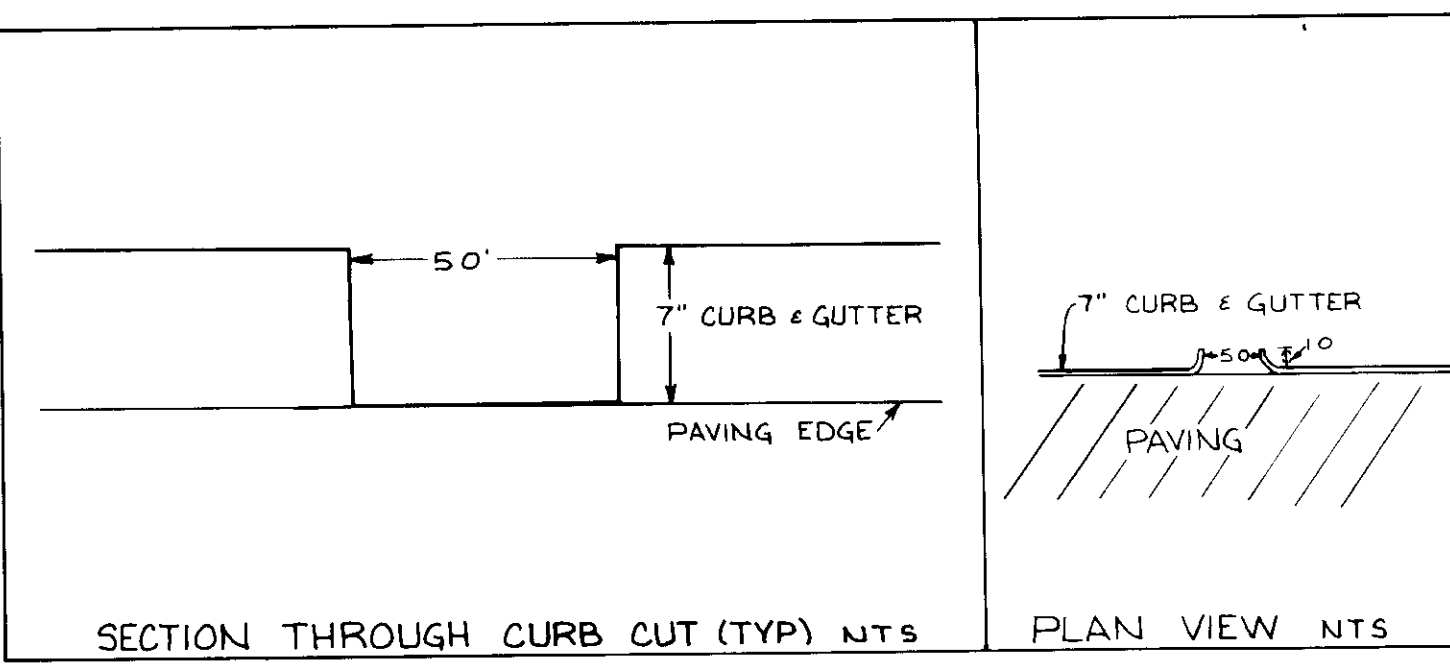
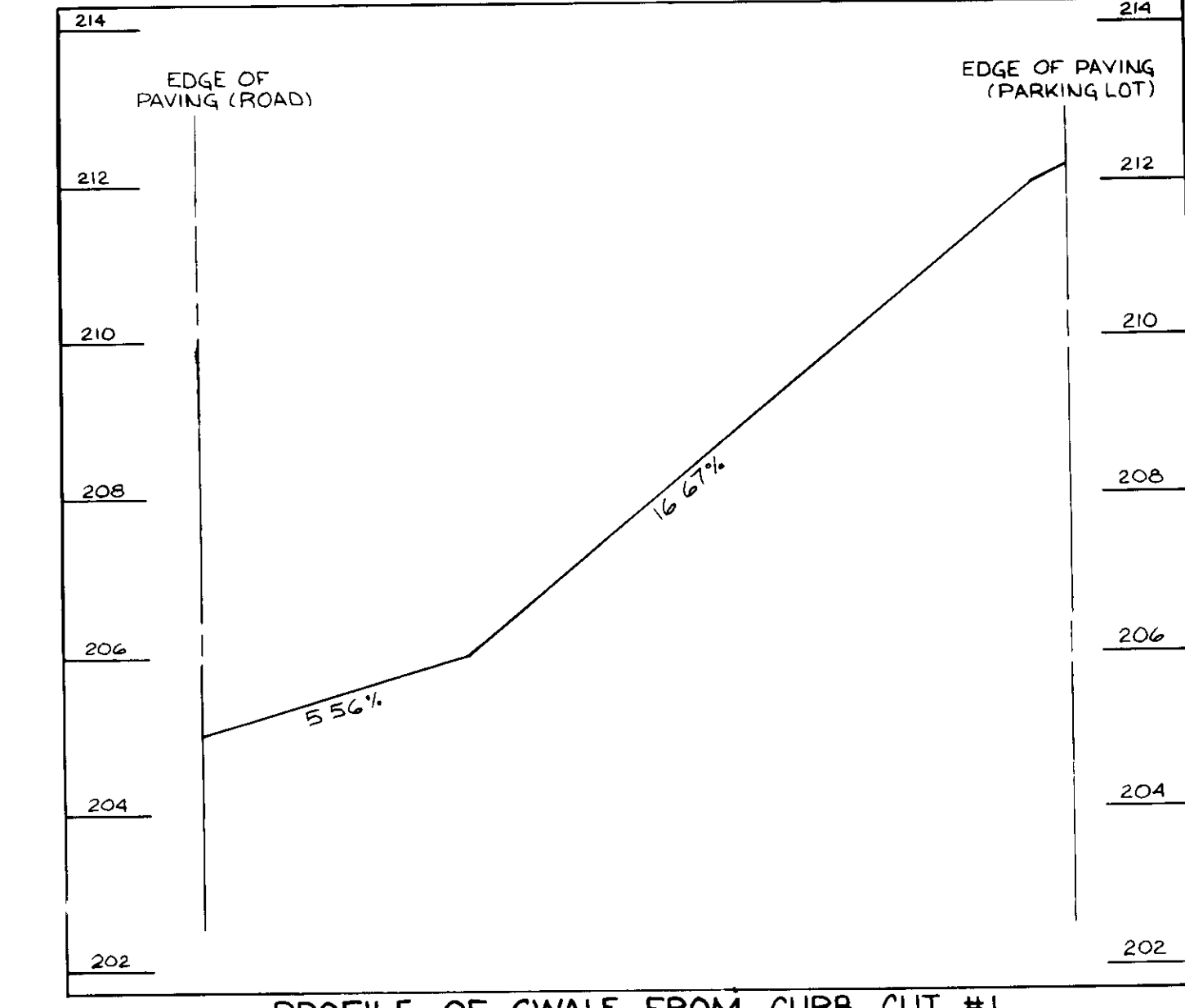


