

GENERAL NOTES

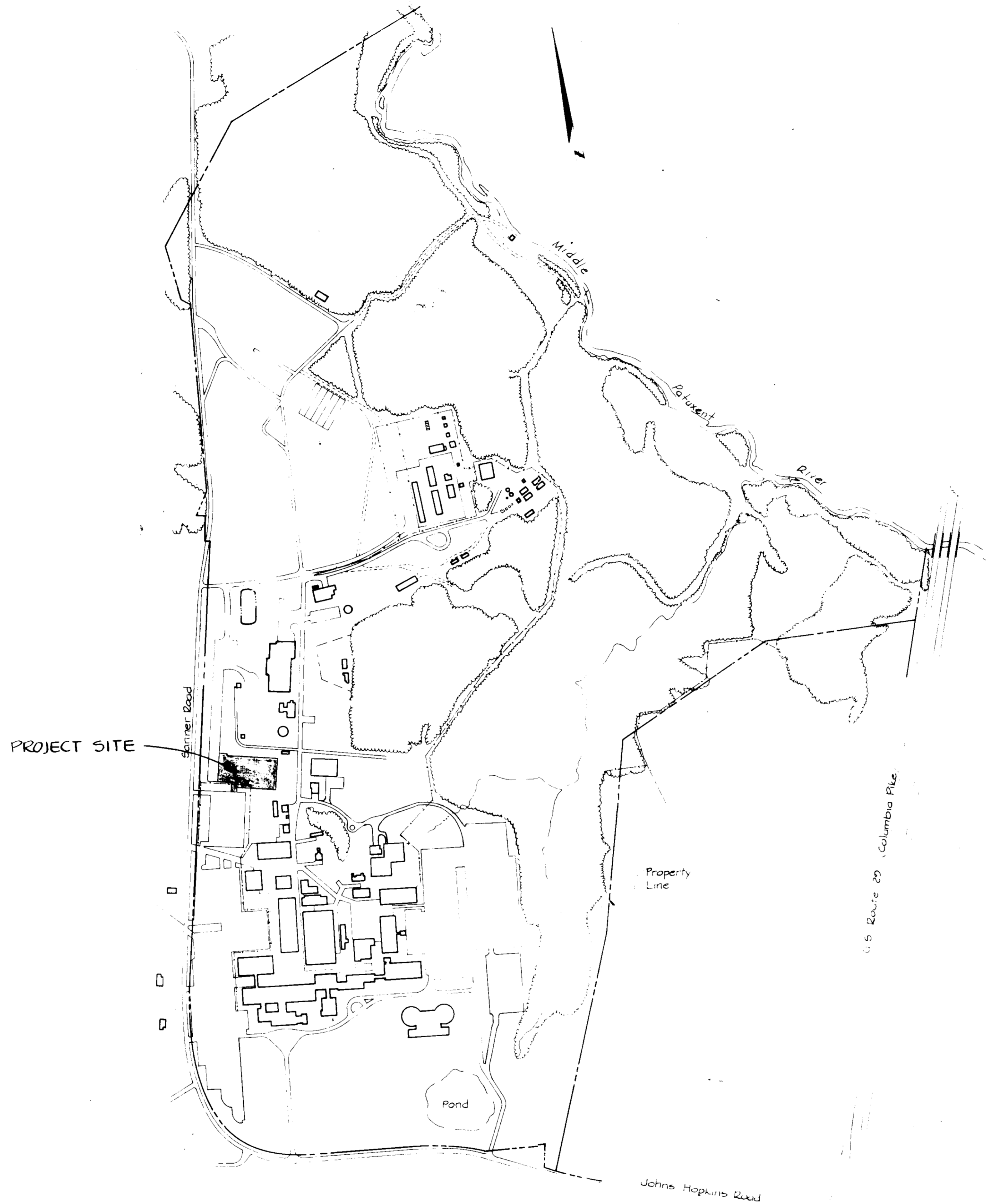
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
2. ELEVATIONS SHOWN ARE BASED ON THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY DATUM. JHU-APL-DATUM - 0.94' = HOWARD COUNTY DATUM.
3. THE CONTRACTOR SHALL CALL MISS UTILITY (301) 559-0100, FIVE DAYS PRIOR TO THE START OF CONSTRUCTION.
4. POLY FILTER X FILTER CLOTH BLANKET OR EQUAL SHALL BE PLACED UNDER ALL STONE RIP RAP.
5. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN AN UNINTERRUPTED SERVICE. ANY DAMAGE BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
6. LANDSCAPING SHALL BE BY JHU-APL.
7. THE CONTRACTOR SHALL CONTACT MR. ARTHUR STUCKI, PLANT ENGINEER, (301) 953-7100 AT LEAST 5 WORKING DAYS PRIOR TO COMMENCING ANY WORK.
8. THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION, 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK, AT 992-2417 OR 2418.
9. ALL DISTURBED SLOPE AREAS TO BE STABILIZED AS SOON AS GRADING IS COMPLETED.
10. STORMWATER MANAGEMENT FOR THIS PROJECT HAS BEEN APPROVED UNDER SDP-83-21.

SITE DATA

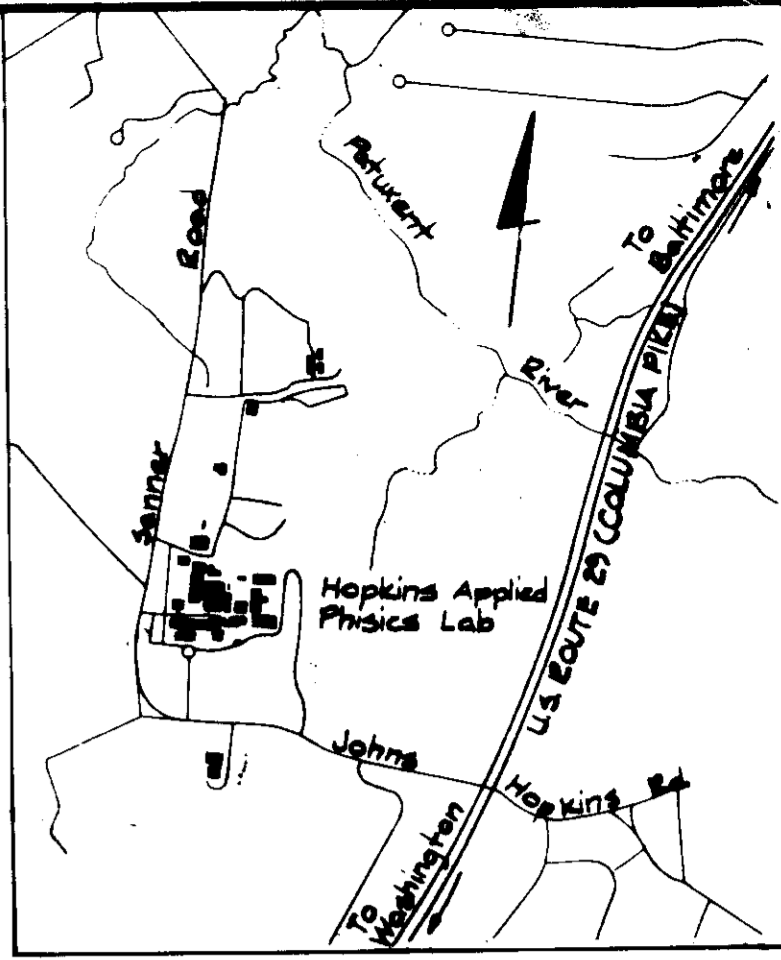
1. ZONING	RURAL, R.
2. SITE AREA	1.9 AC. ±
3. ACREAGE OF ENTIRE PROPERTY	366 AC.
4. EXISTING BUILDING COVERAGE	14.0 AC. = 3.82%
5. TOTAL NUMBER OF EXISTING EMPLOYEES/ PERSONNEL ON THE ENTIRE SITE	3,100
6. TOTAL NUMBER OF PARKING SPACES REQUIRED	2,258
7. TOTAL NUMBER OF PARKING SPACES PROVIDED	
EXISTING SPACES	2,621
PROPOSED SPACES	182
TOTAL EXISTING AND PROPOSED	2,809

SHEET INDEX

1. COVER SHEET
2. GRADING PLAN
3. ROAD AND UTILITY PLAN
4. PROFILES, DRAINAGE AREA MAP
5. SEDIMENT CONTROL PLAN
6. SEDIMENT CONTROL NOTES, DETAILS



LOCATION PLAN
Scale 1" = 400'



VICINITY MAP
Scale 1" = 2000'

ADDRESS CHART	
PARCEL NUMBER	STREET ADDRESS
PARCEL 123	11100 JOHNS HOPKINS ROAD

SUBDIVISION NAME		SECT. / AREA	LOT / PARCEL		
J.H.U. APPLIED PHYSICS LAB		N/A	123		
PLAT# OR L/F	BLOCK#	ZONE	TAX / ZONE MAP	ELEC. DIST.	CENSUS TR.
234/304	16	R	41	5TH	6051
WATER CODE		SEWER CODE			
E-21		6480000			

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

Joseph Byler 10-9-84
COUNTY HEALTH OFFICER

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

Wm. F. Nummy DATE: 10-1-86
DIRECTOR

John J. Ryan DATE: 10-1-86
CHIEF, BUREAU OF ENGINEERING

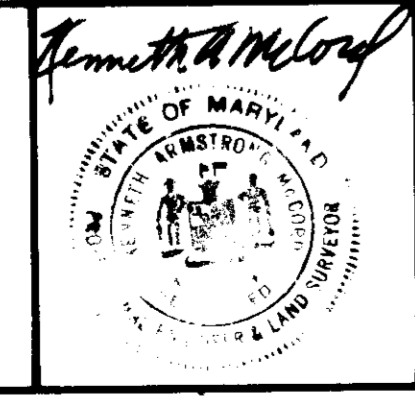
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

John G. Hamer DATE: 10-1-86
PLANNING DIRECTOR

John W. Mendenhall DATE: 10-1-86
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

RECEIVED
DIVISION OF LAND DEVELOPMENT
AND ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 9-17-86
M. J. Mendenhall

WHITMAN, BEQUARDT AND ASSOCIATES
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND
21218



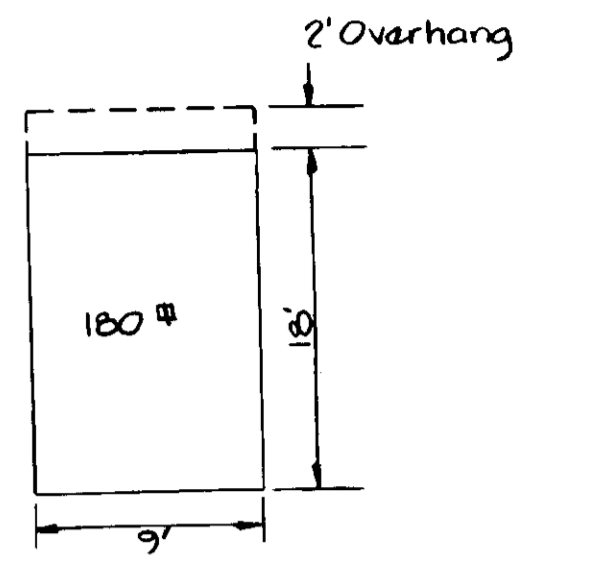
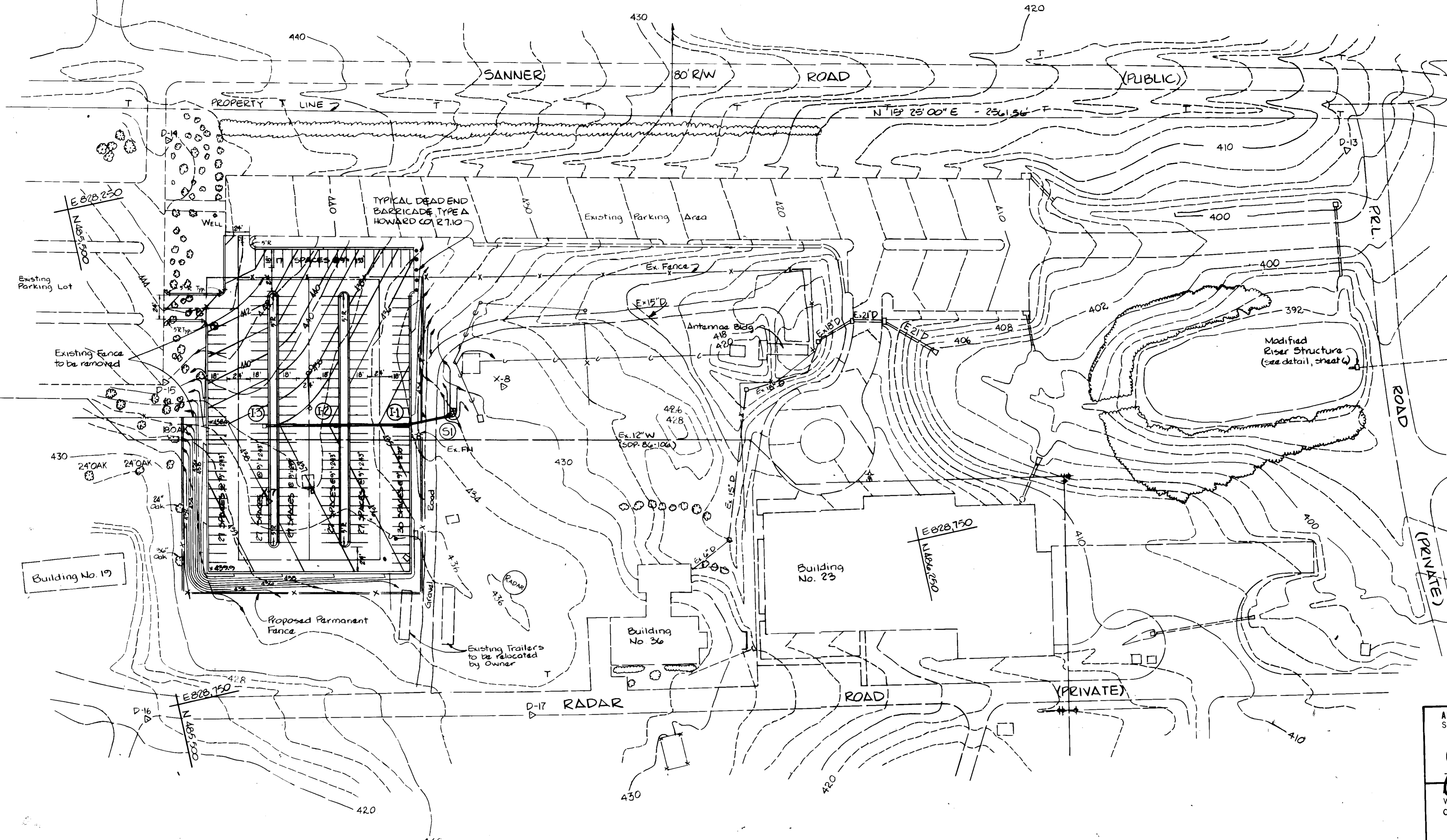
APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY
Johns Hopkins Road, Howard County, Maryland
Approved For The University By:
John D. ...
Date 9 July 1986 Title Assoc. Director

