

GENERAL NOTES

PART I

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES (NORTH AMERICAN DATUM OF 1983 (NAD 83)).
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6' CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATIONS AND DETAIL FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

STATE HIGHWAY ADMINISTRATION 1-410-531-5633
 BGE CO. CONTRACTOR SERVICES 1-410-850-4620
 BGE CO. UNDER GROUND DAMAGE CONTROL 1-410-787-9068
 MISS UTILITY 1-800-257-7777
 COLONIAL PIPELINE CO. 1-410-796-1390
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF UTILITIES 1-410-313-4900

- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS, AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(A) OF THE HOWARD COUNTY CODE.

PART II - WATER

- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
- SPRINKLER SYSTEM FOR ALL TOWNHOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1" CONNECTION WITH A 3/4" METER.
- TWIN WATER HOUSE CONNECTION SHALL BE AS PER HOWARD COUNTY STANDARD DETAIL W3.23.

PART III - SEWER

- ALL SEWER MAINS SHALL BE D.I.P. AND P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

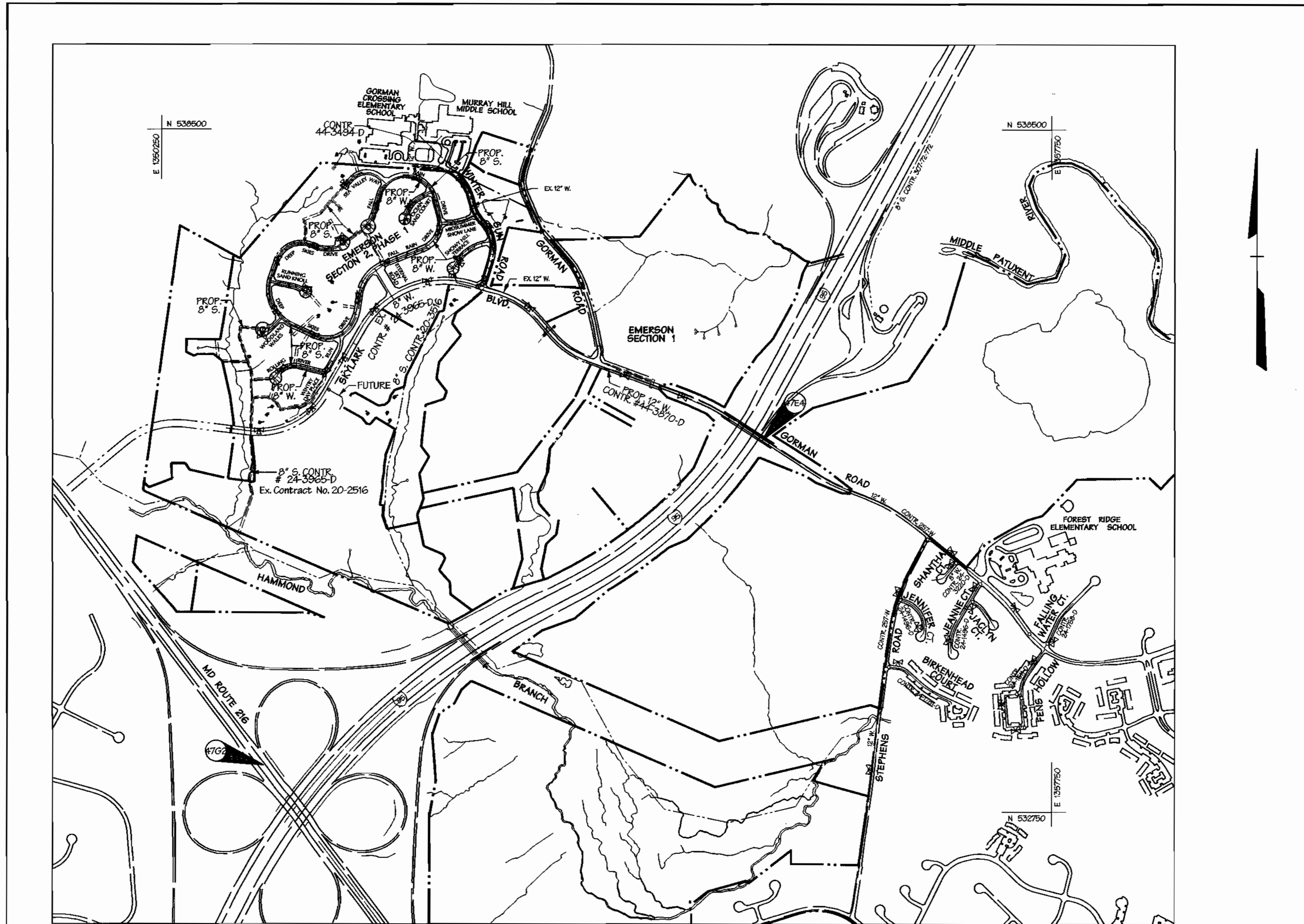
EMERSON WATER AND SEWER

SECTION 2, PHASE 1-B

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

CONTRACT NO. 24-3966-D

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	WATER & SEWER PLAN
3	WATER & SEWER PLAN
4	WATER & SEWER PLAN
5	WATER & SEWER PLAN
6	8" WATER PROFILES
7	8" WATER PROFILES
8	8" WATER PROFILES
9	8" WATER PROFILES
10	8" SEWER PROFILES
11	8" SEWER PROFILES
12	8" SEWER PROFILES
13	8" SEWER PROFILES
14	8" SEWER PROFILES
15	8" SEWER PROFILES



QUANTITIES				
ITEM	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
4" P.V.C. SEWER	7360'			
8" P.V.C. SEWER	9066'			
8" D.I.P. SEWER	215'			
STD. MH	72			
TYPE "B" DROP MH	3			
MANHOLES	70			
AIR RELEASE MH	-			
4" D.I.P. WATER	415'			
8" D.I.P. WATER	736'			
8" D.I.P. WATER	7300'			
6" VALVE	21			
8" VALVE	27			
1" WHC	-			
1" WHC	5447'			
FIRE HYDRANTS	21			
8" x 8" CROSS	-			
8" x 8" TEE	8			
8" x 6" TEE	21			
6" VALVE	27			
6" VALVE	20			
6" CAP & BUT.	6			
6" CAP & BUT.	-			
4" CAP & BUT.	1			
8" x 6" RED.	-			
8" x 4" RED.	-			
EX. WHC	5			
EX. SHC	9			
METER VAULT	3			

NAME OF UTILITY CONTRACTOR _____
 SURVEY AND DRAFTING DIVISION AS-BUILT DATE _____

BENCHMARK
DESCRIPTION

COORDINATES IN MARYLAND NAD83(91) (HORIZONTAL) AND NGVD29 (VERTICAL) DATUMS.

47E4 NORTHING: 163326.2295
 EASTING: 413136.2550
 ELEVATION: 339.909ft.

47G2 NORTHING: 162440.1212
 EASTING: 4118539279
 ELEVATION: 364.210ft.

REVIEWED FOR SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE: *[Signature]* DATE: 12/14/01

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

HOWARD S.C.B. *[Signature]* DATE: 12/14/01

TYPE OF BUILDING:	SINGLE FAMILY
NO. EXISTING WATER HOUSE CONNECTIONS:	5
NO. EXISTING SEWER HOUSE CONNECTIONS:	9
NO. OF LOTS / PARCELS:	162
NO. OF WATER HOUSE CONNECTIONS:	155
NO. OF SEWER HOUSE CONNECTIONS:	151
DRAINAGE AREA:	LITTLE PATUXENT
TREATMENT PLANT:	LITTLE PATUXENT WATER QUALITY MANAGEMENT CENTER-SAVAGE HOWARD COUNTY

VICINITY MAP
SCALE: 1"=600'

WATER CODE: E-15
 TEST GRADIENT: 700
 SEWER CODE: 7460000

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-137

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

[Signature] 12-2-01 CHIEF - BUREAU OF UTILITIES - DATE
[Signature] 12/12/01 CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
 Daft-McCune-Walker, Inc.
 A Team of Land Planners, Landscape Architects, Golf Course Architects, Engineers, Surveyors & Environmental Professionals

200 East Pennsylvania Avenue
 Towson, Maryland 21286
 (410) 296-3333
 Fax 296-4706

DESIGN BY: MAT
 DRAWN BY: KMF
 CHECKED BY: TJR III
 DATE: 08-10-01

BY	NO.	REVISION	DATE

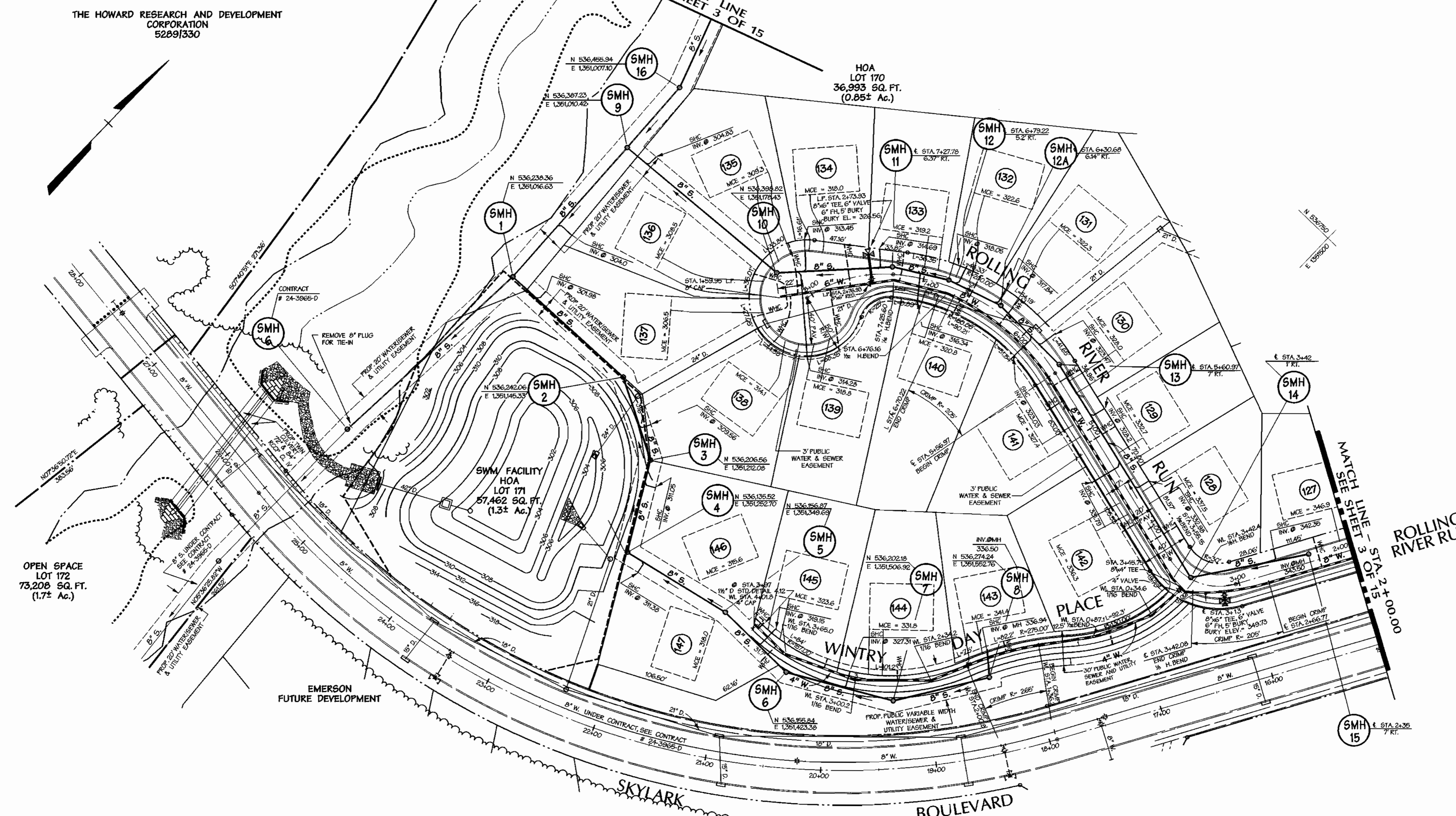
PROPOSED WATER & SEWER TITLE SHEET

600 SCALE MAP NO. 47 BLOCK NO. 7&B

EMERSON
 FORMERLY KEY PROPERTY
 SECTION 2, PHASE 1-B

TAX MAP 47 P/O PARCEL P. 837, P. 3, P. 462
 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 CONTRACT NO. 24-3966-D

SCALE: AS SHOWN
 SHEET 1 of 15



THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
5289/330

HOA LOT 170
36,993 SQ. FT.
(0.85± Ac.)

OPEN SPACE
LOT 172
73,208 SQ. FT.
(1.7± Ac.)

SWM FACILITY
HOA LOT 171
57,462 SQ. FT.
(1.3± Ac.)

EMERSON
FUTURE DEVELOPMENT

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
5289/330

NOTE: INSTALL BALL VALVES AND SEWER CLEAN OUTS 3 FEET FROM EDGE OF SIDEWALK.
NOTE: INSTALL ALL FIRE HYDRANTS 3' BEHIND BACK OF CURB.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT
Jia Nye / 12/1/01
SIGNATURE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.
APPROVED
[Signature] / 12/1/01
HOWARD S.C.D. DATE

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-137

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
[Signature] 12-7-01
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
[Signature] 12/1/01
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

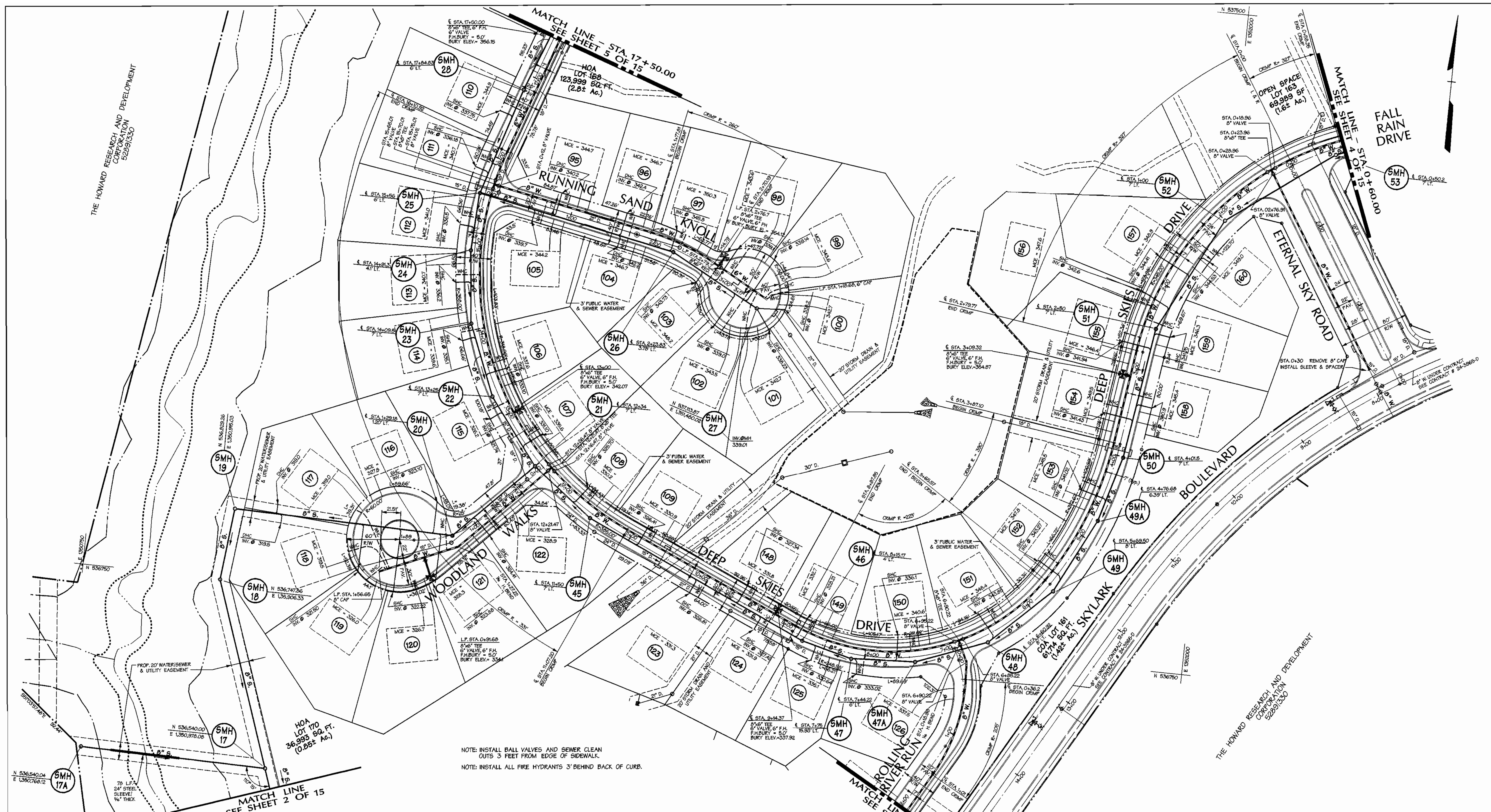
DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, Towson, Maryland 21286
Engineers, Surveyors & Environmental Professionals 410 296 3333
Fax 296 4705



DESIGN BY:	MAT			
DRAWN BY:	KMF			
CHECKED BY:	TJR III			
DATE:	08/10/01			
BY NO.		REVISION		DATE

WATER & SEWER PLAN
600 SCALE MAP NO. 47 BLOCK NO. 78B

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B
TAX MAP 47 P/O PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D
SCALE:
HOR: 1" = 50'
VER: 1" = 5'
SHEET
2 OF 15



NOTE: INSTALL BALL VALVES AND SEWER CLEAN OUTS 3 FEET FROM EDGE OF SIDEWALK.
 NOTE: INSTALL ALL FIRE HYDRANTS 3' BEHIND BACK OF CURB.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT
 SIGNATURE: *Jim Ryan* / 12/16/01
 DATE: 12/16/01

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.
 APPROVED: *John S. C. D.* / 12/16/01
 DATE: 12/16/01

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-137

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 CHIEF - BUREAU OF UTILITIES - DATE: 12-2-01

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
 CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE: 12/16/01

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Daft · McCune · Walker, Inc.
 A Team of Land Planners, 200 East Pennsylvania Avenue
 Landscape Architects, Towson, Maryland 21286
 Engineers, Surveyors & Environmental Professionals 410 296 3333
 Fax 296 4705



DESIGN BY:	MAT
DRAWN BY:	KMF
CHECKED BY:	TJR III
DATE:	08/10/01
BY NO.	
REVISION	
DATE	

WATER & SEWER PLAN
 600 SCALE MAP NO. 47 BLOCK NO. 7&B

EMERSON
 FORMERLY KEY PROPERTY
 SECTION 2, PHASE 1-B
 TAX MAP 47 - P10 PARCEL P. 037, P. 3, P. 462
 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 CONTRACT NO. 24-3966-D
 SCALE: HOR: 1" = 50' VER: 1" = 5'
 SHEET 3 OF 15



N 538000
E 1032500

N 538000
E 1032500

N 537250
E 1032000

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE *Jim Nguyen* 12/16/01 DATE

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

APPROVED *John Lee* 12/16/01 DATE

HOWARD S.C.D. DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-137

NOTE: INSTALL ALL FIRE HYDRANTS 3' BEHIND BACK OF CURB.

Robert W. ... 12-7-01
CHIEF - BUREAU OF UTILITIES - DATE

John ... 12/16/01
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

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410 296 3333
Fax 296 4705



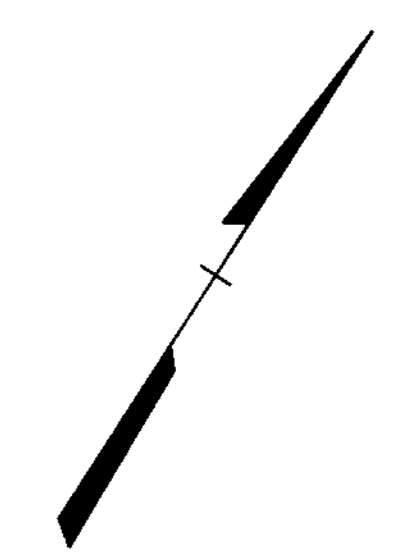
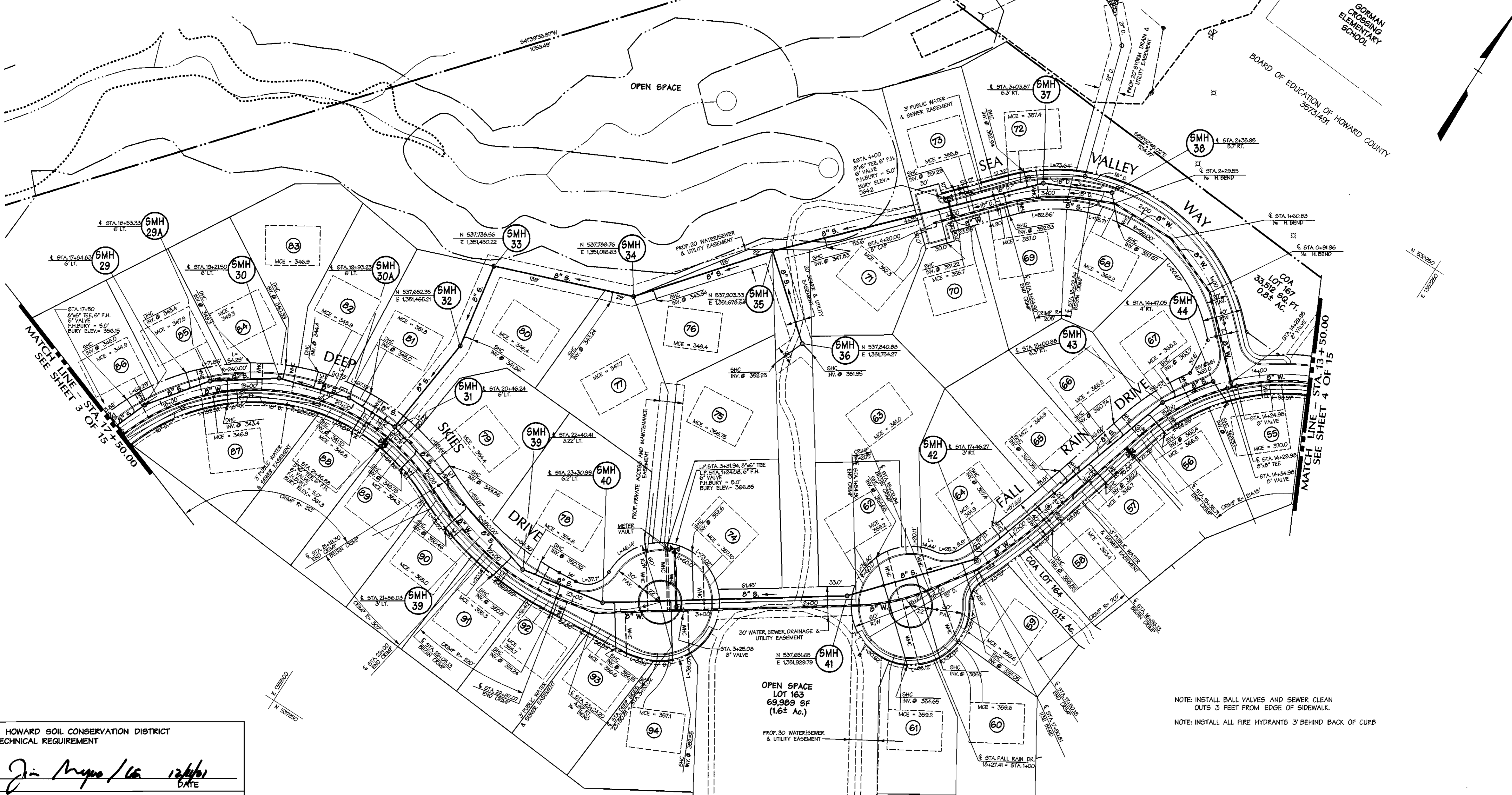
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DRAWN BY:	KMF
CHECKED BY:	TJR III
DATE:	08/10/01
BY NO.	
REVISION	
DATE	

WATER & SEWER PLAN
600 SCALE MAP NO. 47 BLOCK NO. 78B

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B
TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

SCALE:
HOR: 1" = 50'
VER: 1" = 5'
SHEET
4 OF 15

MARYLAND & VIRGINIA
MILK PRODUCERS ASSOCIATION INC.
302/288



NOTE: INSTALL BALL VALVES AND SEWER CLEAN
OUTS 3 FEET FROM EDGE OF SIDEWALK.
NOTE: INSTALL ALL FIRE HYDRANTS 3' BEHIND BACK OF CURB

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT
AND MEETS TECHNICAL REQUIREMENT

Jim Meyer / 12/16/01
SIGNATURE DATE

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

APPROVED *John Selig* / 12/16/01
HOWARD S.C.D. DATE

SEDIMENT CONTROL MEASURES WILL
BE IMPLEMENTED IN ACCORDANCE WITH
SECTION 219 OF THE SPECIFICATIONS AND
WITH ROAD CONSTRUCTION PLANS F-01-137

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert Berman 12-7-01
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

John DeMunn 12/16/01
CHIEF - DEVELOPMENT ENGINEERING DIVISION DATE

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Daft · McCune · Walker, Inc.
A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, Towson, Maryland 21286
Engineers, Surveyors & Environmental Professionals 410 296 3333
Fax 296 4705



