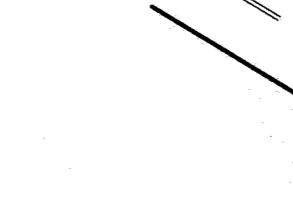


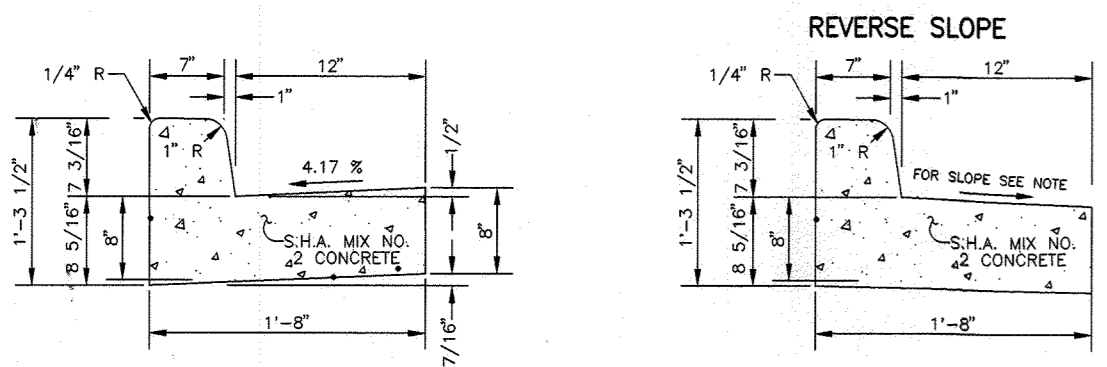
**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
  - MISS UTILITY 1-800-257-7777
  - C & P TELEPHONE COMPANY 725-9976
  - HOWARD COUNTY BUREAU OF UTILITIES 313-2366
  - AT&T CABLE LOCATION DIVISION 393-3553
  - B.G.&E. CO. CONTRACTOR SERVICES 850-4620
  - B.G.&E. CO. UNDERGROUND DAMAGE CONTROL 797-4620
  - STATE HIGHWAY ADMINISTRATION 531-5533
- SITE ANALYSIS:
  - AREA OF PARCEL/AREA OF SUBMISSION: B-3= 1.180 AC +/- & B-2= 0.677 AC +/-
  - PRESENT ZONING: N.T./O.S.
  - USE OF STRUCTURES: SENIOR CENTERS
  - TOTAL BUILDING AREAS: B-3= 11,923 SQ. FT. & B-2= 8,414 SQ. FT. TOTAL = 20,337 SQ. FT.
  - BUILDING COVERAGE ON SITE: B-3= 0.27 AC OR 23% OF GROSS AREA
  - B-2= 0.19 AC OR 28% OF GROSS AREA
  - PAVED PARKING LOT/AREA ON SITE: B-3= 0.17 AC +/- OR 14% OF GROSS AREA
  - B-2= 0.14 AC +/- OR 21% OF GROSS AREA
  - AREA OF LANDSCAPE ISLAND: B-3= 408 SQ. FT. OR 0.009 AC +/-
  - B-2= 540 SQ. FT. OR 0.012 AC +/-
- PROJECT BACKGROUND:
  - LOCATION: COLUMBIA, MARYLAND TAX MAP: 29 PARCELS: 334
  - ZONING: N.T./O.S.
  - SECTION/AREA: 5/8
  - SITE AREA: B-3= 1.180 AC +/- & B-2= 0.677 AC +/-
  - DPZ REFERENCES: F.D.P.# 183, F-85-154, SDP 86-32C
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
- ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS, FIELD SURVEYS AND AVAILABLE RECORD DRAWINGS, APPROXIMATE LOCATION OF 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 CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- ALL REINFORCED CONCRETE FOR STORM DRAIN STRUCTURES SHALL HAVE A MINIMUM OF 28 DAYS STRENGTH OF 3,500 P.S.I.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF CALCULATING FEES.
- SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER. GEOTECHNICAL ENGINEER TO CONFIRM ACCEPTABILITY OF PROPOSED PAVING SECTION, BASED ON SOILS TEST.
- ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS 'C' AS SHOWN IN FIG. 11-4 VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL.
- STORMWATER MANAGEMENT IS PROVIDED FOR UNDER S.D.P.#86-38C.
- WATER QUALITY IS PROVIDED BY A STORMCCEPTOR.
- COORDINATES AND ELEVATIONS ARE BASED ON HOWARD COUNTY MONUMENTS 46BA AND 46B3 (DAFT, McCUNE & WALKER, INC.).
- A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- EACH PROPERTY OWNER FOR PARCELS B-3 & B-2 IS RESPONSIBLE FOR MAINTENANCE OF ALL BUILDINGS AND/OR STRUCTURES UP TO THEIR RESPECTFUL PROPERTY LINE.
- FOR PAVING SECTION DETAIL (SEE THIS SHEET).
- ALL CURB AND GUTTER TO BE HOWARD COUNTY STANDARD CONCRETE (SEE DETAIL THIS SHEET), LIMITS AS SHOWN ON PLAN.
- A WATER METER SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION ON THE INCOMING WATER LINE TO THE BUILDING.
- CONTRACTOR RESPONSIBLE TO CONSTRUCT ALL HANDICAP PARKING AND HANDICAP ACCESS ROUTES IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS.
- WHERE DRAINAGE FLOWS AWAY FROM CURB, CONTRACTOR TO REVERSE THE GUTTER PAN (SEE DETAIL THIS SHEET).
- EXISTING TOPOGRAPHY IS BASED ON FIELD RUN TOPOGRAPHIC SURVEY PERFORMED BY DAFT-McCUNE-WALKER, INC. DATED DECEMBER 1994.
- THIS PROJECT IS SERVED BY PUBLIC WATER (CONTRACT #44-1377-D) AND PUBLIC SEWER (CONTRACT #24-1014).
- THE CONTRACTOR WILL REMOVE EX. CURB & GUTTER AS NOTED ON THE SITE PLAN. THE CONTRACTOR WILL LEAVE A CLEAN EDGE OF EX. PAVING FOR TIE-IN OF PROPOSED PAVING.
- THE CONTRACTOR WILL CONSTRUCT ALL CONC. CURB & GUTTER NOTED ON THE SITE PLAN TO BE FULLY DEPRESSED SO THAT THERE IS NOT A LIP.
- THE CONTRACTOR SHALL MEET HOWARD COUNTY STANDARDS FOR THE PROPOSED P-2 PAVING (SEE DETAIL THIS SHEET).
- THE PROPERTY OWNER FOR PARCELS B-2 IS RESPONSIBLE FOR MAINTENANCE OF STORMCCEPTOR LOCATED WITHIN THEIR RESPECTFUL PARCEL.
- THE PROPERTY OWNER FOR PARCELS B-3 IS RESPONSIBLE FOR MAINTENANCE OF EXISTING STORM WATER MANAGEMENT FACILITY LOCATED WITHIN THEIR RESPECTFUL PARCEL.



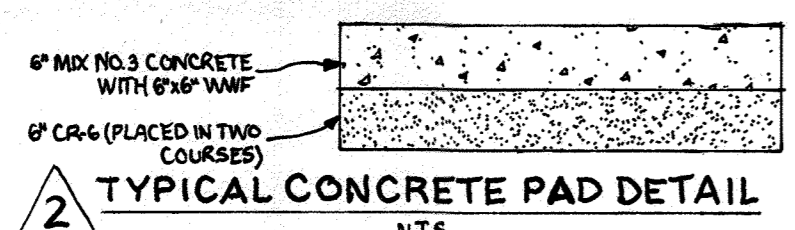
**PAVEMENT SECTION**

AS PER GEOTECH REPORT PERFORMED BY MAFI ASSOCIATES, INC. NOT TO SCALE



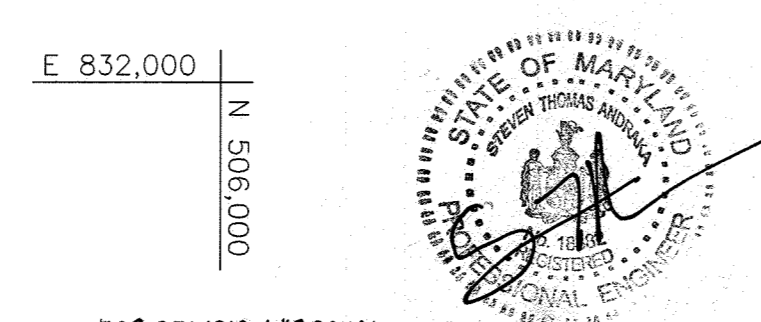
**STANDARD COMBINATION CURB AND GUTTER**  
HOWARD COUNTY STANDARD R-3.01  
NOT TO SCALE

**NOTE:** THE LOD OF 50 SFT IS UNDER 5,000 SFT WHICH IS EXEMPT FROM PROVIDING STORMWATER MANAGEMENT. ANY FUTURE INCREASE IN LOD EXCEEDING A CUMULATIVE 5,000 SFT. SHALL PROVIDE STORMWATER MANAGEMENT FOR THE INCREASE.



**DFI** ENGINEERS-SURVEYORS-PLANNERS  
CONSTRUCTION MANAGERS  
191 BUSINESS PARK  
1123 DEANFIELD BLVD, SUITE K  
MILLERSVILLE, MD 21108  
WWW.DFIENGINEERING.COM  
410-308-2100 FAX 410-308-2108

**OWNER/DEVELOPER**  
**WINTER GROWTH, INC.**  
18110 PRINCE PHILIP DRIVE  
ONLEY, MARYLAND 20832  
1(301)774-7501



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

APPROVED: COUNTY HEALTH OFFICER

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

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HOWARD COUNTY HEALTH DEPARTMENT

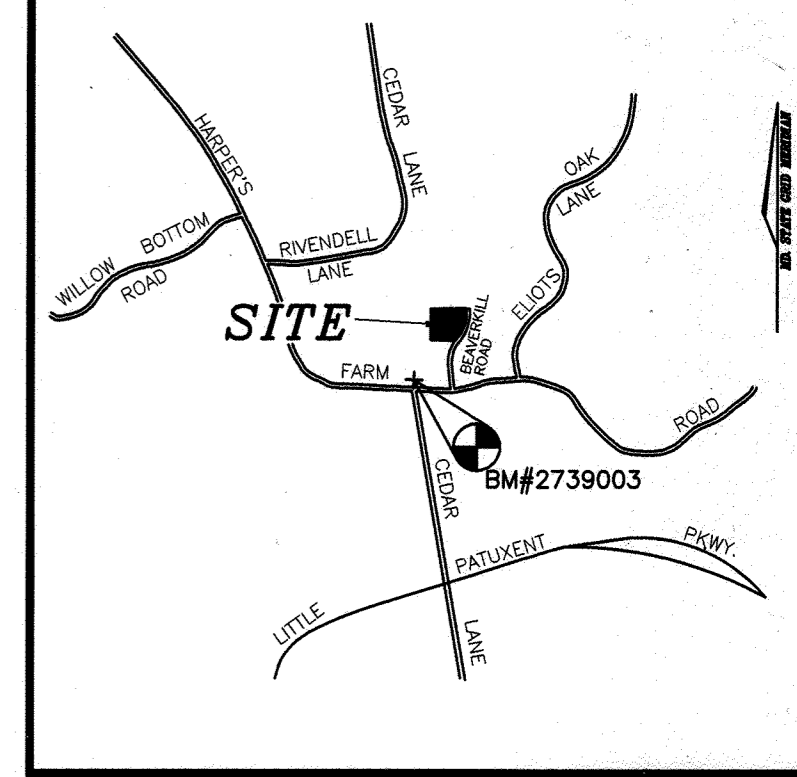
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

APPROVED: COUNTY HEALTH OFFICER

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

**LEGEND**

- EXISTING GROUND
- PROPOSED GRADE
- EXISTING WATER
- EXISTING SEWER
- EXISTING STORM DRAIN
- EXISTING CURB & GUTTER
- PROPERTY LINE
- EXISTING R/W
- EASEMENT
- PROPOSED C&G
- PROP. P-2 PAVING
- PROP. CONC. SIDEWALK
- EX. CONC. SIDEWALK
- EX. PAV.(TO BE REMOVED)
- EX. PAV.(TO BE REMOVED & REPLACED)
- PROP. STONCO LANDSCAPE FLOOD LIGHT(40L-150 WATTS NATURAL ALUMINUM)
- PROP. GUARDCO ARM MOUNT LIGHT (H-19'-175 MH-12'POLE)



**VICINITY MAP**  
SCALE: 1"=2000'

BM#2739003 ELEV. 478.55  
REINFORCING ROD, 3/4" ON NORTH SIDE OF HARPER'S FARM ROAD @ INTERSECTION WITH CEDAR LANE.  
N-505,571.11 E-831,484.94