**SPACE INTEGRATION BUILDING
PARKING LOT EXTENSION**
PARKING LOT ADDITION TO SDP-83-215 AND SDP-86-262
THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY
11100 Johns Hopkins Road
Laurel, Maryland 20707

COVER SHEET
Fifth Election District
Tax Map 41
Howard County, MD
Parcel 123

REVISIONS
SCALE: AS SHOWN
SHEET NO. 1
OF 6
DATE: 7-8-86

DRAWING
1
SDP-87-07



TYPICAL PARKING SPACE DETAIL
No Scale

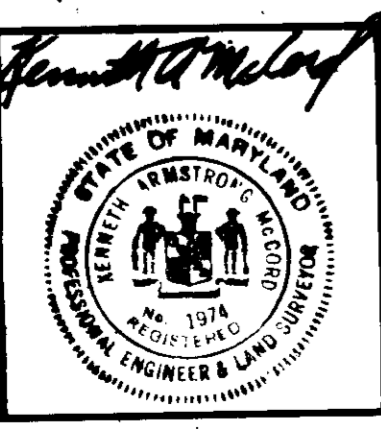
Note: Handicap parking spaces for Building No. 23 provided under SDP-83-21.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
James Byler DATE: 10-2-86
 COUNTY HEALTH OFFICER
 APPROVED: STORM DRAINAGE SYSTEMS, ROADS, AND PUBLIC WATER AND SEWERAGE SYSTEMS - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
John F. Numa DATE: 10-1-86
 DIRECTOR
James B. Kelly DATE: 10-2-86
 CHIEF, BUREAU OF ENGINEERING
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
Donald L. Smith DATE: 10-10-86
 PLANNING DIRECTOR
John W. Mendenhall DATE: 10-10-86
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

DIVISION OF LAND DEVELOPMENT AND ZONING
 ZONING OFFICE
 HOWARD COUNTY
 DATE: 9-17-86
mm/mm



WHITMAN, REQUARDT AND ASSOCIATES
 2315 SAINT PAUL STREET
 BALTIMORE, MARYLAND
 21218



APPLIED PHYSICS LABORATORY
 THE JOHNS HOPKINS UNIVERSITY
 Johns Hopkins Road Howard County, Maryland
 Approved For The University By: *Cy Smith*
 Date 9 July 1986 THE Assoc. Director

SPACE INTEGRATION BUILDING
 PARKING LOT EXTENSION
 PARKING LOT ADDITION TO SDP-83-215 AND SDP-86-262
 THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY
 11100 Johns Hopkins Road
 Laurel, Maryland 20707

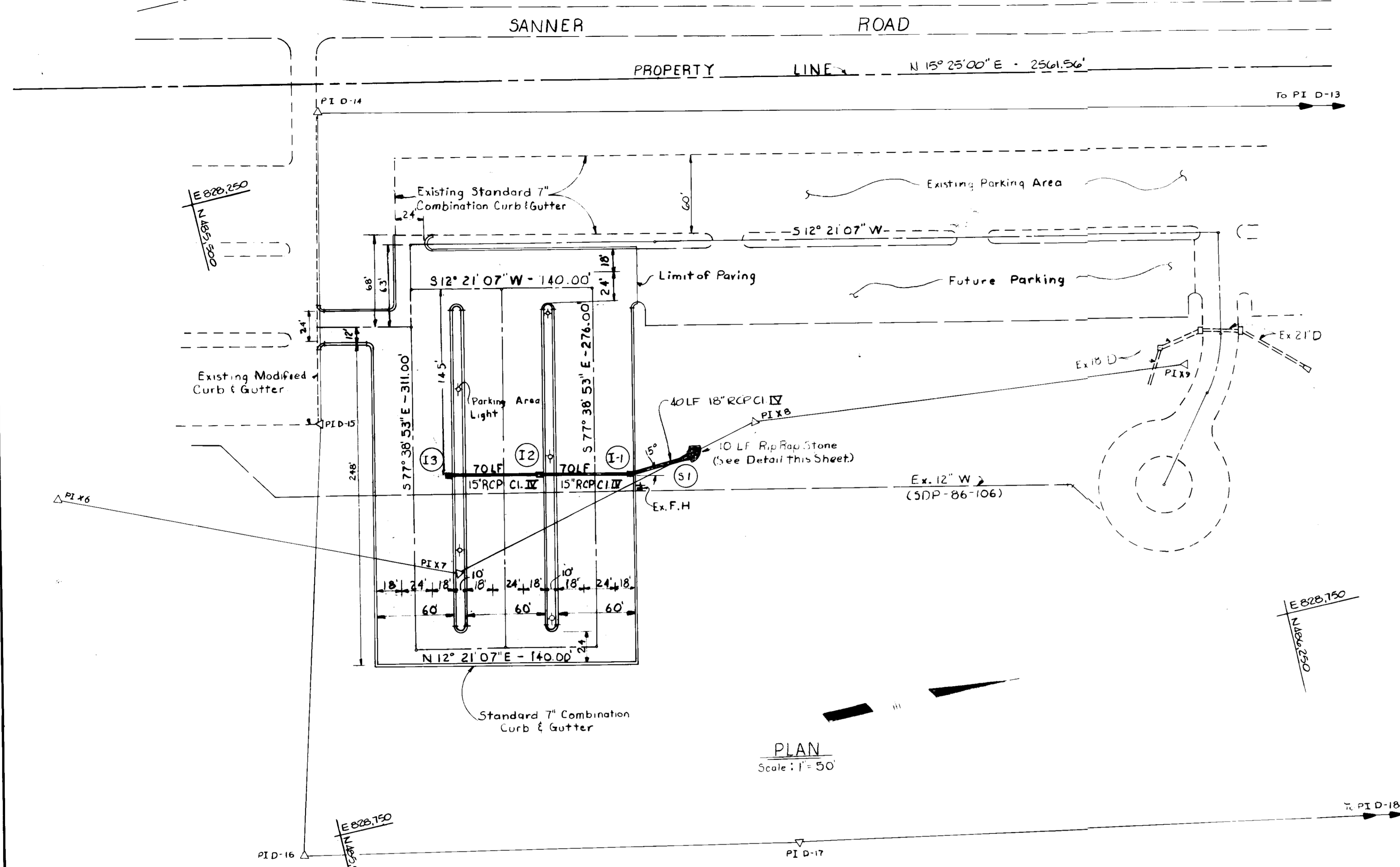
GRADING PLAN
 Fifth Election District
 Tax Map 41
 Howard County, MD
 Parcel 123