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BY NO.	
REVISION	
DATE	

WATER & SEWER PLAN

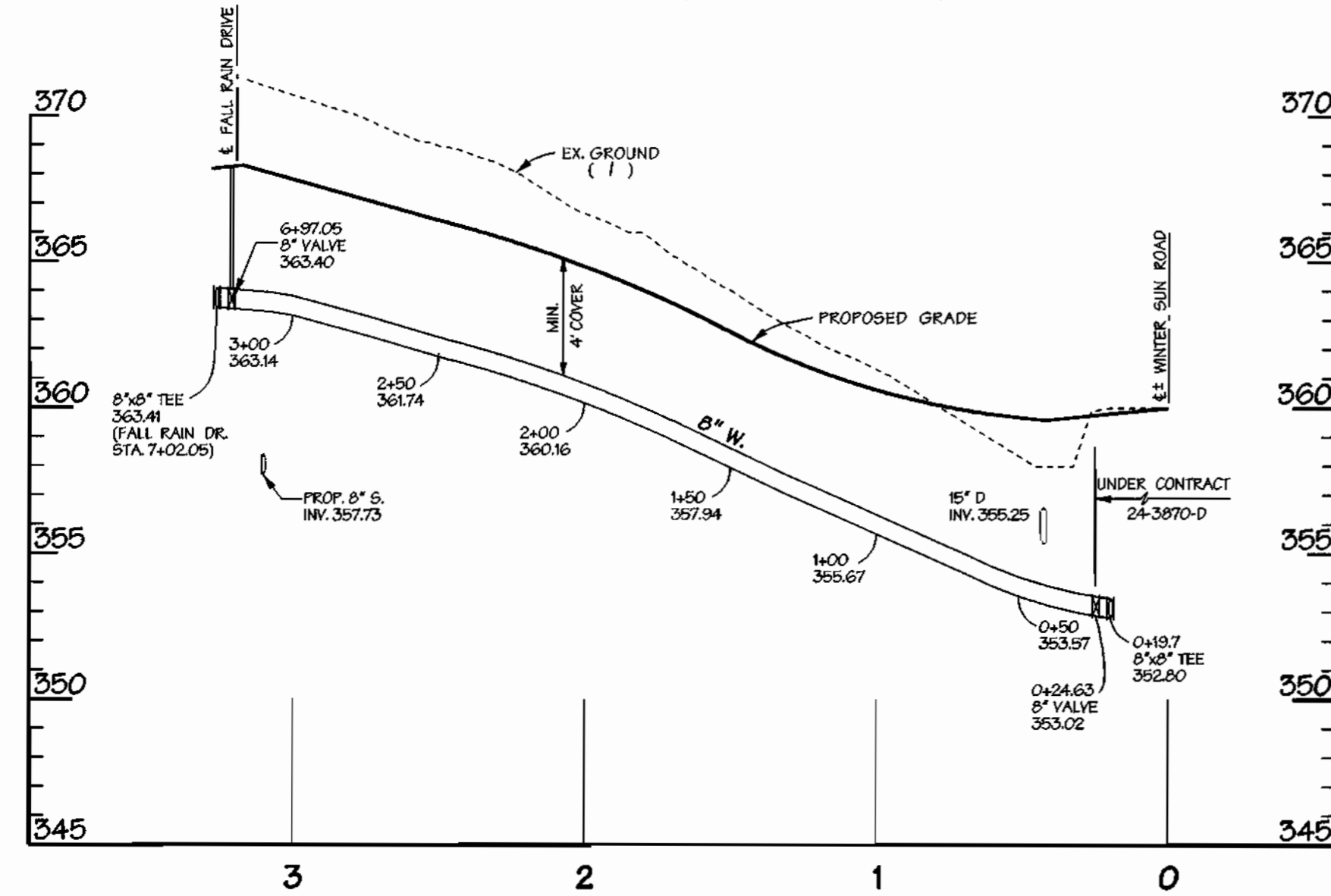
600 SCALE MAP NO. 47 BLOCK NO. 78B

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B
TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

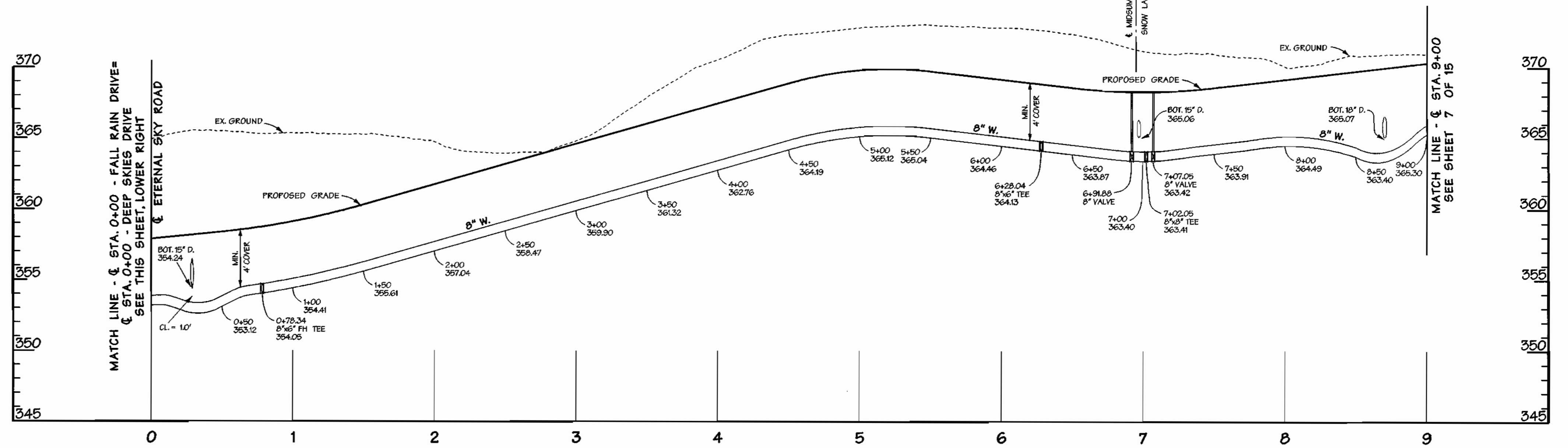
SCALE:
HOR: 1" = 50'
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SHEET
5 OF 15

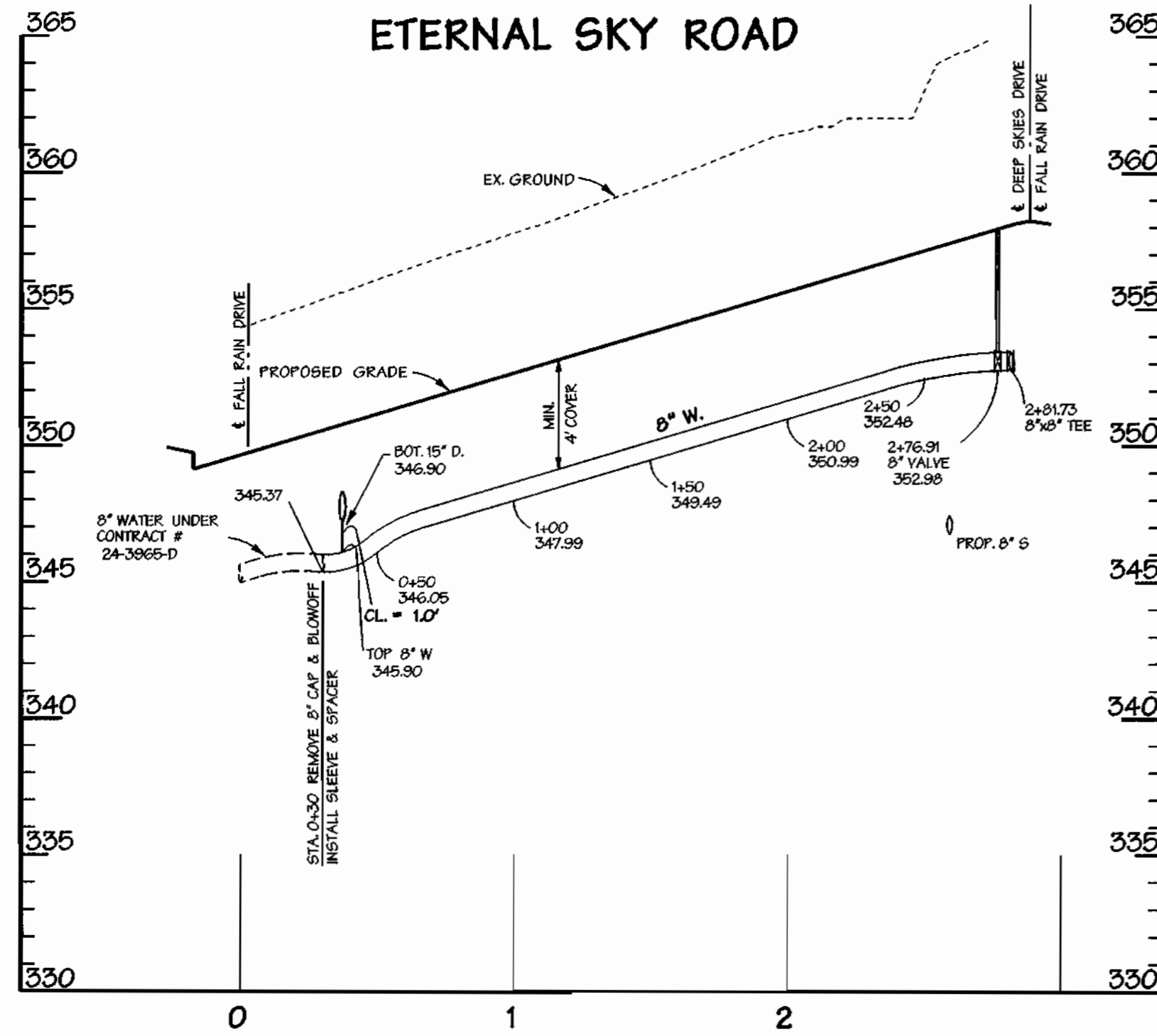
MIDSUMMER SNOW LANE



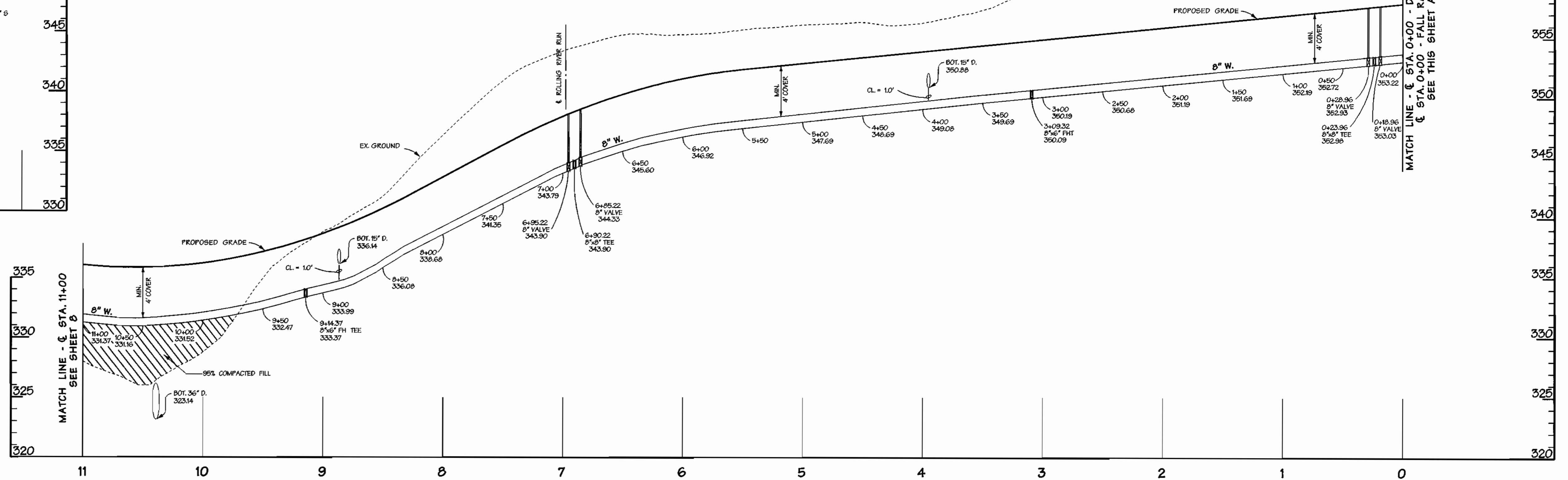
FALL RAIN DRIVE



ETERNAL SKY ROAD



DEEP SKIES DRIVE



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

HOWARD S.C.D. _____ DATE _____

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-137

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

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Daft · McCune · Walker, Inc.
A Team of Land Planners, 200 East Pennsylvania Avenue
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Engineers, Surveyors & Environmental Professionals 410 296 3333
Fax 296 4705



DESIGN BY: MAT
DRAWN BY: KMF
CHECKED BY: TJR III
DATE: 08/10/01

BY	NO.	REVISION	DATE

PROPOSED 8" WATER PROFILES

600 SCALE MAP NO. _____ BLOCK NO. _____

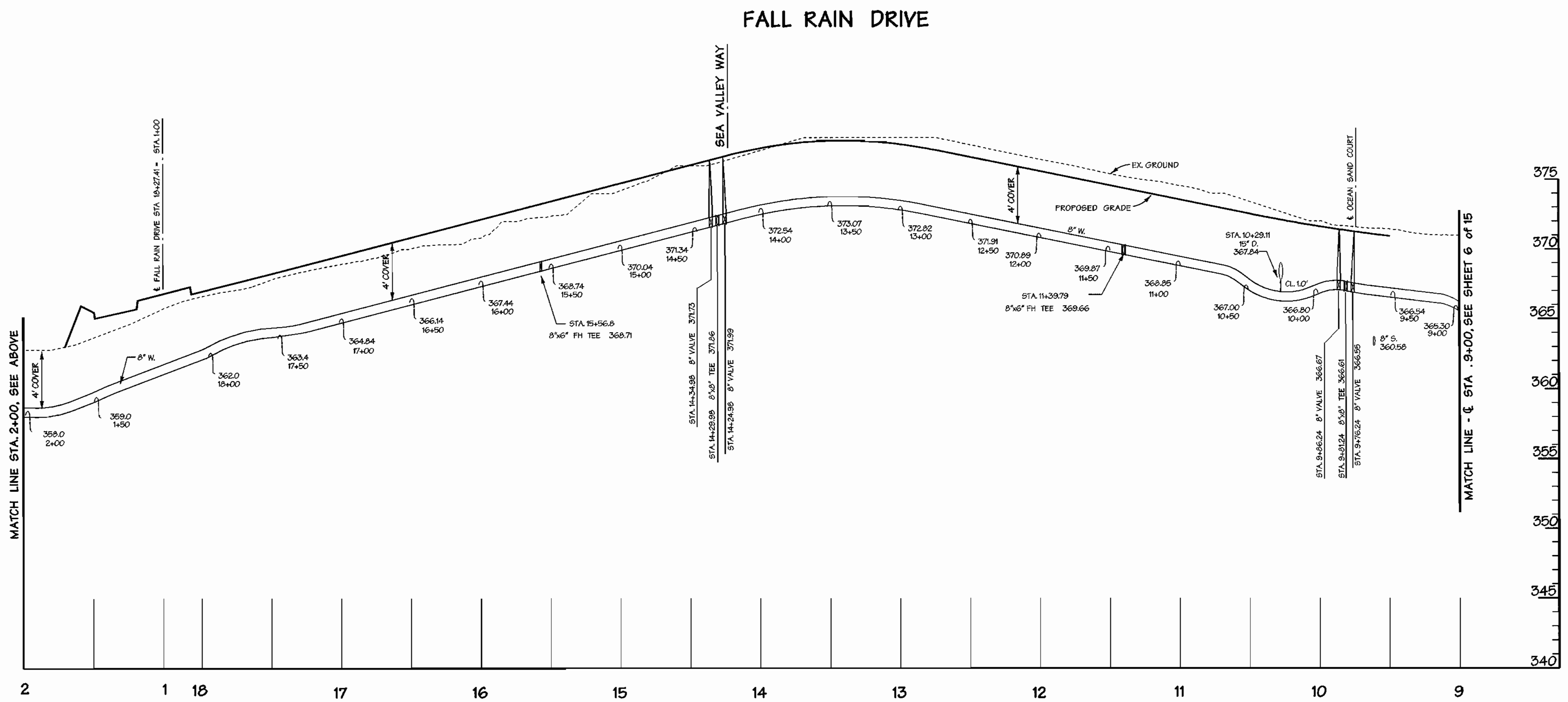
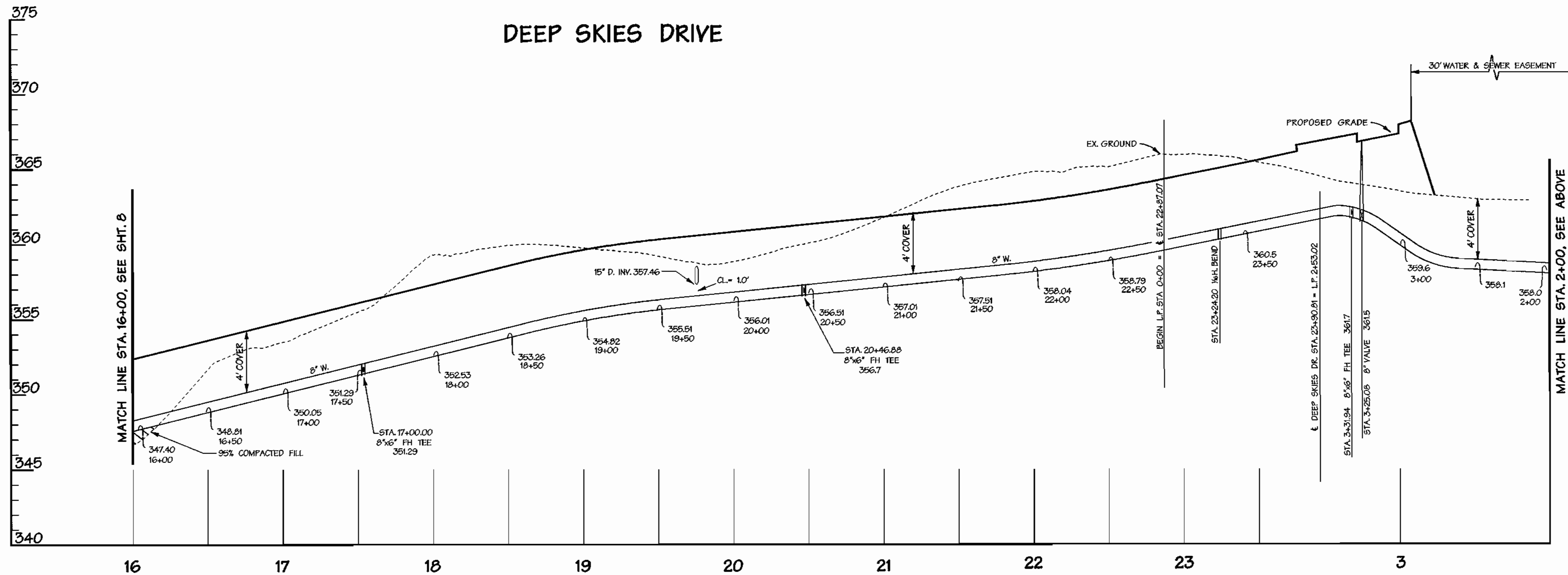
EMERSON

FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B

TAX MAP 47 P/O PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

SCALE:
HOR: 1" = 50'
VER: 1" = 5'

SHEET
6 OF 15



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

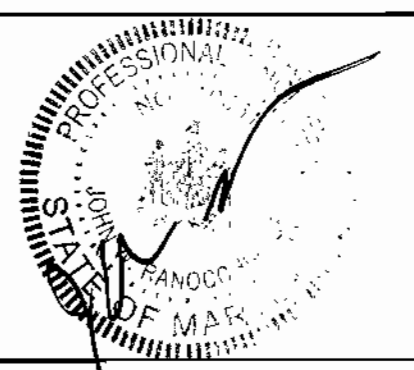
HOWARD S.C.D. _____ DATE _____

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-157.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, 200 East Pennsylvania Avenue, Towson, Maryland 21286
Landscape Architects, Engineers, Surveyors & Environmental Professionals
410.296.3333 Fax 296.4705

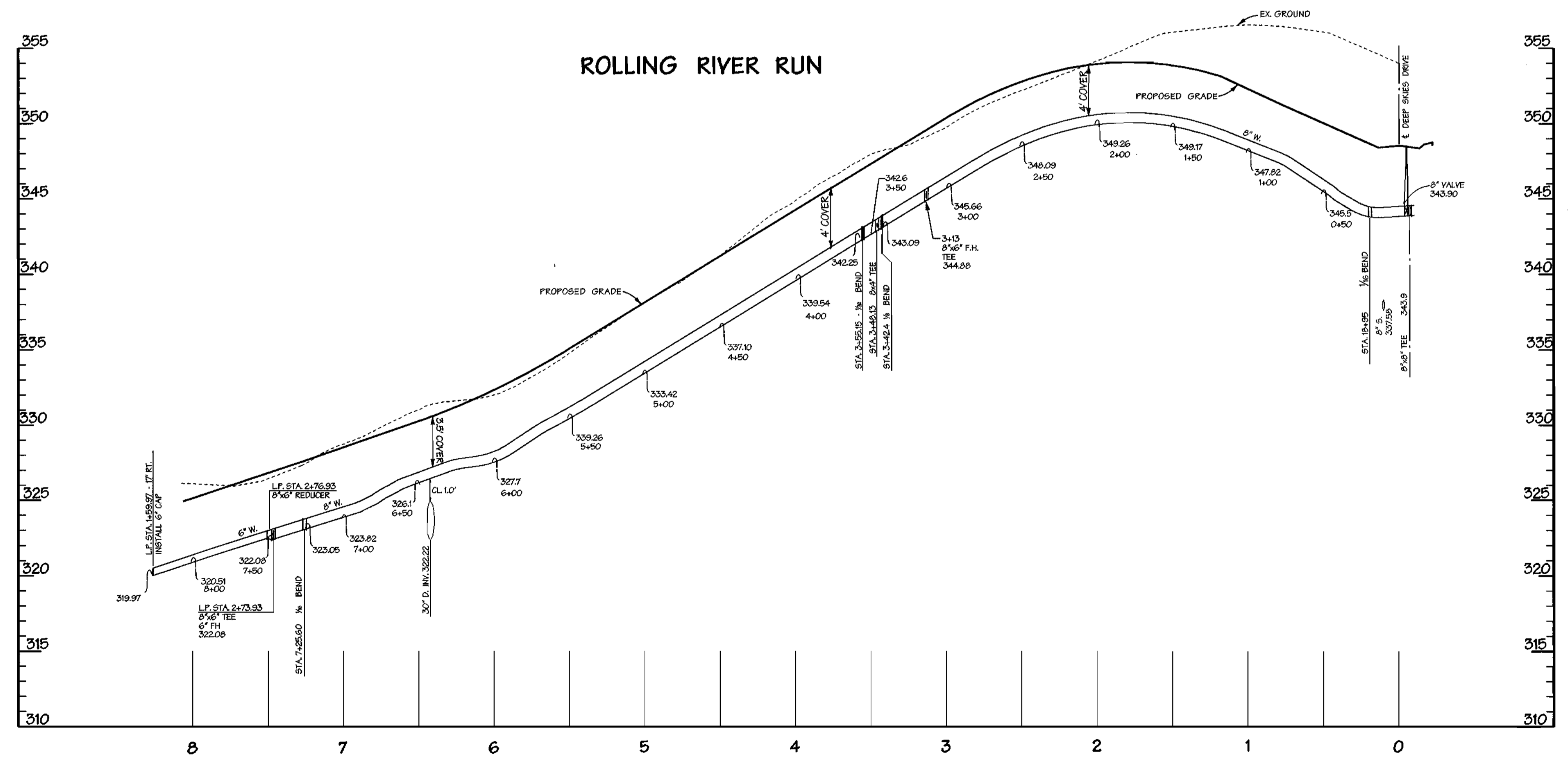
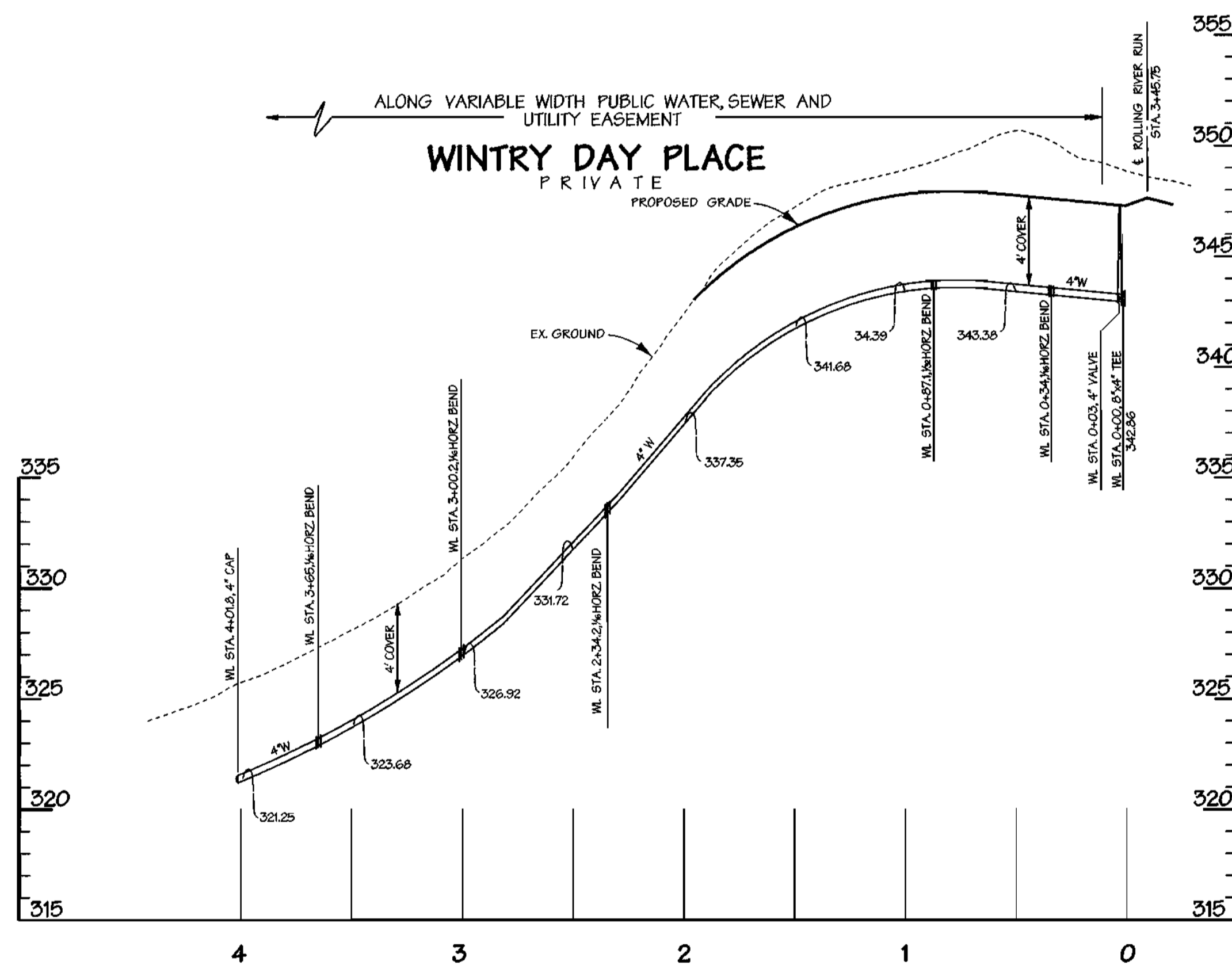
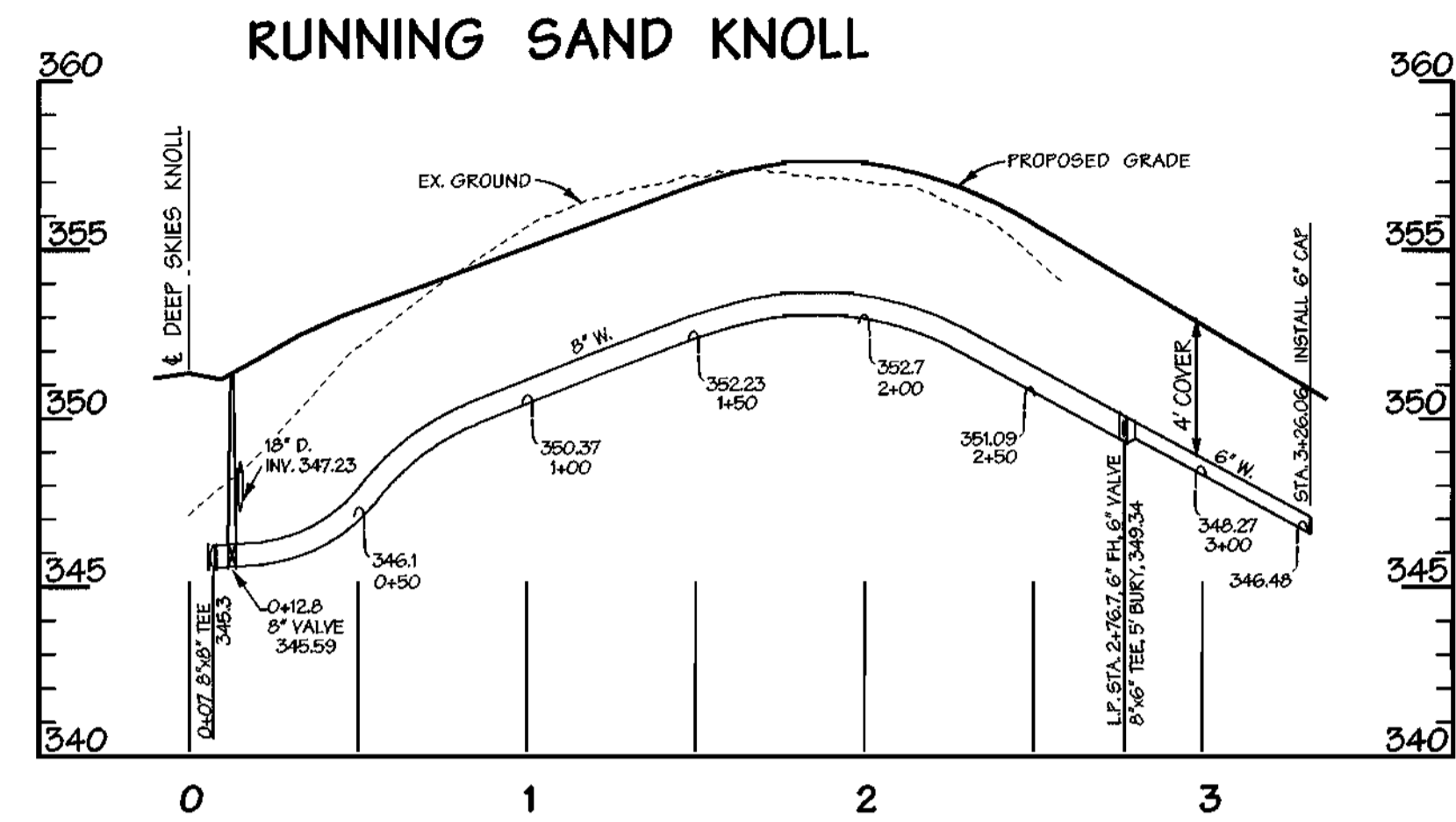
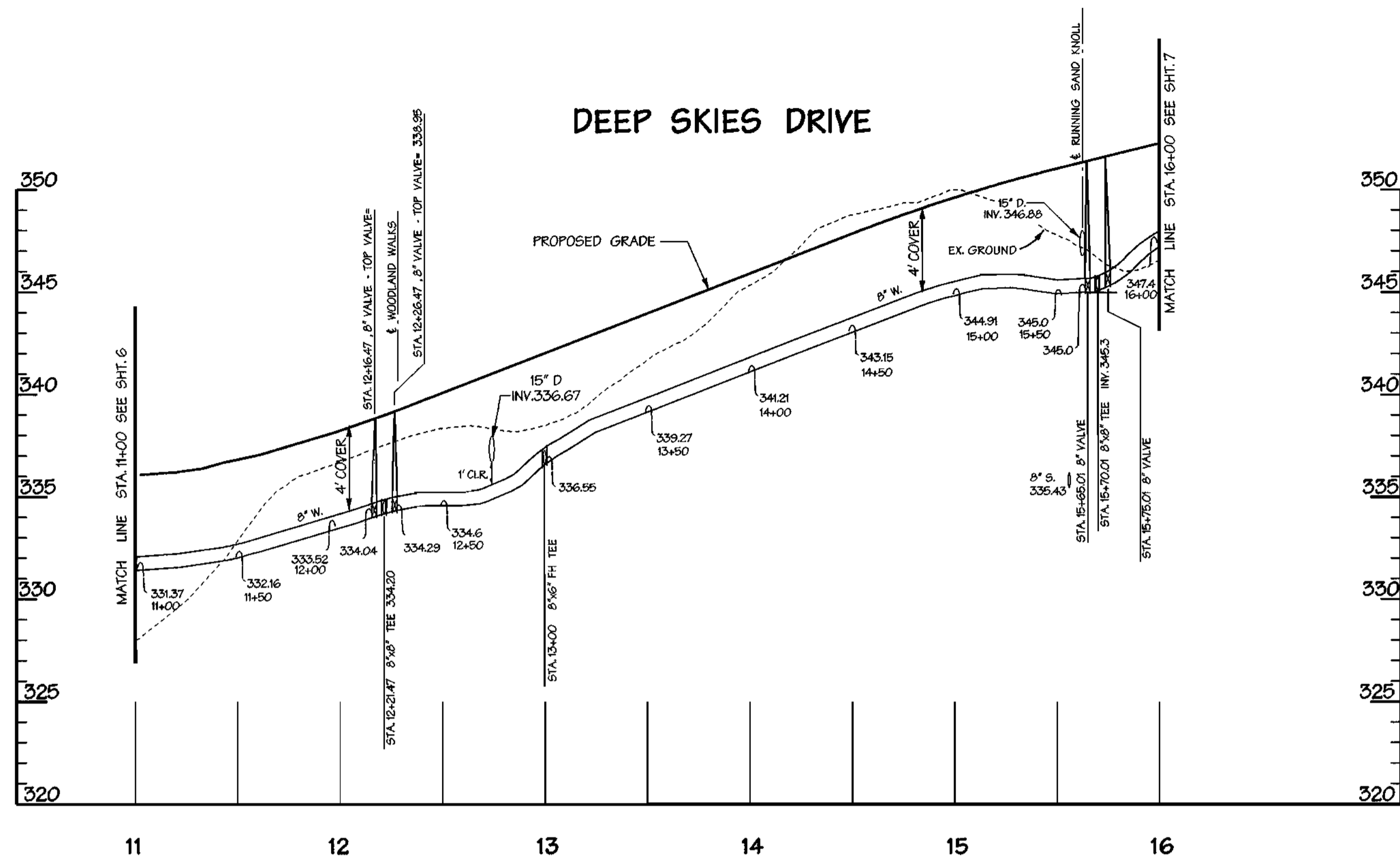