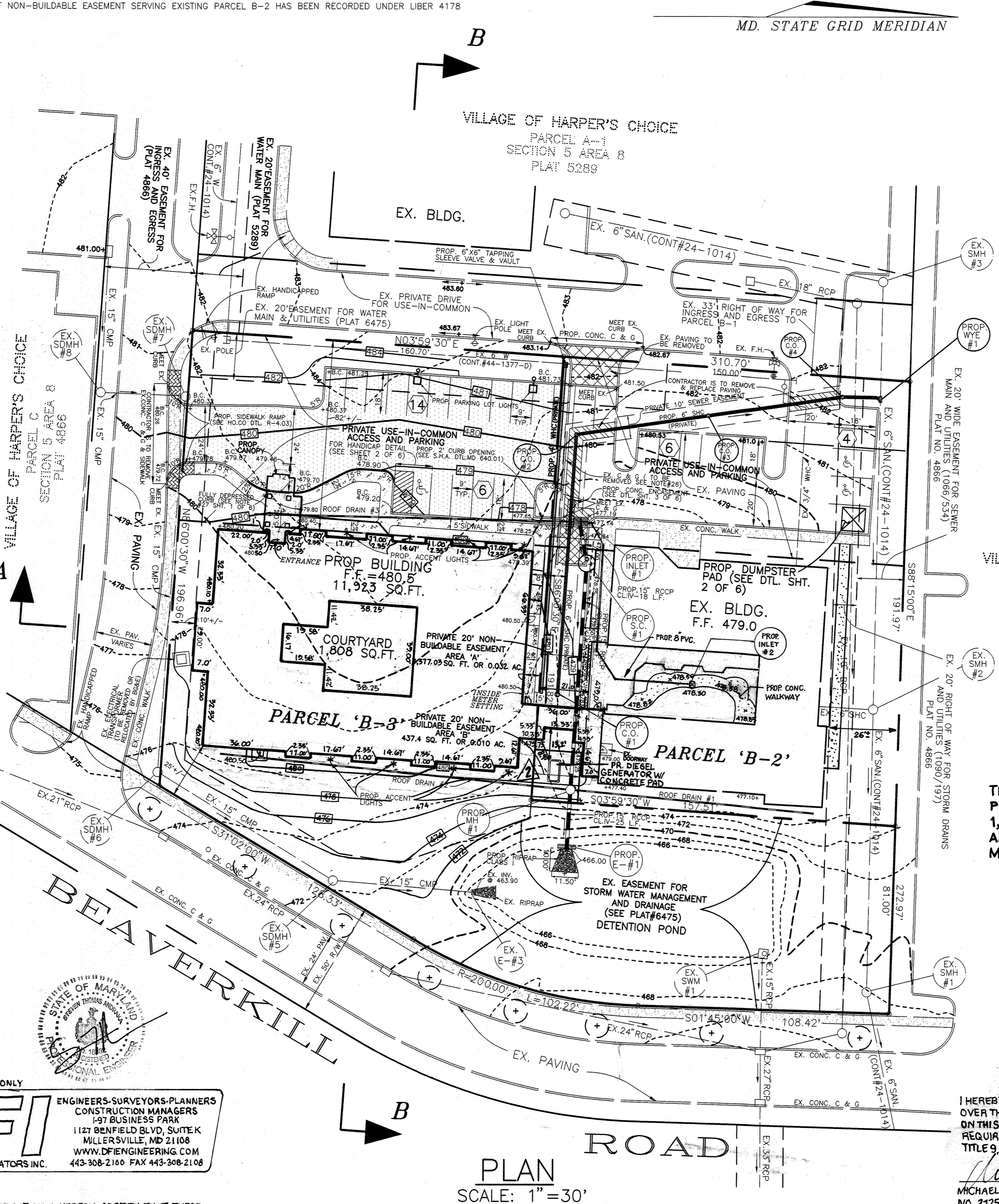
**PARKING TABULATION**

PARCEL	SPACES/2 BEDS	16 BEDS	REQUIRED	PROPOSED
PARCEL B-3	1 SPACES/2 BEDS @ 16 BEDS =	8 SPACES	17 SPACES	17 SPACES
	HANDICAP SPACES =	1 SPACES	1 SPACES	1 SPACES
	TOTAL =	8 SPACES	18 SPACES	18 SPACES
EX. PARCEL B-2	9'X 18' SPACES = .1 SPACE / 2 BEDS @ 16 BEDS	8 SPACES	10 SPACES	10 SPACES
	HANDICAP SPACES =	1 SPACES	2 SPACES	2 SPACES
	TOTAL =	9 SPACES	12 SPACES	12 SPACES

**SHEET INDEX**

SHEET #1	.....SITE PLAN
SHEET #2	.....DETAILS & SECTIONS
SHEET #3	.....DRAINAGE AREA MAP & PROFILES
SHEET #4	.....SEDIMENT CONTROL PLAN
SHEET #5	.....SEDIMENT CONTROL DETAILS
SHEET #6	.....LANDSCAPE PLAN

THE TOTAL IMPERVIOUS AREA OF THE PROPOSED ADDITION AND WALKWAY AT 1,378 SQ. FT. IS LESS THAN 5,000 SQ. FT. AND IS EXEMPT FROM STORMWATER MANAGEMENT REQUIREMENTS.



PLAN  
SCALE: 1"=30'

APPROVED PLANNING BOARD OF HOWARD COUNTY  
DATE: October 23, 1997

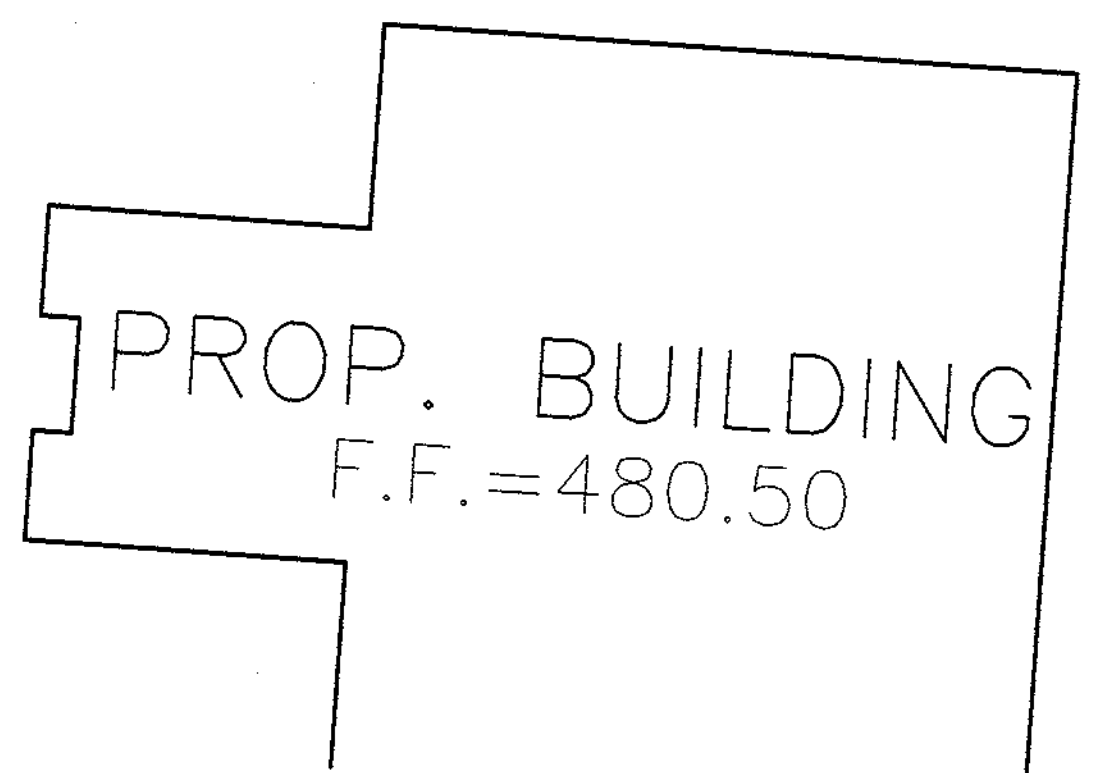
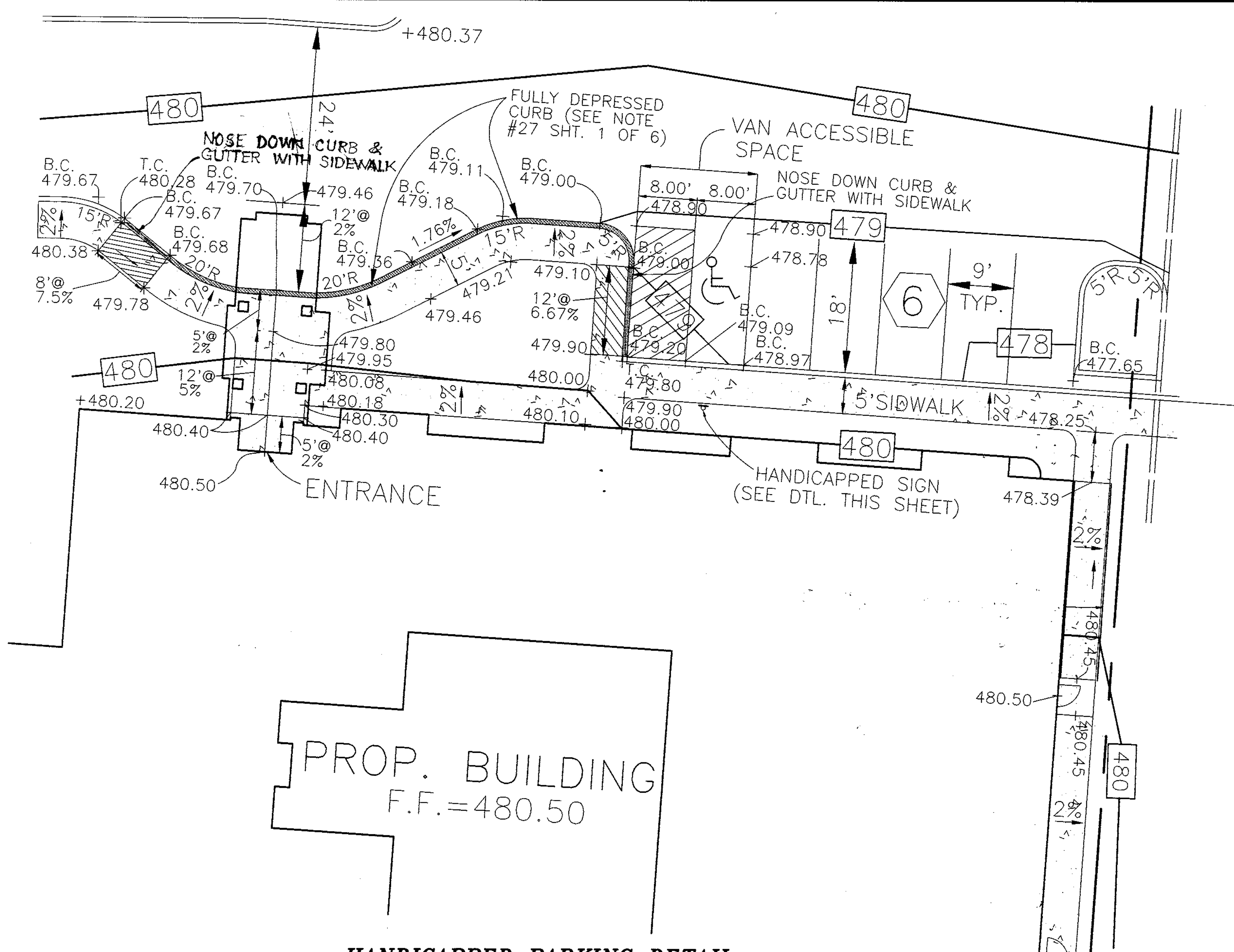
NO.	REVISION	DATE
1	2 NEW BEDROOMS AND WALKWAY MODIFICATION TO BUILDING B-2	3/16/15
2	ADD DIESEL GENERATOR W/ CONCRETE PAD	11/15/20

SITE DEVELOPMENT PLAN FOR WINTER GROWTH SENIOR CENTER VILLAGE OF HARPER'S CHOICE PARCELS B-2 & B-3  
FILE NO.S: F.D.P.# 183, F-85-154, SDP 86-32C, PLAT #13049  
TAX MAP #29 PARCEL B-2 & B-3  
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

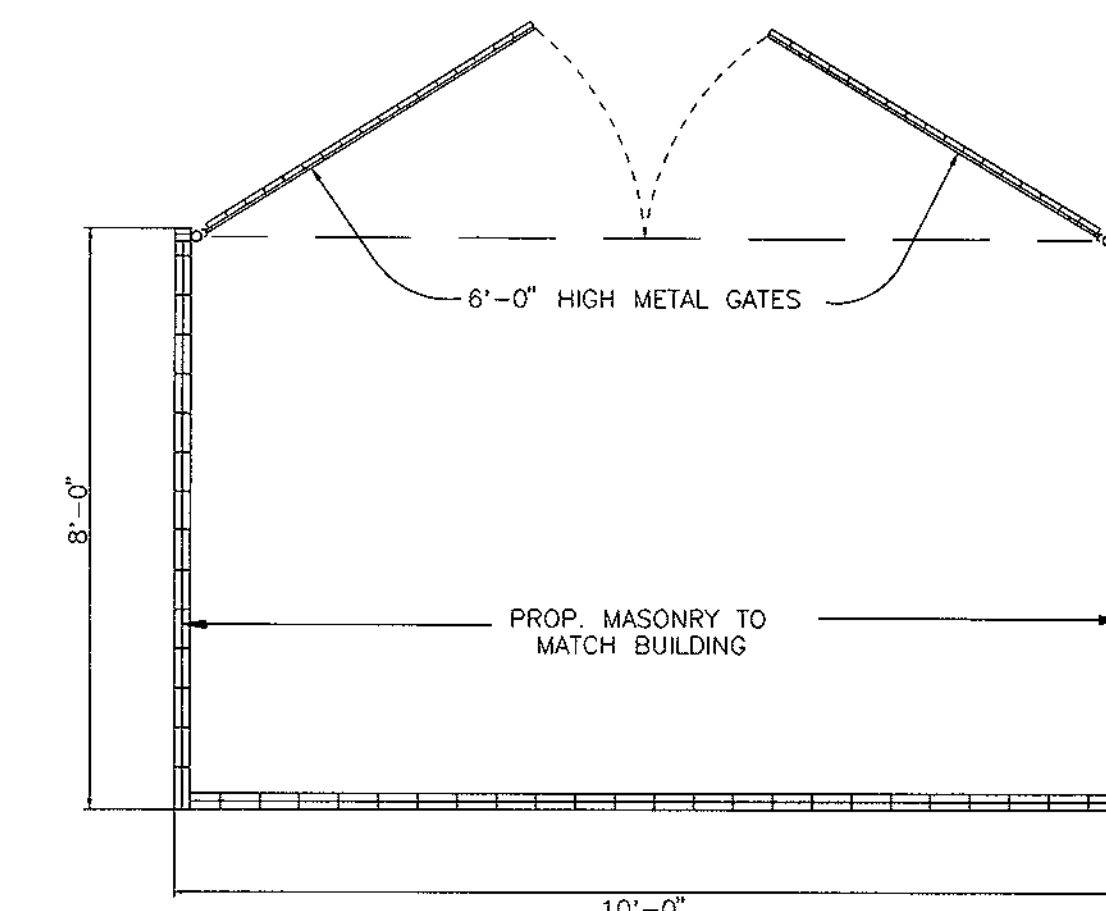
**MARKS & VOGEL ASSOCIATES, INC.**  
ENGINEERS - SURVEYORS - PLANNERS  
3691 PARK AVENUE, SUITE 101  
ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: (410) 461-5828  
FAX: (410) 465-9986