REVISIONS
 SCALE: 1" = 50'
 SHEET NO. 2
 QF 6
 DATE: 7-8-86

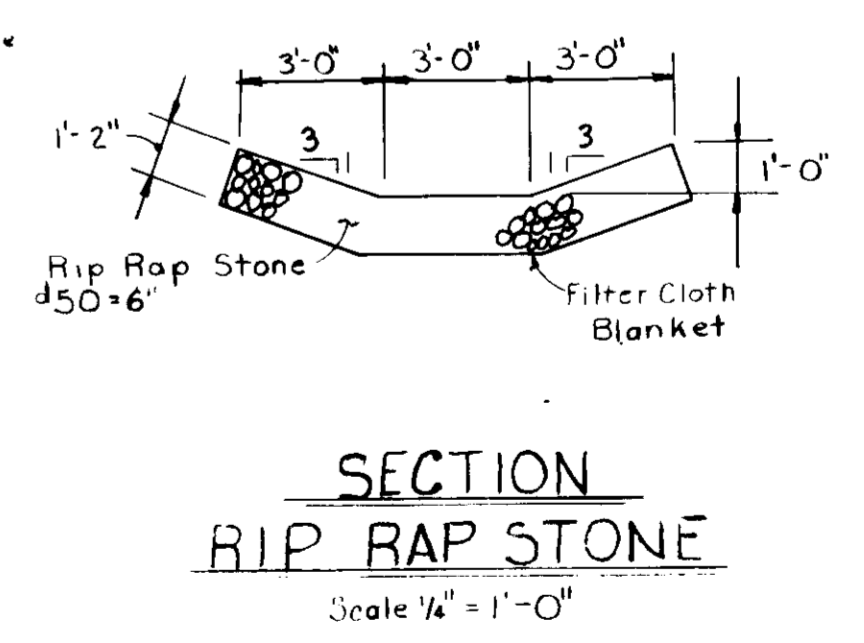
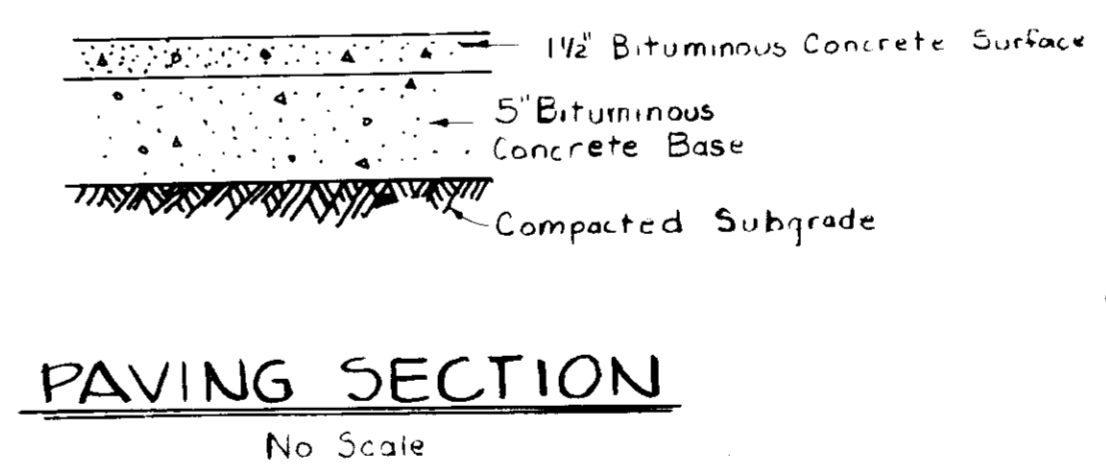
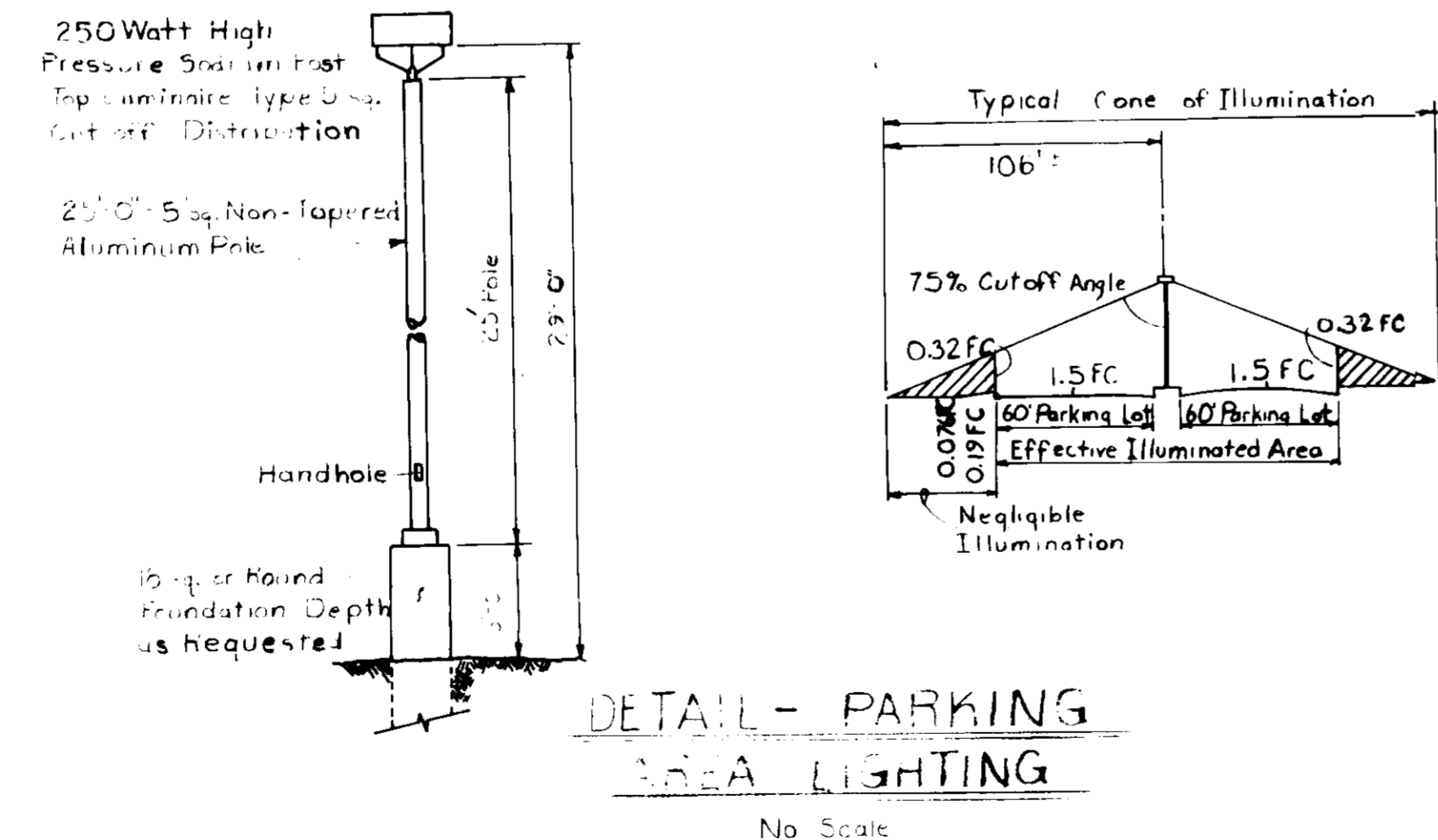
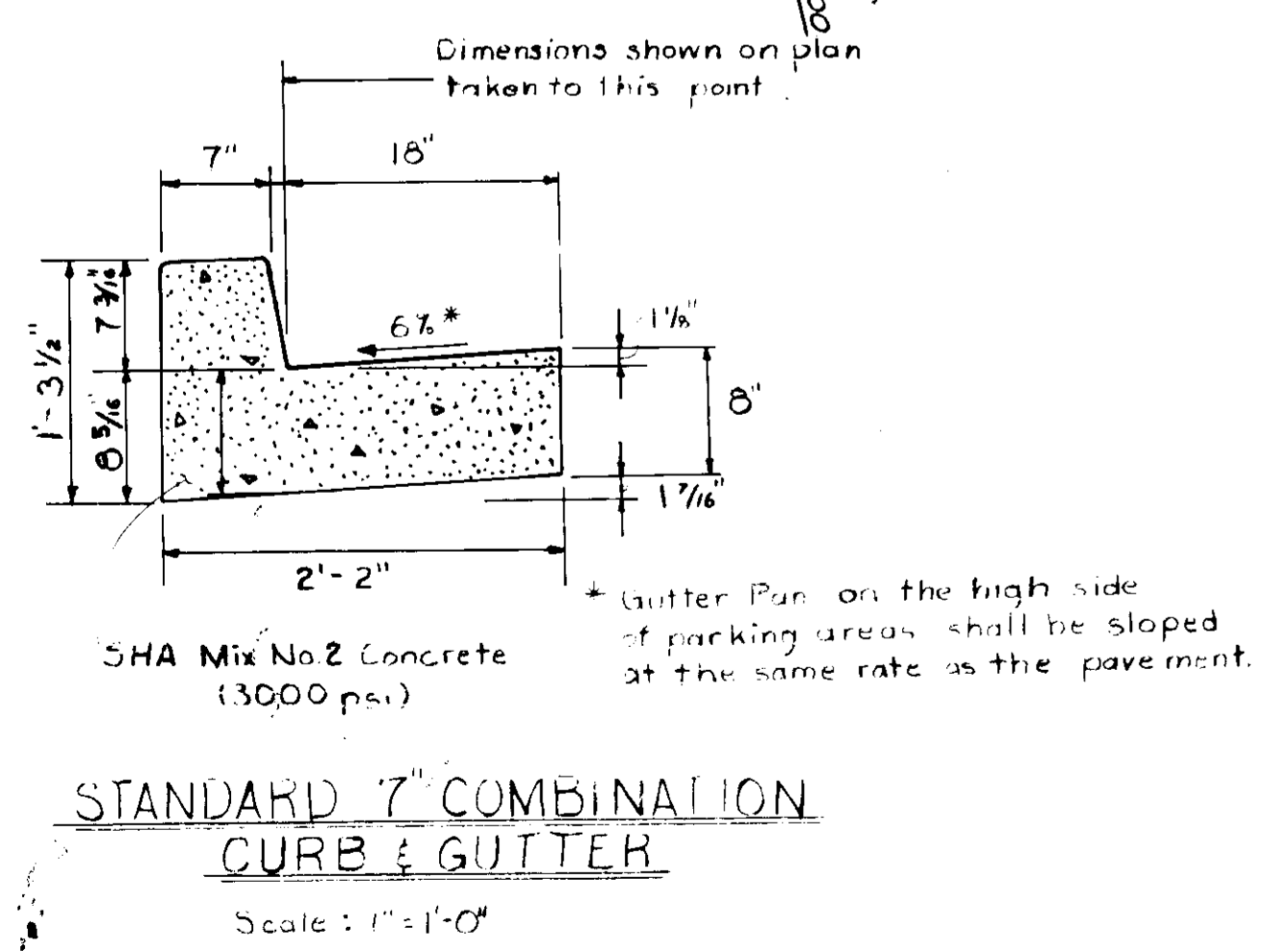
DRAWING
 2
 SDP-87-07

STORM DRAIN STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	Top Elev.	Inv. In.	Inv. Out.	REMARKS
I1	S	See Plan, this sheet	435.00	430.15	429.90	5D.422 Std. Grate
I2	S	See Plan, this sheet	436.40	431.75	431.55	5D.422 Std. Grate
I3	S	See Plan, this sheet	437.80	—	433.15	5D.422 Std. Grate
S1	18" Precast	See Plan, this sheet	—	429.50	—	5D.551

NOTES:
 1. All internal island radii are 5' unless otherwise indicated.
 2. All transition between Standard and Modified Curb and Gutter are to be 5' minimum.
 3. Internal access roads and parking lots are to be private.



PLAN
Scale: 1" = 50'



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

John G. ... DATE: 10-9-86
 COUNTY HEALTH DEPARTMENT

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

Shirley F. ... DATE: 10-8-86
 DIRECTOR

... DATE: 10-8-86
 CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

... DATE: 10-10-86
 PLANNING DIRECTOR

... DATE: 10-10-86
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

WHITMAN, REQUARDT AND ASSOCIATES
 2315 SAINT PAUL STREET
 BALTIMORE, MARYLAND
 21218

APPLIED PHYSICS LABORATORY
 THE JOHNS HOPKINS UNIVERSITY
 Johns Hopkins Road, Howard County, Maryland
 Approved For The University By: *O. J. Smith*
 Date: 9 July 1980
 ASST. DIRECTOR

**SPACE INTEGRATION BUILDING
 PARKING LOT EXTENSION**
 PARKING LOT ADDITION TO SDP-83-215 AND SDP-86-262
 THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY
 11100 Johns Hopkins Road
 Laurel, Maryland 20707

ROADWAY AND UTILITY PLAN
 Fifth Election District
 Tax Map 41
 Howard County, MD
 Parcel 123