DESIGN BY:	MAT			
DRAWN BY:	KMF			
CHECKED BY:	TJR III			
DATE:	08/10/01			
BY	NO.	REVISION	DATE	

PROPOSED 8" WATER PROFILES
600 SCALE MAP NO. _____ BLOCK NO. _____

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B
TAX MAP 47 P/O PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

SCALE:
HOR.: 1" = 50'
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SHEET
7 of 15



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

APPROVED _____

HOWARD S.C.D. DATE _____

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-127.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

D. J. ... 12-7-01
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

M. ... 12/2/01
CHIEF-DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals
200 East Pennsylvania Avenue
Towson, Maryland 21286
410 296 3333
Fax 296 4705



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REVISION	
DATE	

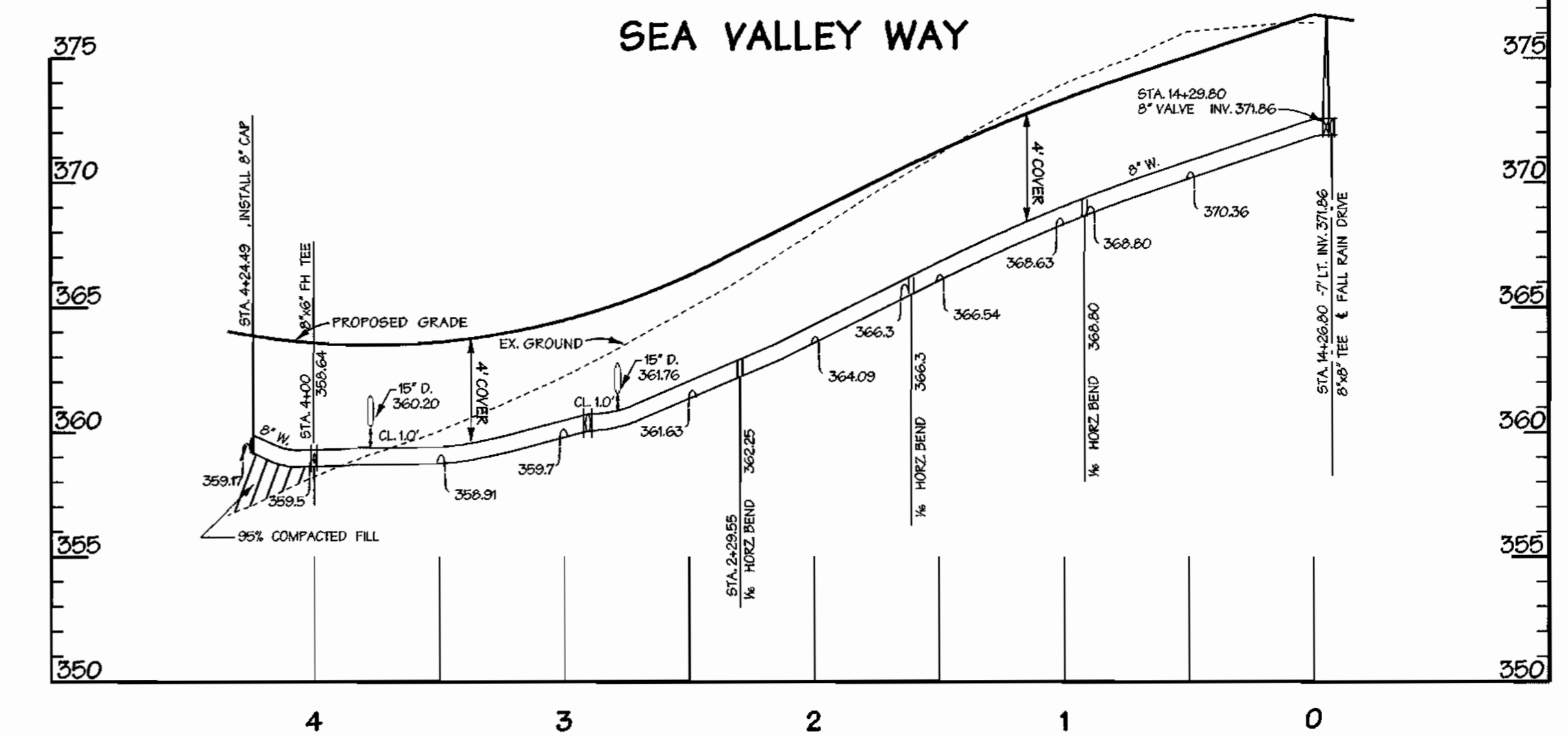
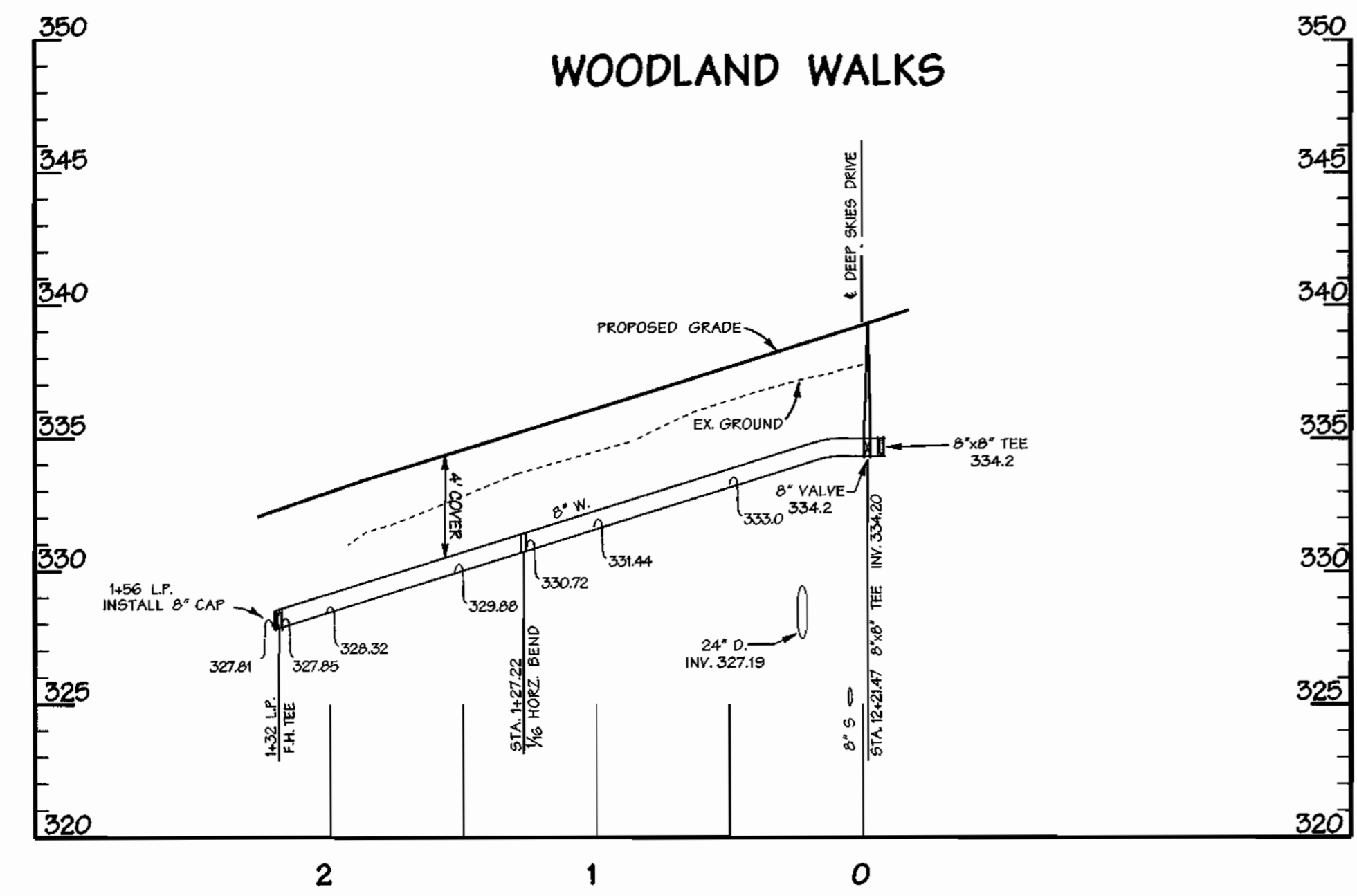
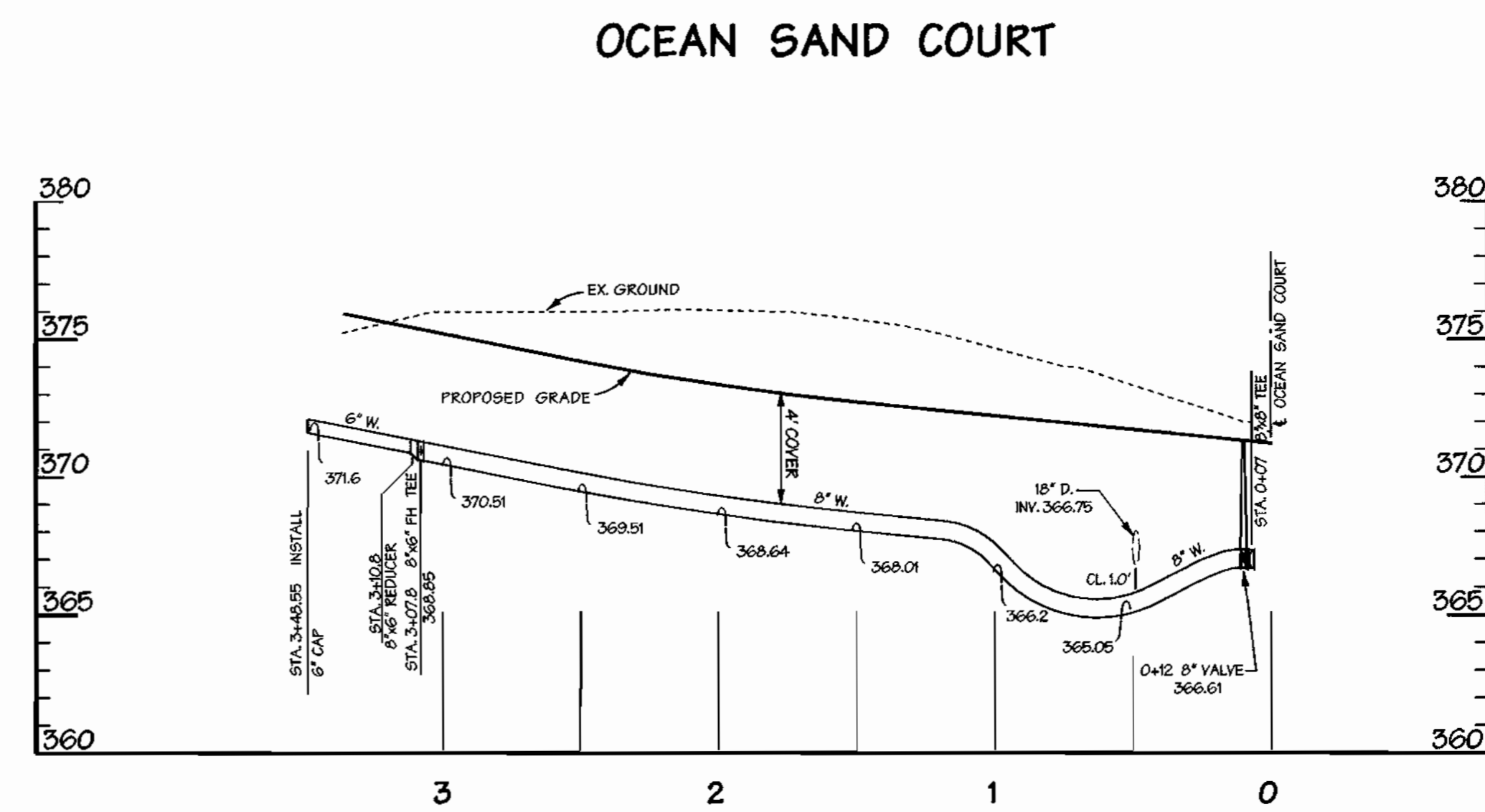
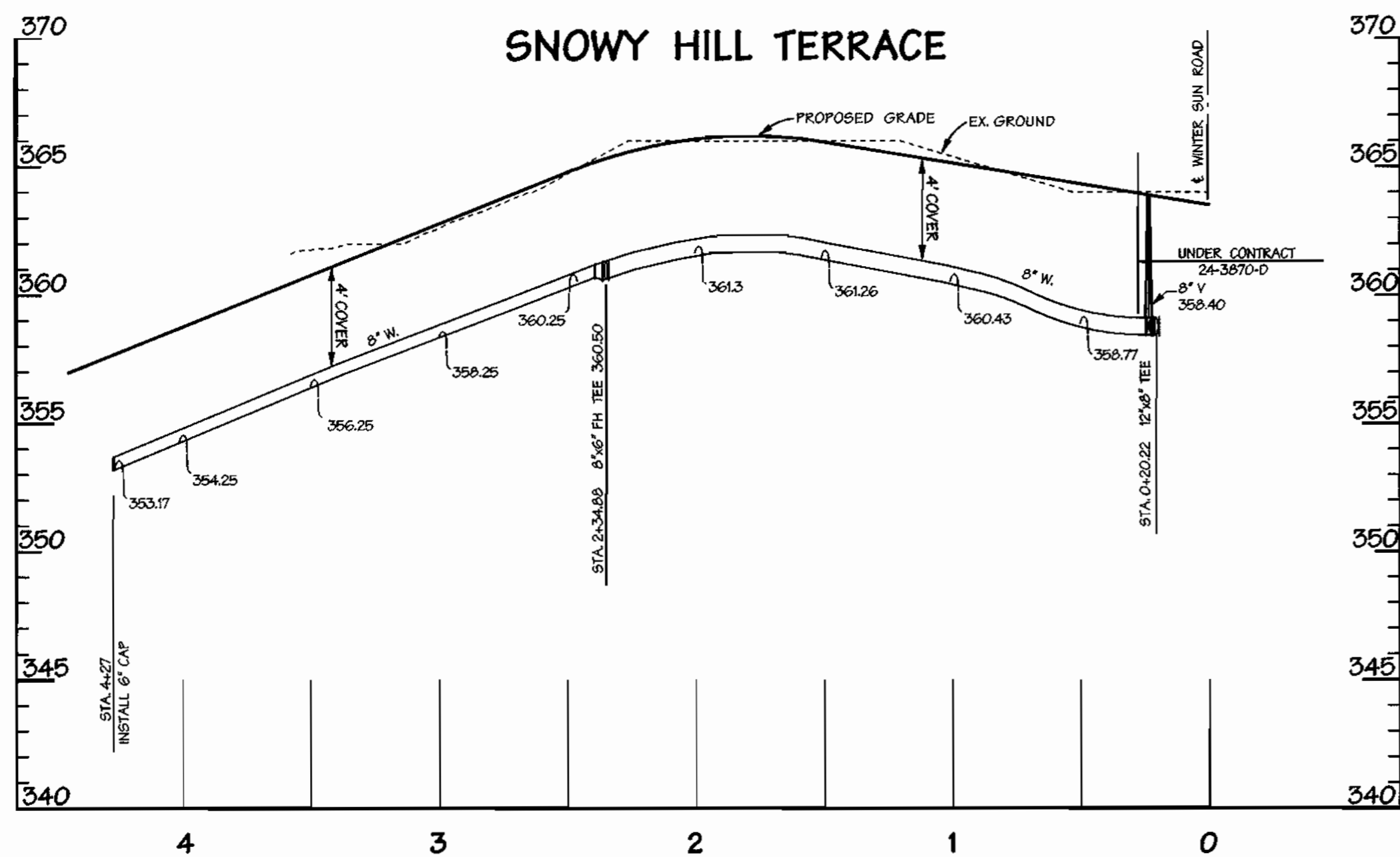
PROPOSED 8" WATER PROFILES

600 SCALE MAP NO. _____ BLOCK NO. _____

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B
TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

SCALE:
HOR.: 1" = 50'
VER.: 1" = 5'

SHEET
8 of 15



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

APPROVED _____ DATE _____

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-157.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert J. ... 12-7-01
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

... 12/14/01
CHIEF-DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Daft · McCune · Walker, Inc.