(ALTERNATE)



HOWARD COUNTY DESIGN MANUAL VOL. IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2 01)

(8" PAVING, P-3)
NO SCALE



APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
David R. Keith 6/15/88
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James B. ... 6-9-88
COUNTY HEALTH OFFICER DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James B. ... 6/16/88
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James B. ... 6-7-88
CHIEF BUREAU OF ENGINEERING DATE

REVIEWED FOR HOWARD SOIL CONSERVATION AND MEETS TECHNICAL REQUIREMENTS
James B. ... 4-24-88
U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION & SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Stephen L. ... 4/24/88
HOWARD SOIL CONSERVATION DISTRICT DATE

ENGINEERS CERTIFICATE
"I CERTIFY THAT THIS PLAN FOR EROSION & 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"

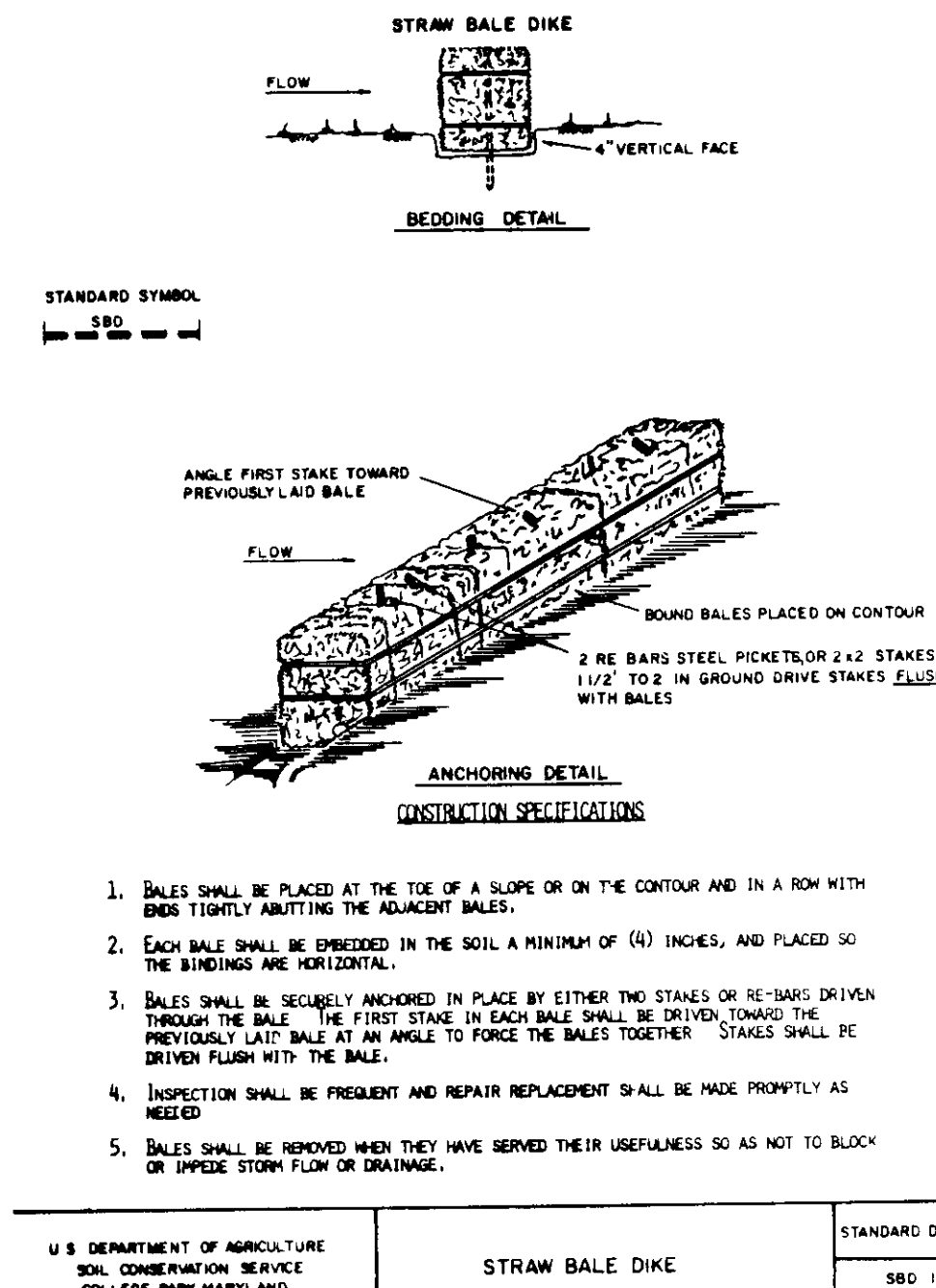
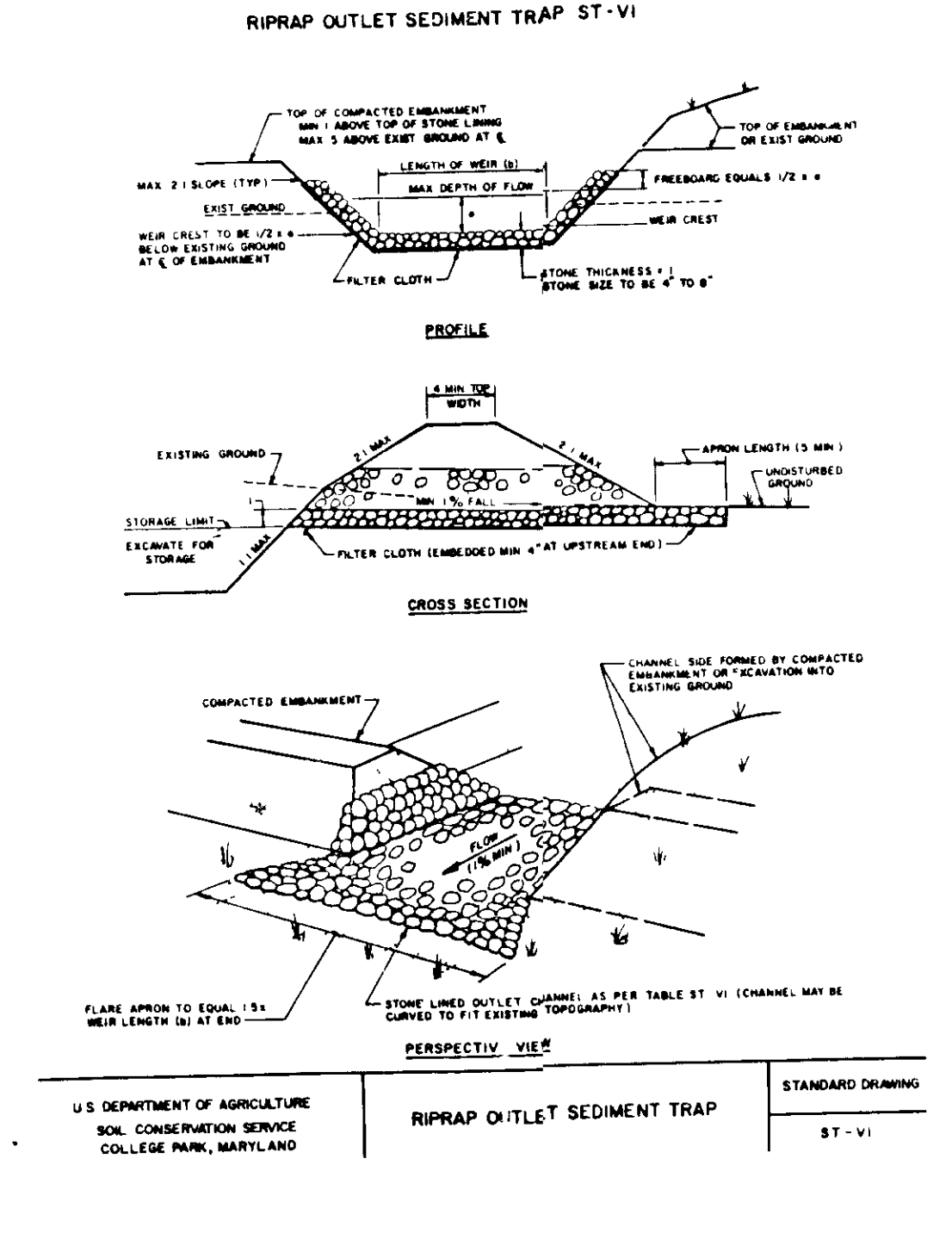
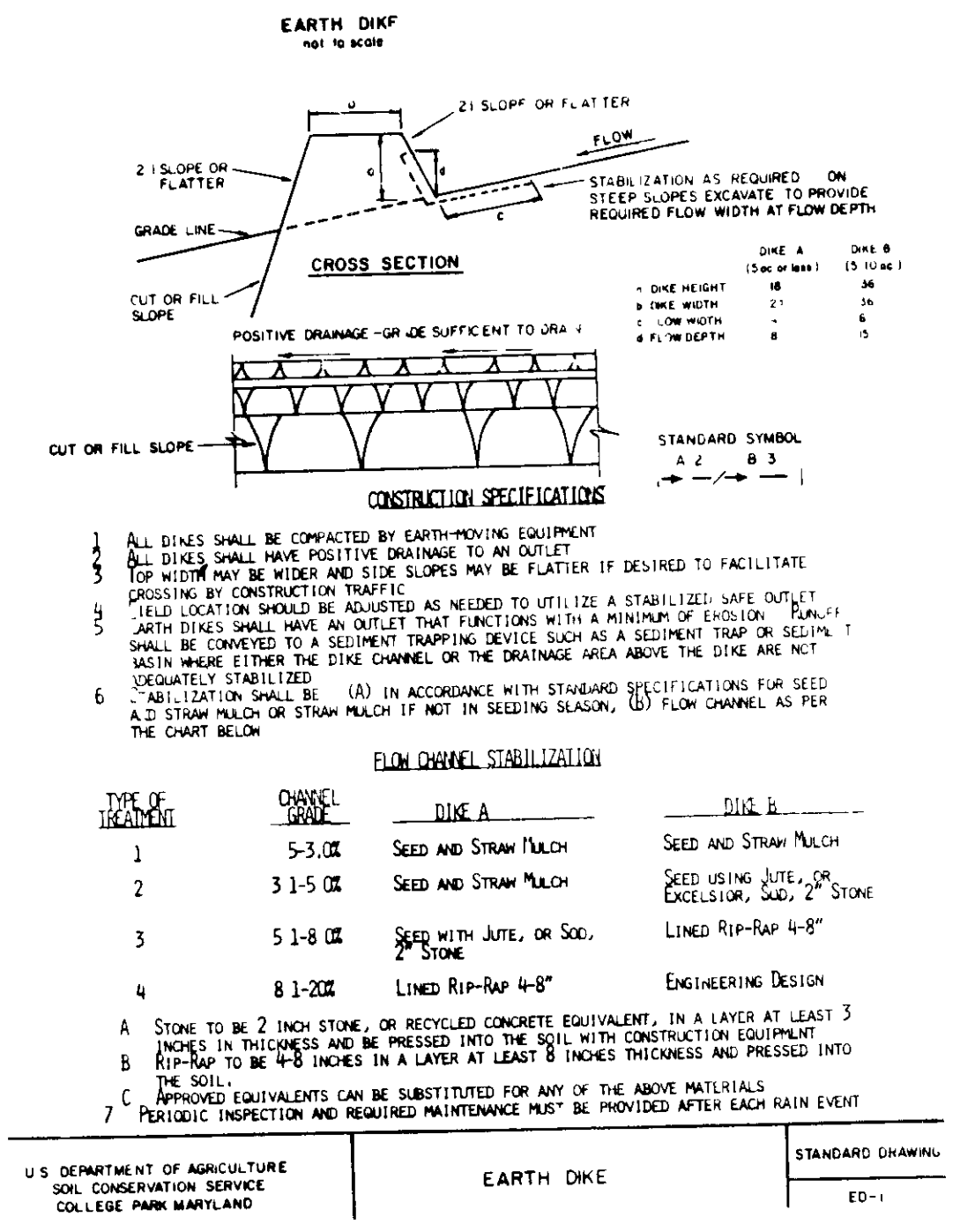
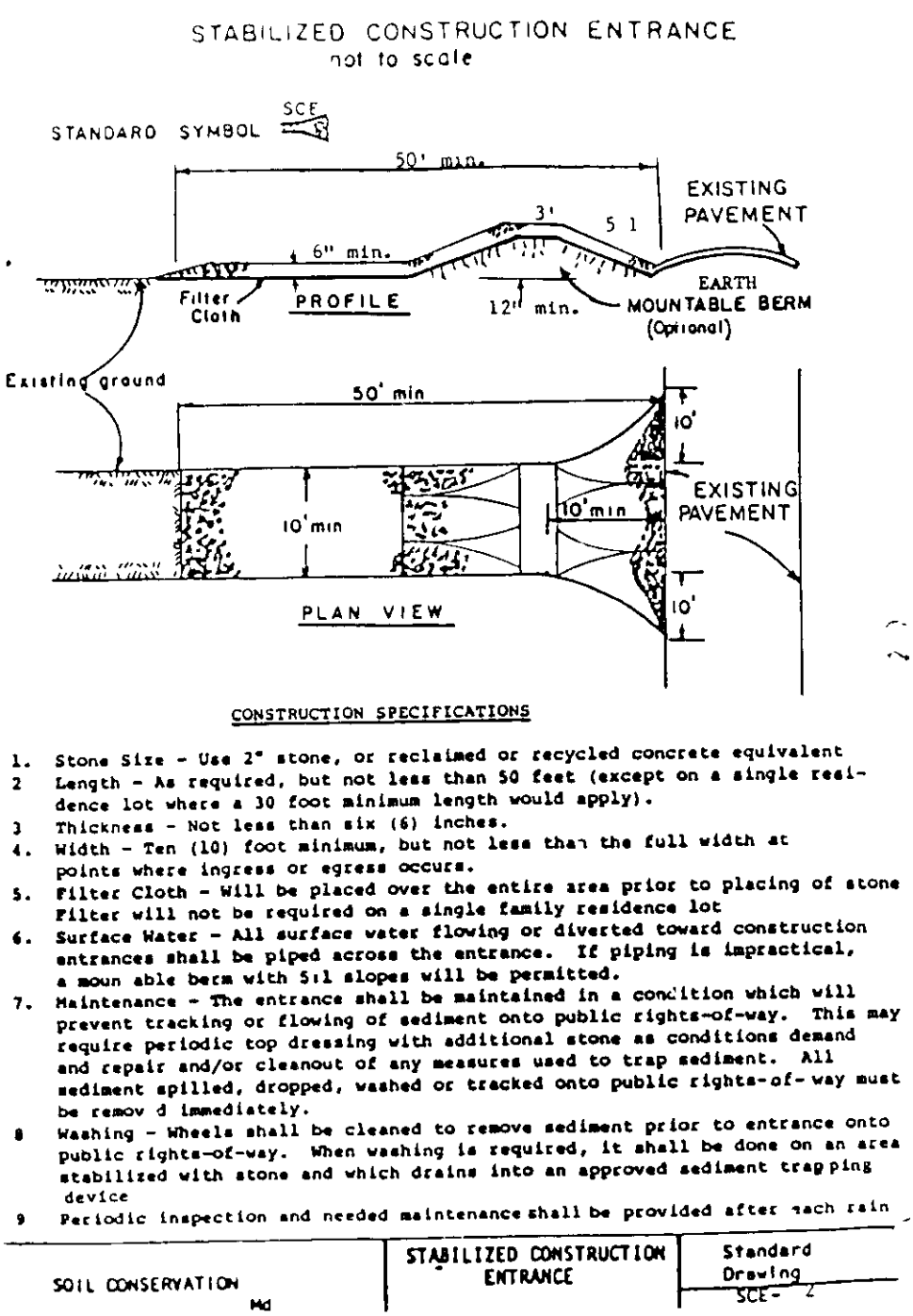
John Echalmere 4/20/88
ENGINEERS SIGNATURE DATE