REVISIONS

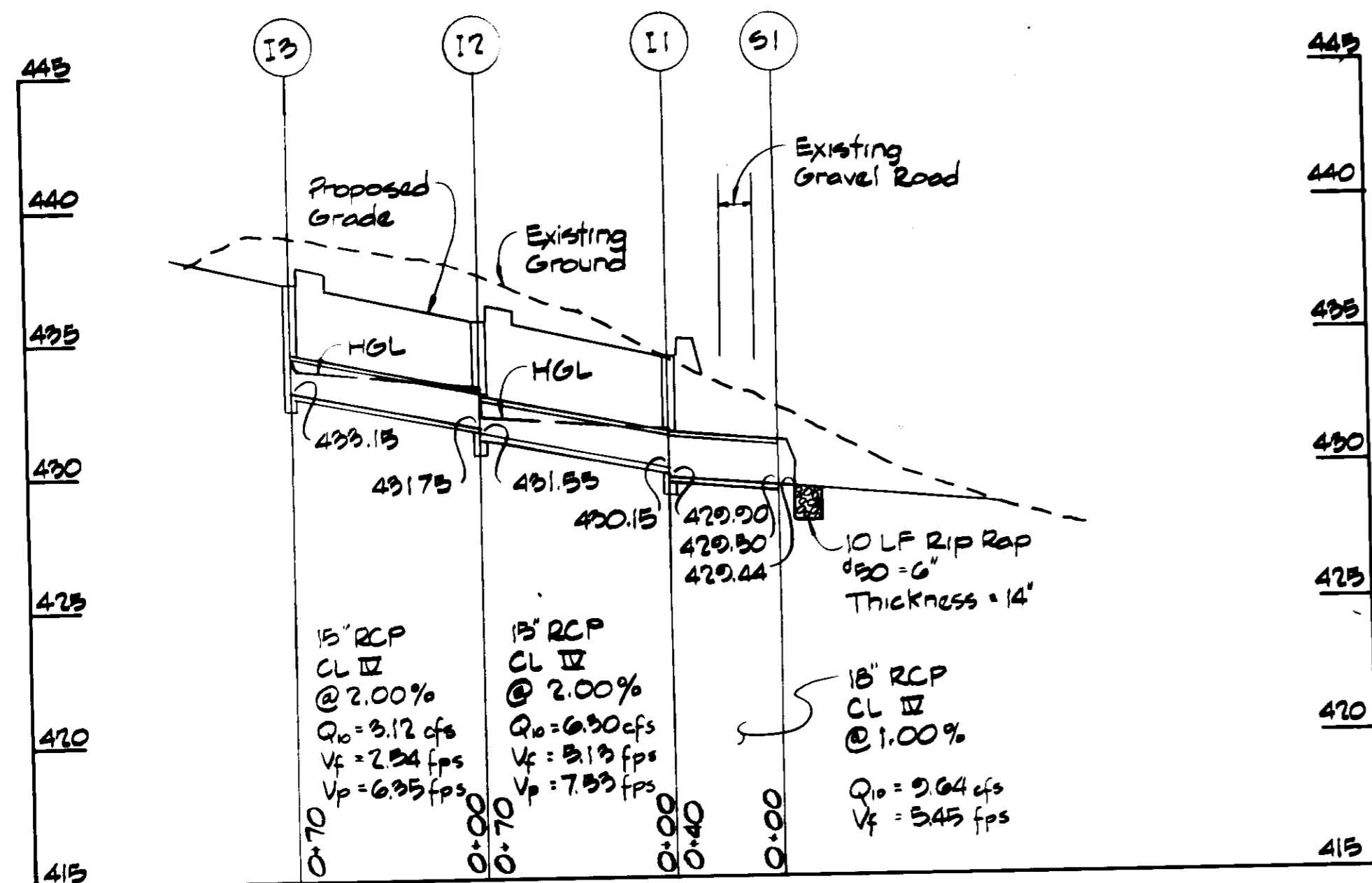
SCALE AS SHOWN

SHEET NO. 3
 OF 6

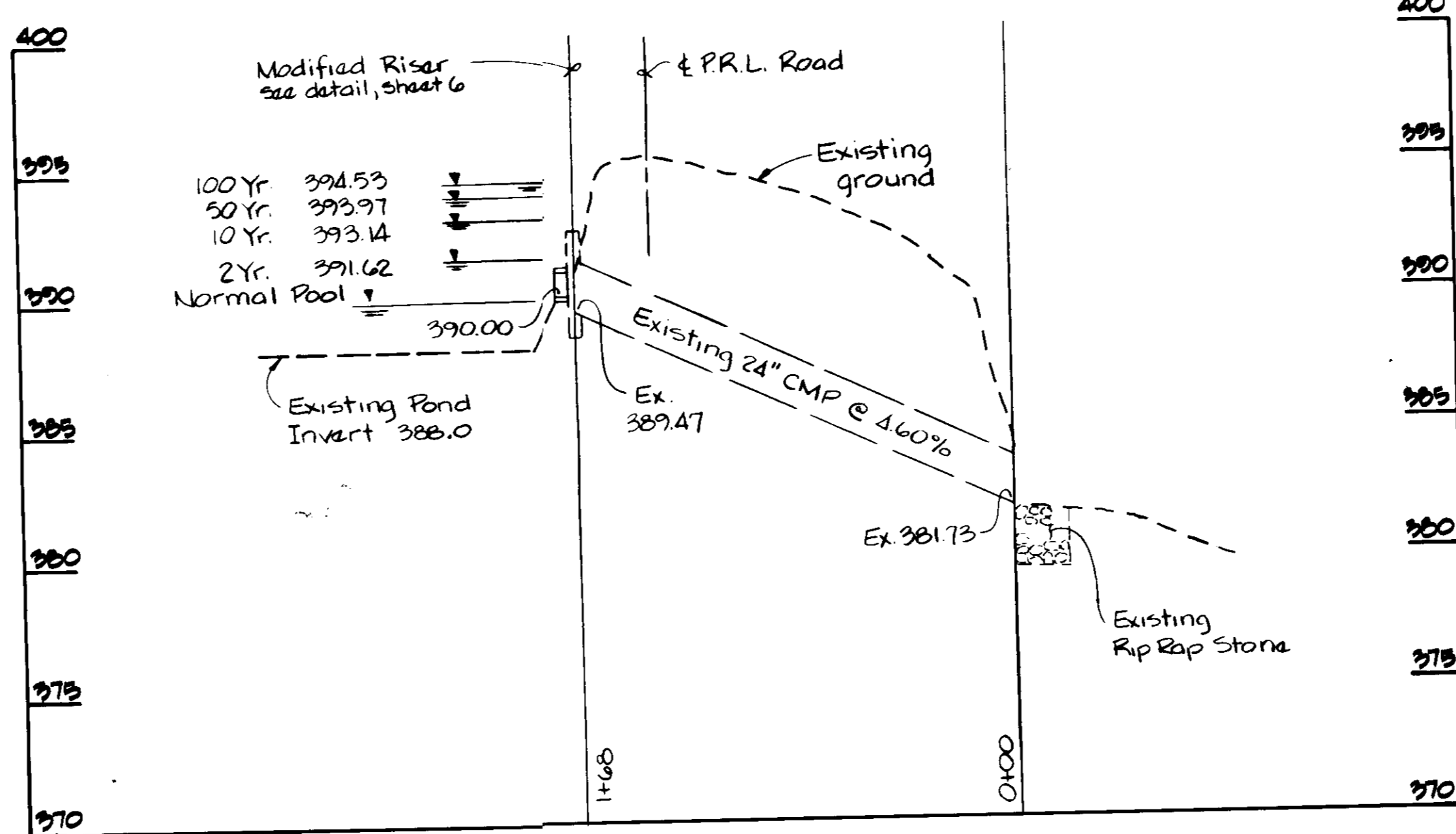
DATE 7-8-86

DRAWING
 3

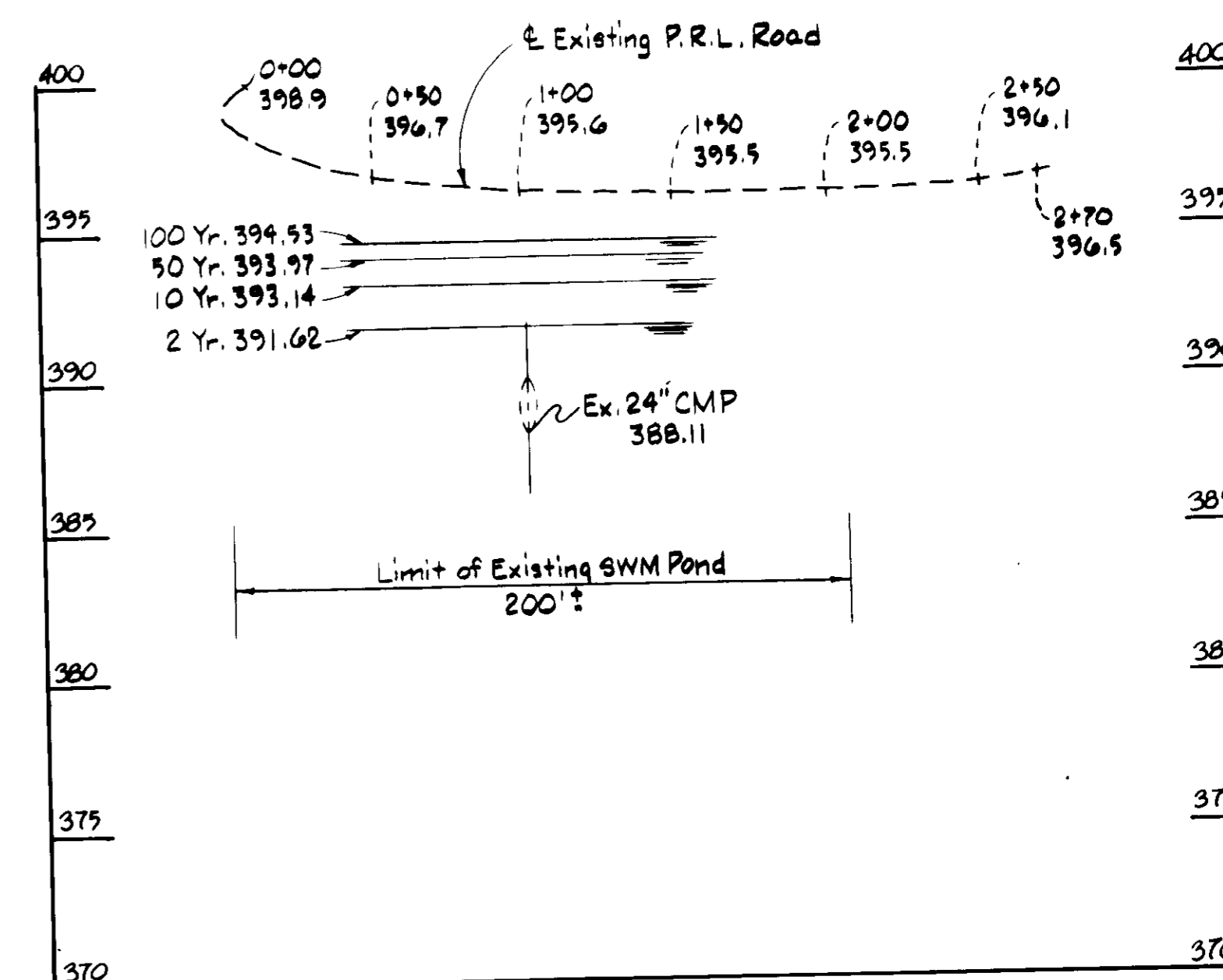
SDP-87-07



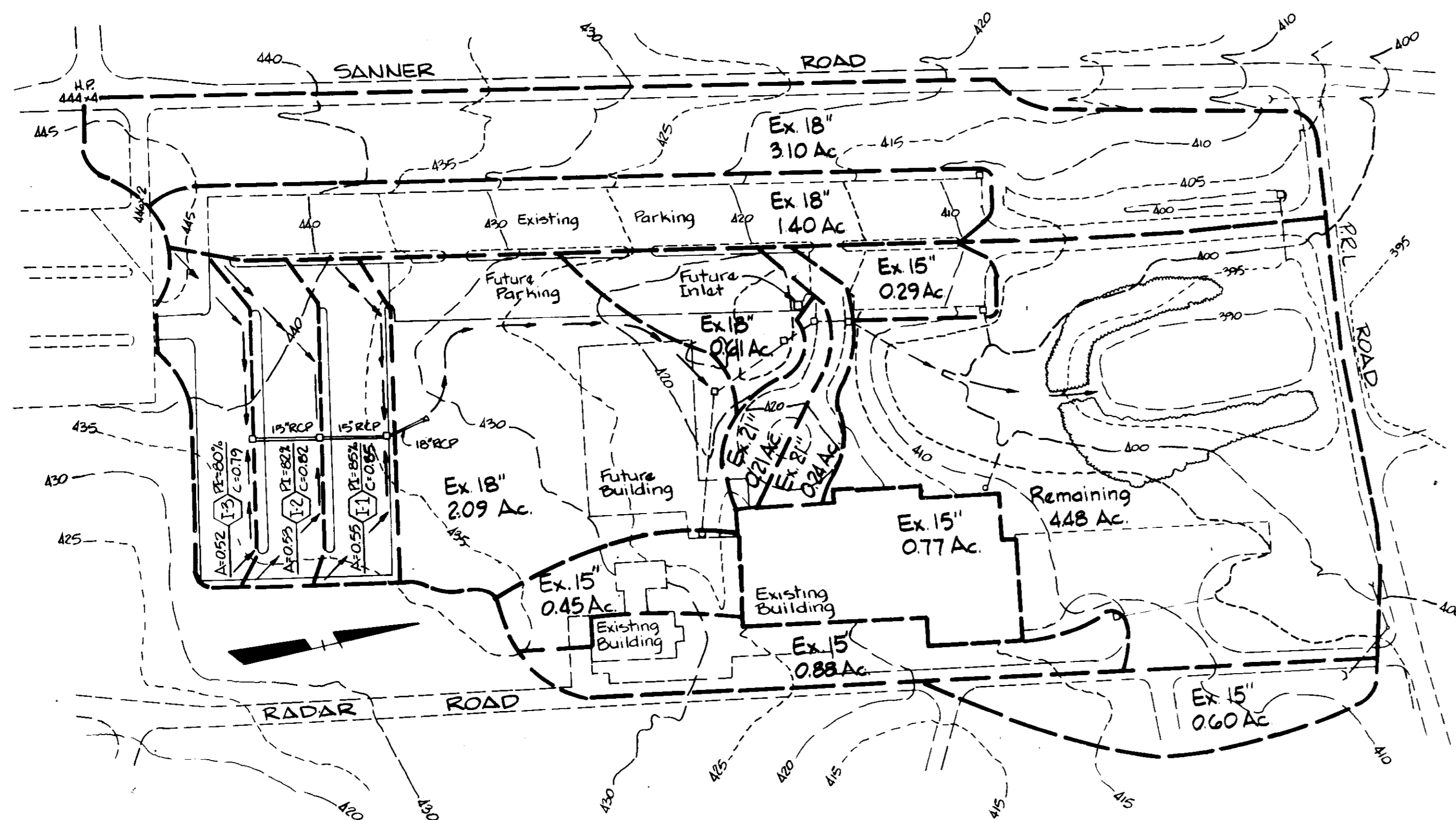
STORM DRAIN PROFILE
Scale: 1" = 50' Hor.
1" = 5' Vert.



PRINCIPLE SPILLWAY PROFILE
Scale: 1" = 50' Hor.
1" = 5' Vert.