A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, Towson, Maryland 21286
Engineers, Surveyors & Environmental Professionals 410 296 3333
Fax 296 4705



DESIGN BY:	MAT
DRAWN BY:	KMF
CHECKED BY:	TJR III
DATE:	08/10/01
BY NO.	
REVISION	
DATE	

PROPOSED 8" WATER PROFILES

600 SCALE MAP NO. _____ BLOCK NO. _____

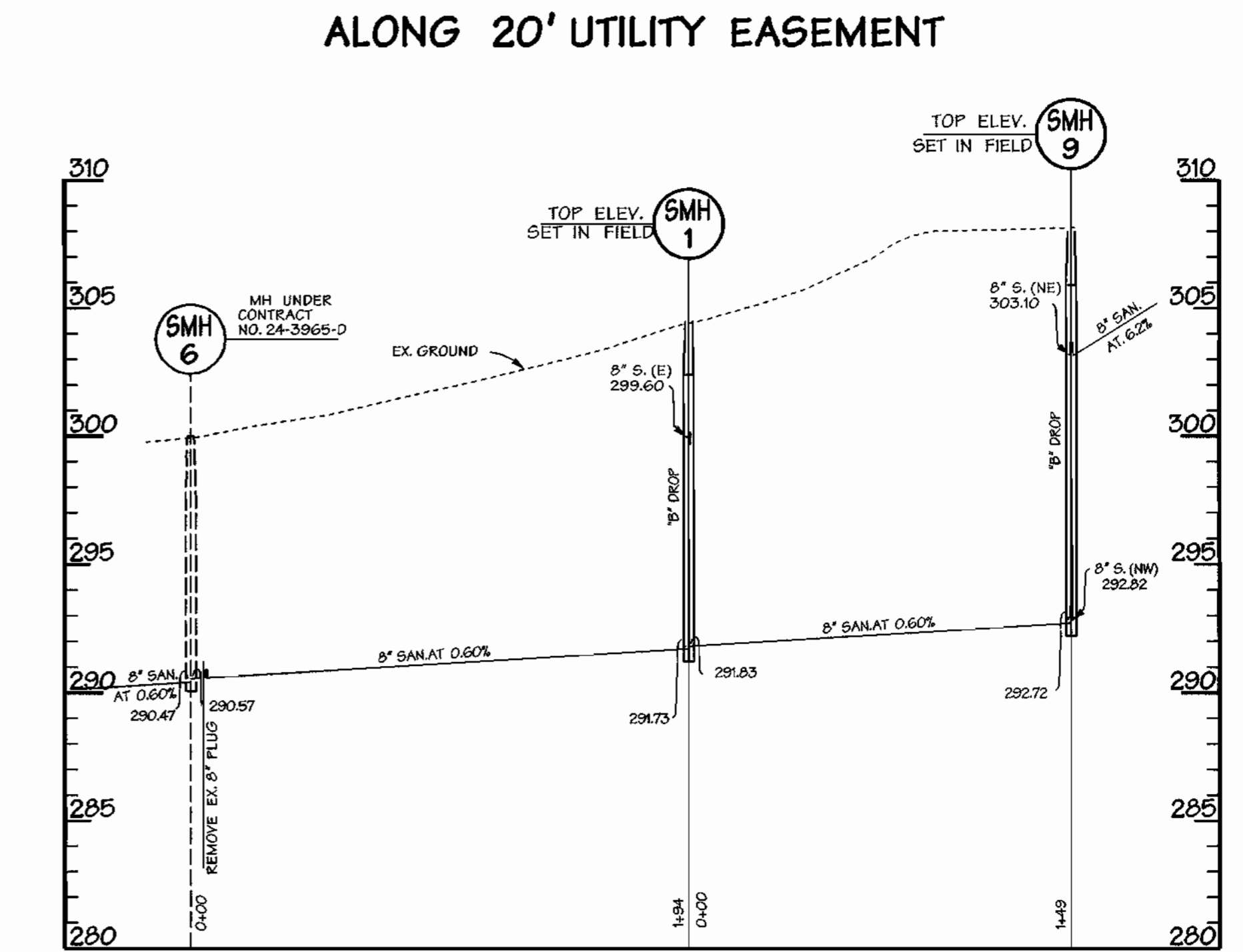
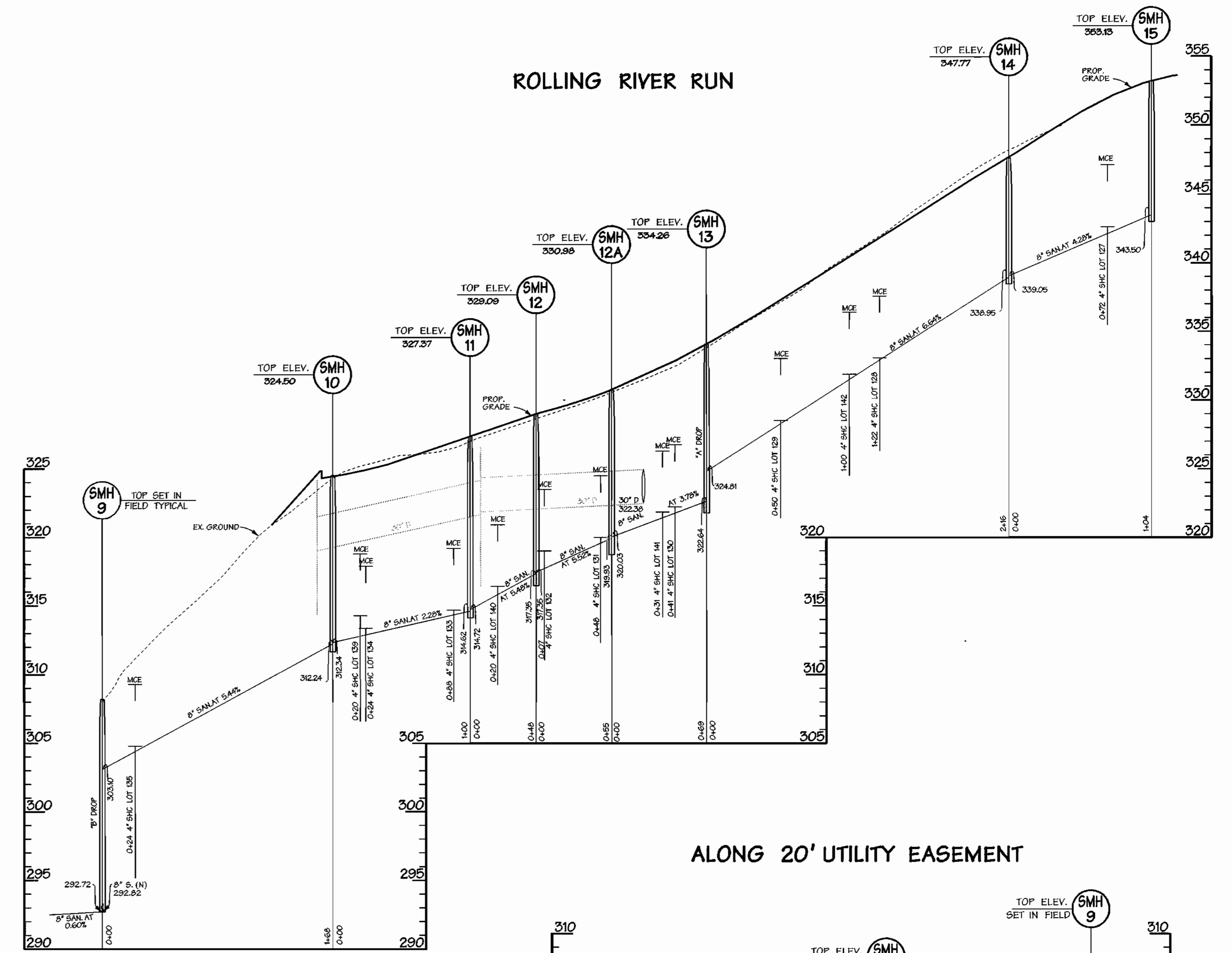
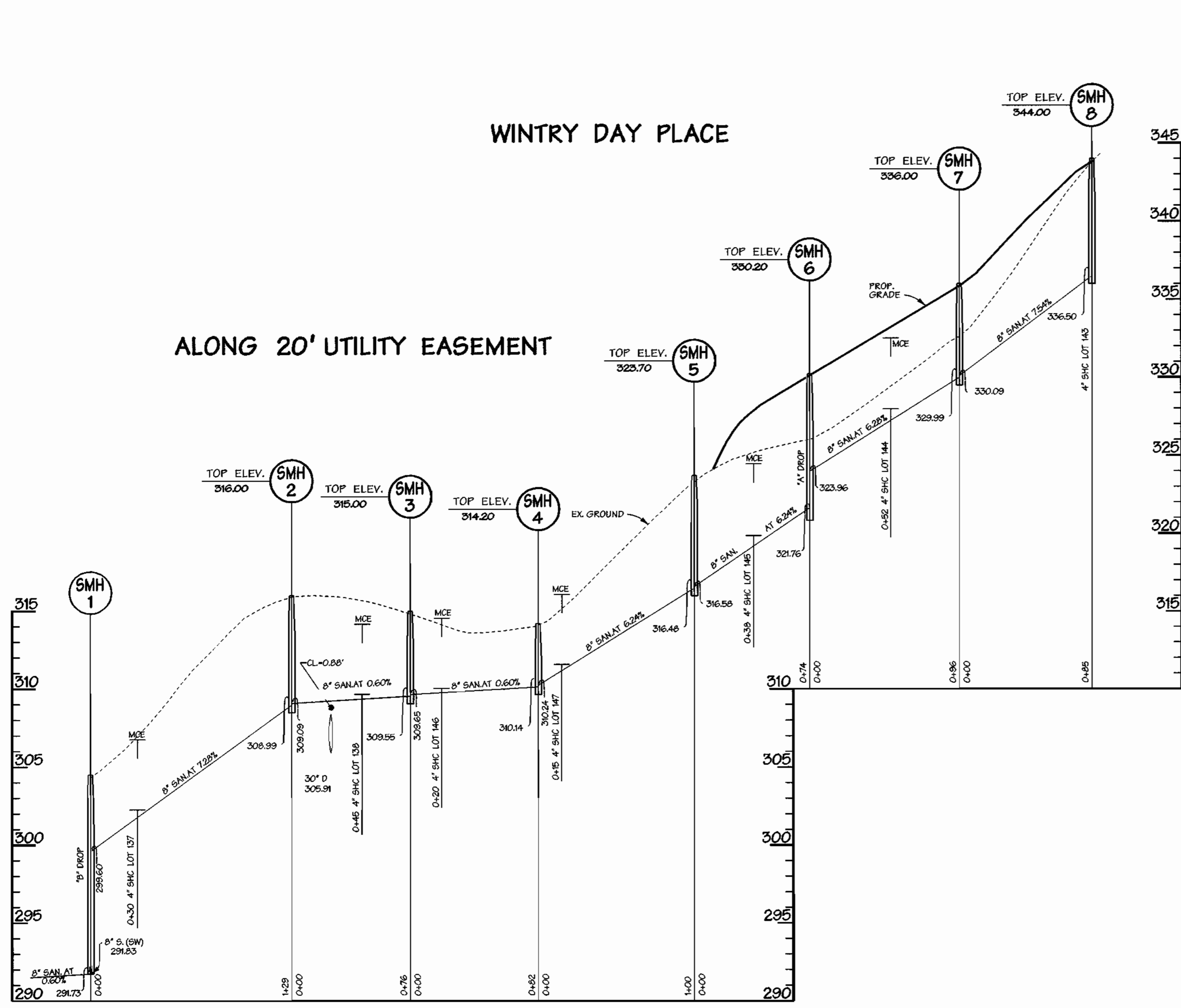
EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B

TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-3966-D

SCALE:
HOR: 1" = 50'
VER: 1" = 5'

SHEET
9 of 15



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

APPROVED _____ DATE _____

HOWARD S.C.D.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-157.

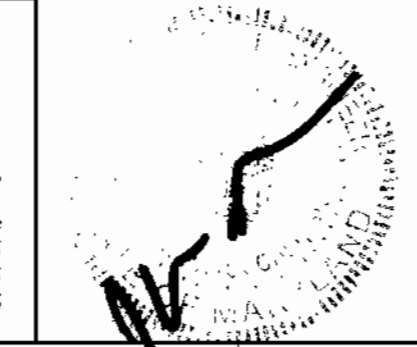
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert Berman 12-7-01
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Michael Dammann 12/12/01
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals
200 East Pennsylvania Avenue
Towson, Maryland 21286
410 296 3333
Fax 296 4705



DESIGN BY:	MAT			
DRAWN BY:	KMF			
CHECKED BY:	TJR III			
DATE:	08/10/01	BY NO.		REVISION
				DATE

PROPOSED 8" SEWER PROFILES

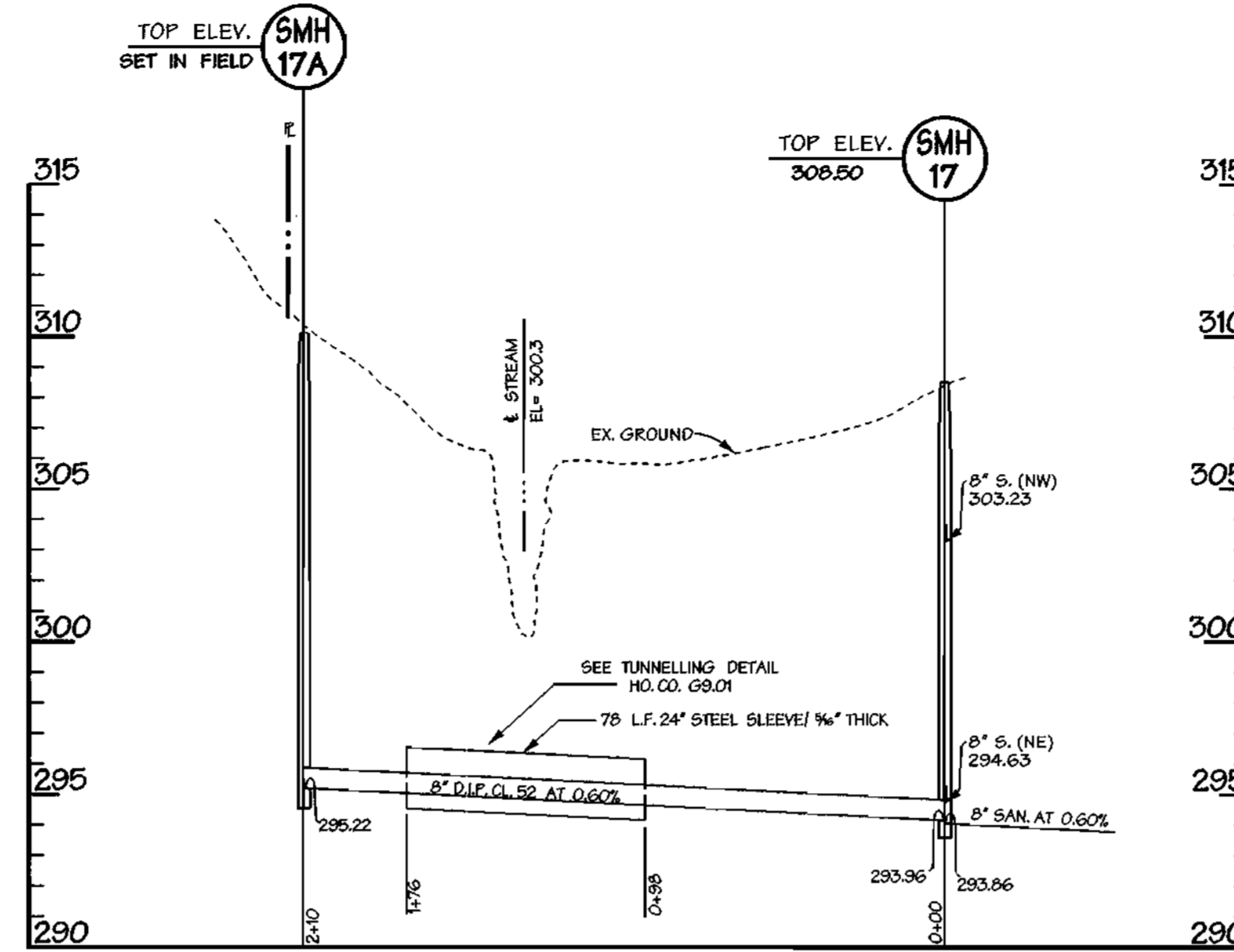
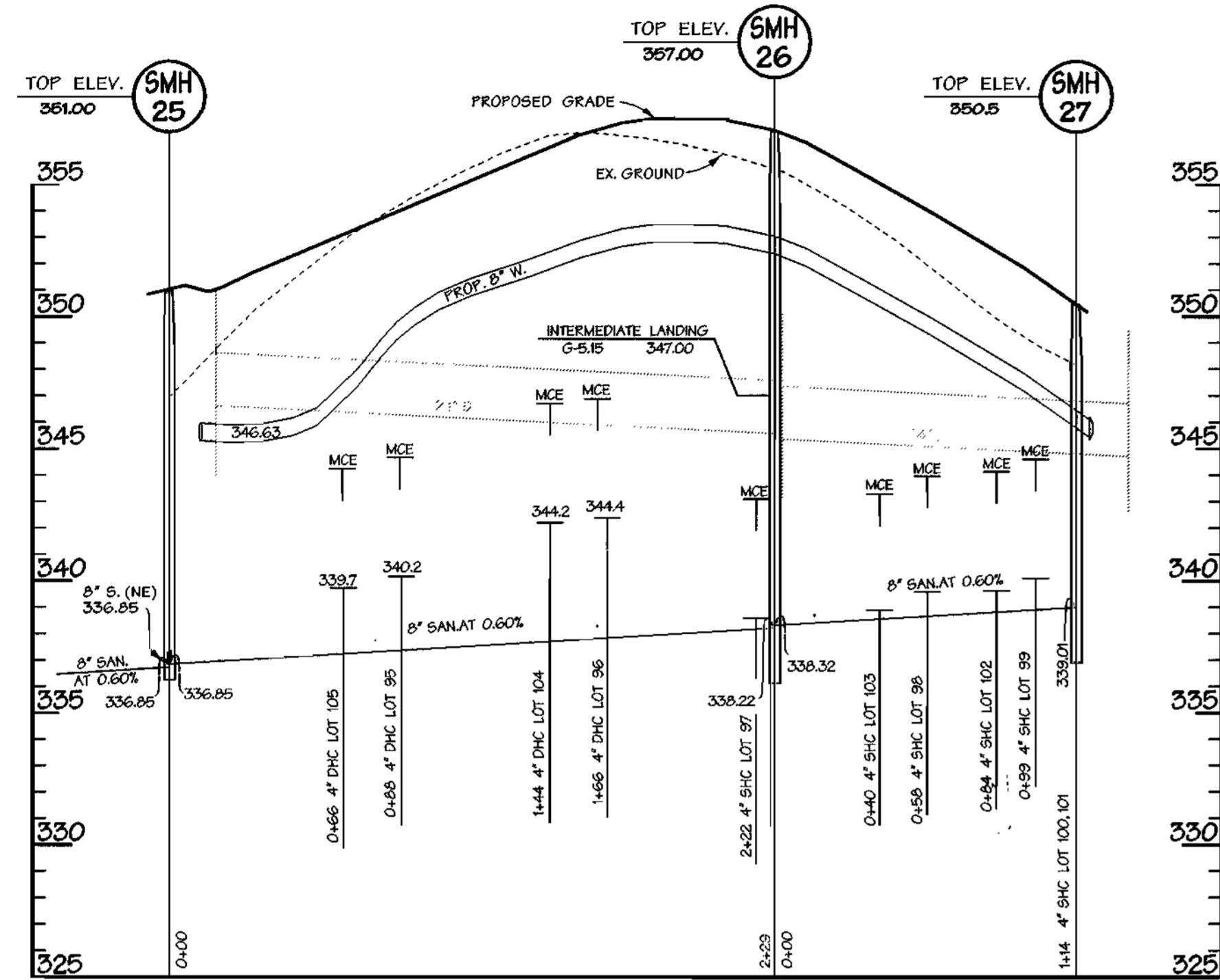
600 SCALE MAP NO. 47 BLOCK NO. 7&B

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B
TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

SCALE:
HOR: 1" = 50'
VER: 1" = 5'

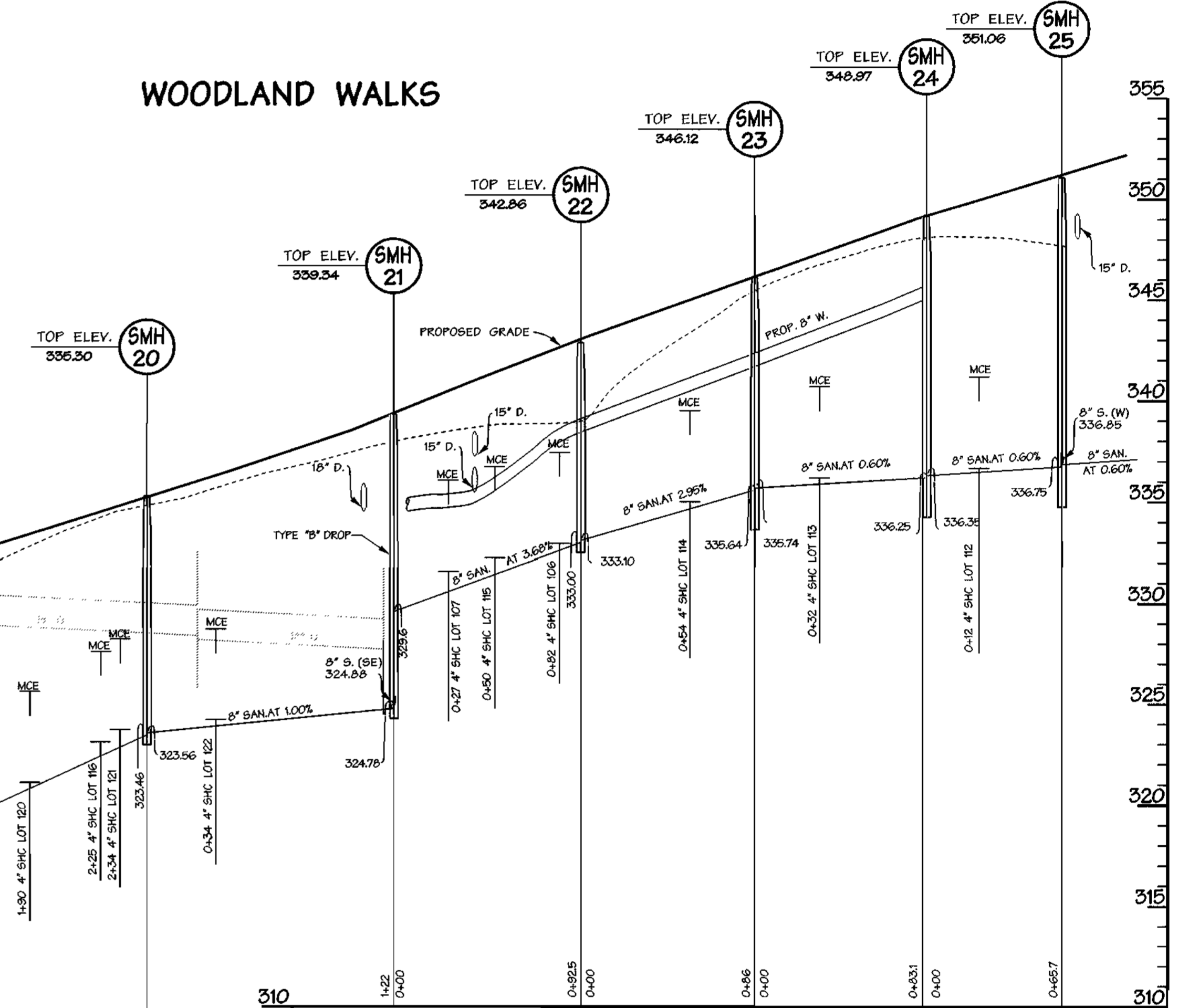
SHEET
10 of 15

RUNNING SAND KNOLL

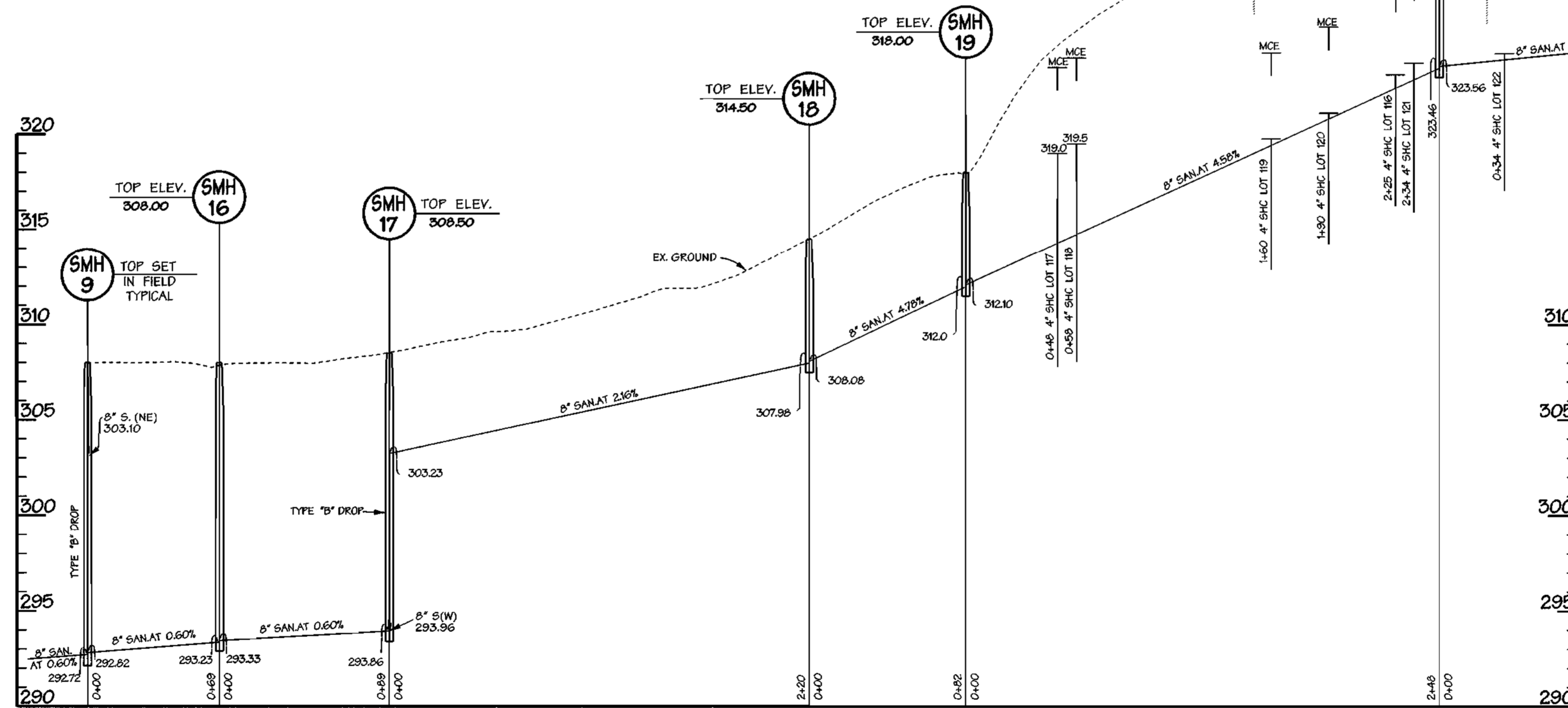


DEEP SKIES DRIVE

WOODLAND WALKS



ALONG 20' UTILITY EASEMENT



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT
AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

APPROVED _____

HOWARD S.C.D. DATE _____

SEDIMENT CONTROL MEASURES WILL
BE IMPLEMENTED IN ACCORDANCE WITH
SECTION 219 OF THE SPECIFICATIONS AND
WITH ROAD CONSTRUCTION PLANS F-01-137.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert J. ... 12-07-01
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Amber ... 12/12/01
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Daft · McCune · Walker, Inc.

A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, Towson, Maryland 21286
Engineers, Surveyors & Environmental Professionals 410 296 3333
Fax 296 4705

DESIGN BY:	MAT			
DRAWN BY:	KMF			
CHECKED BY:	TJR III			
DATE:	08/10/01			
BY NO.		REVISION	DATE	

PROPOSED 8" SEWER PROFILES

600 SCALE MAP NO. 47 BLOCK NO. 76B

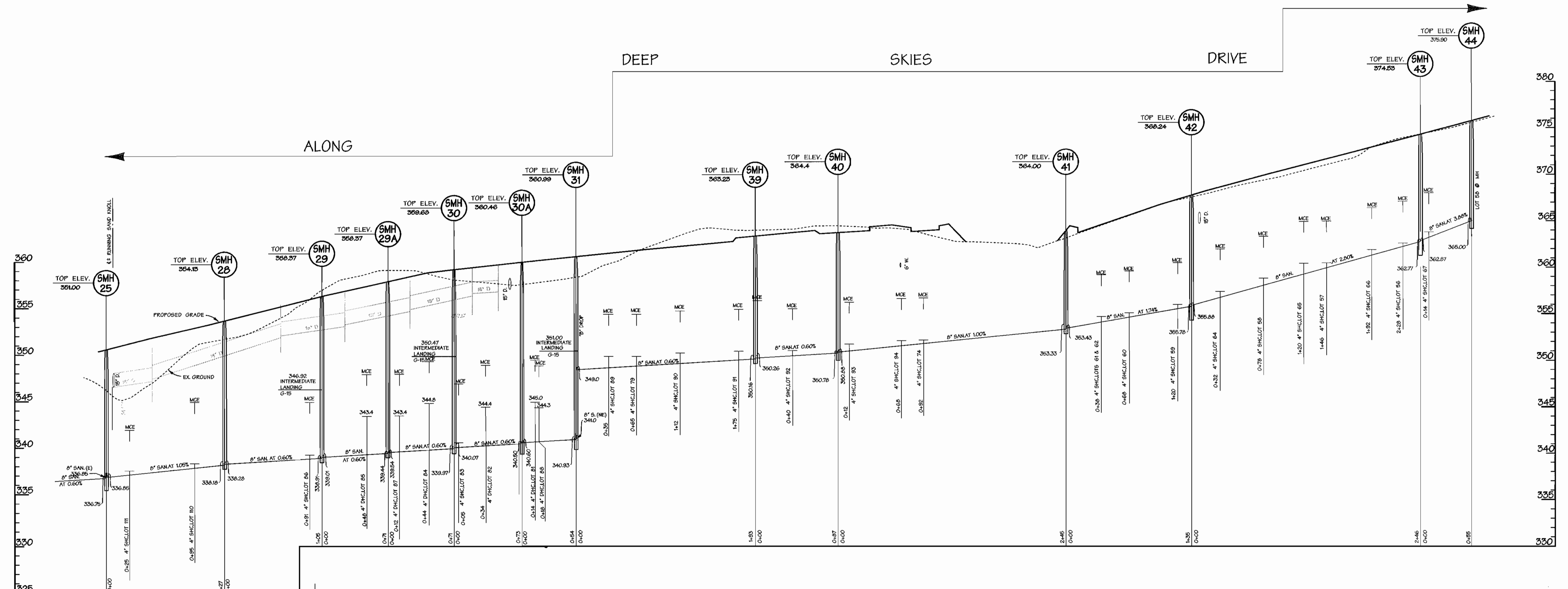
EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B

TAX MAP 47 P/O PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-3966-D

SCALE:
HOR: 1" = 50'
VER: 1" = 5'

SHEET
11 of 15



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

APPROVED _____

HOWARD S.C.D. DATE _____

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-137.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

R. J. Berman 12-07-01
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Clara Dammann 12/16/01
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Daft · McCune · Walker, Inc.