DESIGN BY: R.A.M.  
DRAWN BY: R.A.M.  
CHECKED BY: R.H.V.  
DATE: MAY, 1997  
SCALE: 1"=30'  
W.O. NO.: 97-01

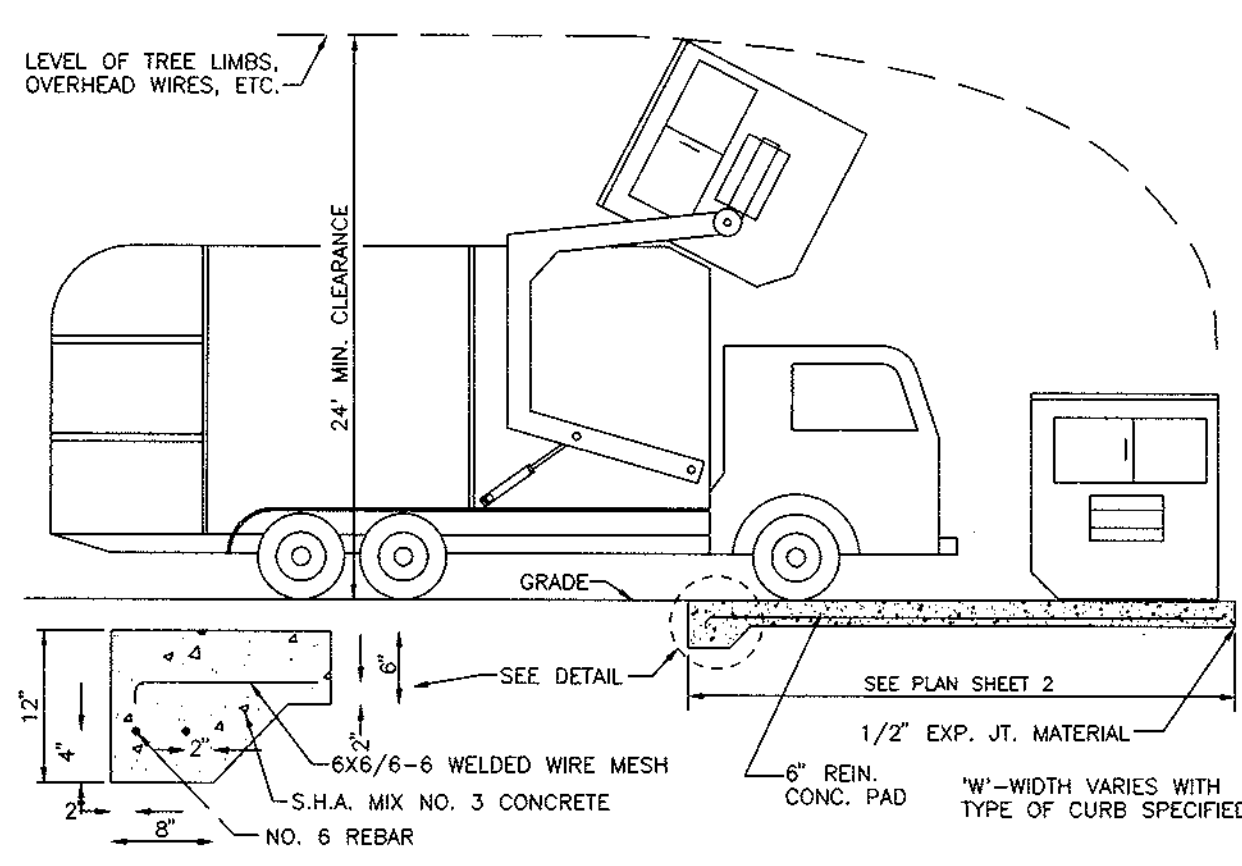
1 SHEET OF 6



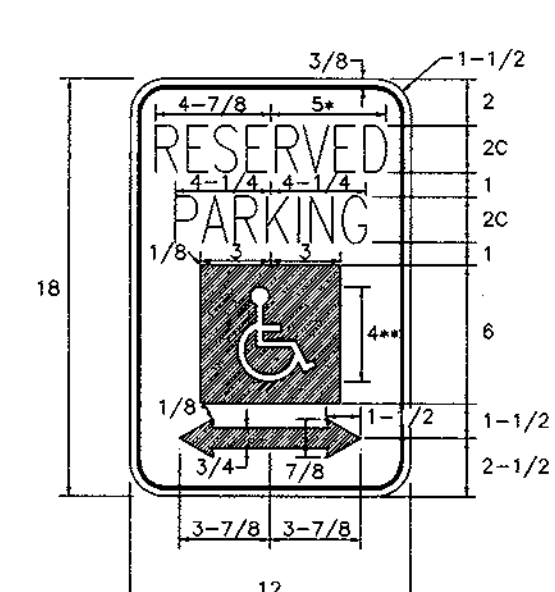
**HANDICAPPED PARKING DETAIL**  
SCALE: 1"=10'



**TRASH ENCLOSURE PLAN**  
NOT TO SCALE

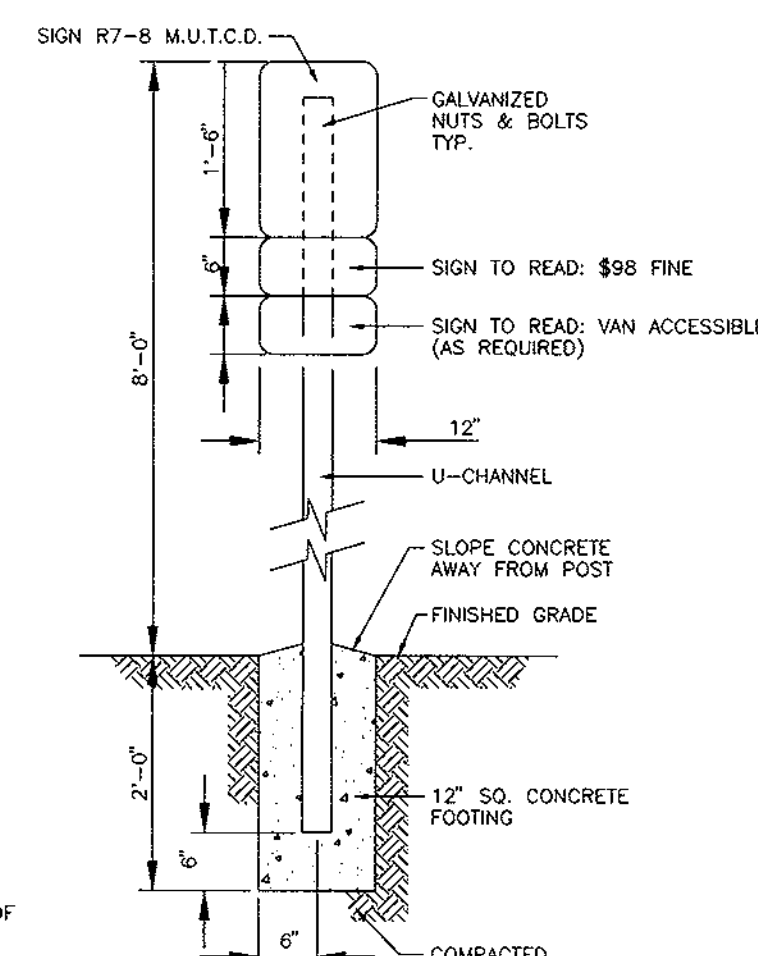


**SOLID WASTE SERVICE PAD**  
HOWARD COUNTY STANDARD R-11.01  
NOT TO SCALE

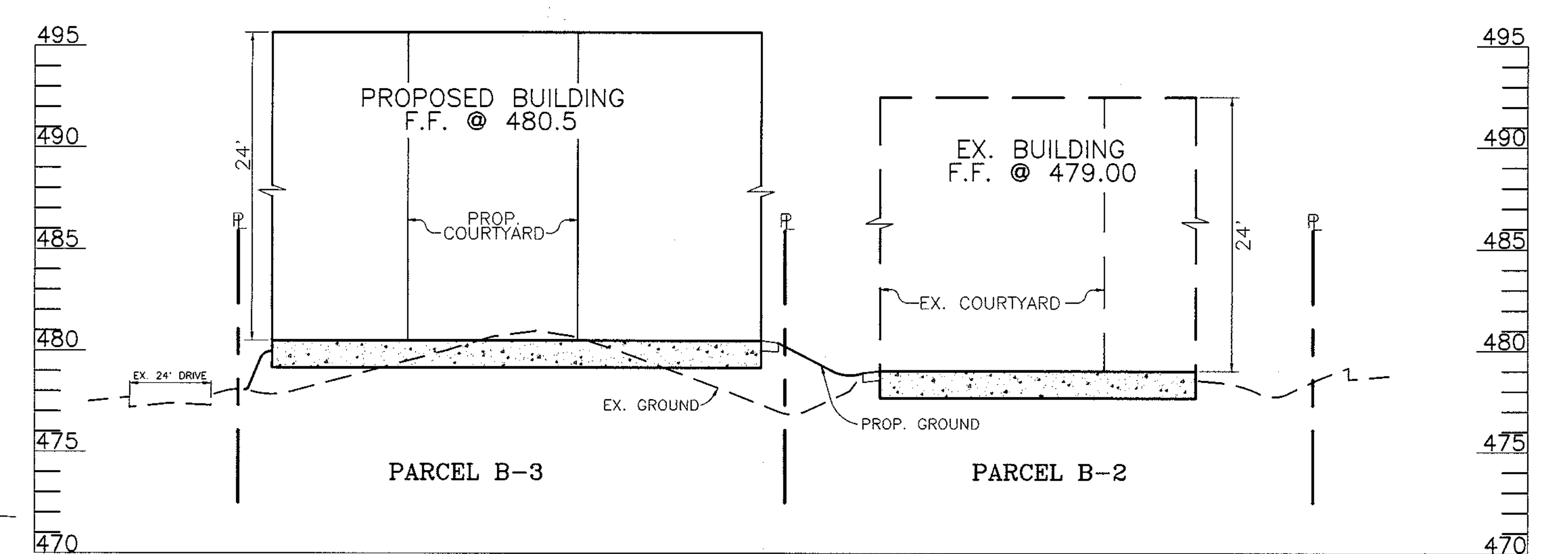


• REDUCE SPACING 50%  
• SEE SYMBOL 1860 FOR SYMBOL DESIGN (ALL DIMENSIONS FOR SIGN IN INCHES)  
COLORS:  
LEGEND AND BORDER - GREEN  
WHITE SYMBOL ON BLUE BACKGROUND  
BACKGROUND - WHITE  
REFERENCE: STATE OF MARYLAND STANDARD HIGHWAY SIGN BOOKLET MARYLAND DEPARTMENT OF TRANSPORTATION.

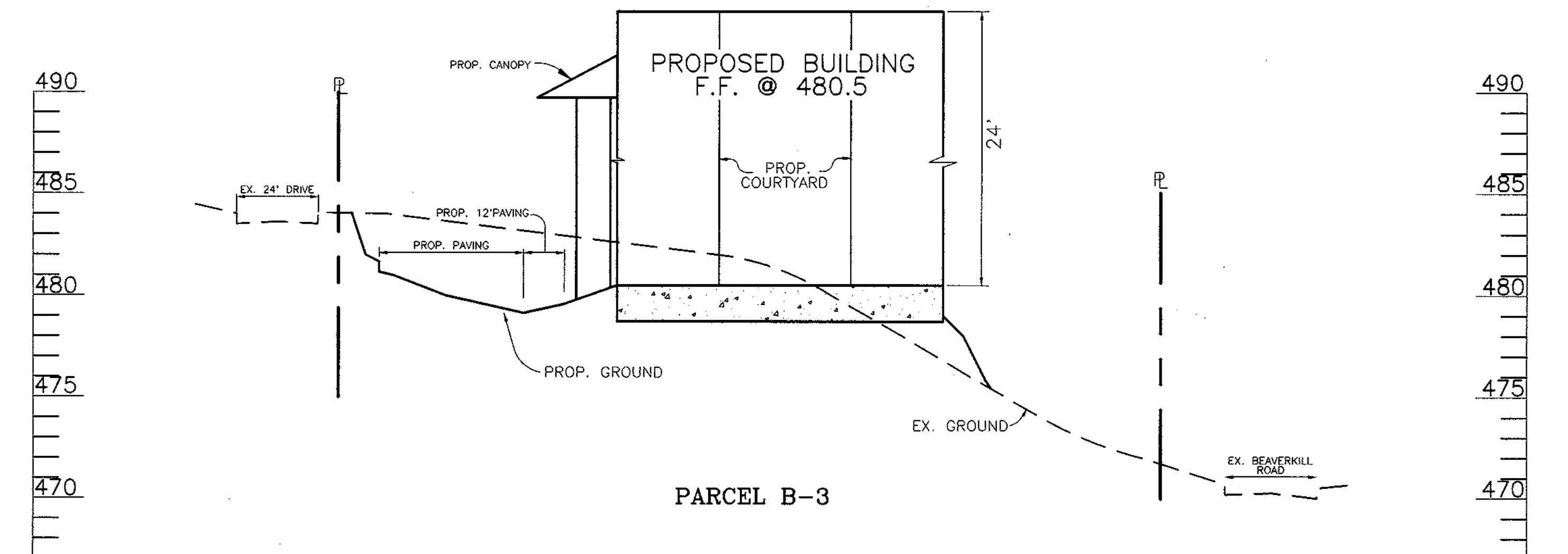
**HANDICAP SIGN**  
NOT TO SCALE



**HANDICAP SIGN**  
NOT TO SCALE



**SECTION A-A**  
SCALE: HORZ. 1"=30'  
VERT. 1"=5'



**SECTION B-B**  
SCALE: HORZ. 1"=30'  
VERT. 1"=5'

**APPROVED**  
**PLANNING BOARD**  
**OF HOWARD COUNTY**  
DATE: October 23, 1997

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS		HOWARD COUNTY HEALTH DEPARTMENT	
COUNTY HEALTH OFFICER		DATE	
ADDRESS CHART			
PARCEL NO.	STREET ADDRESS		
B-2	#5460 BEAVERKILL ROAD		
B-3	BEAVERKILL ROAD		
SUBDIVISION NAME	SECTION/AREA	PARCEL NUMBER	
VILLAGE OF HARPER'S CHOICE	5/8	B-3 & B-2	
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE
6475	23	N.T./O.S.	29
ELECT. DIST.		CENSUS TR.	
5		6052.01	
WATER CODE	102	SEWER CODE	5583500

NO.	REVISION	DATE

SECTIONS & DETAILS FOR  
**WINTER GROWTH SENIOR CENTER**  
VILLAGE OF HARPER'S CHOICE  
PARCELS B-2 & B-3  
FILE NO.S: F.D.P.# 183, F-85-154 & S.D.P. 86-32C  
TAX MAP #29 PARCEL B-2 & B-3  
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**MARKS & VOGEL ASSOCIATES, INC.**  
ENGINEERS - SURVEYORS - PLANNERS  
3691 PARK AVENUE, SUITE 101  
ELLCOTT CITY, MARYLAND 21043  
TELEPHONE: (410) 461-5828  
FAX: (410) 465-3988