PROFILE ALONG P.R.L. ROAD
Scale: 1" = 50' H
1" = 5' V



DRAINAGE AREA MAP
Scale: 1" = 100'

Description	Area (Ac)	% Imp	C	Tc (Min.)
Inlet 1	0.55	85	0.85	6.9
Inlet 2	0.53	82	0.82	7.3
Inlet 3	0.52	80	0.79	7.5
Ex. 15" D	0.60	33	0.45	13.4
Ex. 15" D	0.88	37	0.50	12.9
Ex. 15" D	0.77	95	0.95	5.6
Ex. 15" D	0.45	20	0.28	15.0
Ex. 15" D	0.29	85	0.85	6.9
Ex. 18" D	2.09	8	0.19	16.5
Ex. 18" D	0.61	17	0.26	13.4
Ex. 18" D	1.40	80	0.80	7.5
Ex. 18" D	3.10	16	0.26	15.5
Ex. 21" D	0.21	80	0.80	7.5
Ex. 21" D	0.24	75	0.75	8.1
Pond	4.48	45	0.55	11.9

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

John F. Adams DATE: 10-9-86
COUNTY HEALTH OFFICER

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

Walter F. Nemy DATE: 10-1-86
DIRECTOR

William E. Ryan DATE: 10-8-86
CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

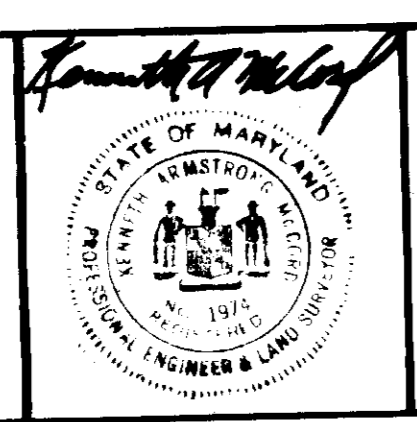
Thomas G. Harris DATE: 10-10-86
PLANNING DIRECTOR

John W. Muschauer DATE: 10-10-86
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: DIVISION OF LAND DEVELOPMENT AND ZONING

DATE: 9-17-86
HMM

WHITMAN BREQUARDT AND ASSOCIATES
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND
21218



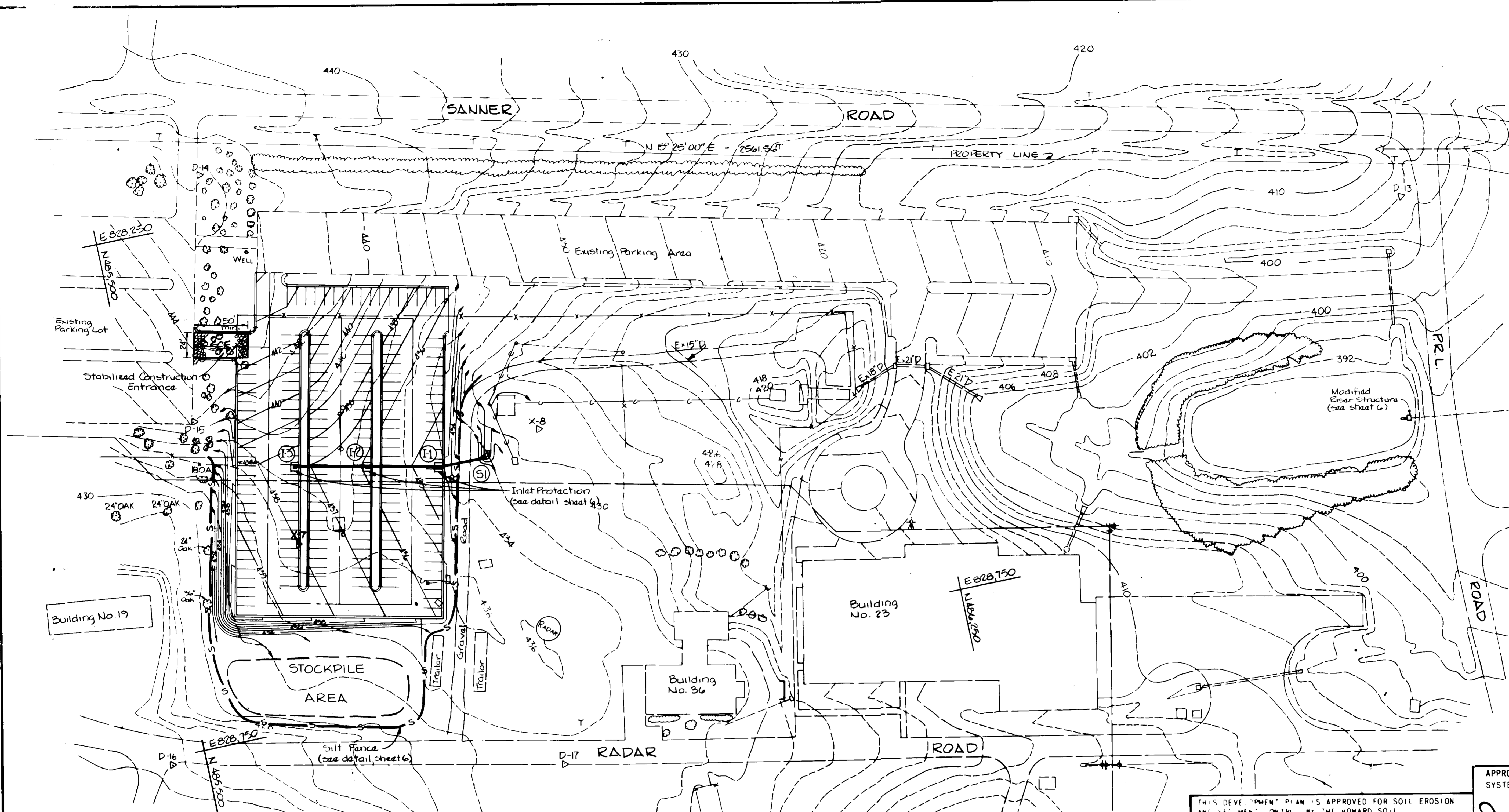
APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY
Johns Hopkins Road, Howard County, Maryland
Approved For The University By: *Op. Smith*
Date: 9 July 1986 Title: Asst. Director

SPACE INTEGRATION BUILDING
PARKING LOT EXTENSION
PARKING LOT ADDITION TO SDP-83-215 AND SDP-86-262
THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY
11100 Johns Hopkins Road
Laurel, Maryland 20707

PROFILES, DRAINAGE AREA MAP
Fifth Election District
Tax Map 41
Howard County, MD.
Parcel 123

REVISIONS
SCALE AS SHOWN
SHEET NO. 4
QF 6
DATE 7-8-86

DRAWING
4
SDP-87-01



- NOTES:**
1. Inlet Protection to be provided around inlets 11, 12, 13 after rough grading and prior to the paving operation.
 2. At completion of paving operation remove storm inlet protection.
 3. When all disturbed areas have been properly stabilized, silt fence may be removed.

APPROVED:
 DIVISION OF PUBLIC WORKS
 HOWARD COUNTY
 DATE: 9-17-86
M. J. HARRIS

RESPONSIBLE PERSONNEL CERTIFICATION
 I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

O. J. Smith 9 July 1986
 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."

Kenneth A. McLeod 7/9/86
 SIGNATURE OF ENGINEER DATE

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

APPROVED: *Stephen R. Shale* 10/2/86
 HOWARD S.C.D. DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS

SIGNATURE: *James M. Nelson* DATE 10-3-86
 U.S. SOIL CONSERVATION SERVICE

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 DEEMED NECESSARY."

O. J. Smith 9 July 1986
 SIGNATURE OF DEVELOPER DATE

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

James R. Baker 10-9-86
 COUNTY HEALTH OFFICER DATE

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

DIRECTOR _____ DATE _____
James R. Baker 10-9-86
 BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Thomas J. Harris 10-10-86
 PLANNING DIRECTOR DATE
John W. Muschman 10-9-86
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

WHITMAN, REOUARDT AND ASSOCIATES
 2315 SAINT PAUL STREET
 BALTIMORE, MARYLAND
 21218

APPLIED PHYSICS LABORATORY
 THE JOHNS HOPKINS UNIVERSITY
 Johns Hopkins Road Howard County, Maryland
 Approved For The University By *O. J. Smith*
 Date 9 July 1986 Title *Asst. Director*

**SPACE INTEGRATION BUILDING
 PARKING LOT EXTENSION**
 PARKING LOT ADDITION TO SDP-83-215 AND SDP-86-262
 THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY
 11100 Johns Hopkins Road
 Laurel, Maryland 20707

SEDIMENT CONTROL PLAN
 Fifth Election District
 Tax Map 41
 Howard County, MD.
 Parcel 123

REVISIONS

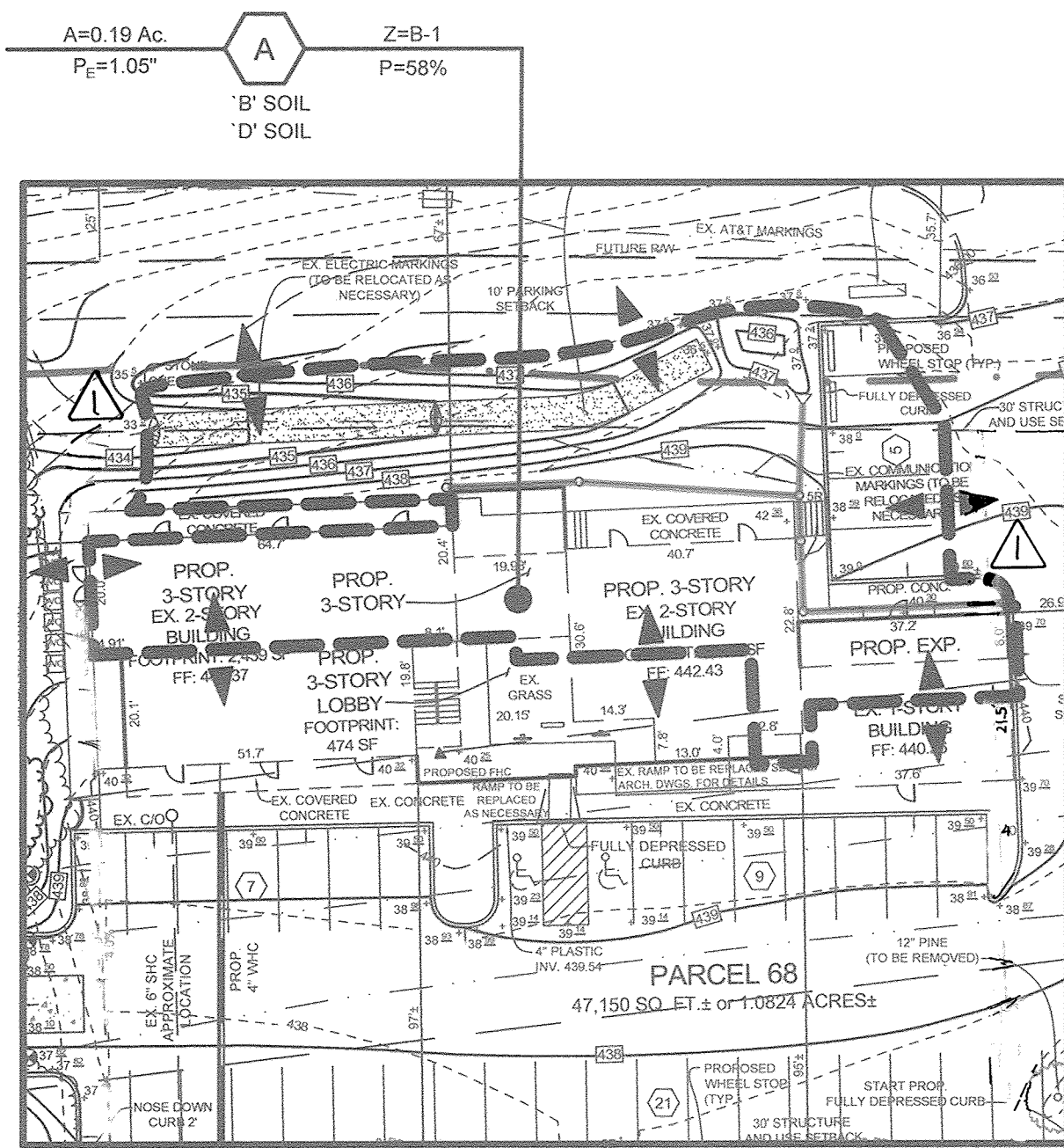
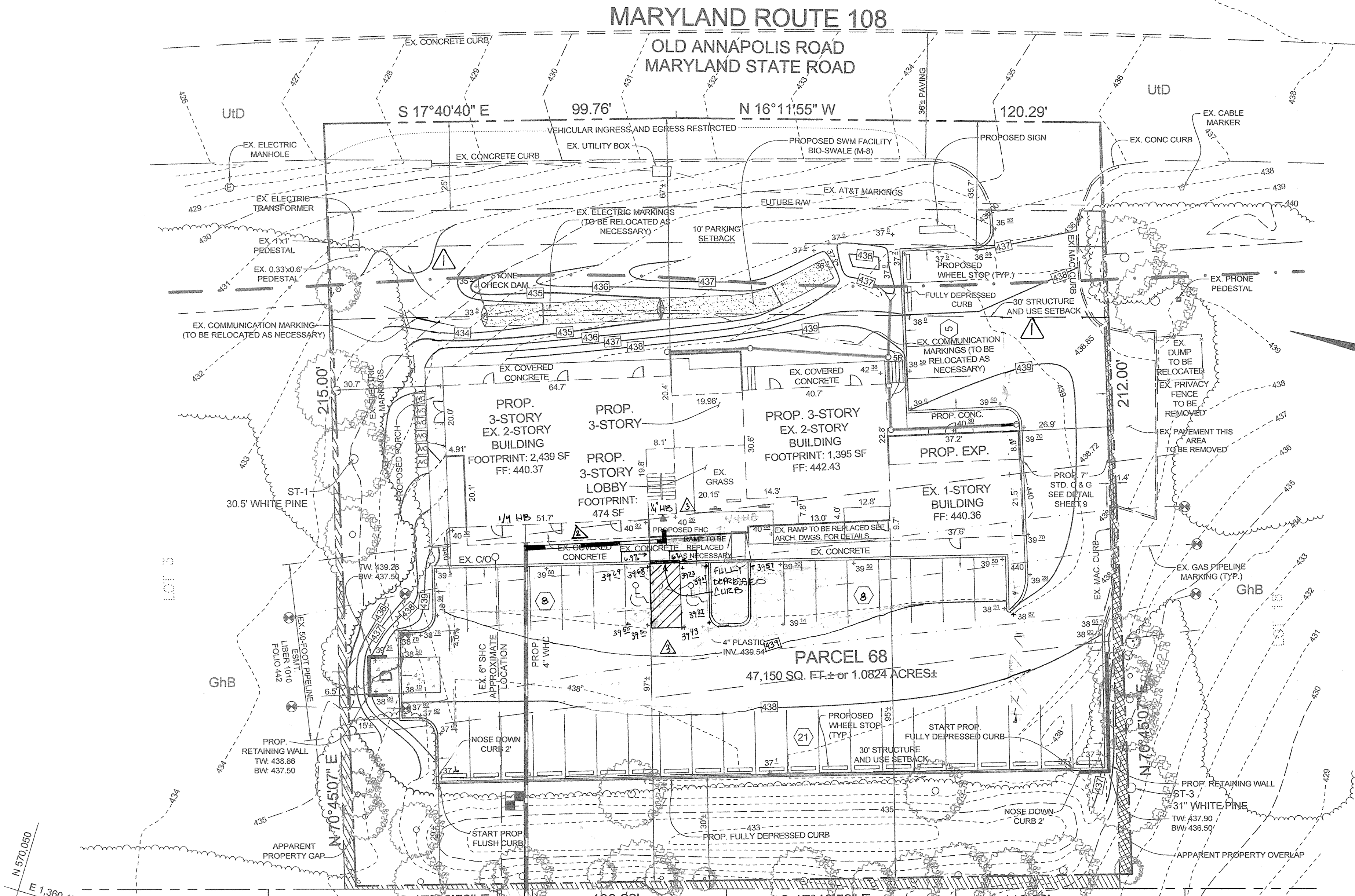
SCALE: 1"=50'
 SHEET NO. 5
 OF 6
 DATE: 7-8-86