DEVELOPERS CERTIFICATE
"I/WE CERTIFY THAT ALL DEVELOPMENT & CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 & EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT"

Steven M. ... 10/12/87
DEVELOPERS SIGNATURE DATE

DORSEY RUN PARK
AUTO REPAIR SHOP ADDITION TO SDP-86-255
PROFILE AND CONSTRUCTION
DETAIL SHEET
TAX MAP 48 PARCEL 5 6TH ELECTION DISTRICT HOWARD COUNTY, MD

KIDDE CONSULTANTS, INC.
ENGINEERS • PLANNERS • SURVEYORS
1100 WEST STREET / SUITE 100 / LAUREL, MD 20707
(Main) (301) 953-1821 / (792) 8086 (Bart)
DATE OCT 1987 SCALE AS SHOWN
SHEET 7 OF 9



SEDIMENT CONTROL NOTES

- REFER TO THE MASS GRADING PLAN GP-87- FOR ALL SEDIMENT CONTROL MEASURES FOR THIS PLAN.
- MATERIALS FROM SEWER TRENCH EXCAVATION TO BE PLACED ON UPHILL SIDE OF TRENCH.
- CONTRACTOR TO BACKFILL, COMPACT, & STABILIZE ALL AREAS IMMEDIATELY AFTER INSTALLATION OF THE SEWER PIPE. NO TRENCHES WILL BE LEFT OPEN DURING NON-WORKING HOURS, EXCEPT THAT PORTION WHERE WORK HAS STOPPED.
- ANY SEDIMENT CONTROL MEASURES ENCOUNTERED DURING ROAD, PARKING LOT, & OR PIPE CONSTRUCTION TO BE RETURNED TO ORIGINAL CONDITION IMMEDIATELY UPON COMPLETION OF THAT PORTION OF THE WORK.
- ALL SEDIMENT CONTROL MEASURES FOR THIS PLAN TO BE DONE IN ACCORDANCE WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL & SECTION 219 OF THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS. ALSO, ALL WORK MUST CONFORM TO THE MASS GRADING PLAN, (GP-87-)

CONSTRUCTION SPECIFICATIONS FOR ST-VI

- The 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 or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing.
- All fill slopes shall be 2:1 or flatter, cut slopes 1:1 or flatter.
- Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
- Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level weir crest.
- Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with sections nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
- Stone used in the outlet channel shall be four (4) to eight (8) inches (riprap) to provide a filtering effect. A layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The structure shall be inspected after each rain and repaired as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
- Drainage area for this practice is limited to 15 acres or less.

Riprap Outlet Sediment Trap
ST-VI (for Stone Lined Channel)

Contributing Drainage Area (Acres)	Depth of Channel (Feet)	Length of Trap (Feet)
1	1.5	4.0
2	1.5	5.0
3	1.5	6.0
4	1.5	10.0
5	1.5	12.0
6	1.5	14.0
7	1.5	16.0
8	2.0	10.0
9	2.0	12.0
10	2.0	14.0
11	2.0	16.0
12	2.0	18.0
13	2.0	16.0
14	2.0	18.0
15	2.0	18.0

SEDIMENT CONTROL TRAP SCHEDULE

TRAP NO	1	2
TRAP TYPE	RIP-RAP	RIP-RAP
DRAINAGE AREA	1.3 ACRES	1.0 ACRES
STORAGE, CU FT REQUIRED	2340	1800
PROVIDED	2485	2044
BOTTOM DIM	12X22	5X55
BOTTOM ELEV	188	199
EMBANKMENT ELEV	194	204
OUTLET WIDTH	5	4
OUTLET ELEV	192	203
CLEANOUT ELEV	190	200.5
STORAGE DEPTH	4.0	3.0

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seeded Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding. IF NOT PREVIOUSLY LOOSENEED.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft) and 500 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 500 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 50 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

Seeded Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding. IF NOT PREVIOUSLY LOOSENEED.

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)

Seeding: For periods March 1 thru April 30 and from August 15 thru October 15, seed with 25 bushel per acre of annual type (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

SEDIMENT CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection - 4 Permits to the start of any construction. (992-2437)
- 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.
- Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 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) and (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 w/ Site: 12.7 Acres THIS SUBMISSION = 2.70 AC
Area Disturbed: 17.9 Acres
Area to be roofed or paved: 9.7 Acres
Area to be vegetatively stabilized: 10 Acres
Total Cut: 100 Cu. yds
Total Fill: 100 Cu. yds
Offsite waste/borrow area location: 00
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.

On 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 grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

NOTE: FOR SEQUENCE OF CONSTRUCTIONS, SEE SHEET 8 OF 9

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

James M. [Signature] DIRECTOR DATE 6/18/88

William [Signature] CHIEF BUREAU OF ENGINEERING DATE 4-7-88

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

James [Signature] DATE 6/15/88

COMMUNITY PLANNING AND LAND DEVELOPMENT

[Signature] DATE 6.16.88

OWNER/DEVELOPER

CRYSTAL HILL INVESTMENTS
10005 OLD COLUMBIA ROAD
COLUMBIA, MARYLAND 21046

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James [Signature] COUNTY HEALTH OFFICER DATE 6-7-88

REVIEWED FOR HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS AND MEETS TECHNICAL REQUIREMENT.

James [Signature] 4-28-88
U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

Stephen [Signature] 4/27/88
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

ENGINEERS CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION & 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.