DESIGN BY: R.A.M.  
DRAWN BY: R.A.M.  
CHECKED BY: R.H.V.  
DATE: MAY, 1997  
SCALE: AS SHOWN  
W.O. NO.: 97-01

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

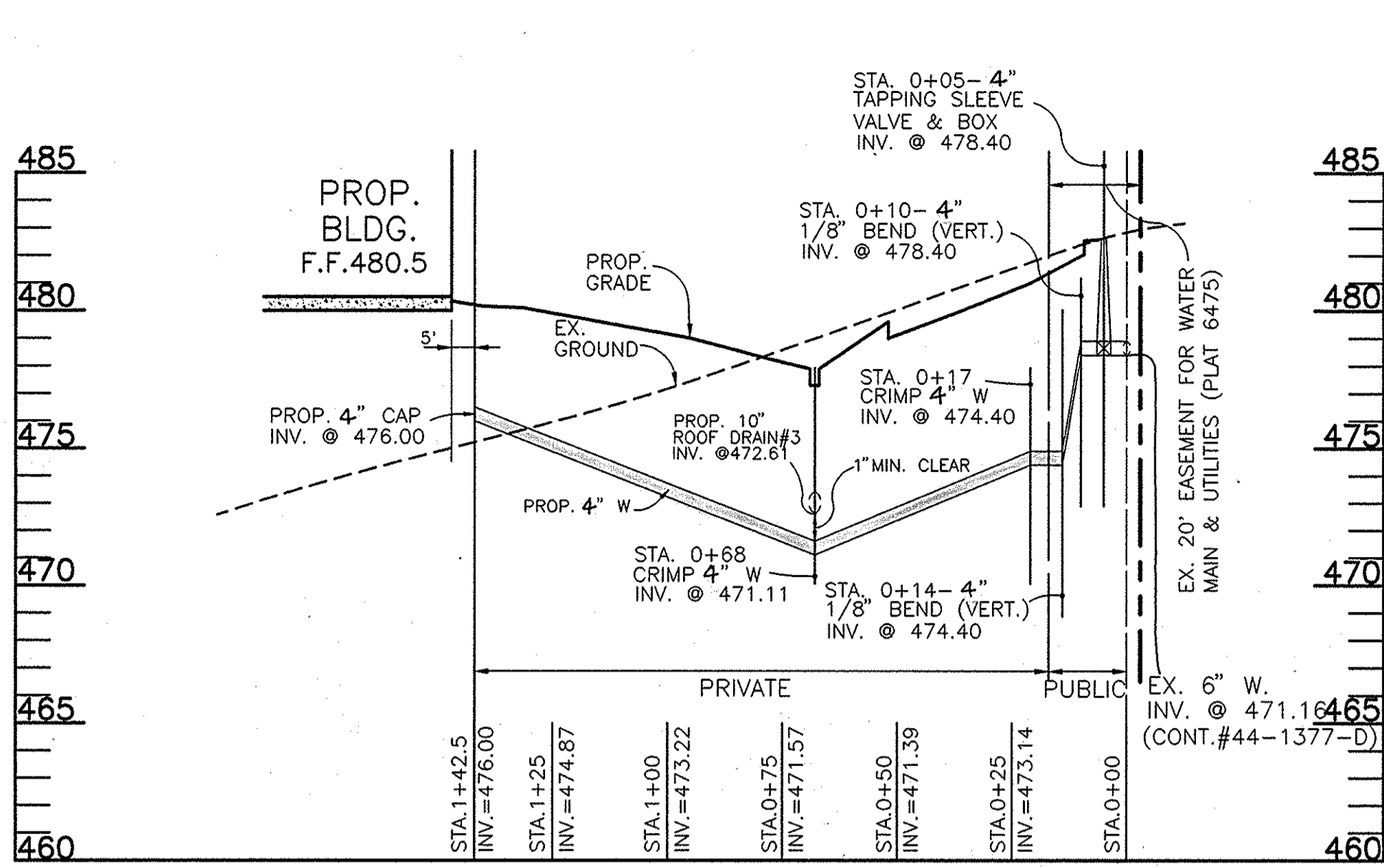
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Cheryl Simmons* 2/25/98 DIRECTOR DATE  
*Chris Hamilton* 2/2/98 CHIEF, LAND DEVELOPMENT DATE  
*John R. Robinson* 2/25/98 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE

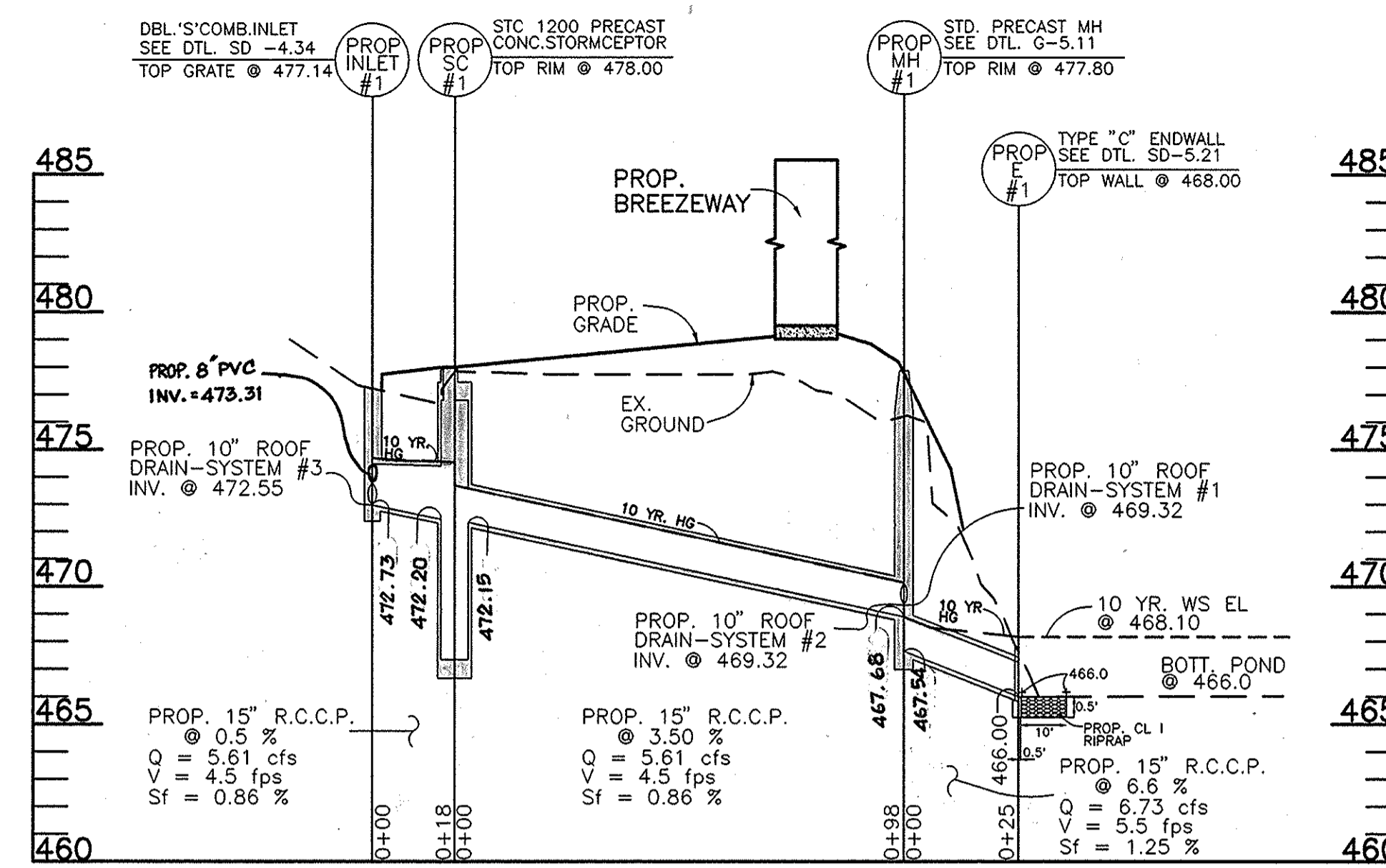
THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

**TRASH ENCLOSURE ELEVATION**  
NOT TO SCALE



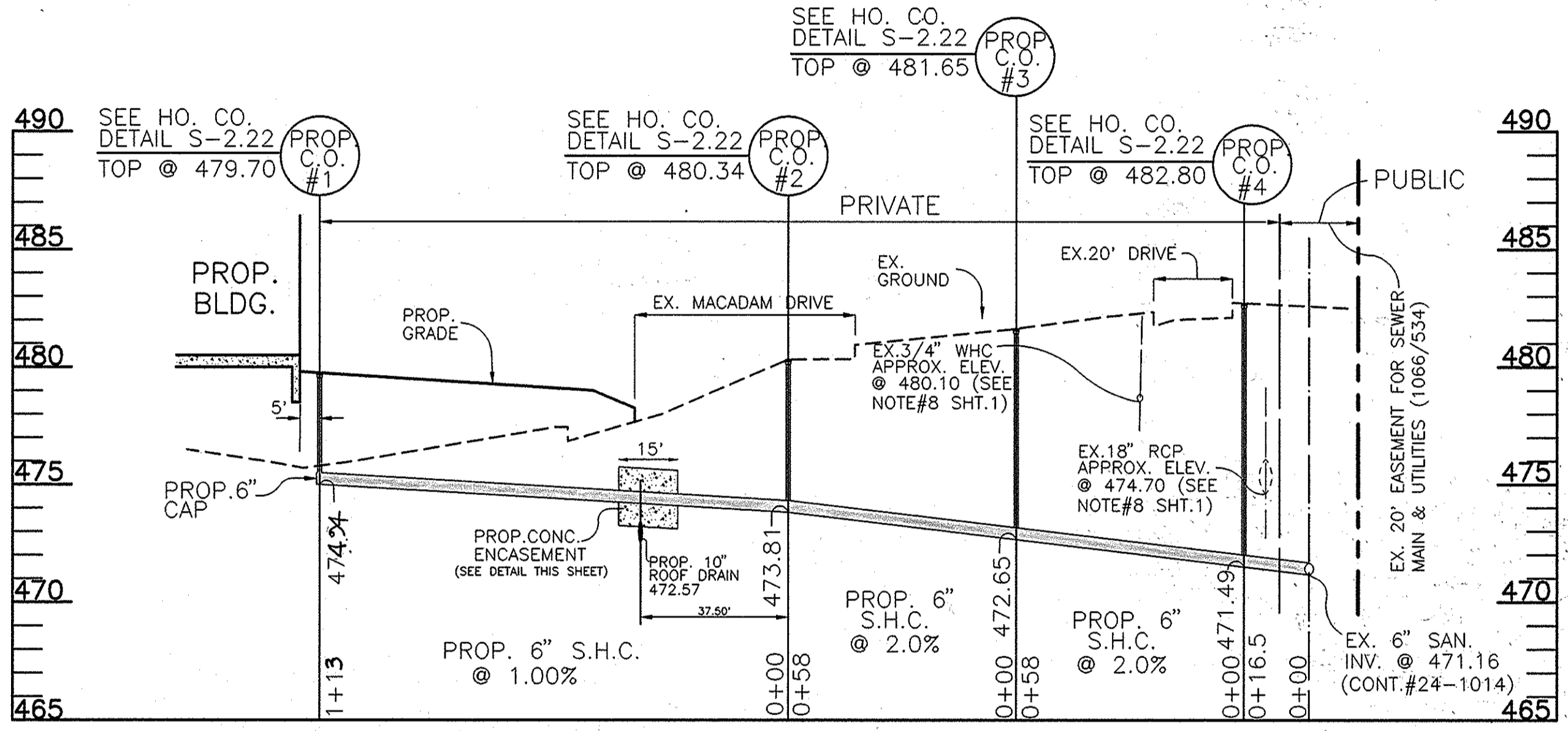
**WATERMAIN PROFILE**

SCALE: HORZ. 1"=30'  
VERT. 1"=5'



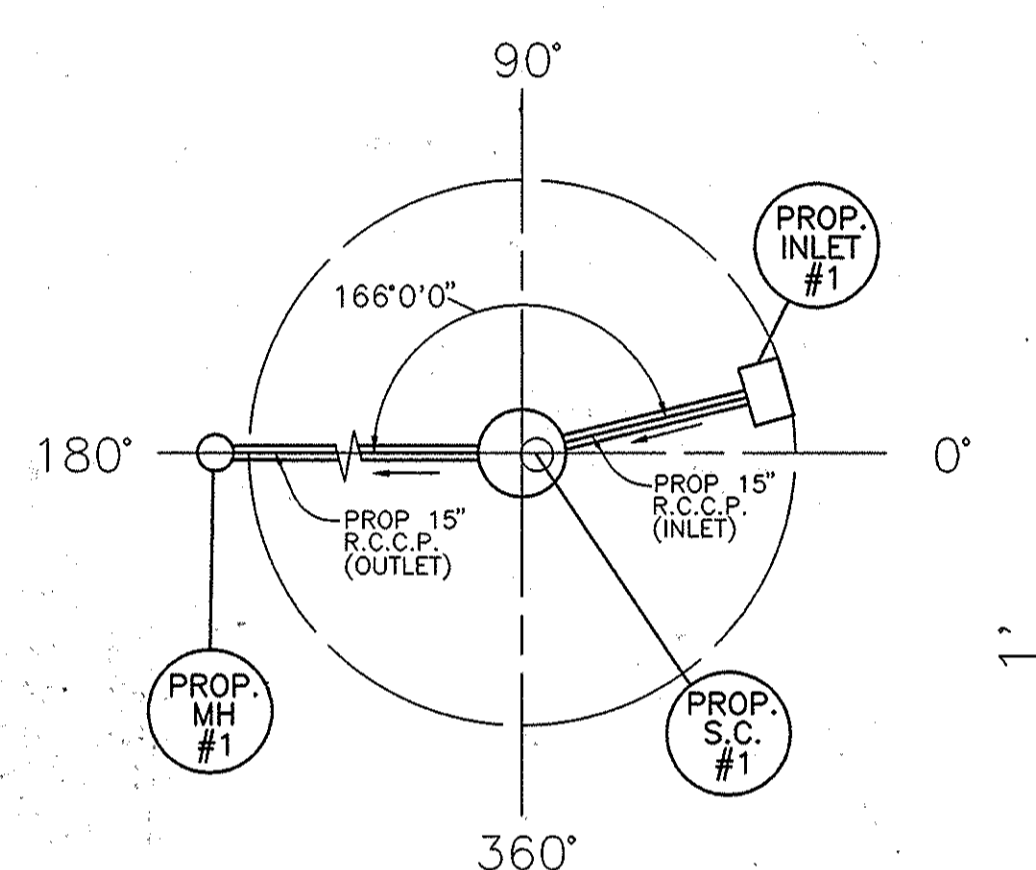
**STORM DRAIN PROFILE**

SCALE: HORZ. 1"=30'  
VERT. 1"=5'