**DRAWING
 5**

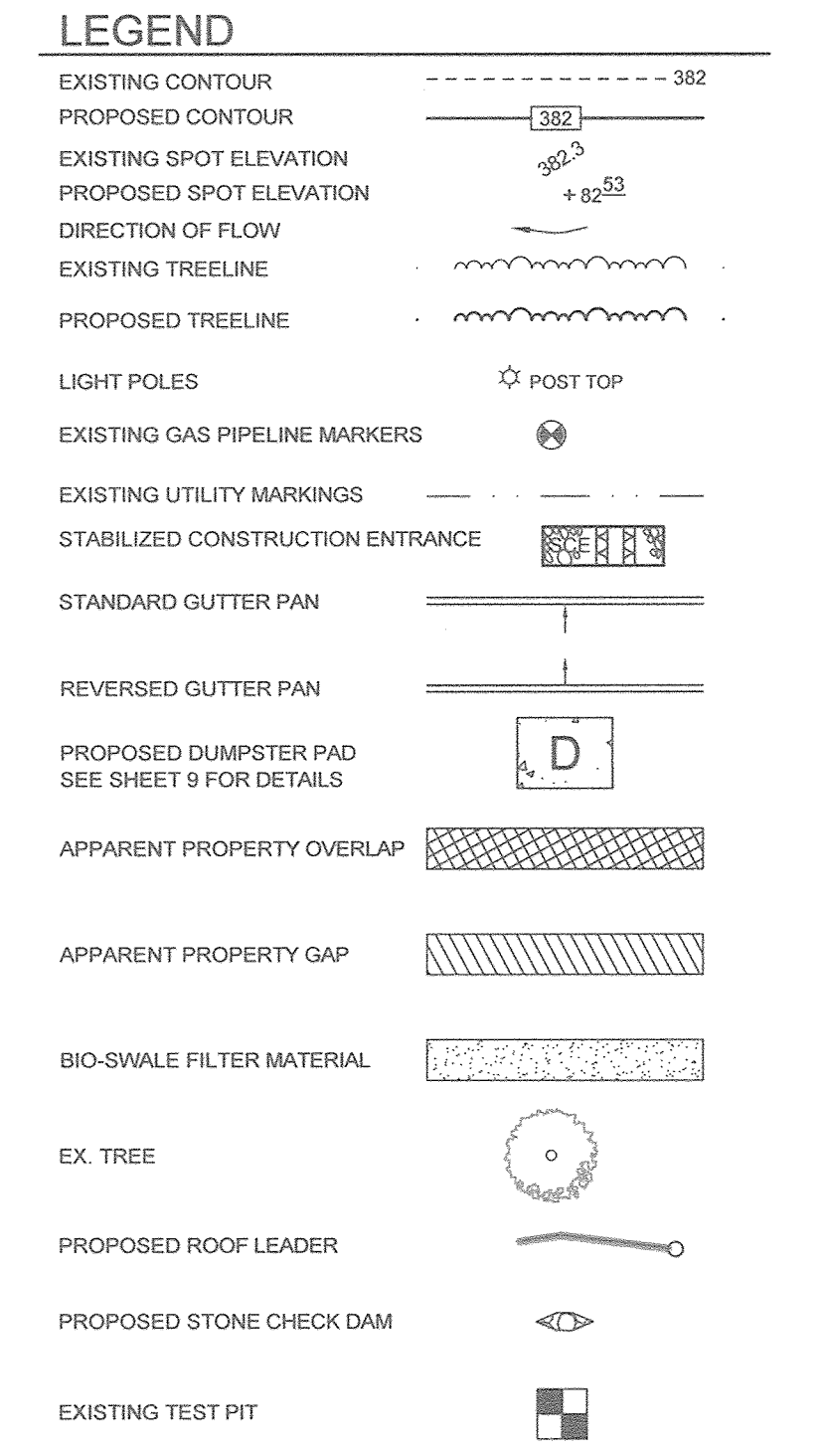
SDP-87-07

MARYLAND ROUTE 108

OLD ANNAPOLIS ROAD
MARYLAND STATE ROAD



DRAINAGE AREA MAP
SCALE: 1"=30'



PARKING REQUIREMENTS

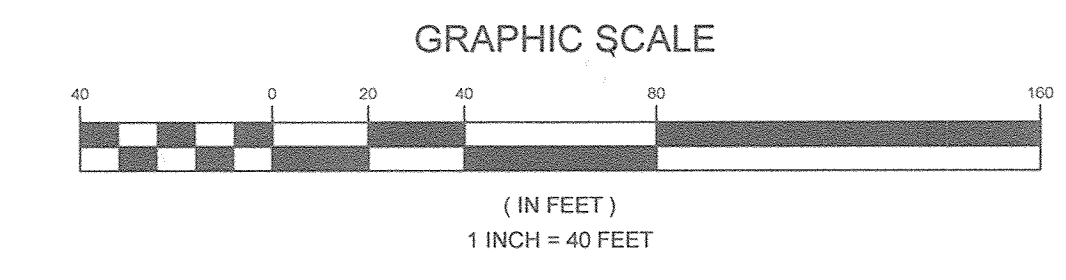
PARKING REQUIREMENTS PER SECTION 133.0 OF THE HOWARD COUNTY ZONING REGULATIONS:
 RETAIL - 4.847 SQ FT @ 5 SPACES PER 1,000 SQ. FT. : 24.2 SPACES
 OFFICE - 8.020 SQ FT @ 3.3 SPACES PER 1,000 SQ. FT. : 26.5 SPACES
 SUBJECT TO SHARED PARKING ADJUSTMENT
 SHARED PARKING ADJUSTMENT UNDER SECTION 133.0(F)(1)(a):
 GREATEST DEMAND: WEEKDAYS MID-DAY 8AM-3PM, AND AFTERNOON 3PM-5PM
 RETAIL: 24.2 SPACES X 60% : 15 SPACES
 OFFICE: 26.5 SPACES X 100% : 27 SPACES
 TOTAL SPACES PROVIDED: 42 SPACES
 TOTAL SPACES REQUIRED: 42 SPACES



FRONT ELEVATION
SCALE: NTS

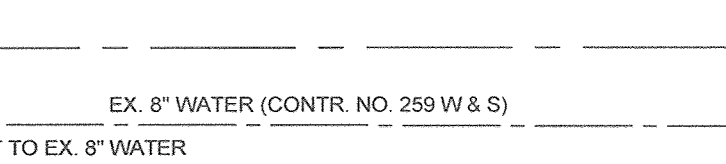
GENERAL NOTES (CONTINUED FROM SHEET 1)

- SUBJECT PROPERTY ZONED B-1 PER THE 10/09/2013 COMPREHENSIVE ZONING PLAN.
- PROPERTY ADDRESS: 9123 OLD ANNAPOLIS ROAD, COLUMBIA, MD 21045
- TOTAL AREA OF PROPERTY 47,150 SF OR 1.0824 AC.
- PUBLIC WATER AND PUBLIC SEWER WILL BE USED WITHIN THIS SITE.
- THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY SHANABERGER & LANE IN JULY 2015.
- THE TOPOGRAPHY SHOWN HEREON HAS BEEN FIELD RUN BY SHANABERGER & LANE IN JULY 2015 AND IS SHOWN IN ONE FOOT INTERVALS. THE EXISTING TOPOGRAPHY SHOWN OUTSIDE THE SITE IS BASED ON HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 2004 AND IS SHOWN IN TWO FOOT INTERVALS.
- REFERENCE: LIBER 15480, FOLIO 161
- EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENTS NUMBERS 301C AND 301D WERE USED FOR THIS PROJECT.
- A TRAFFIC STUDY WAS PREPARED BY THE MARS GROUP ON OR ABOUT NOVEMBER, 2015.
- PER SECTION 16.1200 OF THE HOWARD COUNTY CODE, THIS PLAN IS SUBJECT TO FOREST CONSERVATION OBLIGATIONS. FOR THIS PROJECT THE NET TRACT AREA OBLIGATION IS BASED ON THE LOD AND WILL BE 0.02 ACRES OR 817 SQ. FT. THIS OBLIGATION WILL BE ADDRESSED BY THE PAYMENT OF A FEE-IN-LIEU IN THE AMOUNT OF \$613.
- THE STORM WATER MANAGEMENT OBLIGATION FOR THIS SITE ARE MET BY AN INFILTRATION DEVICE AND A BIO SWALE. M-8 THE INFILTRATION DEVICE TREATS THE PROPOSED CONDITIONS AS OF AUGUST 23, 1986. THE BIO SWALE M-8 TREATS THE PROPOSED CONDITIONS PER THE REDLINE DATED JULY 18, 2019.
- THE EXISTING ONE-STORY BUILDING IS NON-CONFORMING TO THE 30' STRUCTURE AND USE SETBACK SINCE IT PRE-DATES THE REGULATION.