A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, Towson, Maryland 21286
Engineers, Surveyors & Environmental Professionals 410 296 3333
Fax 296 4705



DESIGN BY:	MAT			
DRAWN BY:	KMF			
CHECKED BY:	TJR III			
DATE:	08/10/01			
BY NO.		REVISION		DATE

PROPOSED 8" SEWER PROFILES

600 SCALE MAP NO. 47 BLOCK NO. 7&B

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B

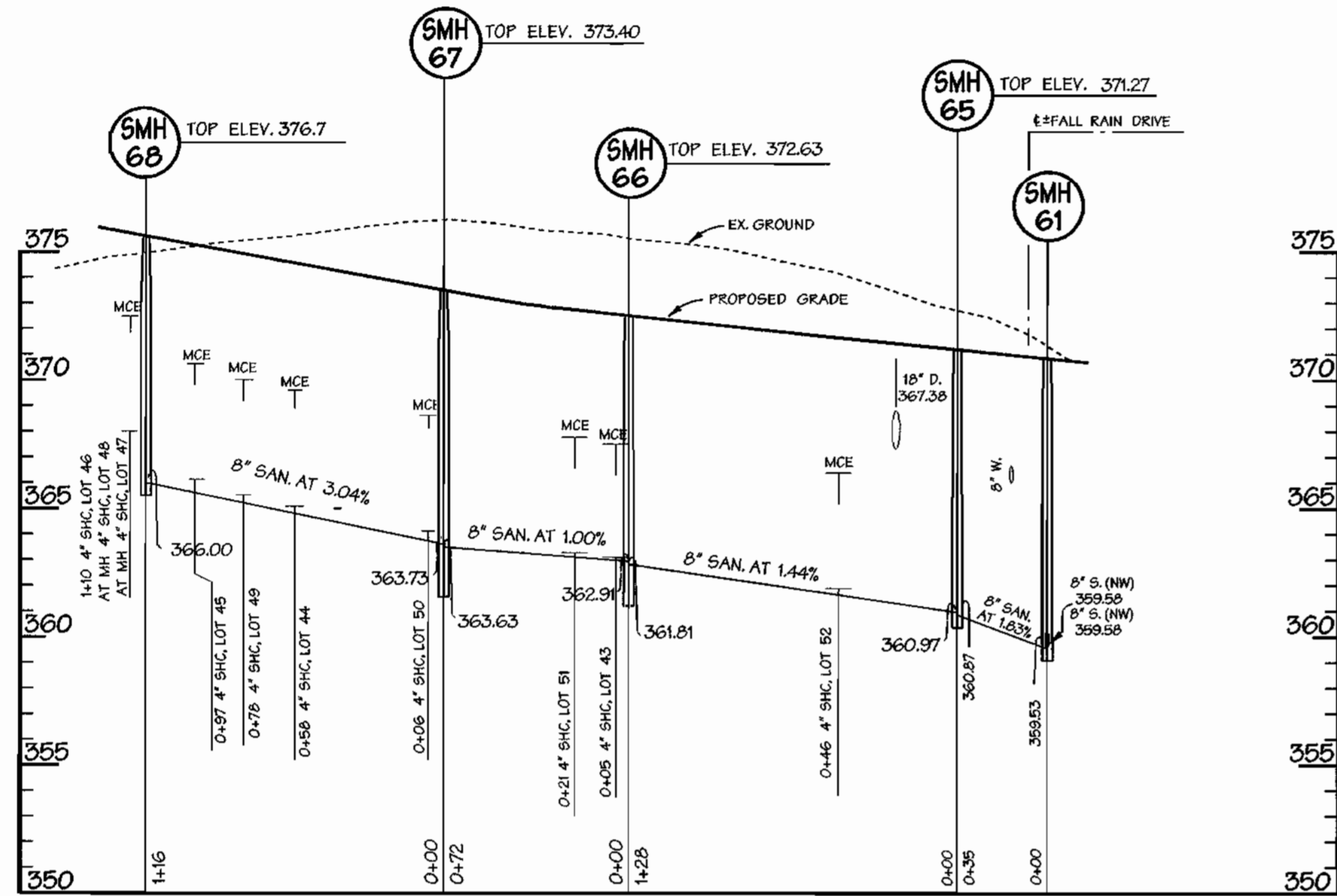
TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-3966-D

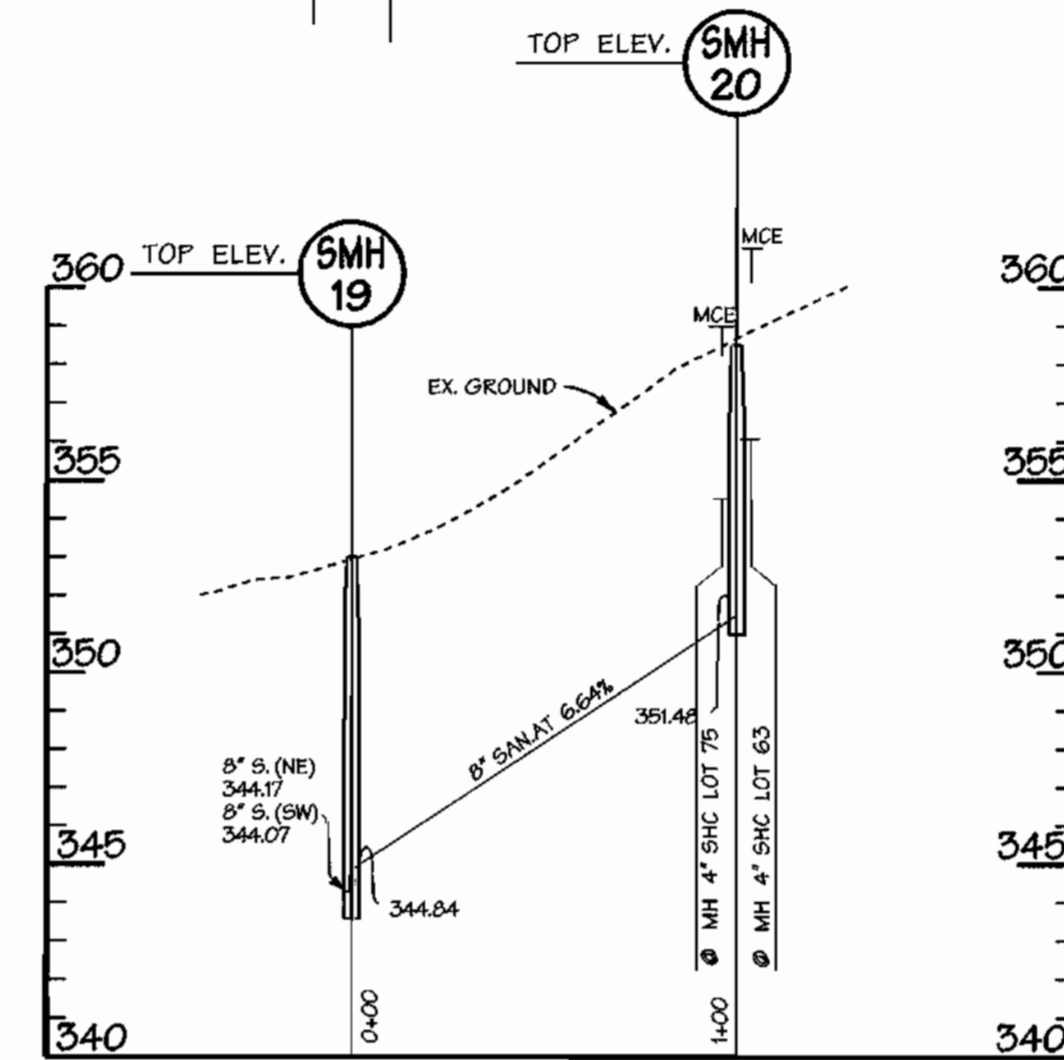
SCALE:
HOR: 1" = 50'
VER: 1" = 5'

SHEET
12 of 15

ALONG OCEAN SAND COURT

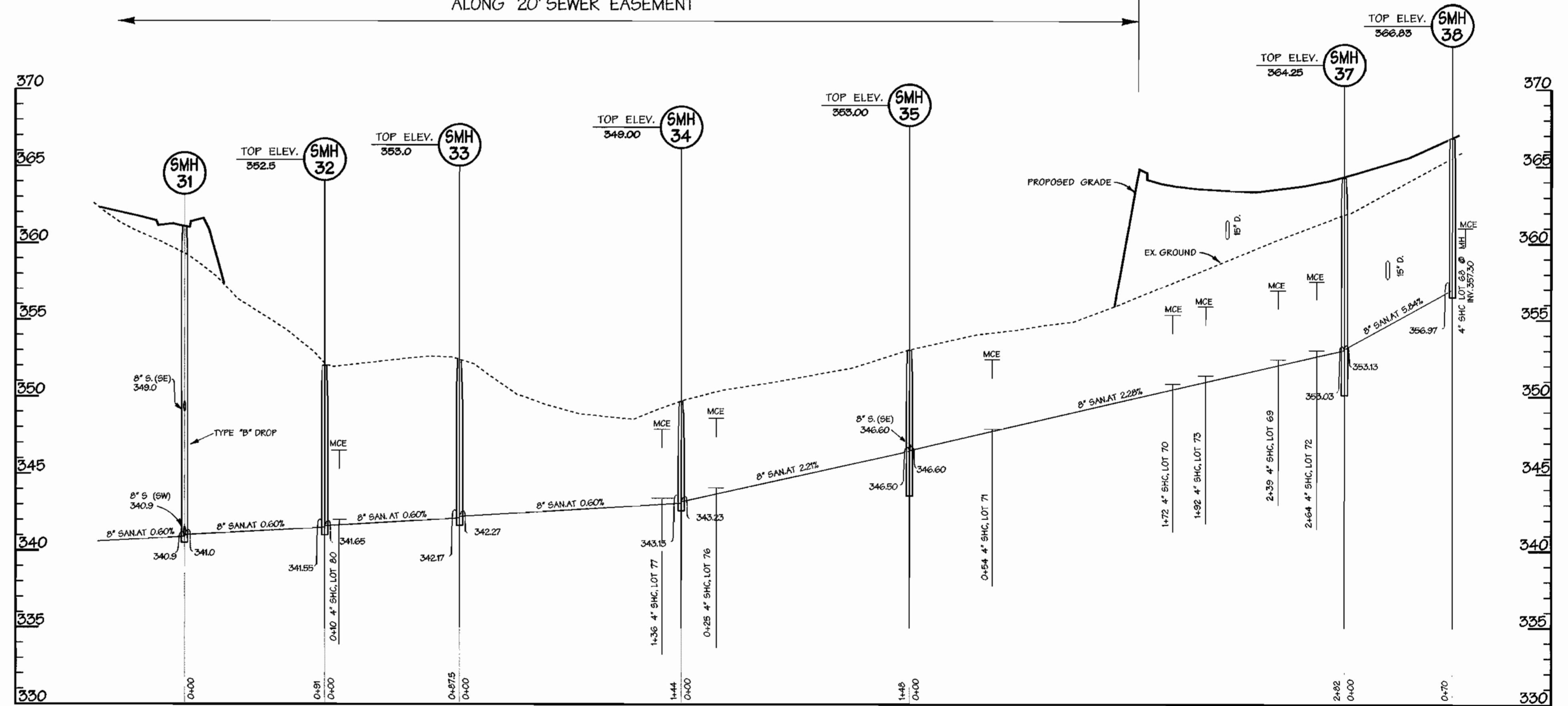


20' UTILITY ESMT.
ALONG 20' UTILITY ESMT.



ALONG SEA VALLEY WAY

ALONG 20' SEWER EASEMENT



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

~~_____
SIGNATURE~~ ~~_____
DATE~~

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

APPROVED

~~_____
HOWARD S.C.D.~~ ~~_____
DATE~~

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-137.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert Danner 12-07-01
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Chris Danner 12/2/01
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Daft · McCune · Walker, Inc.

A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, Towson, Maryland 21286
Engineers, Surveyors & Environmental Professionals 410 296 3333
Fax 296 4705

DESIGN BY: MAT			
DRAWN BY: KMF			
CHECKED BY: TJR III			
DATE: 08/10/01			
BY NO.		REVISION	

PROPOSED 8" SEWER PROFILES

600 SCALE MAP NO. 47 BLOCK NO. 78B

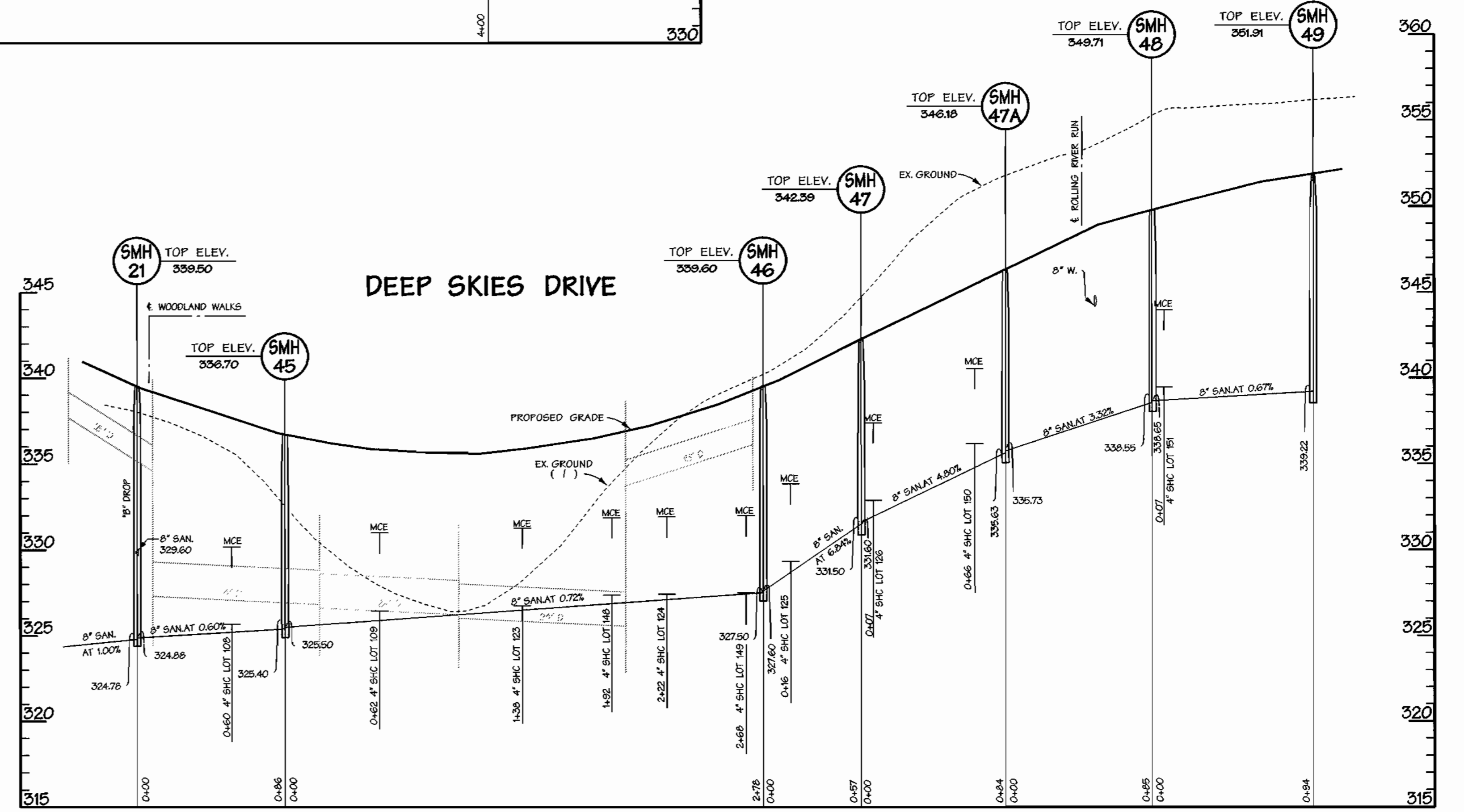
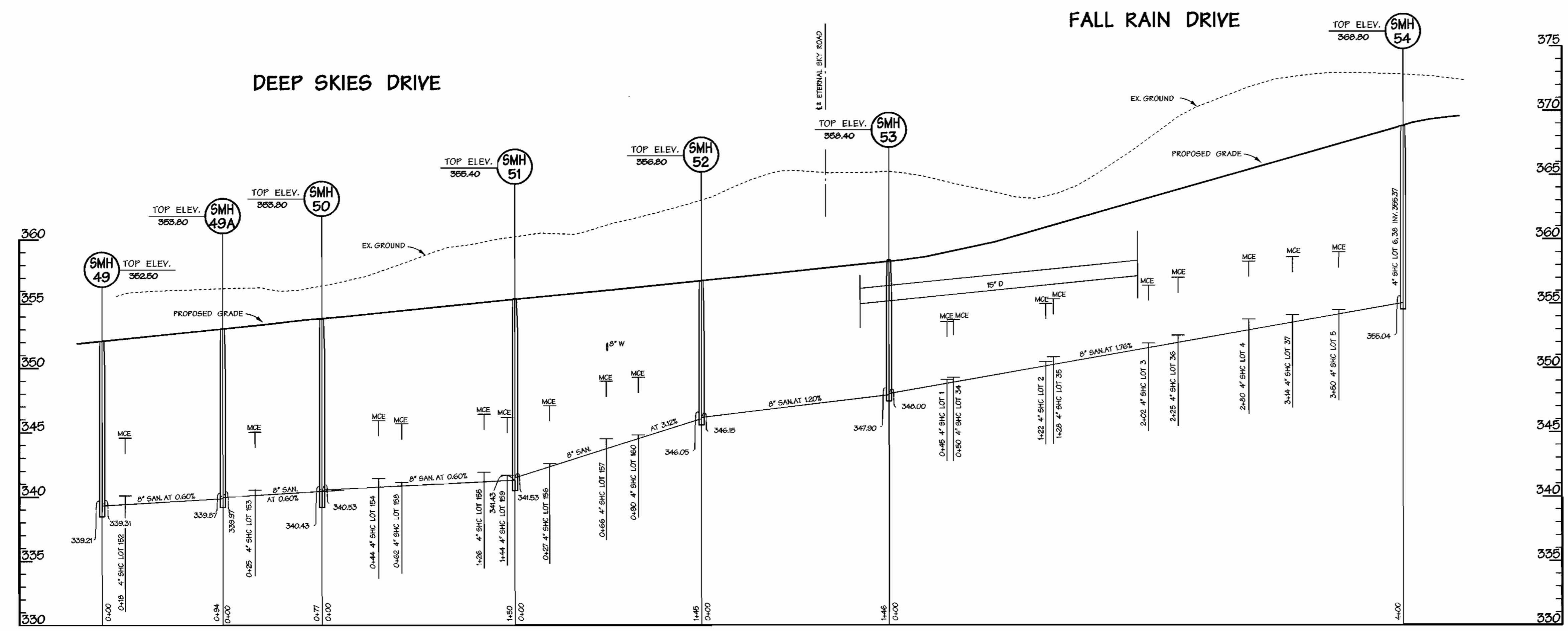
EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B

TAX MAP 47 P/O PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-3966-D

SCALE:
HOR: 1" = 50'
VER: 1" = 5'

SHEET
13 of 15



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

APPROVED _____

HOWARD S.C.D. DATE _____

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-157.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert D. ... 12/7/01
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

... 12/2/01
CHIEF-DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Daft · McCune · Walker, Inc.

A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, Towson, Maryland 21286
Engineers, Surveyors & Environmental Professionals 410 296 3333
Fax 296 4705

DESIGN BY:				
MAT				
DRAWN BY:				
KMF				
CHECKED BY:				
TJR III				
DATE:				
08/10/01	BY	NO.	REVISION	DATE

PROPOSED 8" SEWER PROFILES

600 SCALE MAP NO. 47 BLOCK NO. 7&B

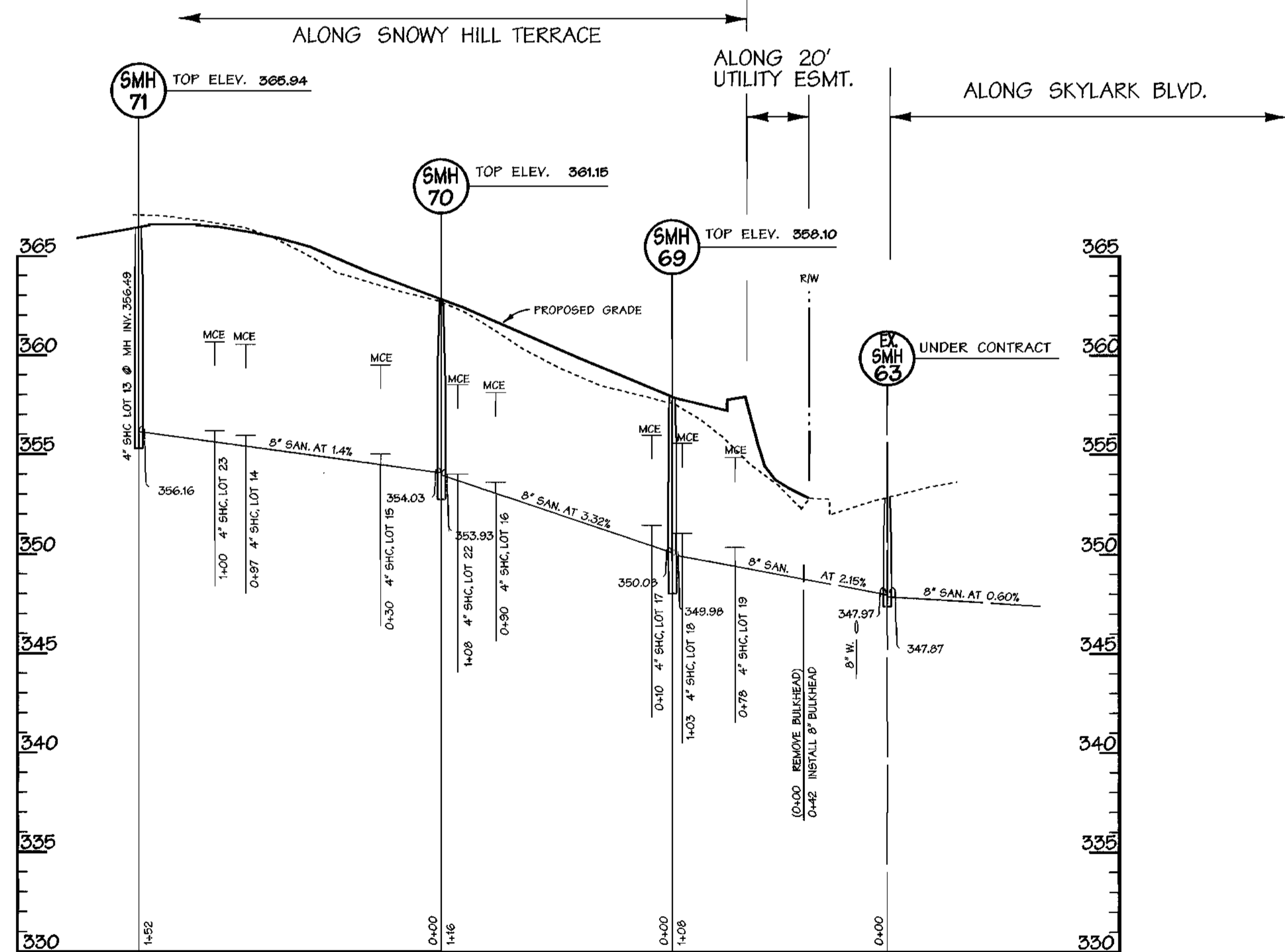
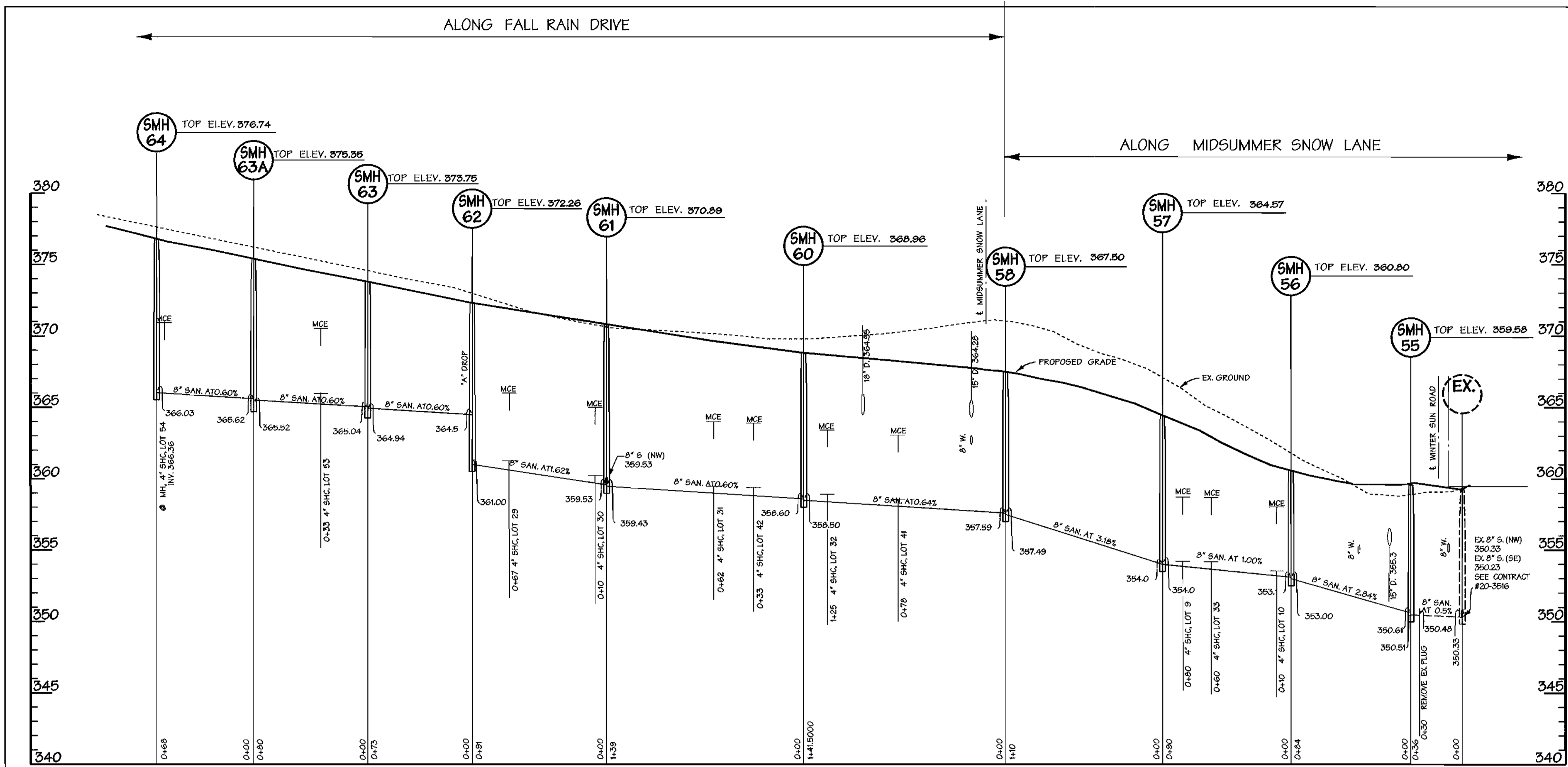
EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B

TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-3966-D

SCALE:
HOR: 1" = 50'
VER: 1" = 5'

SHEET
14 of 15



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

APPROVED _____

HOWARD S.C.D. DATE _____

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-137.