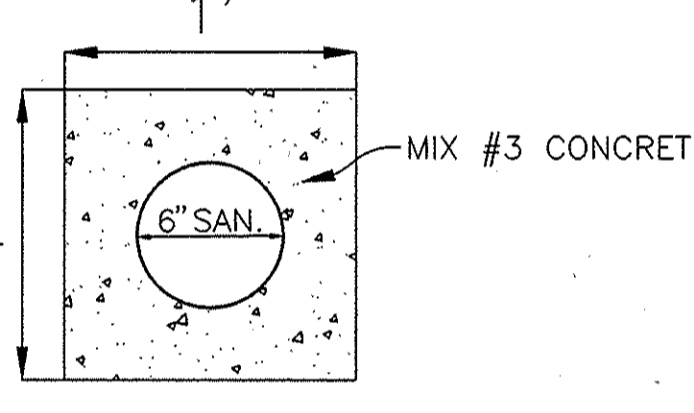
**SANITARY SEWERMAIN PROFILE**

SCALE: HORZ. 1"=30'  
VERT. 1"=5'



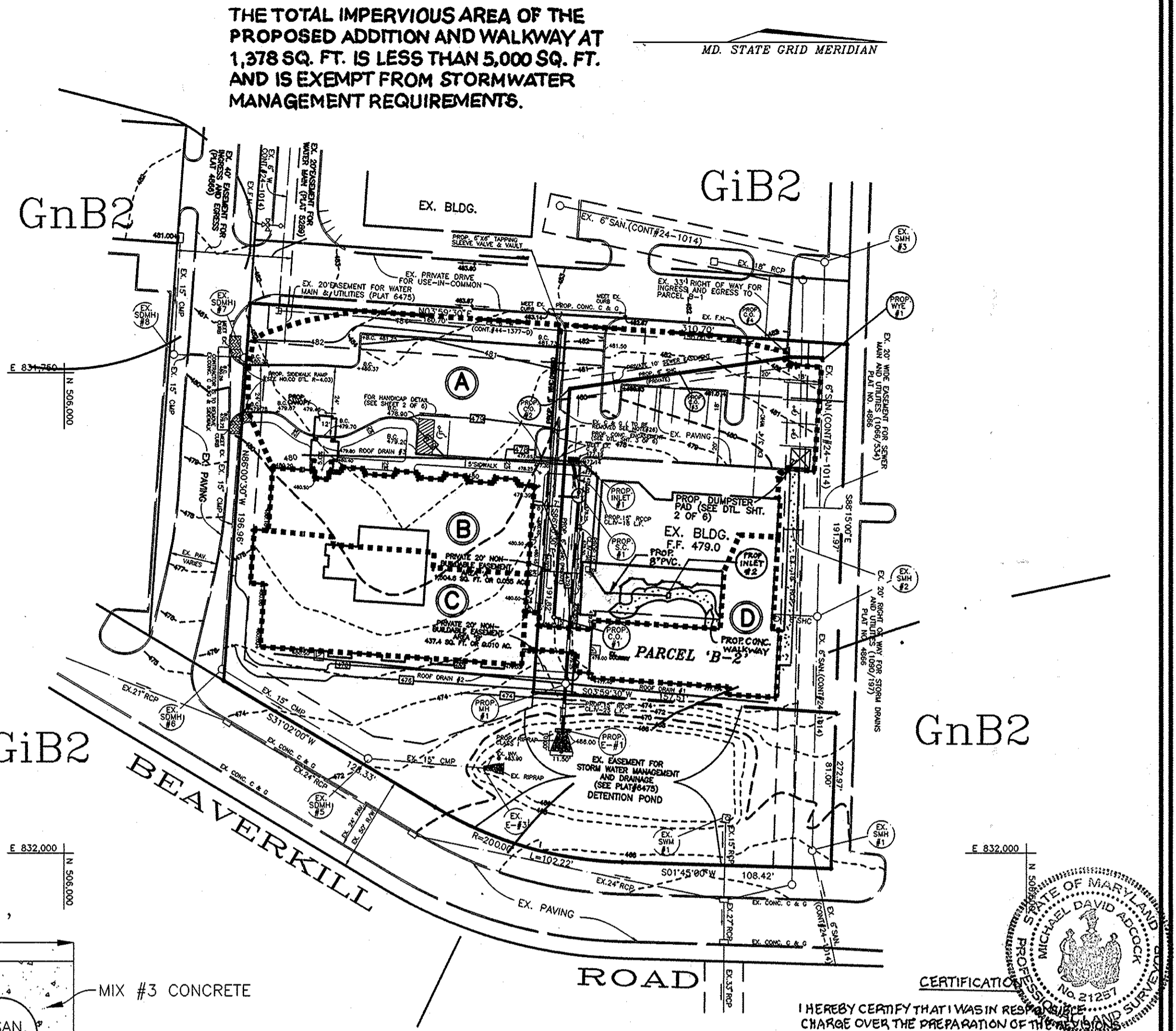
**STORMCEPTOR**

NOT TO SCALE



**CONCRETE ENCASEMENT**

NOT TO SCALE



**DRAINAGE AREA MAP**

SCALE: 1"=50'

I HEREBY CERTIFY THAT I WAS IN PERSONAL CHARGE OVER THE PREPARATION OF THE DRAWING MARKED "1" ON THIS DRAWING, AND THAT IT IS IN COMPLIANCE WITH REQUIREMENTS SET FORTH IN THE CODE OF MARYLAND TITLE 8, SUBTITLE 13, CHAPTER 06, REGULATION 12.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR  
NO. 22257, EXPIRATION DATE: 06-11-2015

**SOIL CHART**

SOIL	NAME/DESCRIPTION	GROUP
GnB2	GLENVILLE SILT LOAM, MODERATELY ERODED	B
GIB2	GLENELG LOAM, MODERATELY ERODED	B

AREA	ACREAGE	'C'	IMPERV.
A	0.74	0.65	0.48 AC
B	0.13	0.86	0.13 AC
C	0.17	0.86	0.17 AC
D	0.12	0.86	0.12 AC

**INLET SCHEDULE**

NO.	TYPE	TOP ELEV.	INV. IN	INV. OUT	Q cfs	HO. CO. DET.
I-1	DBL.'S' COMB.	477.14	-	472.55	5.53	SD-4.34
I-2	NDS# 1200 CB	478.30	-	474.50	0.24	

**STRUCTURE SCHEDULE**

NO.	TYPE	TOP ELEV.	INV. IN	INV. OUT	HO. CO. DET.
MH-1	PRECAST MH	477.80	468.90	467.65	G-5.11
E-1	CONC. END SECTION	468.00	466.00	466.00	SD-5.21
SC-1	CONC. STORMCEPTOR	478.00	472.46	472.33	MODEL STC-1200

**STORMCEPTOR ORDER INFORMATION**

STORMCEPTOR MODEL: 1200  
 INSERT SIZE - (DIAMETER/HEIGHT): 6"/22"  
 STRUCTURE: SC-1  
 TOP ELEVATION: 478.00  
 INLET PIPE INVERT: 472.46  
 OUTLET PIPE INVERT: 472.33  
 PIPE SIZE: 15" RCCP CL IV

**NOTE:**  
 SEE DRAINAGE AREA MAP FOR CONTRIBUTING IMPERVIOUS AREA TO STORMCEPTOR.  
 AREAS: A.....=0.48 AC. +/-  
 B.....=0.13 AC. +/-  
 TOTAL.....=0.61 AC. +/-

**OPERATION AND MAINTENANCE SCHEDULE FOR STORMCEPTOR WATER QUALITY STRUCTURE**

THE STORMCEPTOR WILL BE VISUALLY INSPECTED ANNUALLY FOR THE PRESENCE OF OIL AND FUEL AND SEDIMENT BY REMOVING THE MANHOLE COVER. ANY OBSTRUCTIONS WILL BE CLEARED. THE SEDIMENT IS TO BE REMOVED WHEN THE SEDIMENT DEPTH REACHES 1.00 FEET (FOR STC 1200). REMOVAL OF THE MATERIALS IS TO BE PERFORMED BY A LICENSED WASTE MANAGEMENT COMPANY AND DISPOSAL IN ACCORDANCE WITH CURRENT REGULATIONS.

THE MAINTENANCE OF THE STORMCEPTOR UNIT SHALL BE DONE USING A VACUUM TRUCK WHICH WILL REMOVE THE WATER, SEDIMENT, DEBRIS, FLOATING HYDROCARBONS AND OTHER MATERIALS IN THE UNIT. PROPER CLEANING AND DISPOSAL OF THE REMOVED MATERIALS AND LIQUID MUST BE FOLLOWED BY THE OWNER.

THE OWNER SHALL RETAIN AND MAKE THE STORMCEPTOR INSPECTION/MONITORING FORMS AVAILABLE TO HOWARD COUNTY OFFICIALS UPON THEIR REQUEST.

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

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Cheryl Swimm* 2/25/98 DATE 3/16/98  
 DIRECTOR

*Chris Hamstra* 3/12/98 DATE 3/12/98  
 CHIEF, LAND DEVELOPMENT

*John P. Adcock* 2/25/98 DATE 3/30/98  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

HOWARD SOIL CONSERVATION DISTRICT

**APPROVED PLANNING BOARD OF HOWARD COUNTY**

DATE: OCTOBER 23, 1997

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

COUNTY HEALTH OFFICER DATE

ADDRESS CHART  
 PARCEL NO. | STREET ADDRESS  
 B-2 | #5460 BEAVERKILL ROAD  
 B-3 | BEAVERKILL ROAD

SUBDIVISION NAME | SECTION/AREA | PARCEL NUMBER  
 VILLAGE OF HARPER'S CHOICE | B-3 & B-2 |

PLAT NO. | BLOCK NO. | ZONE | TAX/ZONE | ELECT. DIST. | CENSUS TR.  
 6475 | 23 | N.Y. | O.S. | 29 | 5 | 6052.01

WATER CODE 102 | SEWER CODE 5583500

**DRAINAGE AREA MAP & PROFILES FOR WINTER GROWTH SENIOR CENTER VILLAGE OF HARPER'S CHOICE**

PARCELS B-2 & B-3  
 FILE NO. S: F.D.P.#183.F-85-154 & S.D.P.86-32C  
 TAX MAP #29 | PARCEL B-2 & B-3  
 5TH ELECTION DISTRICT | HOWARD COUNTY, MARYLAND

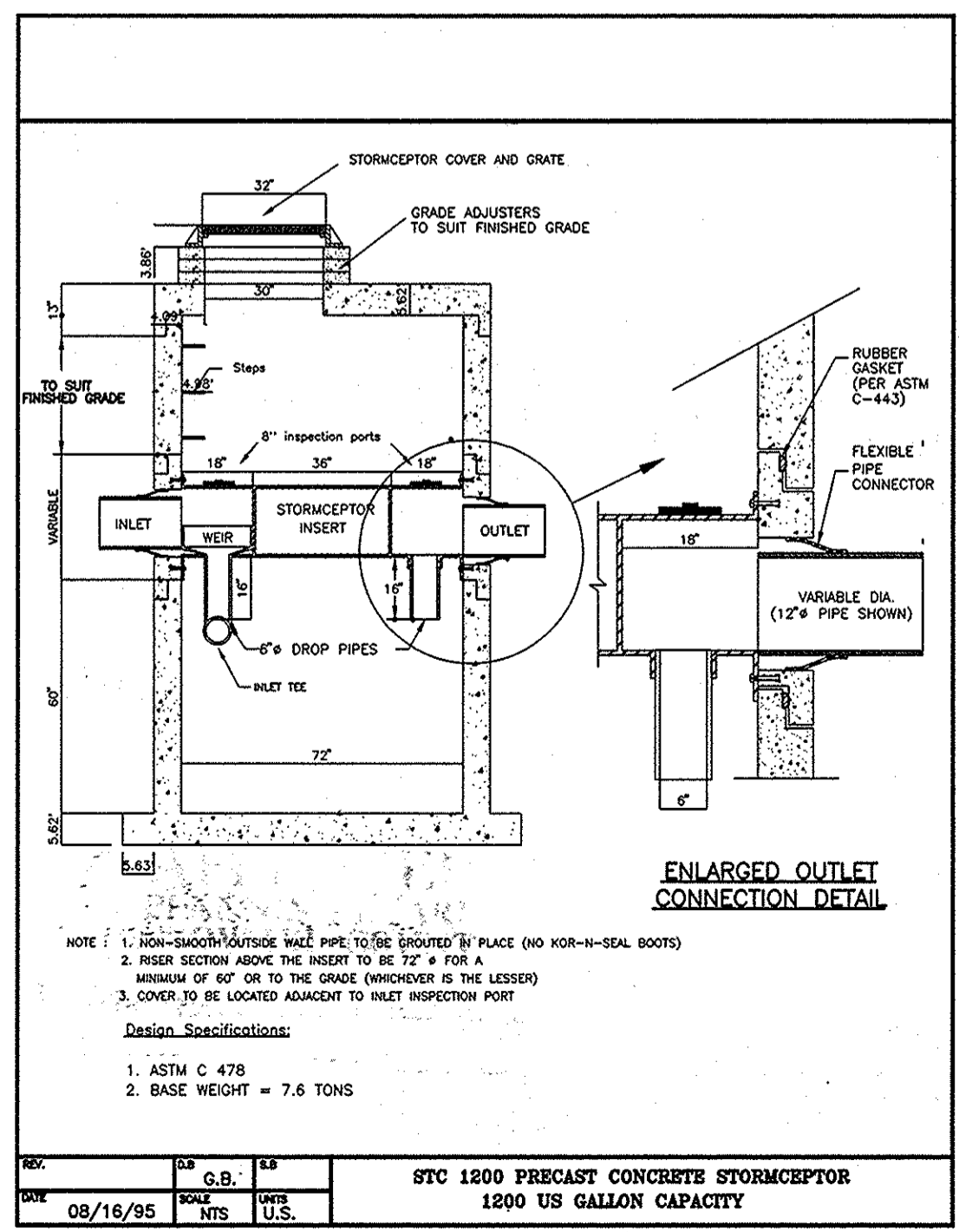
**MARKS & VOGEL ASSOCIATES, INC.**  
 ENGINEERS - SURVEYORS - PLANNERS

3691 PARK AVENUE, SUITE 101  
 ELLICOTT CITY, MARYLAND 21043

TELEPHONE: (410) 461-5828  
 FAX: (410) 465-3968

DESIGN BY: R.A.M.  
 DRAWN BY: R.A.M.  
 CHECKED BY: R.H.V.  
 DATE: MAY, 1997  
 SCALE: AS SHOWN  
 W.O. NO.: 97-01

3 SHEET OF 6



**SEQUENCE OF OPERATION**

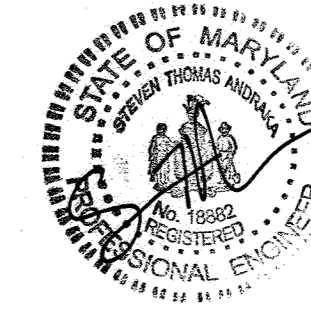
- OBTAIN GRADING PERMIT.
- NOTIFY THE HOWARD COUNTY DEPARTMENT OF PERMITS AND LICENSES 48 HOURS BEFORE BEGINNING WORK.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE (1 DAY).
- CLEAR AND GRUB FOR SEDIMENT CONTROL MEASURES (2 DAYS).
- INSTALL SUPER SILT FENCE (1 DAY).
- CLEAR AND GRUB REMAINDER OF SITE TO BE DISTURBED (1 DAY).
- BEGIN CONSTRUCTION OF PROPOSED BUILDING.
- WITH PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR ROUGH GRADE THE REMAINDER OF SITE (3 DAYS).
- INSTALL UTILITIES AND STORM DRAINS (5 DAYS).
- FINE GRADE THE SITE AND INSTALL CURB AND GUTTER WHERE POSSIBLE.
- WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR AND DURING A DRY WEATHER FORECAST, INSTALL REMAINDER OF CURB AND GUTTER, STABILIZE AREAS OUTSIDE OF PAVING OPERATION (2 DAYS).
- INSTALL SUB-BASE (3 DAYS).
- BEGIN PAVING OPERATIONS (3 DAYS).
- WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR REMOVE REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE WITH PERMANENT SEEDING (1 DAYS).