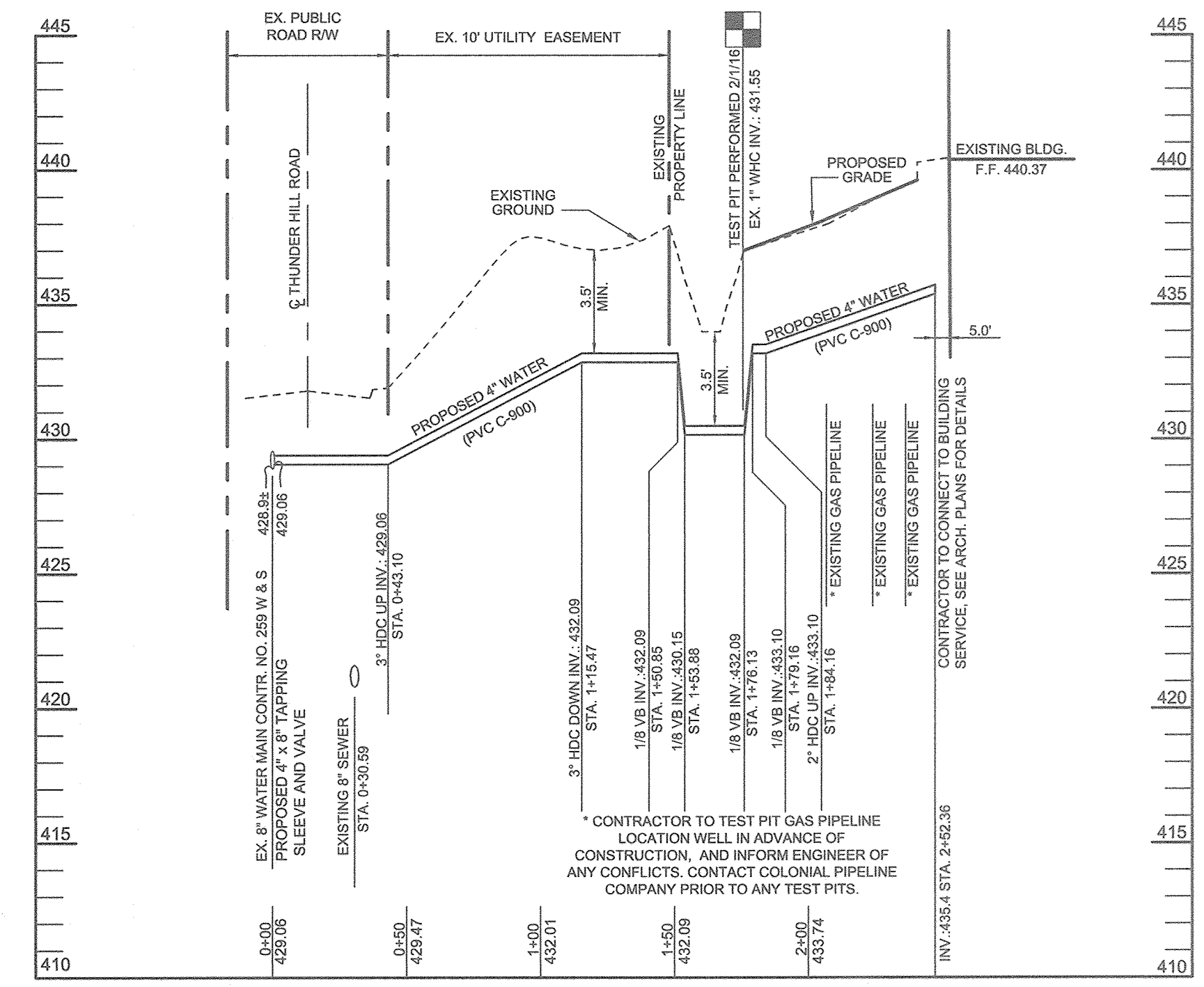


THUNDER HILL ROAD

60' R/W
MINOR COLLECTOR



CONNECT TO EX. 8" WATER
EX. 8" WATER (CONTR. NO. 259 W & S)



WATER PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Chief, Division of Land Development
 Director

10-27-16
10-27-16
10-27-16

PLAN VIEW
SCALE: 1" = 20'

NO.	DESCRIPTION	DATE
3	RELOCATE H.C. PARKING & ADJUST W.C.	03/13/19
2	RELOCATE LOCATION OF 4" W.C. TO BLDG.	02/14/19
1	REMOVE SIDE SETBACKS & EXPAND FRONT & REAR SETBACKS TO SIDE PROPERTY LINES.	5/21/2017
	REVISIONS	

THE PURPOSE OF THIS REVISED SITE DEVELOPMENT PLAN IS TO SHOW AS-BUILT CONDITIONS PER THE DATE OF THIS PLAN AND REVISED PROPOSED CONDITIONS, INCLUDING ADDING A THIRD FLOOR

OWNER/DEVELOPER

OLD ANNAPOLIS ROAD, LLC
 C/O RICHARD GELFMAN
 9123 ROUTE 108 SUITE 502W
 COLUMBIA, MARYLAND 21045
 410-992-9999

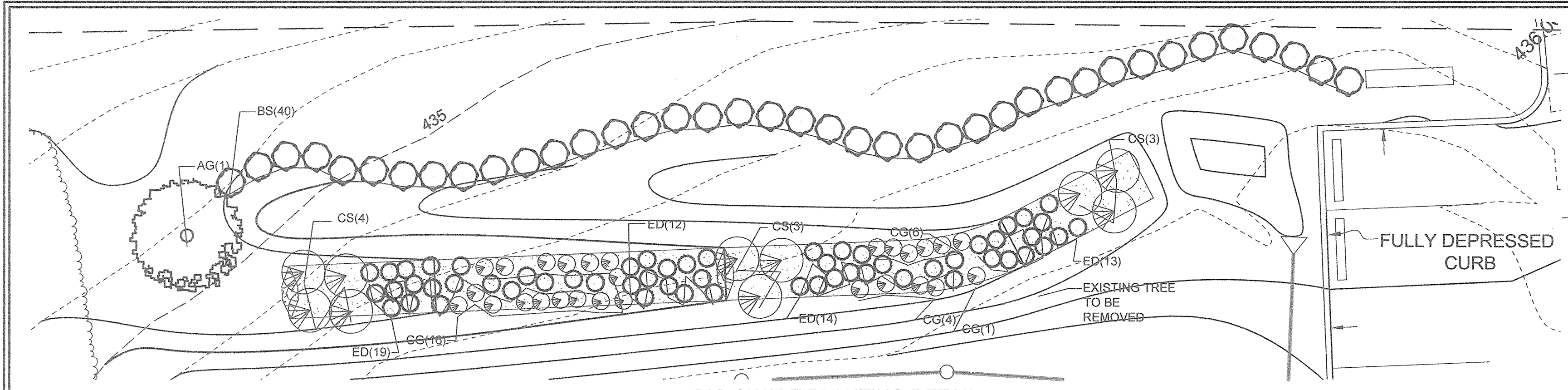
REVISED SITE DEVELOPMENT PLAN
 RICHARD D. GELFMAN PROPERTY
 9123 OLD ANNAPOLIS ROAD

TAX MAP 30 GRID 17
 6TH ELECTION DISTRICT
 ZONED: B-1
 HOWARD COUNTY, MARYLAND
 PARCEL 68

SILL ENGINEERING GROUP, LLC
 11130 Dovedale Court, Suite 200
 Marriottsville, Maryland 21104
 Phone: 410-325-5076
 Fax: 410-696-2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: PS
 DRAWN BY: JCV
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: OCTOBER 21, 2016
 PROJECT #: 14-047
 SHEET #: 7 of 9

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32692, EXPIRATION DATE: JUNE 20, 2017

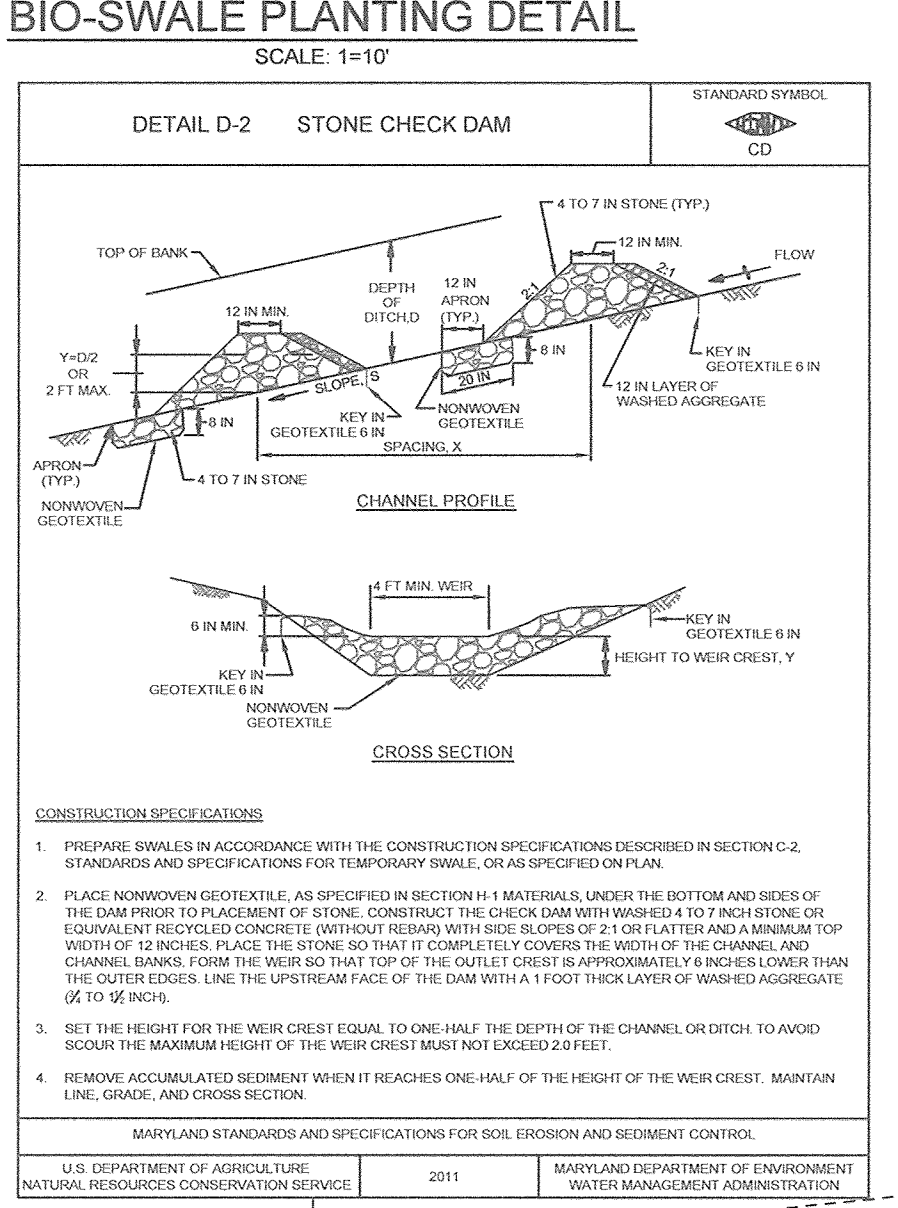
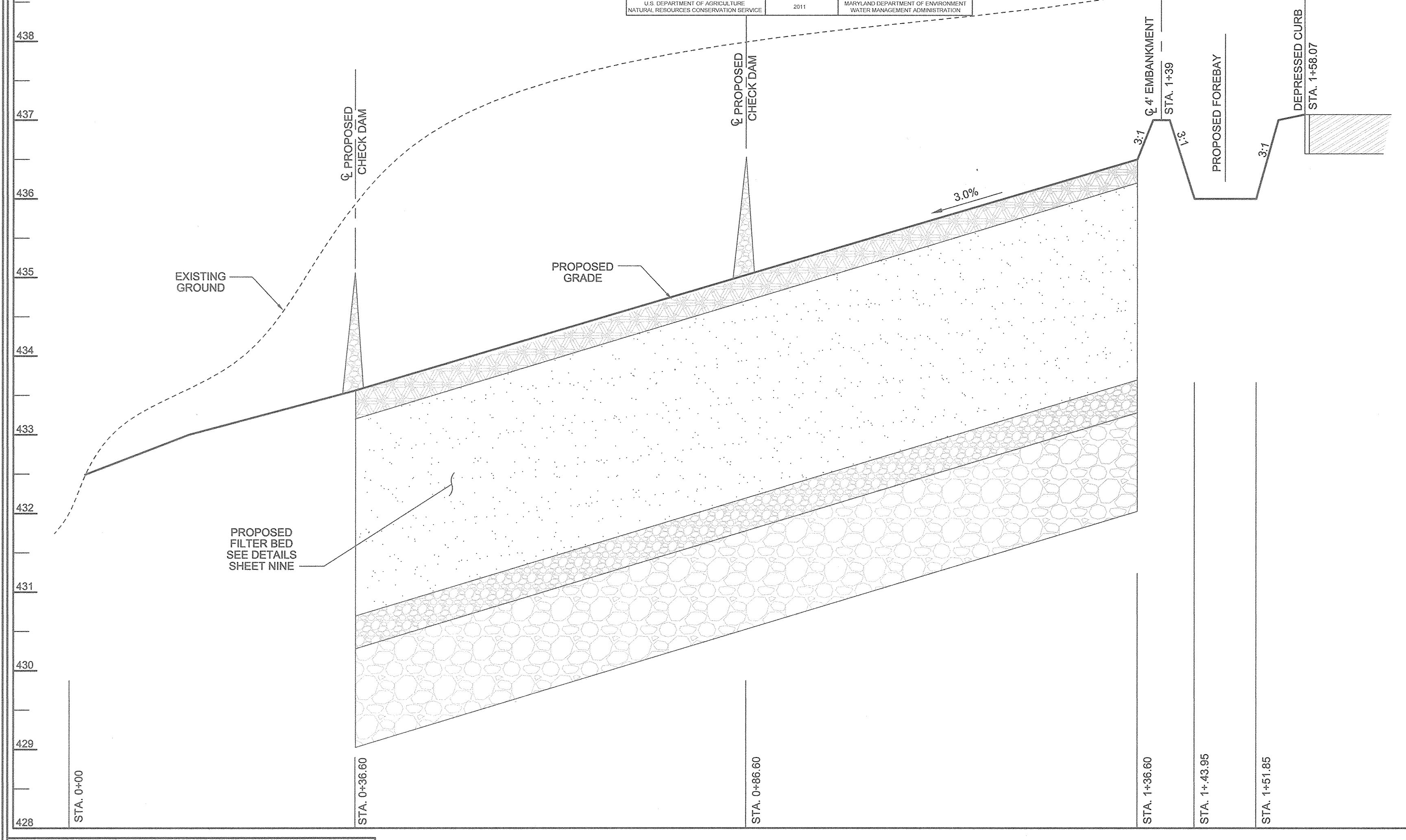