John [Signature] 4/20/88
ENGINEER'S SIGNATURE DATE

DEVELOPERS CERTIFICATE

I WE CERTIFY THAT ALL DEVELOPMENT & CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 & EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

James [Signature] 10/12/87
DEVELOPER'S SIGNATURE DATE

DORSEY RUN PARK

TAX MAP 48 PARCEL 5 6TH ELECTION DISTRICT HOWARD CO., MD

SEDIMENT CONTROL DETAIL SHEET

AUTO REPAIR SHOP ADDITION TO SDP-86-255

KIDDE CONSULTANTS, INC.

ENGINEERS • PLANNERS • SURVEYORS

1100 WEST STREET SUITE 100
WASH DC 20004

DATE OCT, 1987 SCALE AS SHOWN

SHEET 8 OF 9 **SDP-88-71**

APPROVED

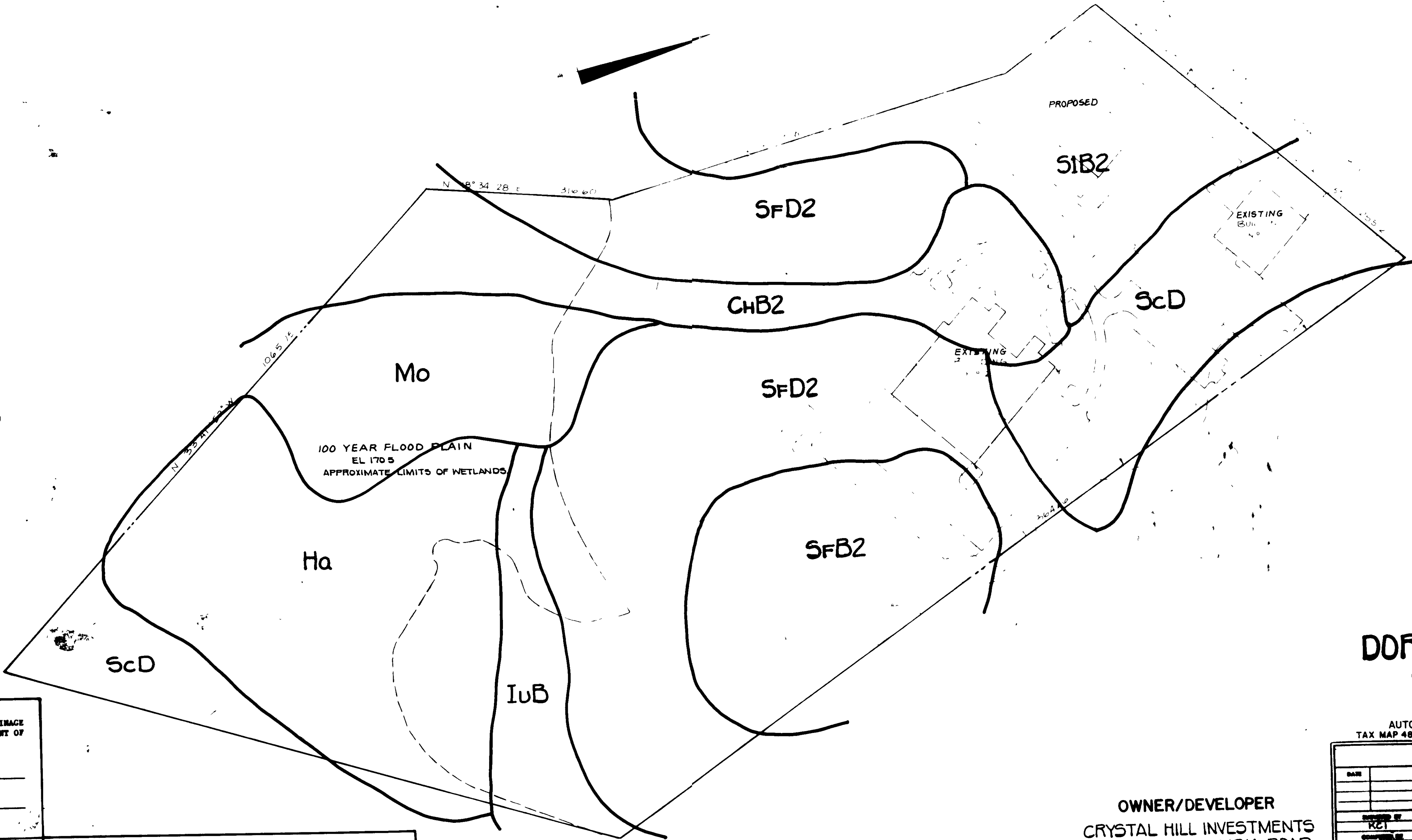
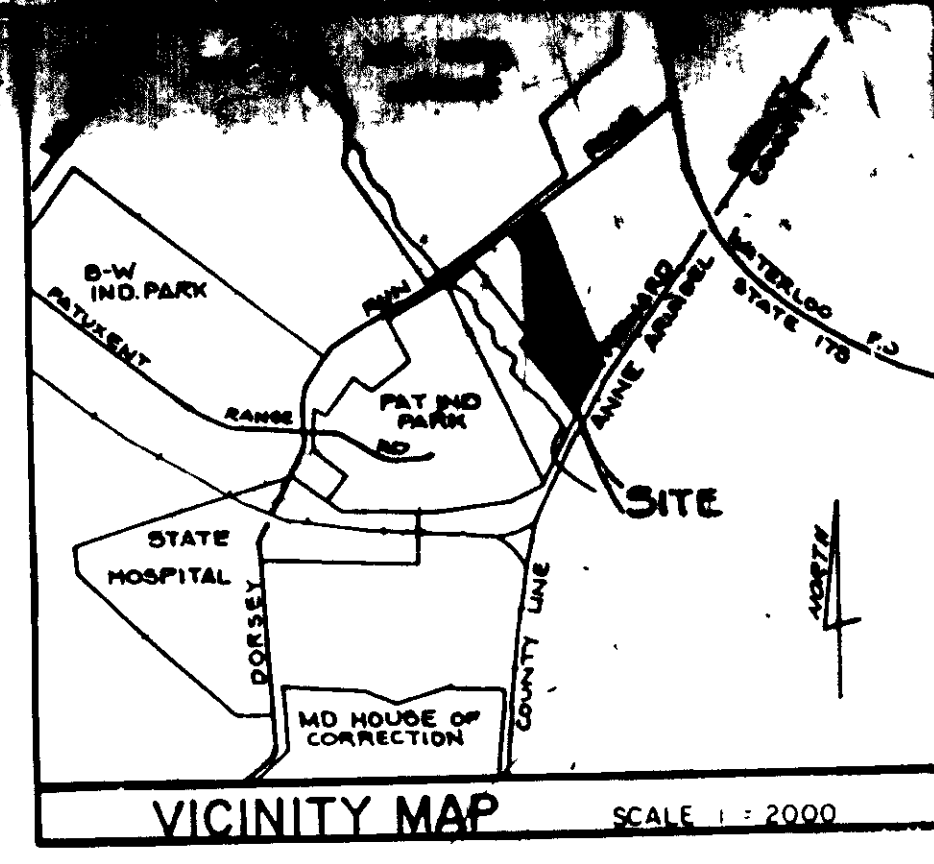
DIVISION OF PLANNING & ZONING