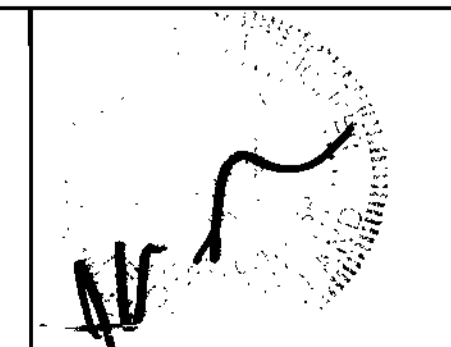
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert J. ... (2-7-01)
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

... 12/2/01
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, Towson, Maryland 21286
Engineers, Surveyors & Environmental Professionals 410 296 3333
Fax 296 4705



DESIGN BY:	MAT
DRAWN BY:	KMF
CHECKED BY:	TJR III
DATE:	08/10/01
BY NO.	
REVISION	
DATE	

PROPOSED 8" SEWER PROFILES

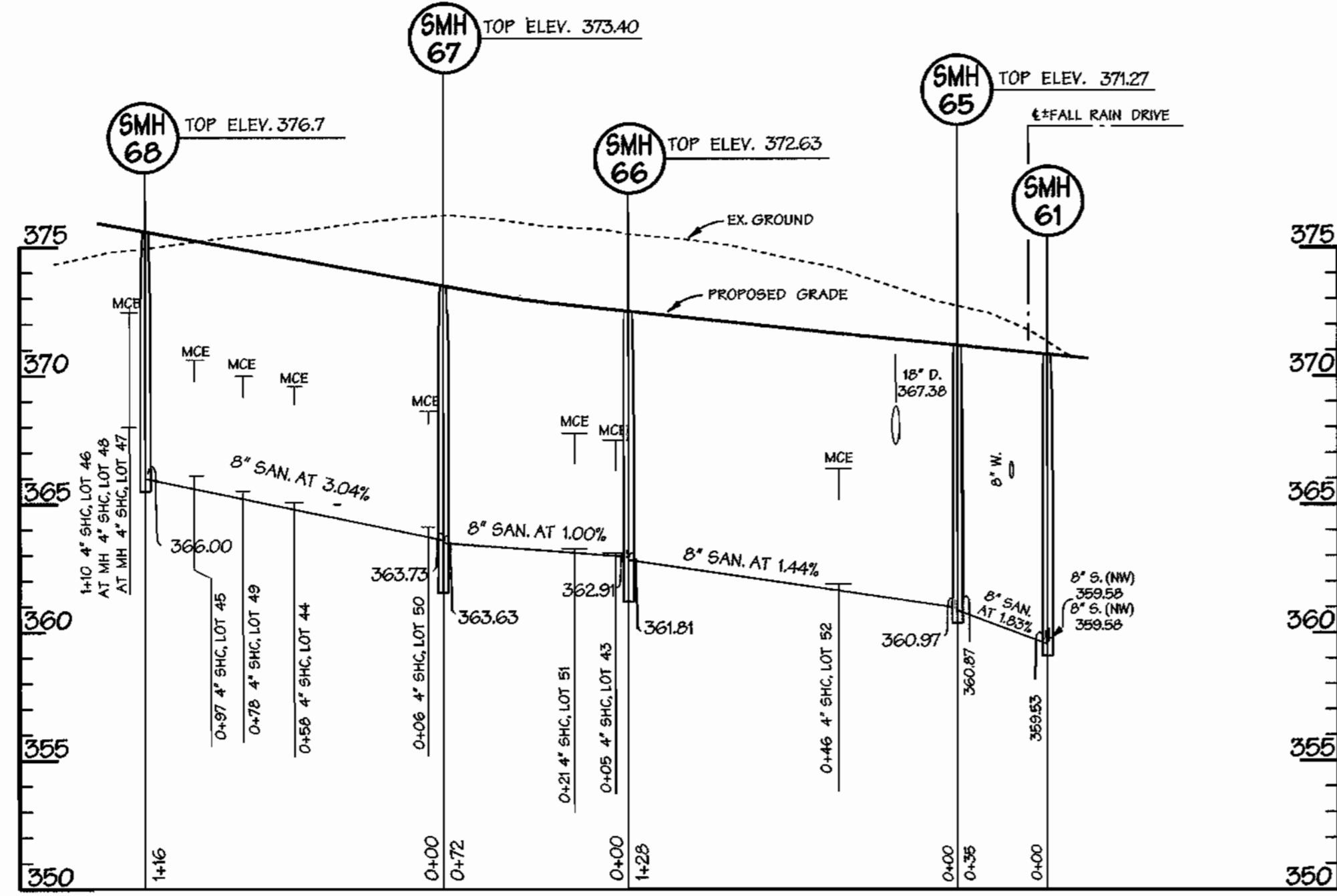
600 SCALE MAP NO. 47 BLOCK NO. 78B

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B
TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

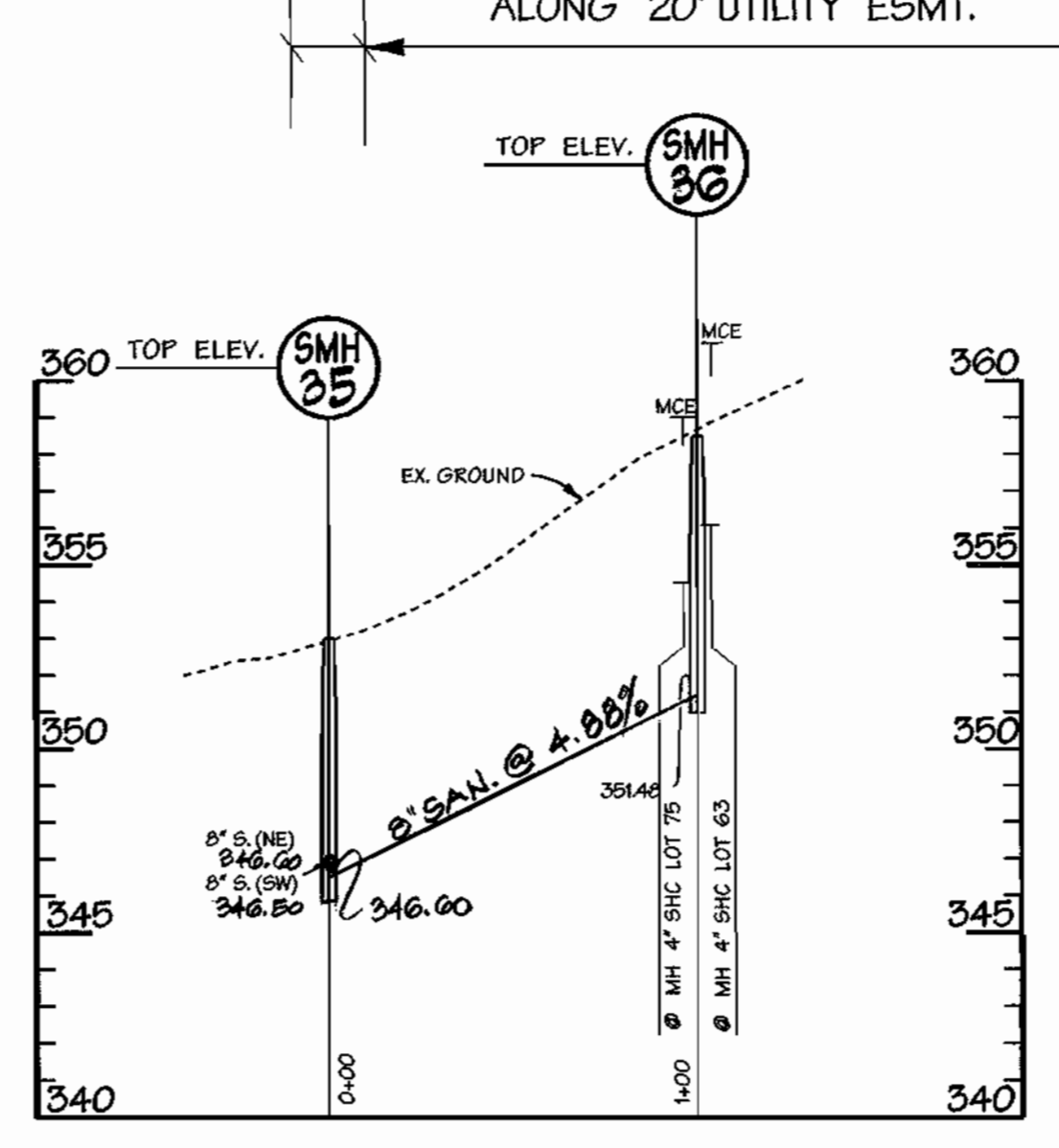
SCALE:
HOR: 1" = 50'
VER: 1" = 5'

SHEET
15 of 15

ALONG OCEAN SAND COURT

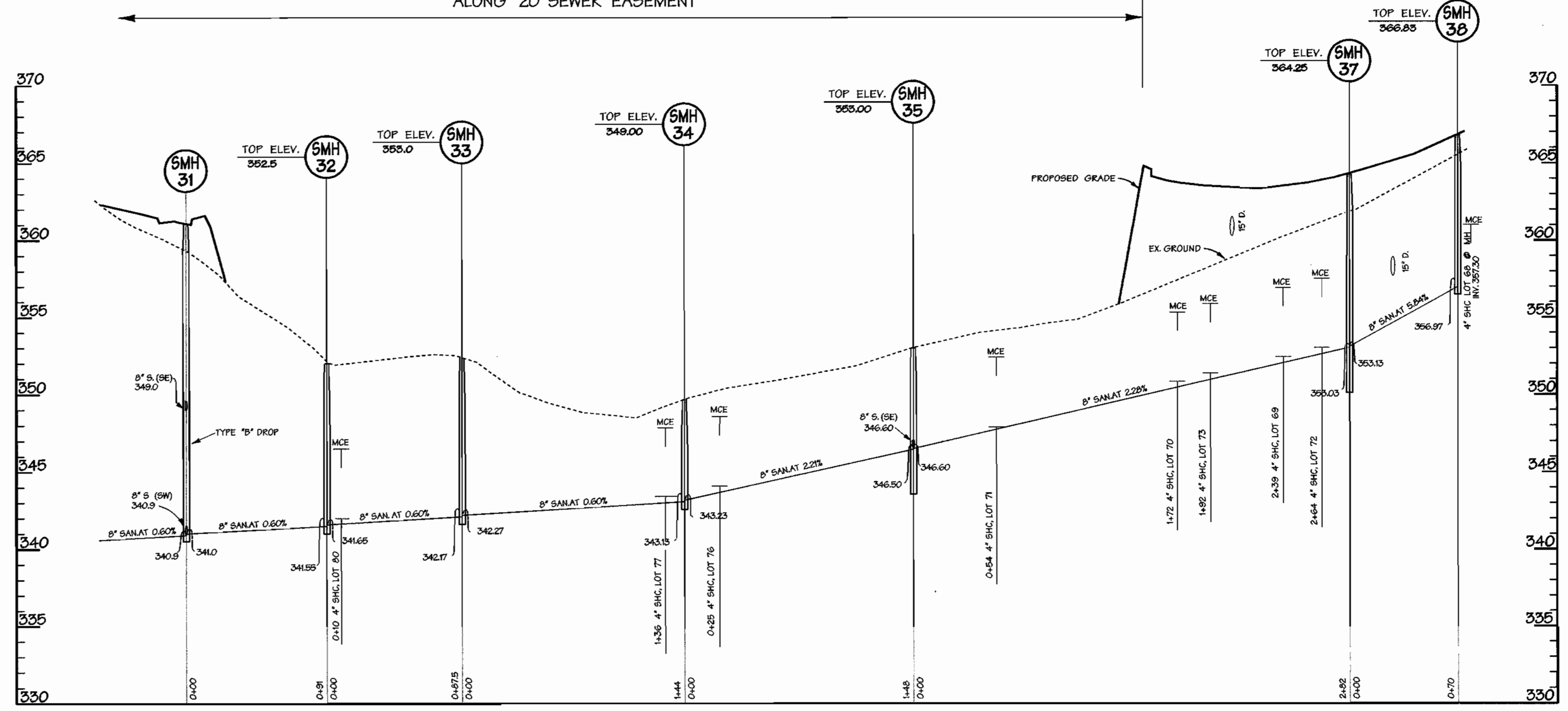


20' UTILITY ESMT.
ALONG 20' UTILITY ESMT.



ALONG SEA VALLEY WAY

ALONG 20' SEWER EASEMENT



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

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APPROVED _____ DATE _____

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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

HOWARD S.C.D. DATE _____

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

DATE _____

DMW
Daft · McCune · Walker, Inc.

A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals

200 East Pennsylvania Avenue
Towson, Maryland 21286
410 296 3333
Fax 296 4705



DESIGN BY:	MAT
DRAWN BY:	KMF
CHECKED BY:	TJR III
DATE:	08/10/01
BY:	NO.
NO.	

PROPOSED 8" SEWER PROFILES

SEWER PROFILE & M NUMBERS 35 & 36

DATE 2/19/02

REVISION

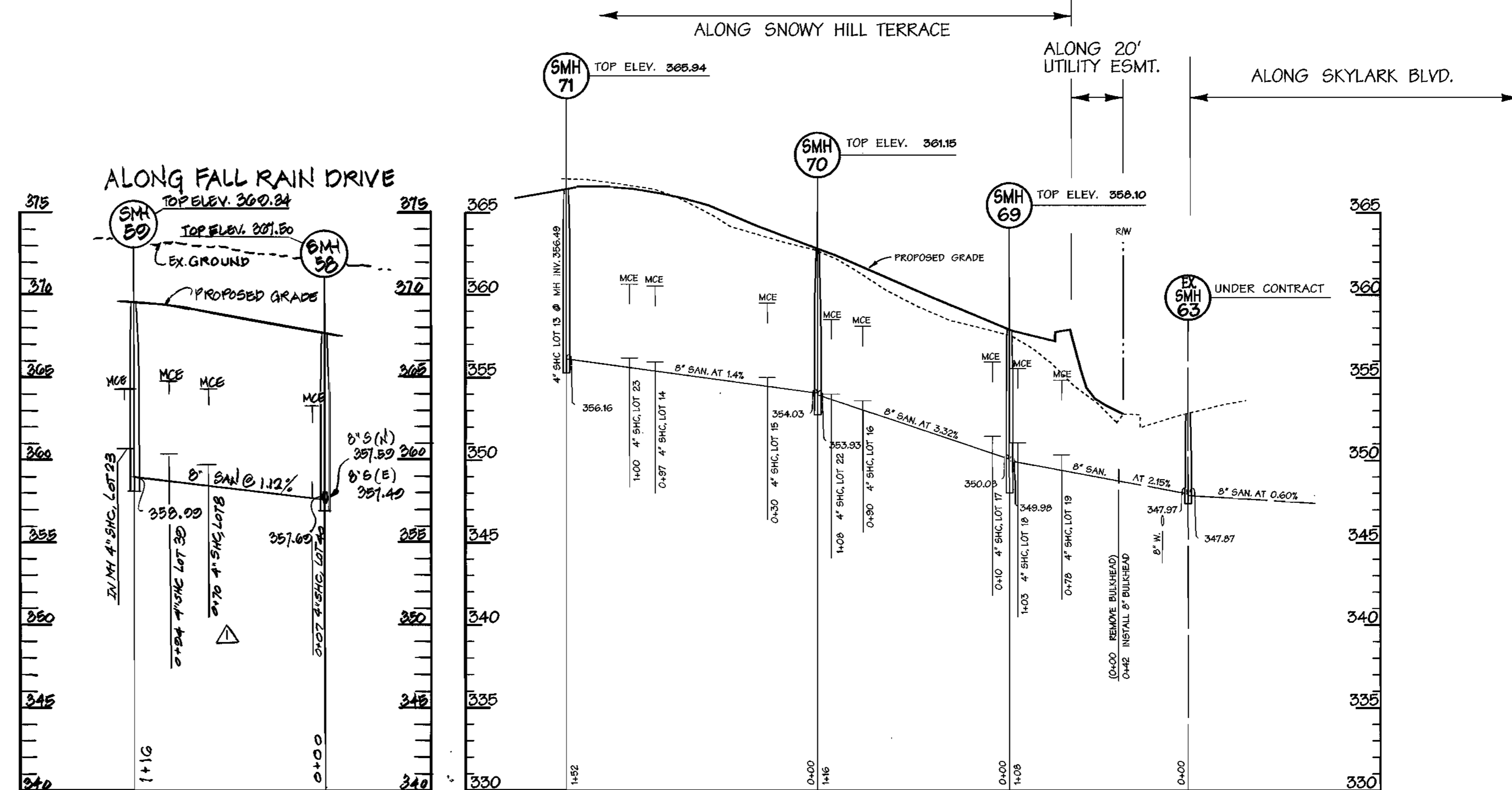
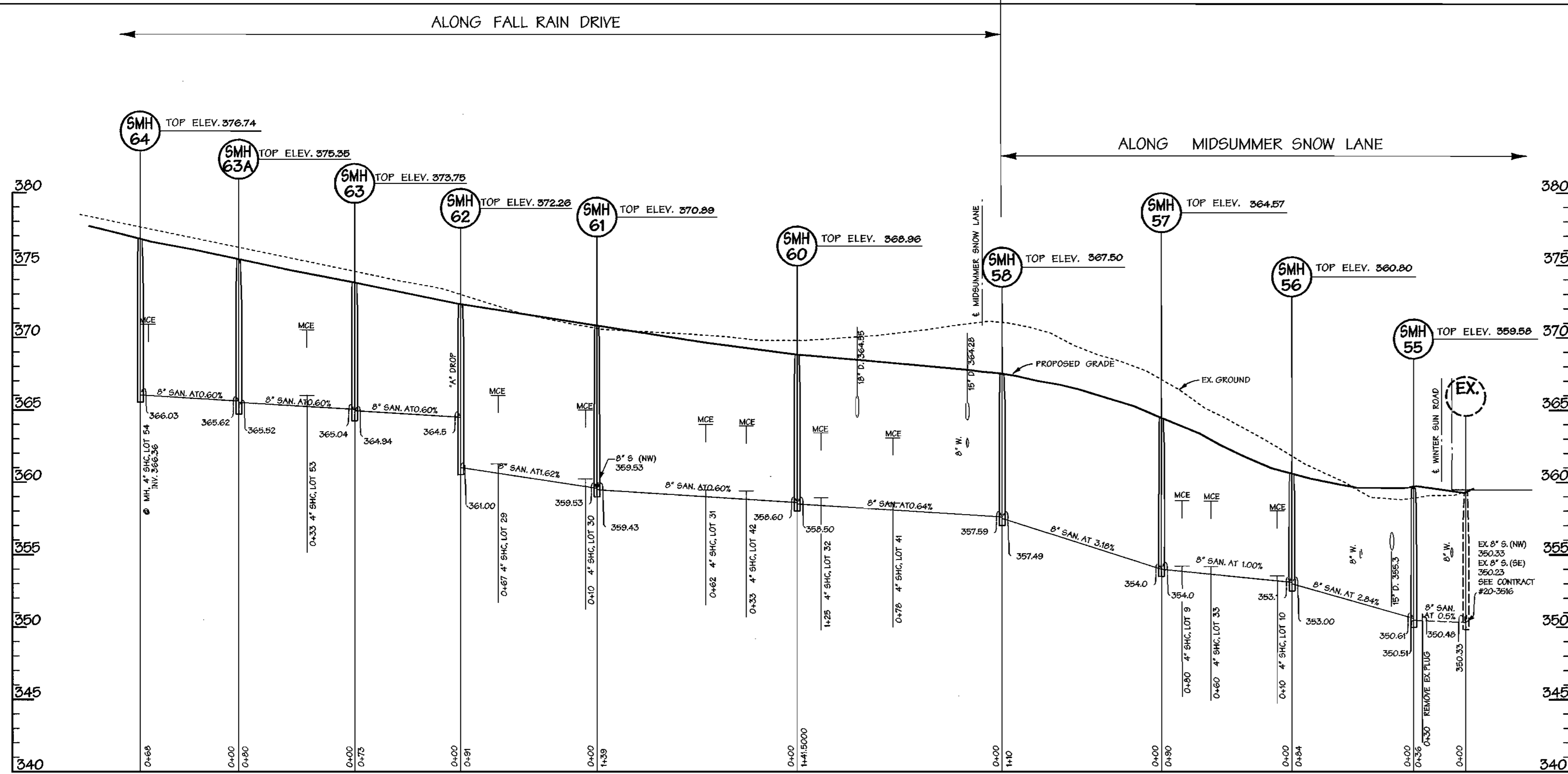
EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B

TAX MAP 47 P10 PARCEL F. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-3966-D

SCALE:
HOR: 1" = 50'
VER: 1" = 5'

SHEET
13 OF 15



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

HOWARD S.C.D. DATE _____

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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals
200 East Pennsylvania Avenue
Towson, Maryland 21286
410 296 3333
Fax 296 4705



DESIGN BY:	MAT		
DRAWN BY:	KMF		
CHECKED BY:	TJR III		
DATE:	08/10/01		
BY NO.	DMW	ADDED PROFILE	2/15/02
REVISION			

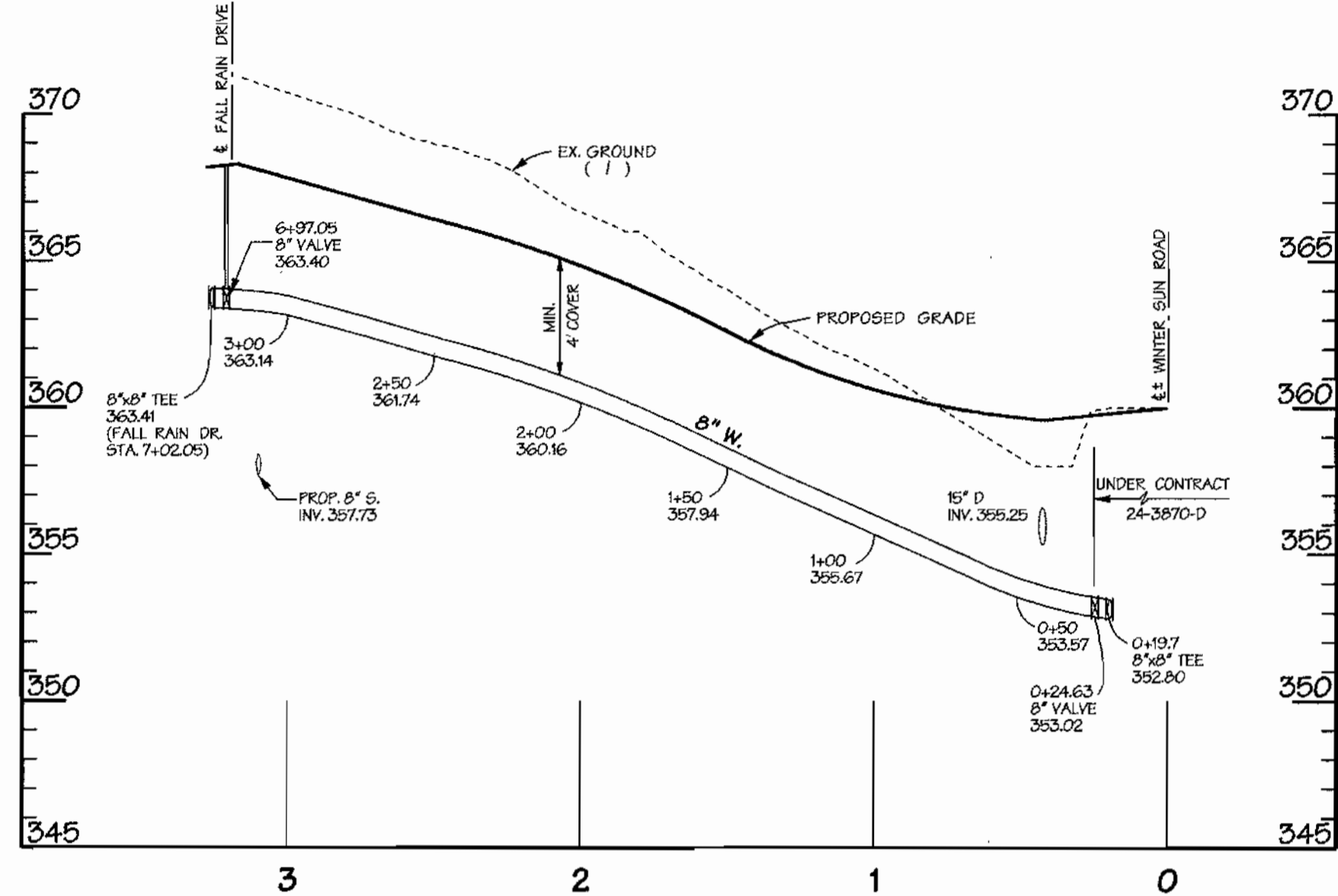
PROPOSED 8" SEWER PROFILES

600 SCALE MAP NO. 47 BLOCK NO. 76B

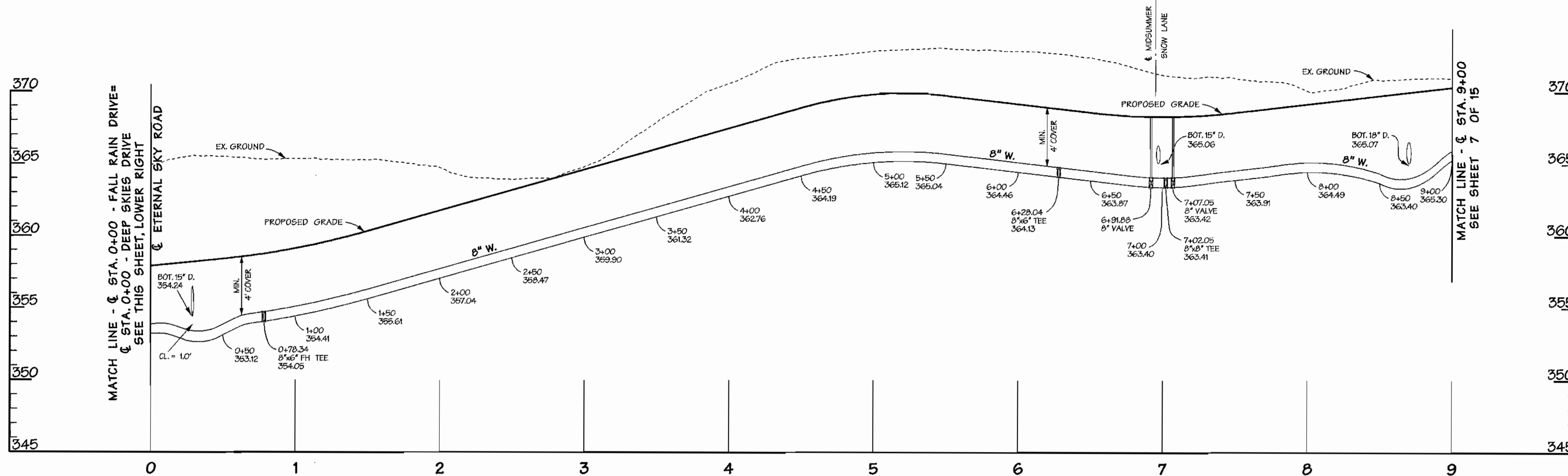
EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B
TAX MAP 47 P/O PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