PLANT LIST						
PLANT SPECIES						
LEGEND KEY	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	REMARKS	QTY
AG	AMELANCHIER 'GRANDIFLORA' 'AUTUMN BRILLIANCE'	SERVICEBERRY 'AUTUMN BRILLIANCE'	AS SHOWN* (12'-15' O.C.)	8-10 FT.	MULTI STEM	1
CS	CORNUS STOLONIFERA 'ARCTIC FIRE'	RED TWIGGED DOGWOOD	AS SHOWN* (MIN. 5' O.C.)	7 GAL.	CONT.	10
BS	BUXUS SEMPERVIRENS 'GREEN MOUNTAIN'	BOXWOOD GREEN MOUNTAIN	AS SHOWN* (MIN. 3' O.C.)	7 GAL.	CONT.	40
ED	EUPATORIUM DUBIUM 'LITTLE JOE'	DWARF JOE-PYE WEED	AS SHOWN* (MIN. 2' O.C.)	1 GAL.	CONT.	58
CG	CHELONE GLABRA	WHITE TURTLEHEAD	AS SHOWN* (MIN. 2' O.C.)	1 GAL.	CONT.	27

NOTE: PLANT MATERIAL MUST COVER 50% OF THE MULCH AREA AT MATURE GROWTH. INTERSPERSE PLANTINGS THROUGHOUT BIORETENTION FILTER AREA.

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
GhB	GLENELG-URBAN LAND COMPLEX, 0 TO 8 PERCENT SLOPES	B	0.20
UdD	URBAN LAND UDRTHENTS COMPLEX, 0 TO 15 PERCENT SLOPES	D	0.28

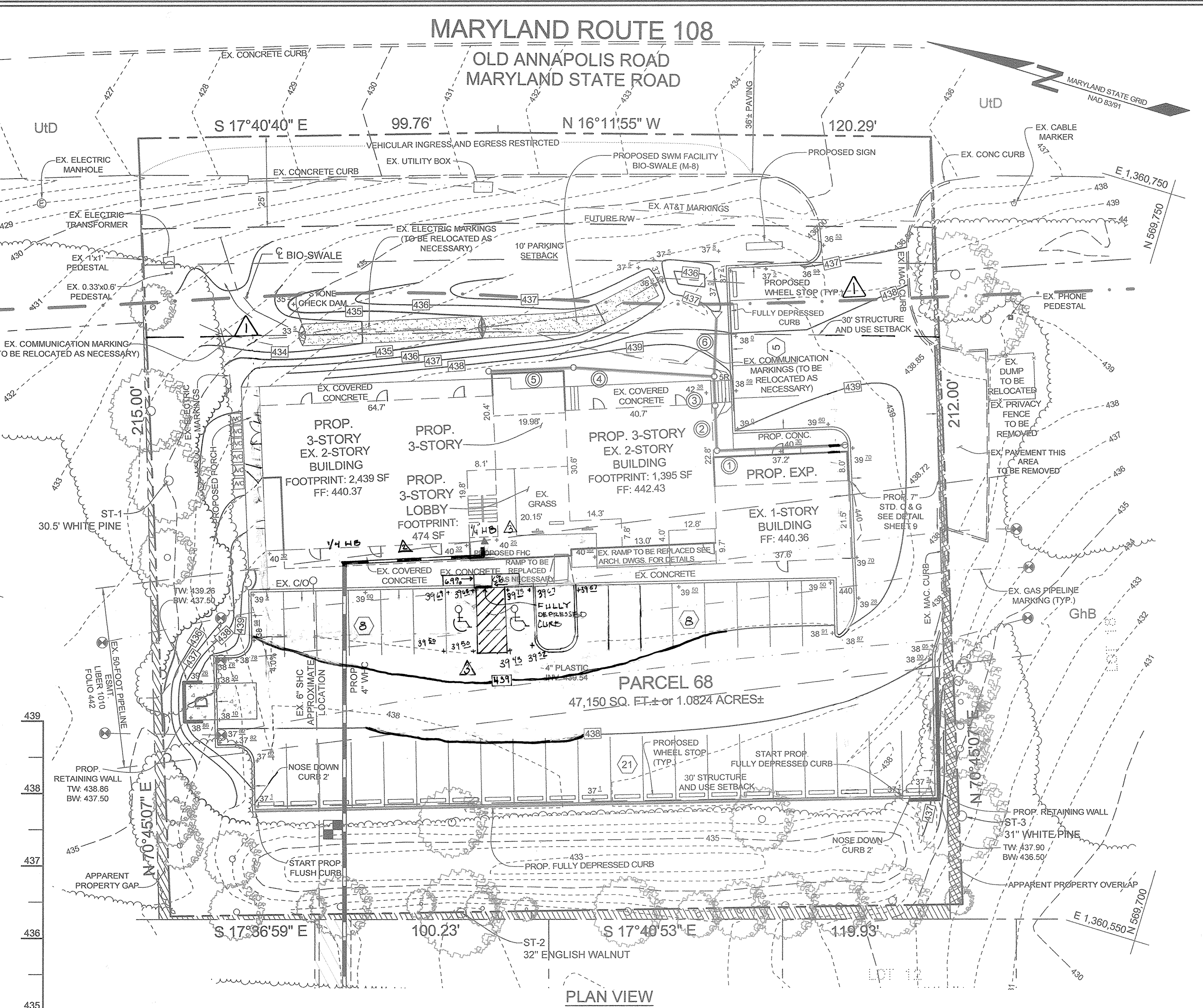
NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY, HOWARD COUNTY SOILS MAP - GRID 14, SUB-GRID 077.
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.



LEGEND	
(Symbol)	EXISTING CONTOUR
(Symbol)	PROPOSED CONTOUR
(Symbol)	EXISTING SPOT ELEVATION
(Symbol)	PROPOSED SPOT ELEVATION
(Symbol)	DIRECTION OF FLOW
(Symbol)	PROPOSED ROOF LEADER AND ID NUMBER FOR PIPE SCHEDULE, SEE SCHEDULE THIS SHEET

SCHEDULE A PERIMETER LANDSCAPE EDGE	
CATEGORY	ADJACENT TO ROADWAYS
PERIMETER/FRONTAGE DESIGNATION	1
LANDSCAPE TYPE	190
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	190
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	NO
REMAINING PERIMETER LENGTH (YES, NO, LINEAR FEET)	NO
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET)	NO
REMAINING PERIMETER LENGTH	NO
NUMBER OF PLANTS REQUIRED	4
SHADE TREES	2
EVERGREEN TREES	2
SHRUBS	2
NUMBER OF PLANTS PROVIDED	1
SHADE TREES	0
EVERGREEN TREES	0
OTHER TREES (2:1 SUBSTITUTION)	50
SHRUBS (10:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)	

BIO-SWALE PROFILE
 SCALE: HORIZONTAL: 1"=10'
 VERTICAL: 1"=1'



MATERIALS SPECIFICATIONS FOR MICRO-BIORETENTION FACILITIES			
MATERIAL	SPECIFICATION	SIZE	NOTES
PLANTINGS	SEE PLANT LIST THIS SHEET	N/A	PLANTINGS ARE SITE-SPECIFIC. SEE PLANT LIST THIS SHEET
PLANTING SOIL (2'-4" DEEP)	LOAMY SAND (60% - 65%) & COMPOST (35%-40%) OR SANDY LOAM (30%), COMPOST (30%) & COMPOST (40%)	N/A	USDA SOIL TYPES LOAMY SAND OR SANDY LOAM. CLAY CONTENT < 5%
ORGANIC CONTENT	MIN 10% BY DRY WEIGHT (ASTM D-2974)		
MULCH	SHREDDED HARDWOOD		AGED 6 MONTHS, MINIMUM. NO PINE OR WOOD CHIPS
PEA GRAVEL DIAPHRAGM AND CURTAIN DRAIN, IF REQUIRED	PEA GRAVEL: ASTM-D-448	PEA GRAVEL: NO. 8 OR NO. 9 (1/8" TO 3/8")	
GEOTEXTILE	AASHTO M-43	NO. 57 OR NO. 6 AGGREGATE (3/8" TO 3/4")	PE TYPE 1 NONWOVEN
UNDERDRAIN GRAVEL	F 758, TYPE PS 28 OR AASHTO M-278	4" TO 6" RIGID SCHEDULE 40 PVC OR SDR35	SLOTTED OR PERFORATED PIPE, 3/8" PER' @ 6" ON CENTER, 4 HOLES PER ROW, MINIMUM OF 3" OF GRAVEL OVER PIPES; NOT NECESSARY UNDERNEATH PIPES. PERFORATED PIPE SHALL BE WRAPPED WITH 1/4" GALVANIZED HARDWARE CLOTH.

OPERATION AND MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)

- THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUME II, TABLE A.4.1 AND 2.
- THE OWNER SHALL PERFORM A PLANT INSPECTION IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD OR DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL, TREAT DISEASED TREES AND SHRUBS, AND REPLACE ALL DEFICIENT STAKES AND WIRES.
- THE OWNER SHALL MAINTAIN THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED.
- THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.

PIPE SCHEDULE

SIZE	TYPE	LENGTH
① 6" PVC SCHEDULE 40	PVC	36 LF
② 6" PVC SCHEDULE 40	PVC	13 LF
③ 6" PVC SCHEDULE 40	PVC	9 LF
④ 6" PVC SCHEDULE 40	PVC	40 LF
⑤ 6" PVC SCHEDULE 40	PVC	24 LF
⑥ 8" PVC SCHEDULE 40	PVC	18 LF

OWNER/DEVELOPER
 OLD ANNAPOLIS ROAD, LLC
 C/O RICHARD GELFMAN
 9123 ROUTE 108 SUITE 202W
 COLUMBIA, MARYLAND 21045
 410-992-9999

- GENERAL NOTES
- A WETLAND AND STREAM STUDY HAS BEEN PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. IN NOVEMBER 2015. NO WETLANDS, STREAMS OR BUFFERS ARE PRESENT ON SITE.
 - EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. GEOTECHNICAL INFORMATION HAS BEEN TAKEN FROM THE US DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE, WEB SOIL SURVEY WEBSITE AND FIELD INVESTIGATIONS. IF FUTURE INVESTIGATIONS SHOW UNSATISFACTORY SOIL CONDITIONS FOR ANY OF THE STORMWATER MANAGEMENT TREATMENTS SHOWN, EITHER UNDERDRAINS WILL BE PROVIDED OR A DIFFERENT PRACTICE WILL BE SUBSTITUTED.
 - THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENTS NUMBERS 501C AND 301D WERE USED FOR THIS PROJECT.
 - NO GRADING, REMOVAL OF VEGETATION OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS, OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS, UNLESS WAIVERS HAVE BEEN APPROVED OR ACTIVITIES HAVE BEEN DETERMINED ESSENTIAL BY THE DEPARTMENT OF PLANNING AND ZONING.
 - ALL SWALES TO HAVE EROSION CONTROL MATTING.
 - PER SECTION 16.1200 OF THE HOWARD COUNTY CODE, THIS PLAN IS SUBJECT TO FOREST CONSERVATION OBLIGATIONS. FOR THIS PROJECT THE AFFORESTATION NET TRACT AREA OBLIGATION IS BASED ON THE LOD AND WILL BE 0.02 ACRES OR 817 SQ FT. THIS OBLIGATION WILL BE ADDRESSED BY THE PAYMENT OF A FEE-IN-LIEU IN THE AMOUNT OF \$913.
 - LIMIT OF DISTURBANCE: 20,079 SQ FT ±.

REVISED SITE DEVELOPEMENT PLAN
 STORMWATER MANAGEMENT NOTES AND DETAILS
 RICHARD D. GELFMAN PROPERTY
 9123 OLD ANNAPOLIS ROAD

TAX MAP 30 GRID 17
 6TH ELECTION DISTRICT
 ZONED: B-1
 HOWARD COUNTY, MARYLAND
 PARCEL 68

DESIGN BY: PS
 DRAWN BY: JCV
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: OCTOBER 21, 2016
 PROJECT #: 14-047
 SHEET #: 8 OF 9

SILL ENGINEERING GROUP, LLC
 11130 Dovedale Court, Suite 200
 Marriottsville, Maryland 21104
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 30, 2017.