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE 4-12-88

SOIL TYPE	HYDROLOGIC GROUP	DESCRIPTION
S1B2	B	SASSAFRASS LOAM, 1 TO 5 PERCENT SLOPES, MODERATELY ERODED
ScD	B	SANDY AND CLAYEY LAND, MODERATELY ERODED
S1B2	B	SASSAFRASS GRAVELLY SANDY LOAM 10 TO 15 PERCENT SLOPES, MODERATELY ERODED
ChB2	C	CHILLUM-FAIRFAX LOAMS, 1 TO 5 PERCENT SLOPES, MODERATELY ERODED
S1B2	B	SASSAFRASS GRAVELLY SANDY LOAM, 1 TO 5 PERCENT SLOPES, MODERATELY ERODED
IuB	B	IUKA LOAM, LOCAL ALLUVIUM, 1 TO 5 PERCENT SLOPES
Mo	B	MIXED ALLUVIAL LAND
SHa	D	HATBORD SILT LOAM

HYDRIC SOIL TYPE



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICTS TECHNICAL REQUIREMENTS

Joseph Hahn 4-28-88
 HOWARD SOIL CONSERVATION SERVICE DATE

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

Stephen Smith 4/28/88
 HOWARD SOIL CONSERVATION DISTRICT DATE

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

James Hill 5/18/88
 DATE

James Hill 5-2-88
 DATE

OFFICE: BUREAU OF ENGINEERING 068 47100

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Howard Smith 5/18/88
 DATE

Howard Smith 6-5-88
 DATE

DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James Hill 6-7-88
 DATE

COUNTY HEALTH OFFICER

PLAN

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 4-12-88

**DORSEY RUN PARK
 SOILS AREA
 MAP**

OWNER/DEVELOPER
 CRYSTAL HILL INVESTMENTS
 10005 OLD COLUMBIA ROAD
 COLUMBIA, MARYLAND 21046

AUTO REPAIR SHOP ADDITION TO SDP-86-255
 TAX MAP 48 PARCEL 5 6th ELECTION DISTRICT, HOWARD CO., MD

KIDDE CONSULTANTS, INC.

ENGINEERS • PLANNERS • SURVEYORS
 1100 WEST STREET / SUITE 100 / LAUREL, MD 20707
 (Phone) (301) 953-1051 / 702-0000 (Fax)

DATE: SEPT. 1987 AS SHOWN