**LEGEND**

- EXISTING GROUND ----- 472 -----
- PROPOSED GRADE ----- 472 -----
- EXISTING WATER -----
- EXISTING SEWER -----
- EXISTING STORM DRAIN -----
- EXISTING CURB & GUTTER -----
- PROPERTYLINE -----
- EXISTING R/W -----
- EASEMENT -----
- PROPOSED C&G -----
- P-2 PAVING [Symbol]
- LIMIT OF DISTURBANCE [Symbol]
- STABILIZED CONSTRUCTION ENTRANCE [Symbol]
- SUPER SILT FENCE [Symbol]
- SILT FENCE [Symbol]

FOR REVISION #2 ONLY

**DFI** ENGINEERS-SURVEYORS-PLANNERS  
CONSTRUCTION MANAGERS  
127 BENFIELD BLVD, SUITE K  
MILLERSVILLE, MD 21108  
WWW.DFIENGINEERING.COM  
413-308-2100 FAX 413-308-2108



"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 18882, EXPIRATION DATE: 10-14-2022."

**PURPOSE NOTE**  
THE PURPOSE OF THIS REVISION IS TO ADD A DIESEL GENERATOR WITH CONCRETE PAD.

**THE TOTAL IMPERVIOUS AREA OF THE PROPOSED ADDITION AND WALKWAY AT 1,378 SQ. FT. IS LESS THAN 5,000 SQ. FT. AND IS EXEMPT FROM STORMWATER MANAGEMENT REQUIREMENTS.**

**CERTIFICATION**

I HEREBY CERTIFY THAT I WAS IN RESPONSIBLE CHARGE OVER THE PREPARATION OF THE REVISIONS MARKED WITH THIS DRAWING AND THAT IT IS IN COMPLIANCE WITH REQUIREMENTS SET FORTH IN THE CODE OF MARYLAND TITLES 9, SUBTITLE 13, CHAPTER 06, REGULATION 12.



*Michael D. Adcock* 4-6-2015  
MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR OR NO. 2125, EXPIRATION DATE: 06-16-2025

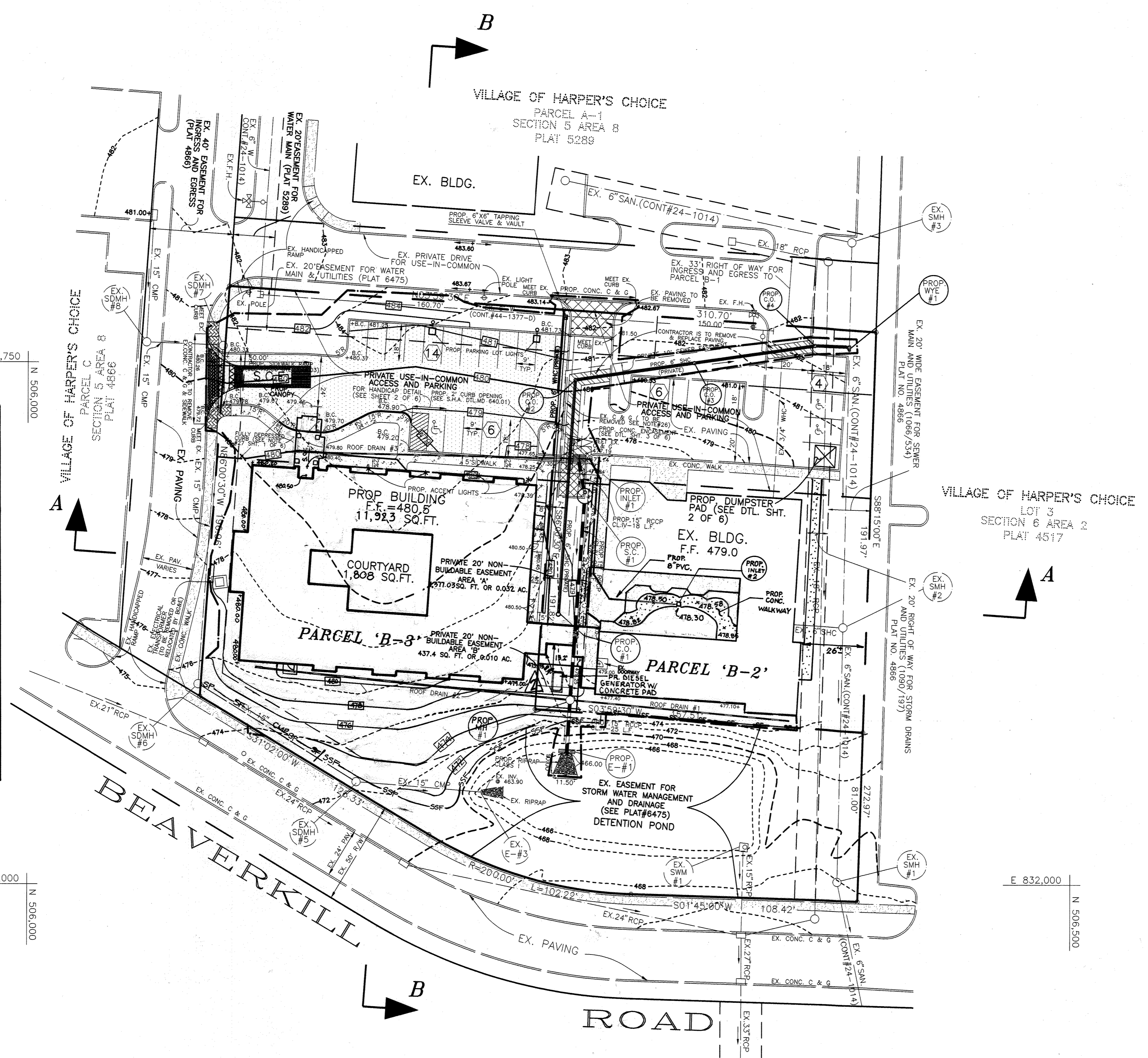
NO.	REVISION	DATE
1	2 NEW BEDROOMS AND WALKWAY MODIFICATION TO BUILDING B-2	3/16/15
2	ADD DIESEL GENERATOR W/ CONCRETE PAD	11/13/20

**SEDIMENT & EROSION CONTROL PLAN FOR WINTER GROWTH SENIOR CENTER VILLAGE OF HARPER'S CHOICE PARCELS B-2 & B-3**  
FILE NO.S: F.D.P.#183, F-85-154 & S.D.P. 86-32C  
TAX MAP #29 5TH ELECTION DISTRICT PARCEL B-2 & B-3 HOWARD COUNTY, MARYLAND

**MARKS & VOGEL ASSOCIATES, INC.**  
ENGINEERS - SURVEYORS - PLANNERS

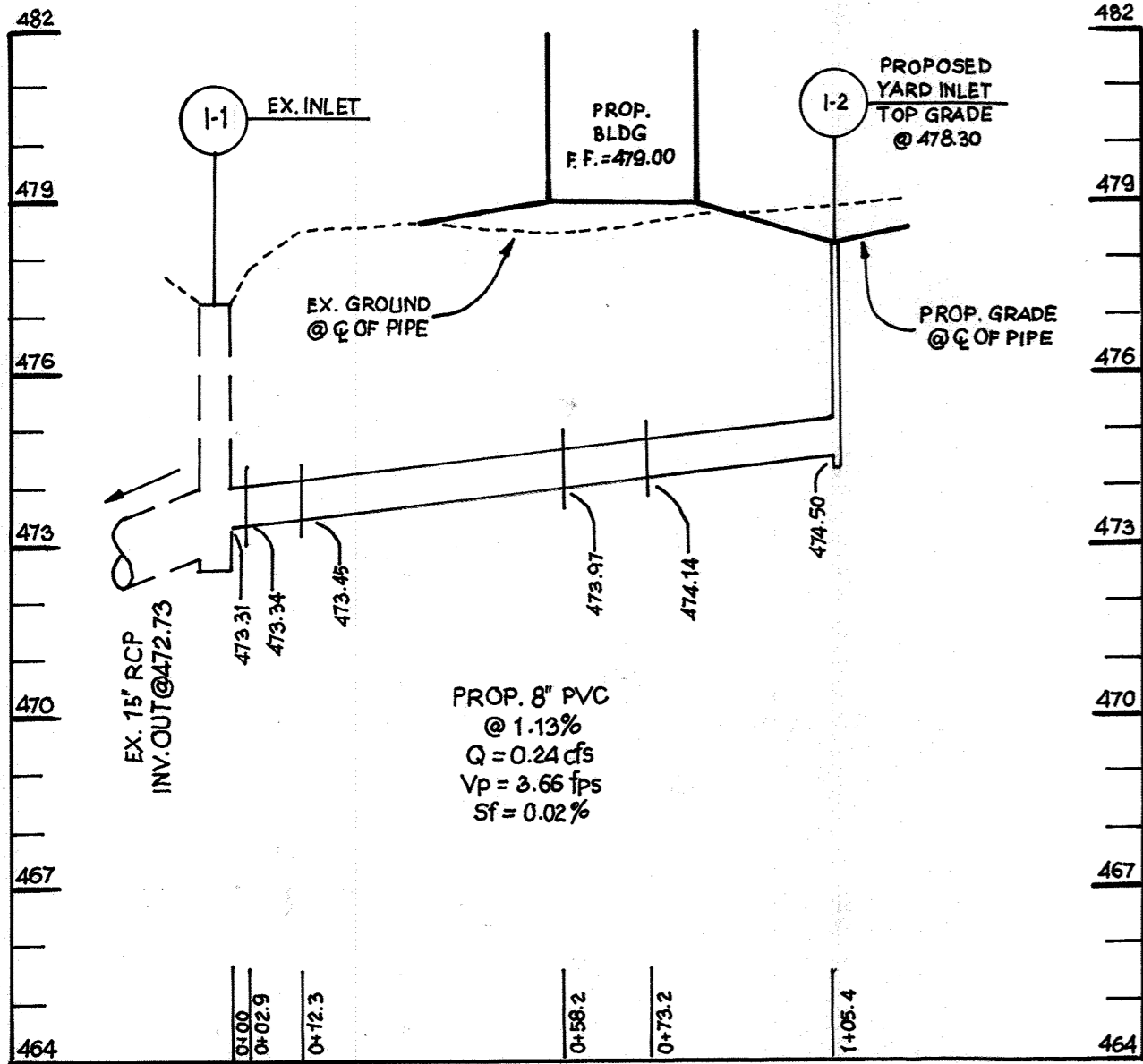
3691 PARK AVENUE, SUITE 101 ELLICOTT CITY, MARYLAND 21048  
TELEPHONE: (410) 461-5828 FAX: (410) 465-3986

DESIGN BY: R.A.M.	4 SHEET OF 6
DRAWN BY: R.A.M.	
CHECKED BY: R.H.V.	
DATE: MAY, 1997	
SCALE: 1"=30'	
W.O. NO.: 97-01	



**PLAN**  
SCALE: 1"=30'

**AREA OF DISTURBANCE**  
44,550 SQ. FT. OR 1.023 AC. +/-



**STORM DRAIN PROFILE FROM I-2 TO I-1**  
HORIZONTAL SCALE: 1"=30'  
VERTICAL SCALE: 1"=3'

NOTE: PROPOSED YARD INLET I-2 SHALL BE 12"X12" NDS# I200 CATCH BASIN WITH CAST IRON SQUARE GRATE OR APPROVED EQUAL.  
PLACE PIPE UNDER BUILDING ON 6" COMPACTED-IN-PLACE C33 CONCRETE SAND OR EQUAL. BACKFILL ENTIRE TRENCH UNDER BUILDING WITH C33 CONCRETE SAND OR EQUAL.

**APPROVED PLANNING BOARD OF HOWARD COUNTY**  
DATE: OCTOBER 23, 1997

**ENGINEERS CERTIFICATE**  
"I HEREBY 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."  
*Robert H. Vogel* 2/10/97  
SIGNATURE OF ENGINEER DATE  
ROBERT H. VOGEL

**DEVELOPER'S CERTIFICATE**  
"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT 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."  
*Margaret Babin* 2-20-98  
SIGNATURE OF DEVELOPER DATE

THESE PLANS HAVE BEEN REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.  
*John R. Plutner* 2/25/98  
USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE  
THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*John R. Plutner* 2/25/98  
DIRECTOR DATE  
*Cindy Hamilton* 3/12/95  
CHIEF, LAND DEVELOPMENT DATE  
*John R. Plutner* 2/25/98  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
COUNTY HEALTH OFFICER DATE  
ADDRESS CHART  
PARCEL NO. STREET ADDRESS  
B-2 #5460 BEAVERKILL ROAD  
B-3 BEAVERKILL ROAD  
SUBDIVISION NAME SECTION/AREA PARCEL NUMBER  
VILLAGE OF HARPER'S CHOICE 5/8 B-3 & B-2  
PLAT NO. BLOCK NO. TAX/ZONE ELECT. DIST. CENSUS TR.  
6475 23 N.T./O.S. 29 5 6052.01  
WATER CODE 102 SEWER CODE 5583500

**21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL**

**DEFINITION**  
Placement of topsoil over prepared subsoil prior to establishment of permanent vegetation.

**PURPOSE**  
To provide a suitable soil medium for vegetative growth. Soils of concern are those with low moisture content, low nutrient levels, low pH, material toxic to plants, and/or unacceptable soil gradation.