SCALE:
HOR: 1" = 50'
VER: 1" = 5'
SHEET
15 of 15

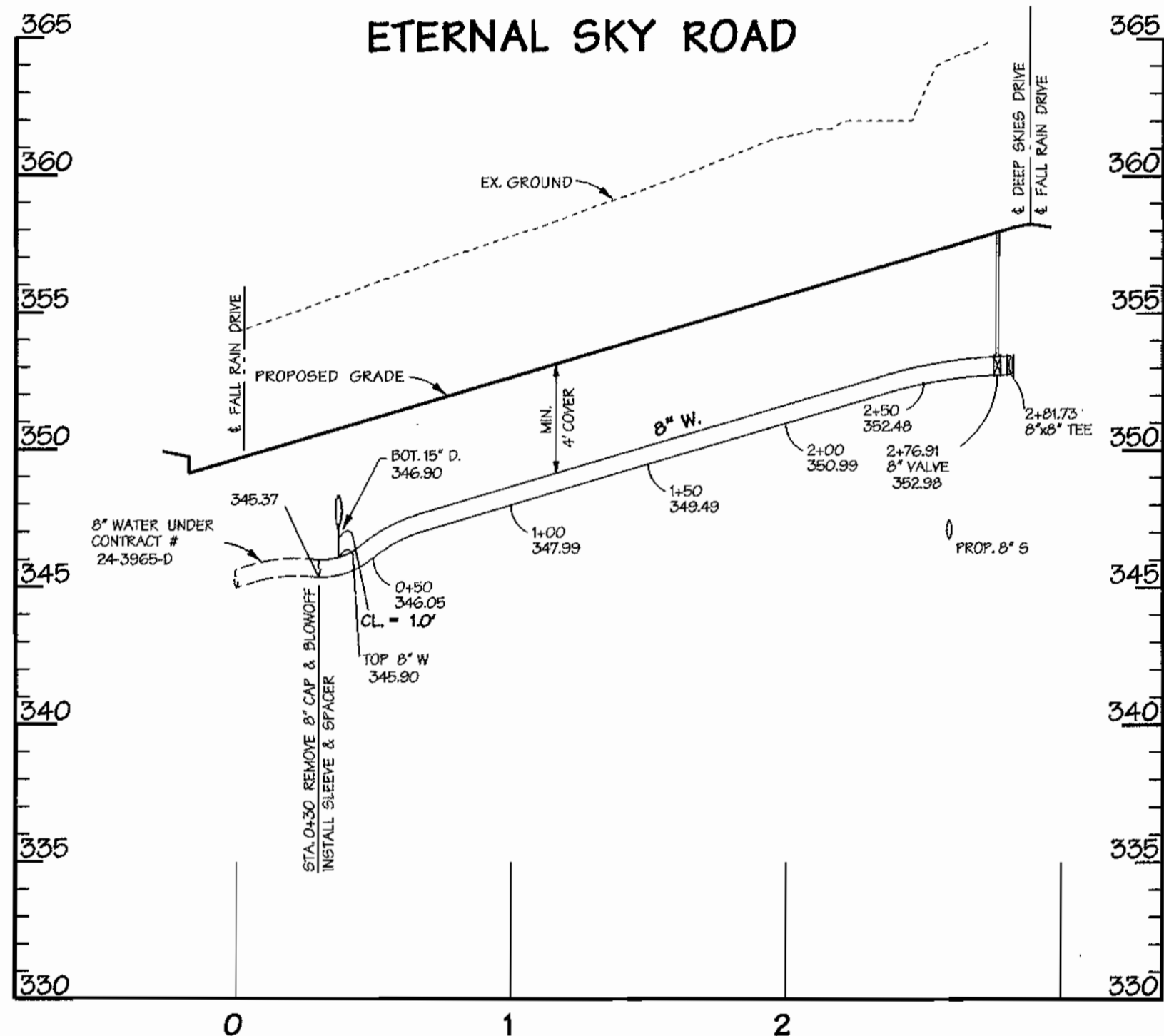
MIDSUMMER SNOW LANE



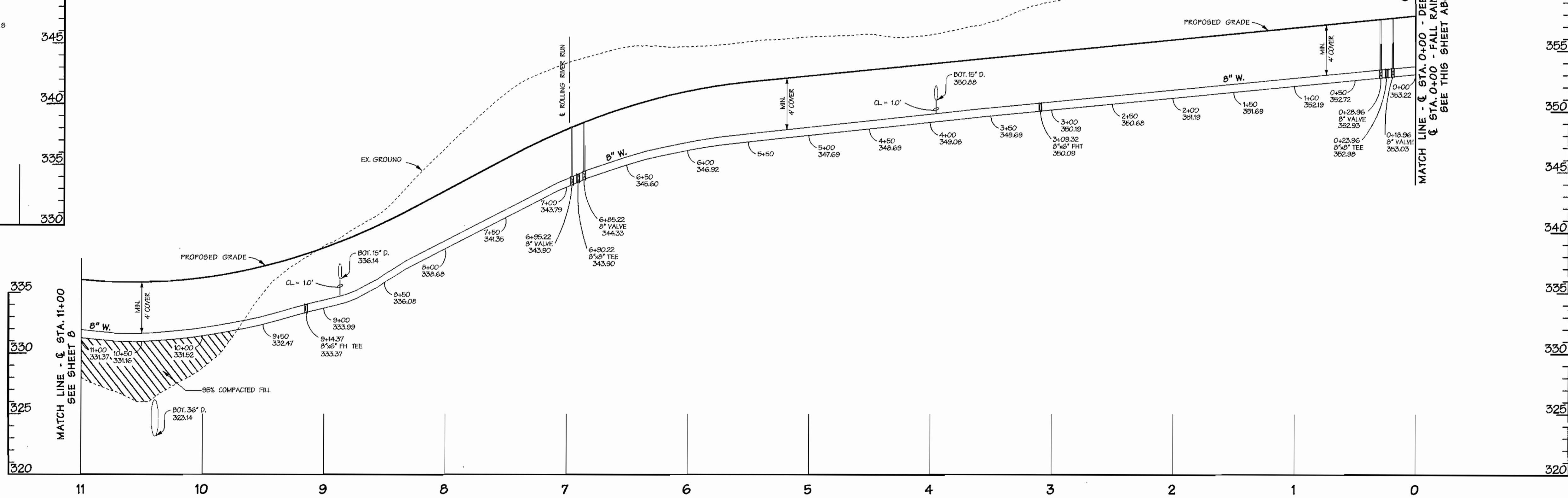
FALL RAIN DRIVE



ETERNAL SKY ROAD



DEEP SKIES DRIVE



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT
AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

HOWARD S.C.D. _____ DATE _____

SEDIMENT CONTROL MEASURES WILL
BE IMPLEMENTED IN ACCORDANCE WITH
SECTION 219 OF THE SPECIFICATIONS AND
WITH ROAD CONSTRUCTION PLANS F-01-137

AS BUILT

DATE: FEB. 2003

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

DMW
Daft • McCune • Walker, Inc.

A Team of Land Planners, 200 East Pennsylvania Avenue
Townson, Maryland 21286
Landscape Architects, 410 296 3333
Engineers, Surveyors & Environmental Professionals Fax 296 4705



DESIGN BY:	MAT	
DRAWN BY:	KMF	
CHECKED BY:	TJR III	
DATE:	08/10/01	
BY	NO.	REVISION

PROPOSED 8" WATER PROFILES

600 SCALE MAP NO. _____ BLOCK NO. _____

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B

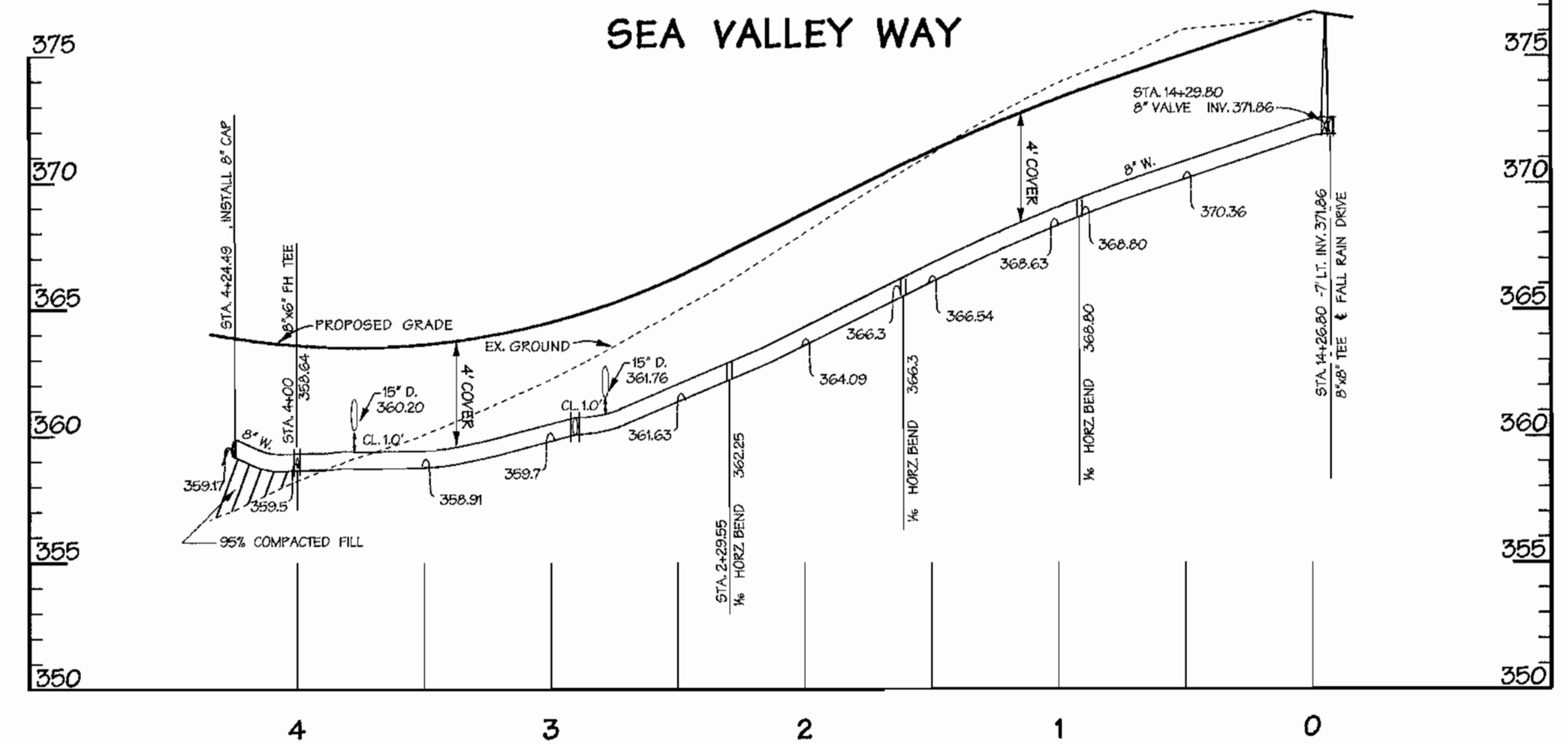
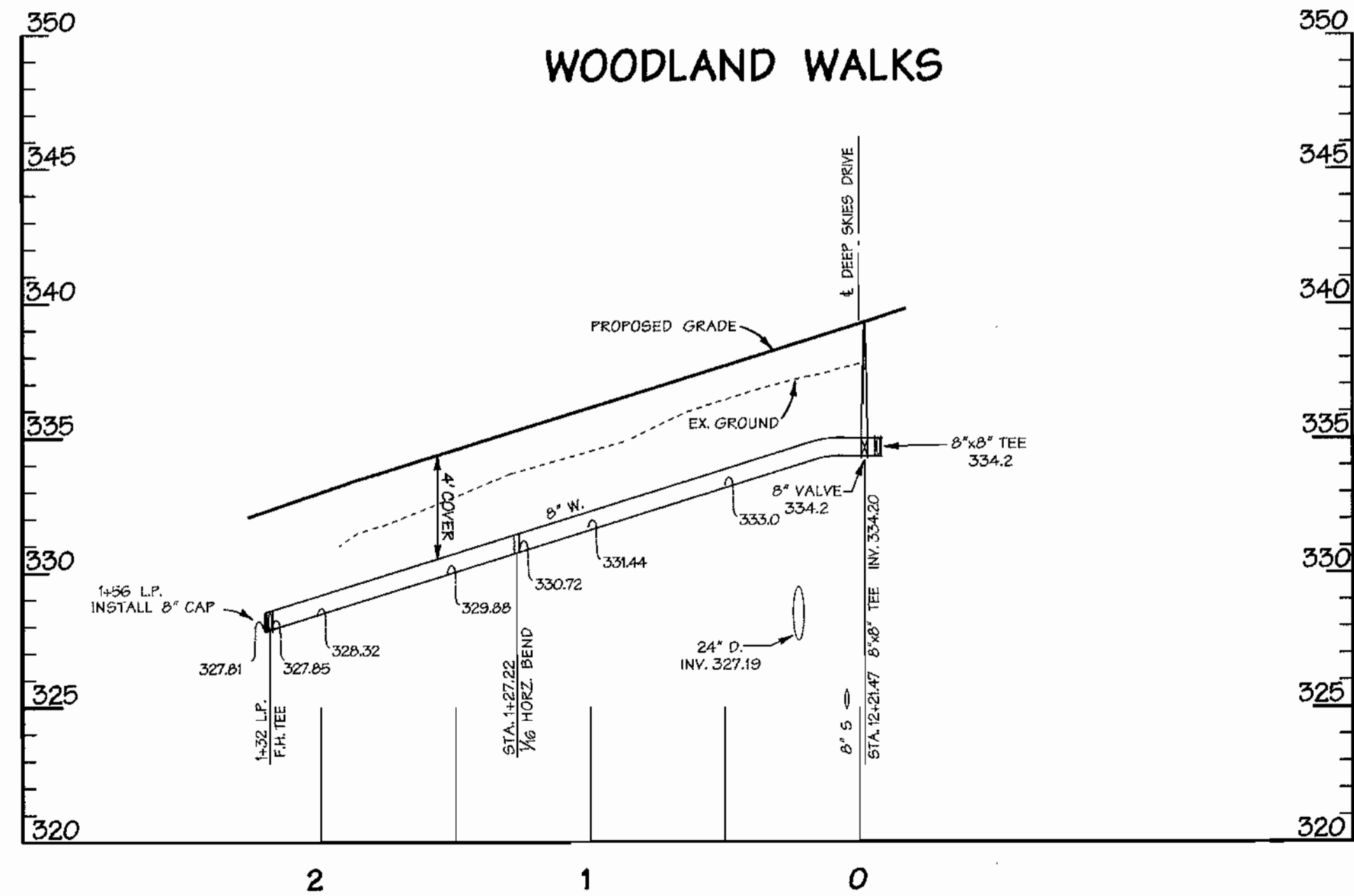
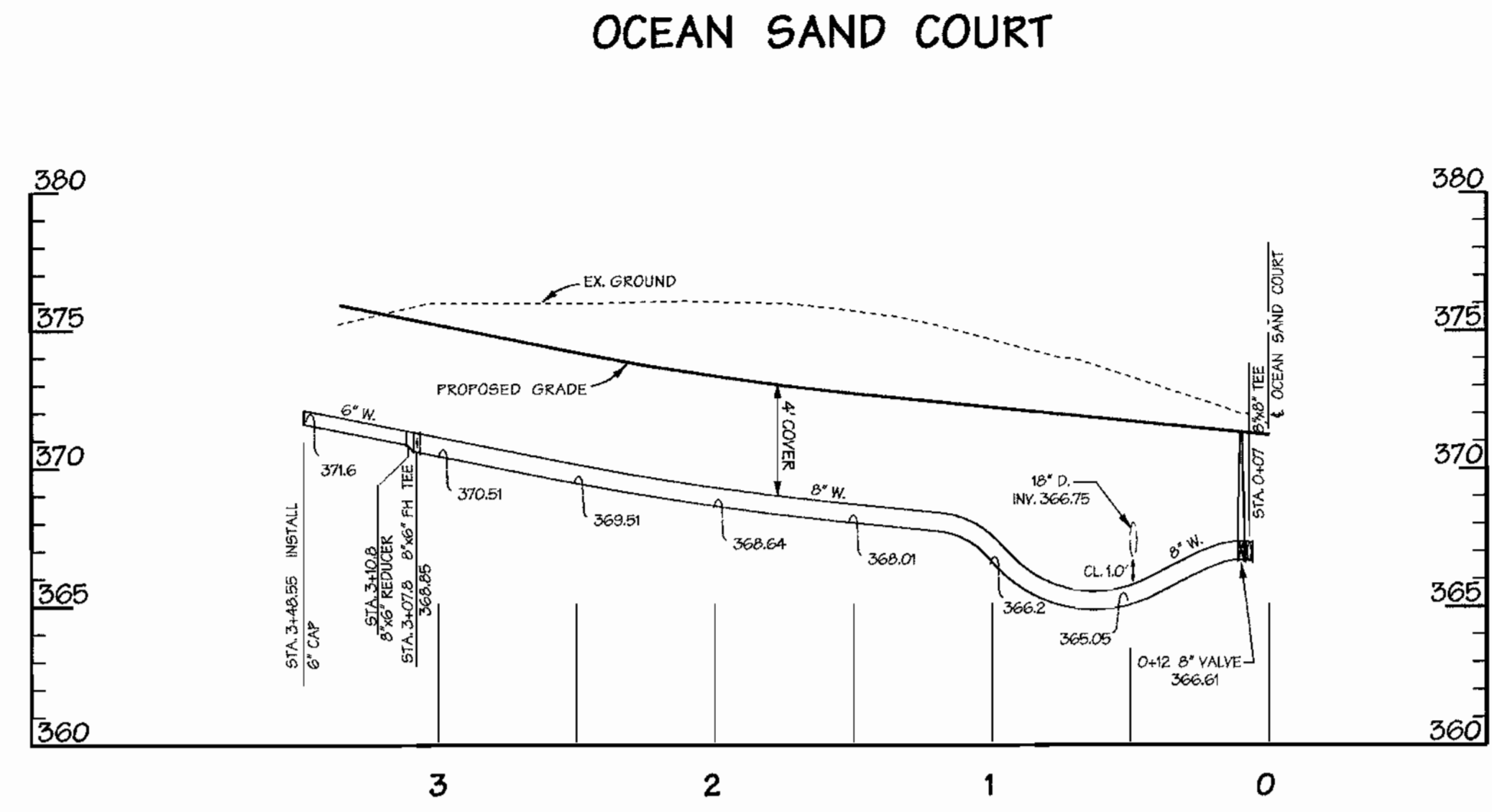
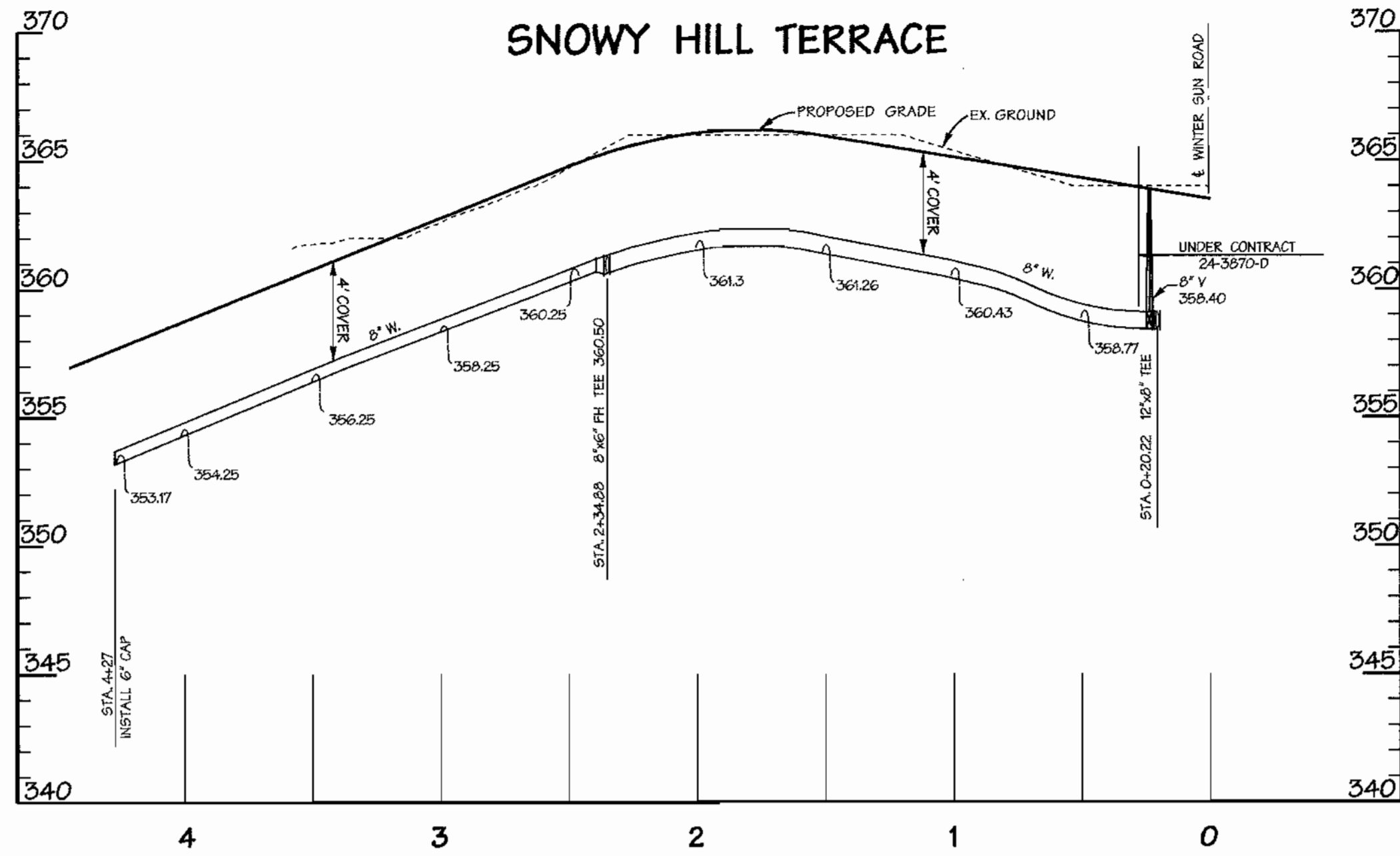
TAX MAP 47 P/O PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

SCALE:
HOR: 1" = 50'
VER: 1" = 5'

SHEET
6 OF 15

Chief - Bureau of Utilities - DATE 12-7-01

Chief-DEVELOPMT ENGINEERING DIVISION - DATE 12/26/01



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

HOWARD S.C.D. _____ DATE _____

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-157.