**CONDITION WHERE PRACTICE APPLIES**

- This practice is limited to areas having 2:1 or flatter slopes where:
  - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
  - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
  - The original soil to be vegetated contains material toxic to plant growth.
  - The soil is so acidic that treatment with limestone is not feasible.
- For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration for design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

**CONSTRUCTION AND MATERIAL SPECIFICATIONS**

- Topsoil salvaged from the existing site may be used, provided that it meets the standards of the local health department. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the soil survey published by USDA-SCS in cooperation with Maryland Agriculture Experiment Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
  - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used as recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, or other materials larger than 1 1/2" in diameter.
  - Topsoil must be free of plants or plant parts such as poison ivy, thistle, or others as specified.
  - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4 tons per acre (1.4 lbs./1000 sq. ft.) prior to the placement of topsoil. Lime shall be applied uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- For sites having disturbed areas under 5 acres:
  - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.
- For sites having disturbed areas over 5 acres:
  - On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
    - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
    - Organic content of topsoil shall not be less than 1.5 percent by weight.
    - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
    - No sod or seed shall be placed on soil which has been treated with herbicides or chemicals used for weed control until sufficient time has elapsed (14 minimum) to permit dissipation of phytotoxic materials.
  - Place a topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.
- Topsoil Application
  - When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Erosion Dikes, Slope Silt Fences and Sediment Traps and Basins.
  - Grades on the areas to be topsoiled, which have been previously established shall be maintained, albeit 4" higher in elevation.
  - Topsoil shall be uniformly distributed in a 4"-8" layer, and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding of seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the formation of depressions or water pockets.
  - Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition. Topsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

**TEMPORARY SEEDING**

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

**Seedbed Preparation:** Loosen upper three inches of soil by raking, discing, or other acceptable means before seeding, if not previously loosened.

**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 November 15, seed with 2 1/2 bushel per acre of annual ryegrass (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 feet 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.

**PERMANENT SEEDING NOTES**

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

**Seedbed Preparation:** Loosen upper 3 inches of soil by raking, discing, or other acceptable means before seeding, if not previously loosened.

**Soil Amendments:** Use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq. ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.) before seeding. Harrow or disc into upper 3 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 1000 lbs. per acre 10-10-10 fertilizer (23 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 60lbs. 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. of 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. per acre Kentucky 31 Tall Fescue, and mulch with 2 tons per acre well anchored straw.

**Mulching:** Apply 1 1/2 to 2 tons per acre (70-90 lbs./1000 sq. ft.) of un-rotted 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.

**SEDIMENT CONTROL NOTES**

- All Grading Permits shall be obtained prior to the starting of any Grading work.
- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction (992-2437).
- All vegetation 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 redistribution, 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, Storm Drainage, of the Howard County Design Manual.
- 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 seeding (Sec. 51), sod (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 proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.

**Site Analysis**

Total area of site R/W and easements:

Parcel B-2=	0.677 AC +/- acres
Parcel B-3=	1.180 AC +/- acres
<b>Total=</b>	<b>1.857 AC +/- acres</b>

Area disturbed..... **1.055 AC +/- acres**

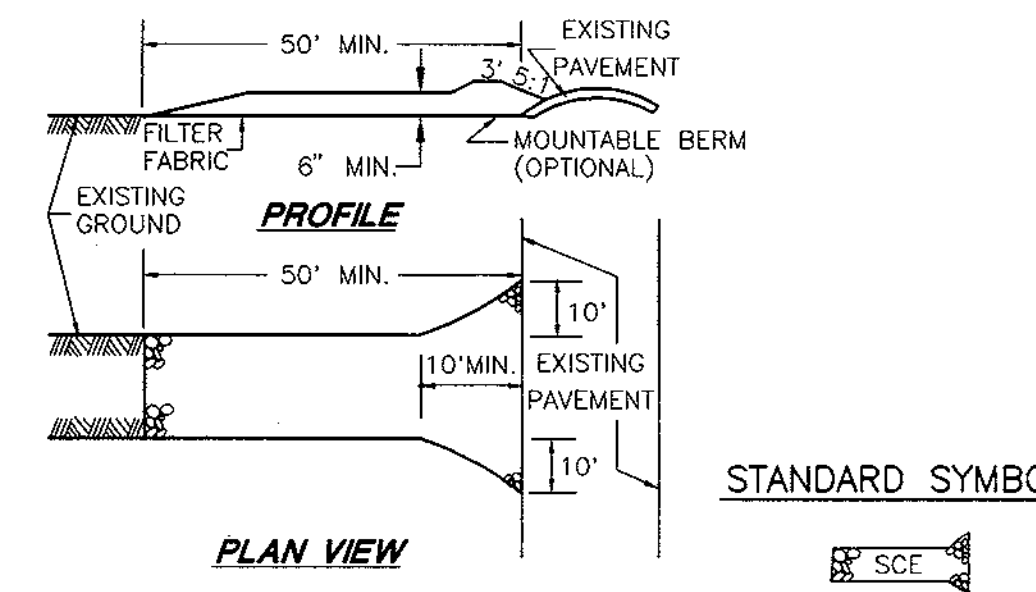
Area to be roofed or paved: Parcel B-2= 0.33 AC +/- acres  
Parcel B-3= 0.41 AC +/- acres  
Total= 0.74 AC +/- acres

Area to be vegetatively stabilized..... **0.82 AC +/- acres**

Total cut..... 1,570 cu. yds.  
Total fill..... 1,236 cu. yds.  
Offsite waste/borrow area location..... N/A

Excess cut/spoil to be placed on a site with an approved sediment control plan and active grading permit.

- 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 Sediment Control Inspector.
- All sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- It is the contractor's responsibility to clean/restore the adjacent SWM facilities due to sediment emanating from construction activities on this site.

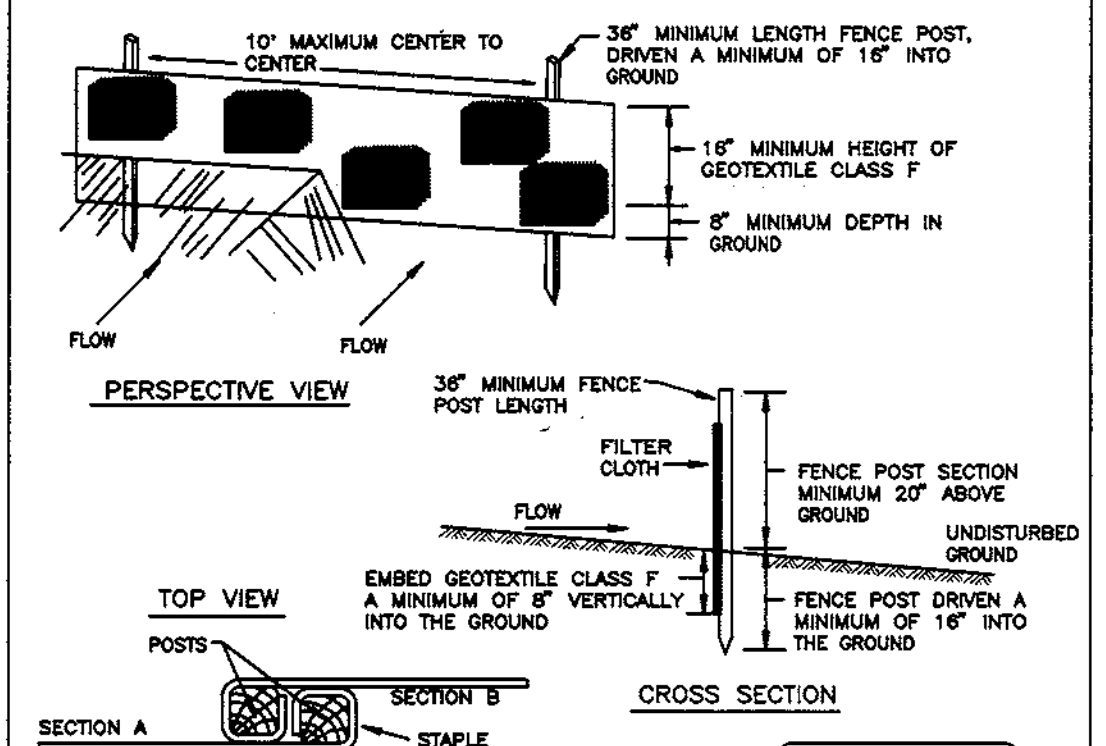


**STABILIZED CONSTRUCTION ENTRANCE**  
N.T.S

**CONSTRUCTION SPECIFICATIONS (SCE)**

- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENT LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINT WHERE INGRESS AND EGRESS OCCURS.
- FILTER CLOTH - WILL BE PLACED OVER ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY LOT.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

**DETAIL 22 - SILT FENCE**



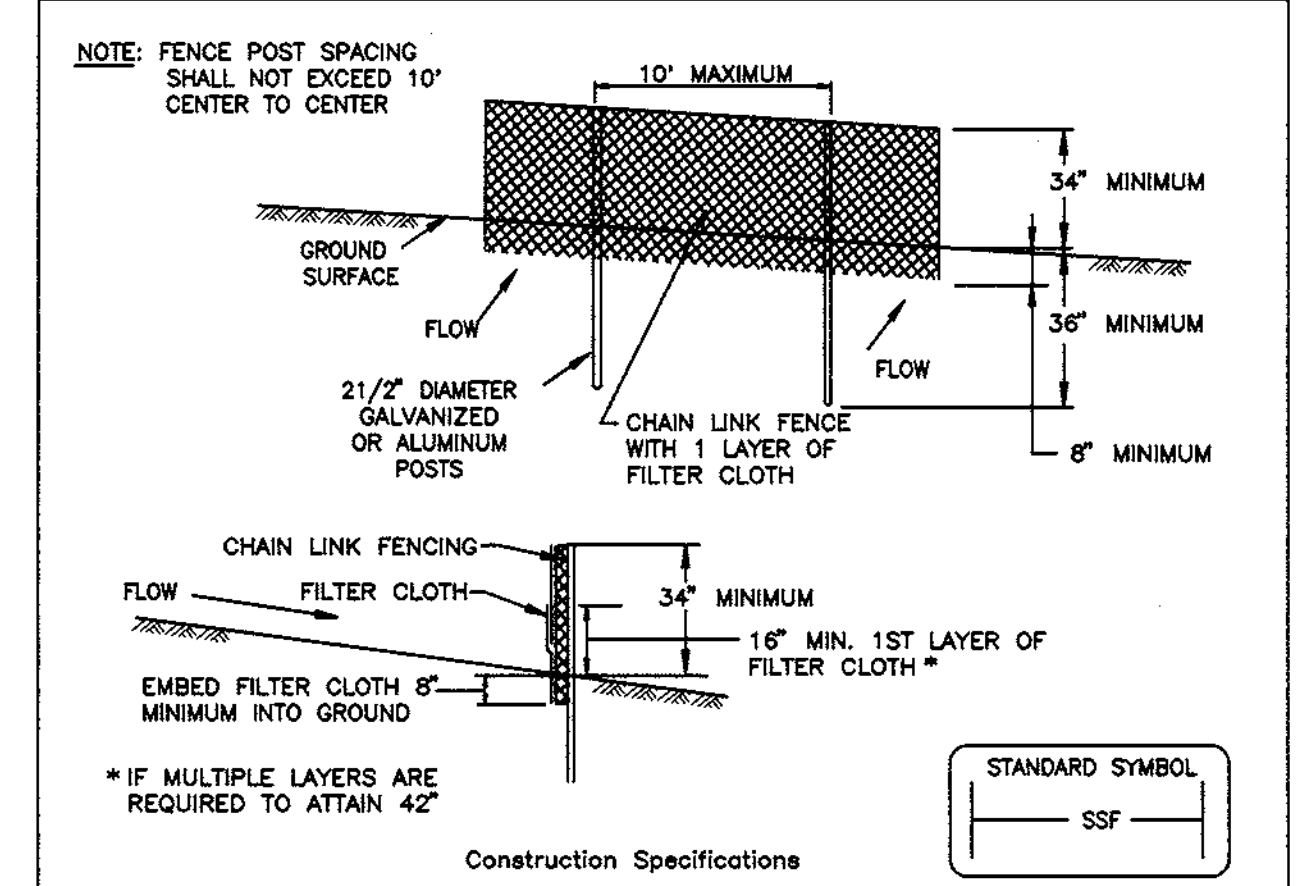
**CONSTRUCTION SPECIFICATIONS**

- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:
 

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft <sup>2</sup> /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 1-15-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

**DETAIL 33 - SUPER SILT FENCE**



**CONSTRUCTION SPECIFICATIONS**

- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.
- Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.
- Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- Filter cloth shall be embedded a minimum of 8" into the ground.
- When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
- Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft <sup>2</sup> /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE H-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

**APPROVED PLANNING BOARD**  
of HOWARD COUNTY  
DATE OCTOBER 23, 1997

**ENGINEERS CERTIFICATE**

"I HEREBY 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."

*Robert H. Vogel*  
SIGNATURE OF ENGINEER  
DATE 11/10/97

**DEVELOPER'S CERTIFICATE**

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION SHALL BE DONE IN ACCORDANCE TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT 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."

*Margaret Bumba*  
SIGNATURE OF DEVELOPER  
DATE 2-20-98

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

*Cheyl Simmons*  
USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE 2/25/98

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

*John P. Rhett*  
HOWARD SOIL CONSERVATION DISTRICT DATE 2/25/98

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Charles Hamilton*  
DIRECTOR DATE 3/16/98

*Charles Hamilton*  
CHIEF, LAND DEVELOPMENT DATE 3/2/98

*Bob Danmunn*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 2/2/98

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

COUNTY HEALTH OFFICER DATE

ADDRESS CHART	PARCEL NO.	STREET ADDRESS
	B-2	#5460 BEAVERKILL ROAD
	B-3	BEAVERKILL ROAD
SUBDIVISION NAME	SECTION/AREA	PARCEL NUMBER
VILLAGE OF HARPER'S CHOICE	5/8	B-3 & B-2
PLAT NO.	BLOCK NO.	ZONE
6475	23	N.T./O.S.
TAX/ZONE	ELECT. DIST.	CENSUS TR.
29	5	6052.01
WATER CODE	102	SEWER CODE
		5583500

NO.	REVISION	DATE

**SEDIMENT CONTROL NOTES & DETAILS**  
FOR  
**WINTER GROWTH SENIOR CENTER**  
VILLAGE OF HARPER'S CHOICE  
PARCELS B-2 & B-3

FILE NO.S: F.D.P.#183, F-85-154 & S.D.P. 86-320

TAX MAP #29 PARCEL B-2 & B-3  
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**MARKS & VOGEL ASSOCIATES, INC.**  
ENGINEERS - SURVEYORS - PLANNERS

3691 PARK AVENUE, SUITE 101  
ELLCOTT CITY, MARYLAND 21043

TELEPHONE: (410) 461-5828  
FAX: (410) 465-5986

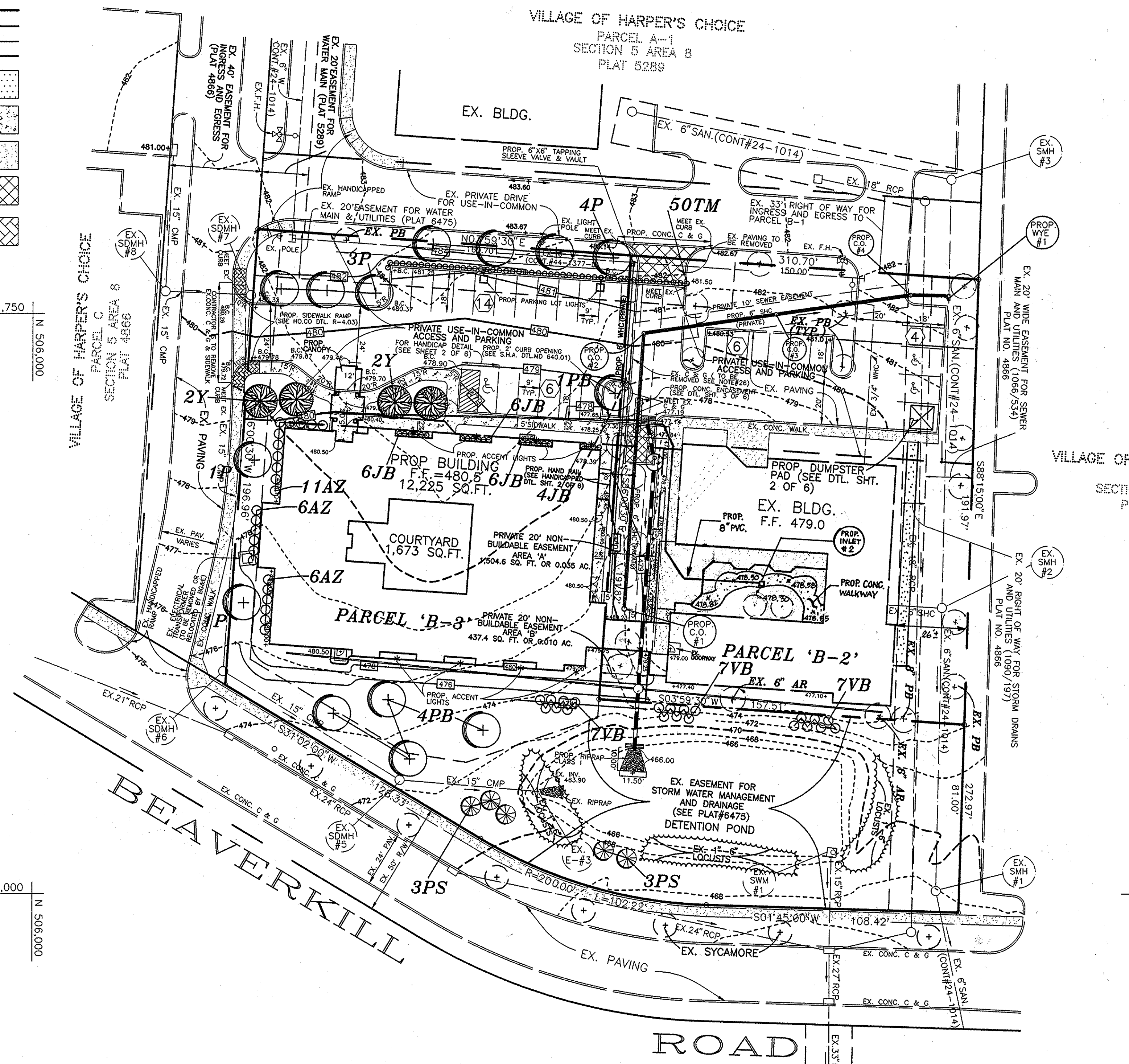
STATE OF MARYLAND PROFESSIONAL ENGINEER

DESIGN BY: R.A.M.  
DRAWN BY: R.A.M.  
CHECKED BY: R.H.V.  
DATE: MAY, 1997  
SCALE: 1"=30'  
W.O. NO.: 97-01

5 SHEET OF 6

**LEGEND**

- EXISTING GROUND 472
- PROPOSED GRADE 472
- EXISTING WATER
- EXISTING SEWER
- EXISTING STORM DRAIN
- EXISTING CURB & GUTTER
- PROPERTYLINE
- EXISTING R/W EASEMENT
- PROPOSED C&G
- PROP. P-2 PAVING
- PROP. CONC. SIDEWALK
- EX. CONC. SIDEWALK
- EX. PAV. TO BE REMOVED
- PROP. HANDICAP RAMP
- PROPOSED SHADE TREE
- PROPOSED DECIDUOUS TREE
- PROPOSED EVERGREEN TREE
- PROPOSED SHRUB
- EX. TREE



**PLAN**  
SCALE: 1"=30'

NOTE:  
1. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.  
2. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING MUST BE POSTED AS PART OF THE GRADING PERMIT IN THE AMOUNT OF \$1,000.00.  
3. THE CONTRACTOR IS TO EXERCISE CAUTION WHEN INSTALLING LANDSCAPING IN CLOSE PROXIMITY TO SITE UTILITIES.

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

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*John R. Polinton* 2/25/98  
DIRECTOR

*Charles Hamilton* 3/16/98  
CHIEF, LAND DEVELOPMENT

*John R. Polinton* 2/25/98  
CHIEF, DEVELOPMENT ENGINEERING DIVISION 1 DATE

USDA-NATURAL RESOURCES CONSERVATION SERVICE

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

**LANDSCAPE SCHEDULE**

KEY	QTY	BOTANICAL NAME/COMMON NAME	SIZE	CONT
PS	5	PINUS STROBUS/ EASTERN WHITE PINE	6'-8' MIN. HT.	B+B
PB	5	CLEVELAND SELECT */ BRADFORD PEAR	2 1/2"-CAL.	B+B
P	9	QUERCUS PALUSTRIS/ PIN OAK	12'-14' HT.	B+B
AZ	23	AZALEA/ DELAWARE VALLEY WHITE AZALEA	24"-30" SPR.	B+B
JB	22	JUNIPERUS "BLUECHIP"/ BLUECHIP JUNIPER	18"-24" SPREAD	CONT.
Y	4	PRUNUS YEDOENSIS/ YOSHINO CHERRY	2"-CAL.	B+B
VB	21	VERBENUM X BURKWOODII/ BURKWOOD VIBURNUM	3'-4' HT.	B+B
TM	50	TAXUS X MEDIA "DENSIFORMIS"/ DENSIFORMIS YEW	2-1/2"-3" HT.	B+B

\* SINGLE LEADER ONLY

- PLANTING NOTES**
- PLANTS, RELATED MATERIALS, AND OPERATIONS SHALL MEET THE DETAILED DESCRIPTION AS GIVEN ON THE PLANS AND AS DESCRIBED HEREIN.
  - ALL PLANT MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE NURSERY GROWN, UNIFORMLY BRANCHED AND HAVE A VIGOROUS ROOT SYSTEM. PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS PLANTS FREE FROM DEFECTS, DECAY, DISFIGURING ROOTS, SUNSCALD INJURIES, ABRASIONS OF THE BARK, PLANT DISEASE, INSECT PEST EGGS, BORERS AND ALL FORMS OF INFESTATION OR OBJECTIONABLE DISFIGUREMENTS. PLANT MATERIAL THAT IS WEAK OR WHICH HAS BEEN CUT BACK FROM LARGER GRADES TO MEET SPECIFIED REQUIREMENTS WILL BE REJECTED. TREES WITH FORKED LEADERS WILL NOT BE ACCEPTED. ALL PLANTS SHALL BE FRESHLY DUG; NO HEELED-IN PLANTS OR PLANTS FROM COLD STORAGE WILL BE ACCEPTED.
  - UNLESS OTHERWISE SPECIFIED, ALL PLANT MATERIAL SHALL CONFORM TO "AMERICAN STANDARD FOR NURSERY STOCK" ANSI Z60.1-1986, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INCLUDING ALL ADDENDA.
  - UNLESS OTHERWISE SPECIFIED, ALL GENERAL CONDITIONS, PLANTING OPERATIONS, DETAILS AND PLANTING SPECIFICATIONS SHALL CONFORM TO "LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS" (HEREIN-AFTER "LANDSCAPE GUIDELINES") APPROVED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF METROPOLITAN WASHINGTON AND THE POTOMAC CHAPTER OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS, SEPTEMBER, 1981, INCLUDING ALL ADDENDA.
  - CONTRACTOR SHALL BE REQUIRED TO GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE IN ACCORDANCE WITH THE APPROPRIATE SECTION OF THE LANDSCAPE GUIDELINES.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTILITY COMPANIES, UTILITY CONTRACTORS AND "MISS UTILITY" ACTION MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO UTILITIES AND MAY MAKE MINOR ADJUSTMENTS IN SPACING AND LOCATION OF PLANTING MATERIALS TO AVOID CONFLICTS WITH UTILITIES.
  - PLANTING BED SHALL BE MULCHED WITH 3" OF SHREDDED HARDWOOD BARK MULCH. GROUNDCOVER BEDS SHALL BE MULCHED TO A DEPTH OF 2".
  - ALL AREAS WITHIN THE CONTRACT LIMIT NOT COVERED BY BUILDING, PAVING, PLANTING BEDS OR OTHERWISE DESIGNATED ON THE PLANS SHALL BE SEEDED AND MULCHED OR SODED IN ACCORDANCE WITH 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, PERMANENT SEEDING SPECIFICATIONS (SEE SHEET 6), INCLUDING ALL ADDENDA, AS DIRECTED BY THE OWNER.
  - CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL MATERIALS IN THE PROPER PLANTING SEASON FOR EACH PLANT TYPE.
  - PLANTING MIX SHALL BE DONE AS FOLLOWS:  
DECIDUOUS PLANTS - TWO PARTS TOP SOIL, ONE PART WELL-ROTTED COW OR HORSE MANURE, ADD 3 LBS. OF STANDARD 10-10-10 FERTILIZER PER CUBIC YARD OF PLANTING MIX.  
EVERGREEN PLANTS - TWO PARTS TOPSOIL, ONE PART HUMUS OR OTHER APPROVED ORGANIC MATERIAL, ADD 3 LBS. OF EVERGREEN (ACIDIC) FERTILIZER PER CUBIC YARD OF PLANTING MIX.  
TOPSOIL SHALL CONFORM TO LANDSCAPE GUIDELINES.
  - THIS PLAN IS INTENDED FOR LANDSCAPE PLAN ONLY. SEE OTHER PLAN SHEETS FOR INFORMATION ON GRADING, SEDIMENT CONTROL, LAYOUT, ETC.
  - CONTRACTOR TO ADJUST PLANTINGS AS REQUIRED WITH PRIOR APPROVAL OF THE ENGINEER OR LANDSCAPE ARCHITECT.

**SCHEDULE A**  
PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO ROADWAYS
LANDSCAPE TYPE	8
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	338
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	* YES, 210
NUMBER OF PLANTS REQUIRED SHADE TREES 1:50 EVERGREEN TREES 1:40 SHRUBS	3 4 N/A
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTION) SHRUBS (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)	4 5 0 0

\* CREDIT FOR EXISTING STORMWATER MANAGEMENT POND ADJACENT TO RIGHT OF WAY PLANTINGS NOT PERMITTED ON DAM.

**SCHEDULE B**  
PARKING LOT INTERNAL LANDSCAPING

NUMBER OF PARKING SPACES (REQUIRED)	20
NUMBER OF TREES + ISLANDS REQUIRED	1/20 SPACES=1 (200 SQ.FT.)
NUMBER OF TREES PROVIDED SHADE TREES/ISLAND AREA OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBSTITUTION)	1 / 200 SQ.FT. N/A N/A

COMMENTS:

**CERTIFICATION**

I HEREBY CERTIFY THAT I WAS IN RESPONSIBLE CHARGE OVER THE PREPARATION OF THE REVISIONS MARKED ON THIS DRAWING, AND THAT IT IS IN COMPLIANCE WITH THE REQUIREMENTS SET FORTH IN THE CODE OF MARYLAND, TITLES 9, SUBTITLE 13, CHAPTER 200, REGULATION 12.

*Michael D. Adcock* 4-10-2015  
MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR  
NO. 21257, EXPIRATION DATE: 06-16-2015



**APPROVED**  
PLANNING BOARD  
of HOWARD COUNTY  
DATE: October 23, 1997

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

COUNTY HEALTH OFFICER DATE

ADDRESS CHART  
PARCEL NO. STREET ADDRESS  
B-2 #5460 BEAVERKILL ROAD  
B-3 BEAVERKILL ROAD

SUBDIVISION NAME SECTION/AREA PARCEL NUMBER  
VILLAGE OF HARPER'S CHOICE 5/8 B-3 & B-2

VILLAGE OF HARPER'S CHOICE	PLAT NO. 6475	BLOCK NO. 23	ZONE N.T.	TAX/ZONE O.S.	ELECT. DIST. 29	CENSUS TR. 5	6052.01
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WATER CODE 102 SEWER CODE 5583500

**LANDSCAPE PLAN**  
FOR  
**WINTER GROWTH SENIOR CENTER**  
VILLAGE OF HARPER'S CHOICE  
PARCELS B-2 & B-3  
FILE NO.S: F.D.P.#183, F-85-154 & S.D.P. 86-32C

TAX MAP #29 5TH ELECTION DISTRICT PARCEL B-2 & B-3 HOWARD COUNTY, MARYLAND

**MARKS & VOGEL ASSOCIATES, INC.**  
ENGINEERS - SURVEYORS - PLANNERS

3691 PARK AVENUE, SUITE 101 ELLICOTT CITY, MARYLAND 21048 TELEPHONE: (410) 461-5828 FAX: (410) 465-3966

DESIGN BY: R.A.M.  
DRAWN BY: R.A.M.  
CHECKED BY: R.H.V.  
DATE: MAY, 1997  
SCALE: 1"=30'  
W.O. NO.: 97-01

6 SHEET OF 6