AS BUILT
DATE: FEB. 2003

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John D. ... 12-7-01
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

John D. ... 12/12/01
CHIEF-DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals

200 East Pennsylvania Avenue
Towson, Maryland 21286
410 296 3333
Fax 296 4705



DESIGN BY:	MAT			
DRAWN BY:	KMF			
CHECKED BY:	TJR III			
DATE:	08/10/01			
BY	NO.	REVISION	DATE	

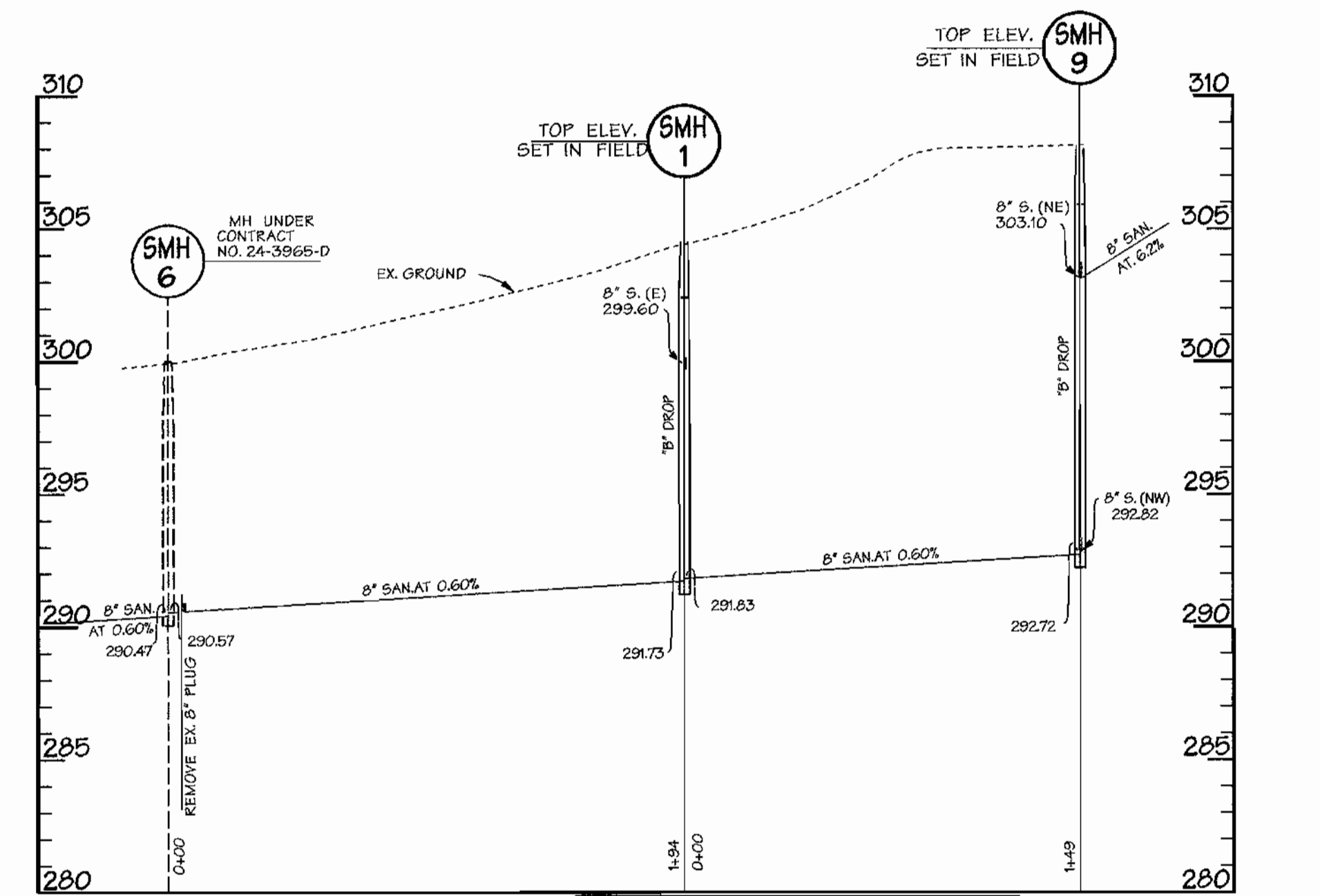
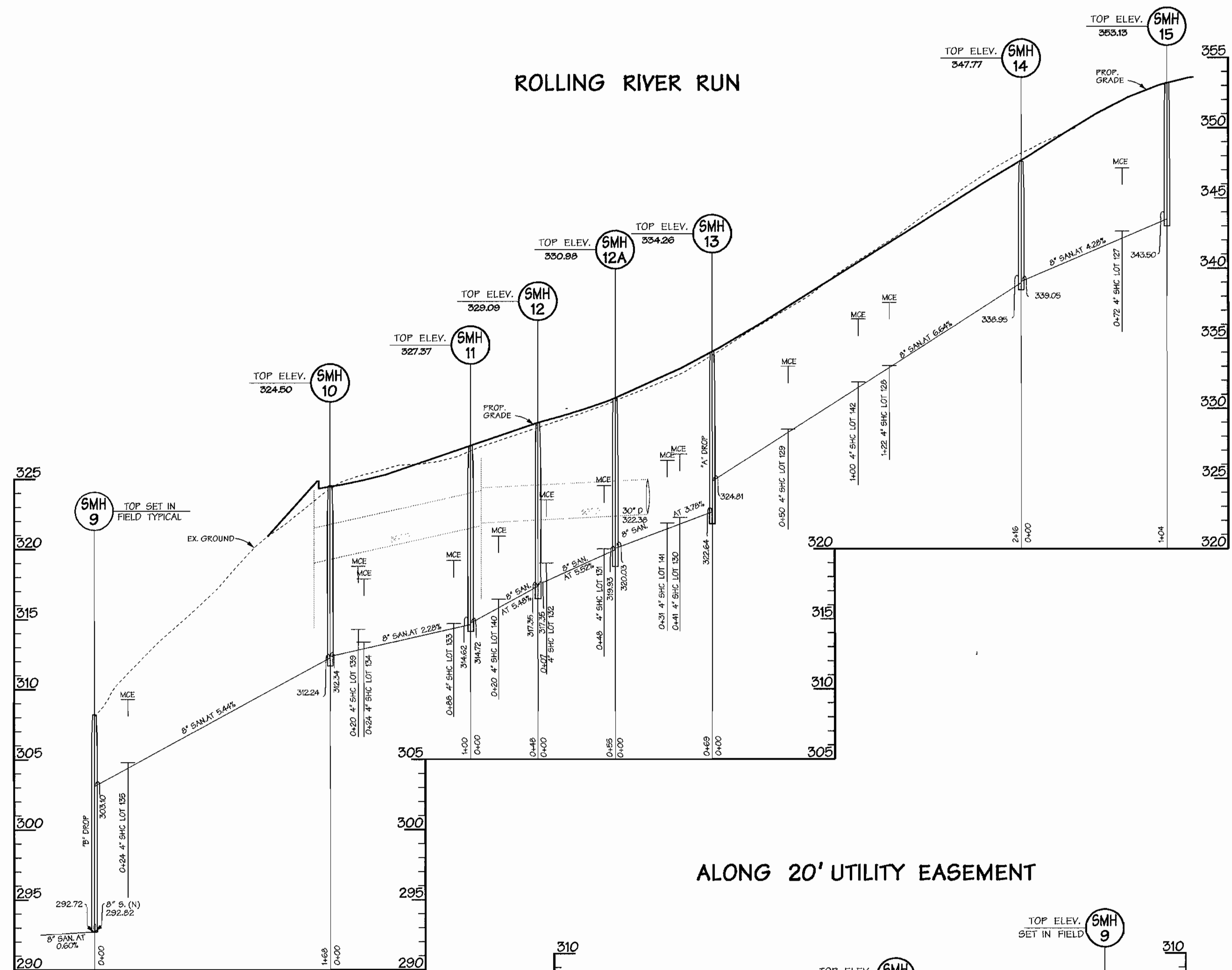
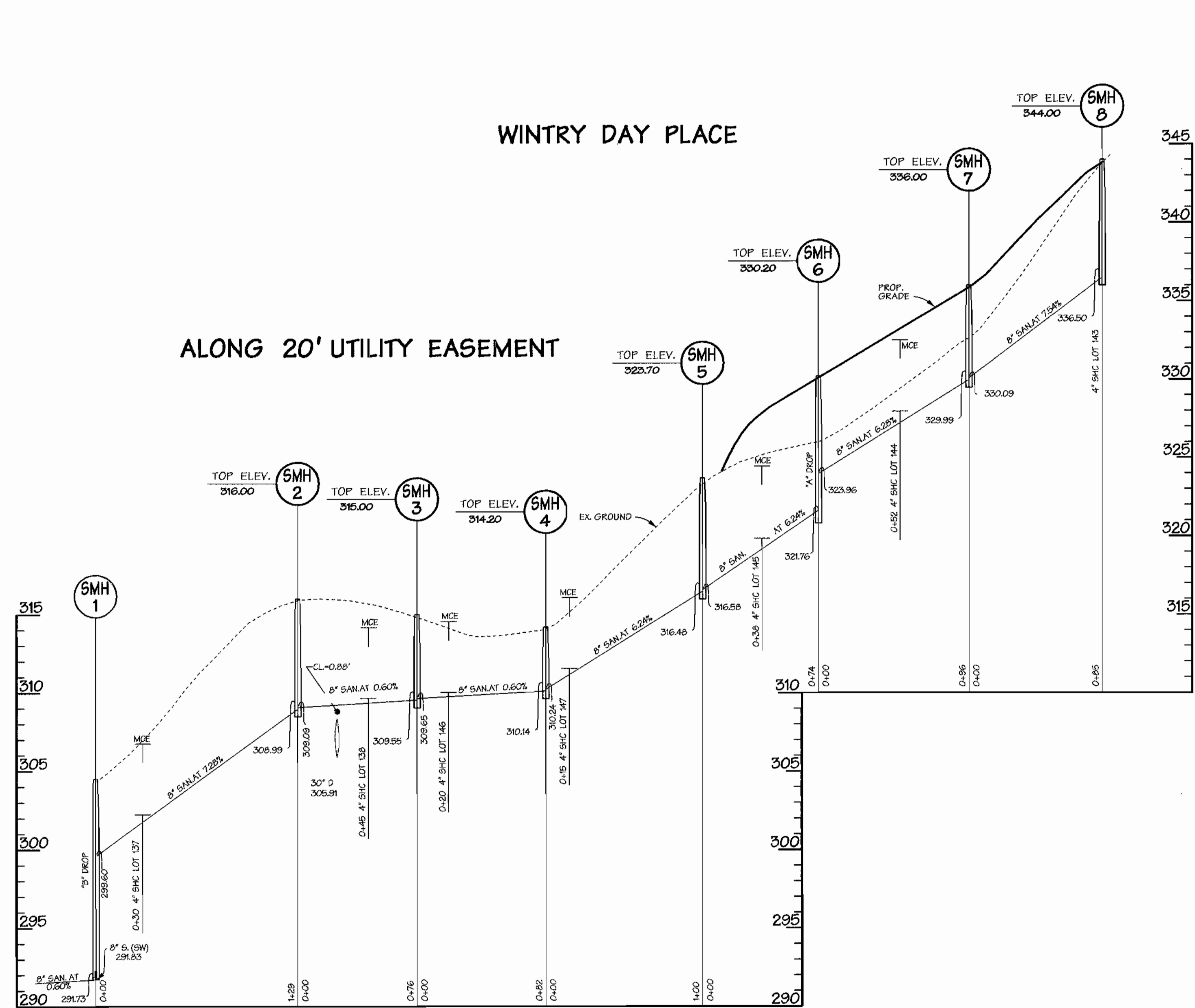
PROPOSED 8" WATER PROFILES

600 SCALE MAP NO. _____ BLOCK NO. _____

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B
TAX MAP 47 P/O PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

SCALE:
HOR.: 1" = 50'
VER.: 1" = 5'

SHEET
9 of 15



AS BUILT
DATE: FEB. 2003

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

HOWARD S.C.D. DATE _____

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-157.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals



DESIGN BY:	MAT			
DRAWN BY:	KMF			
CHECKED BY:	TJR III			
DATE:	08/10/01	BY:	NO.	REVISION

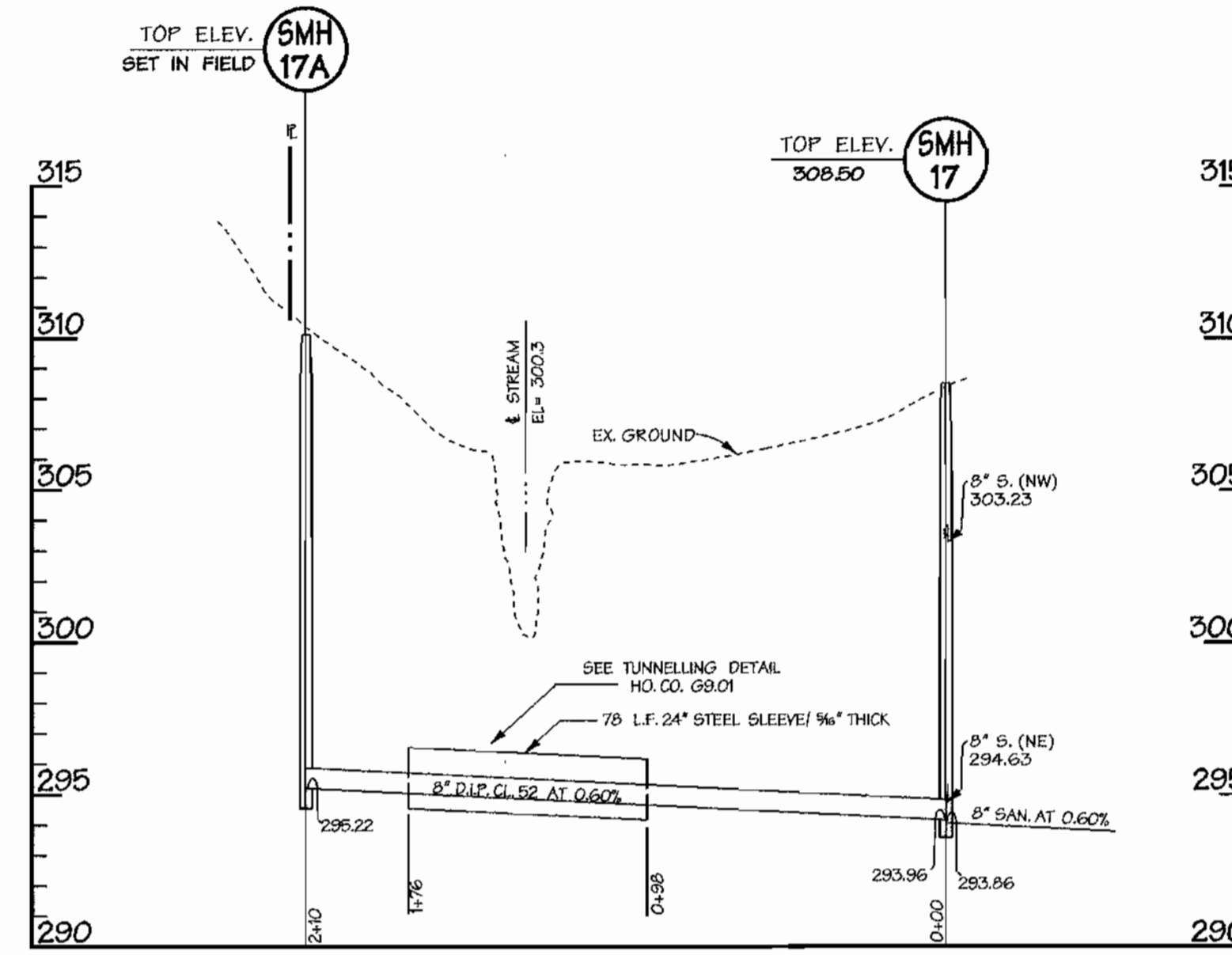
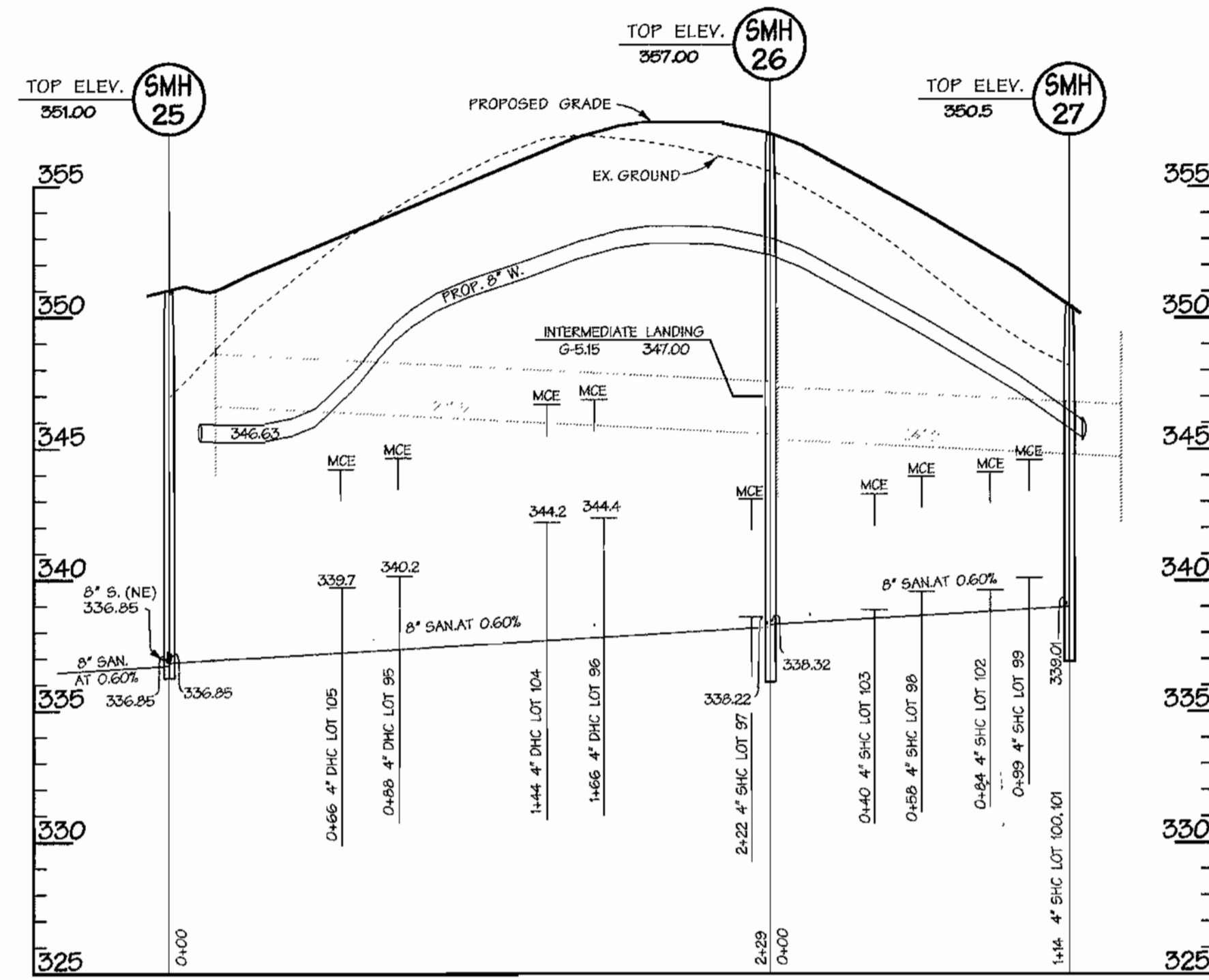
PROPOSED 8" SEWER PROFILES

600 SCALE MAP NO. 47 BLOCK NO. 7&8

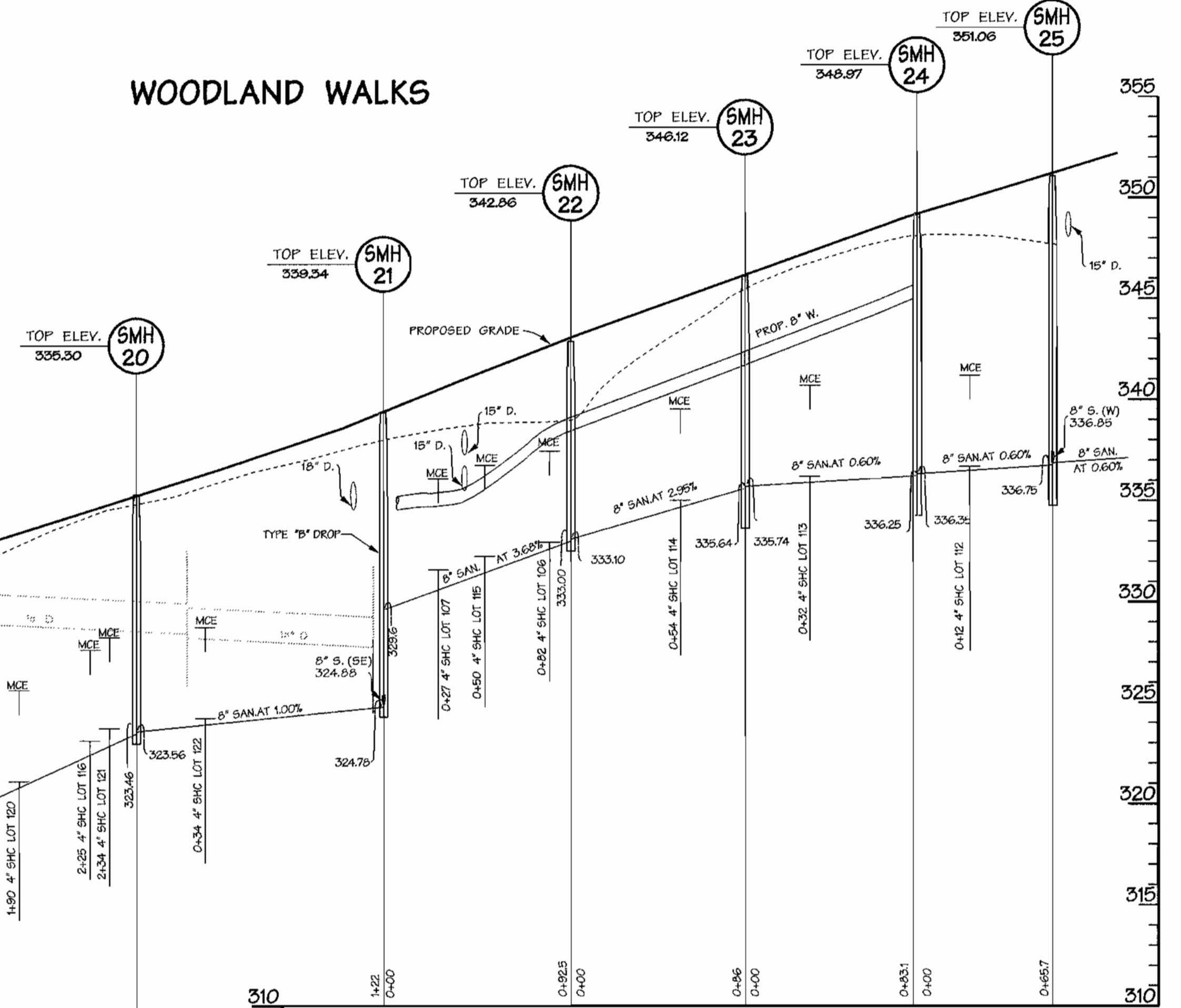
EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B
TAX MAP 47 P/O PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

SCALE:
HOR.: 1" = 50'
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SHEET
10 of 15

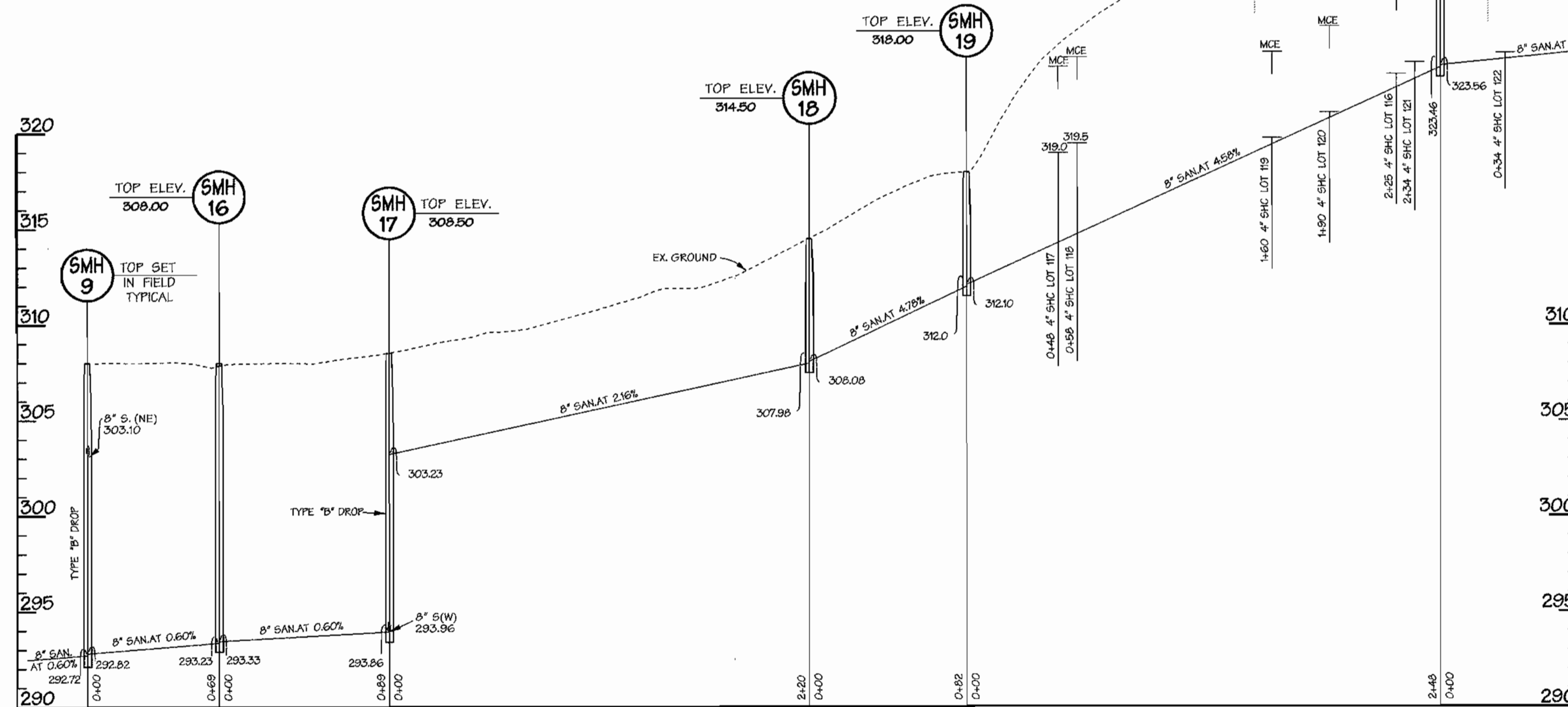
RUNNING SAND KNOLL



WOODLAND WALKS



ALONG 20' UTILITY EASEMENT



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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HOWARD S.C.D. _____ DATE _____

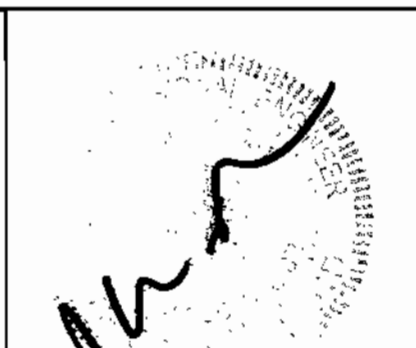
SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-137.

AS BUILT
DATE: FEB. 2003

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert S. ... 12-07-01
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
... .. 12/12/01
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, Towson, Maryland 21286
Engineers, Surveyors & 410 296 3333
Environmental Professionals Fax 296 4705

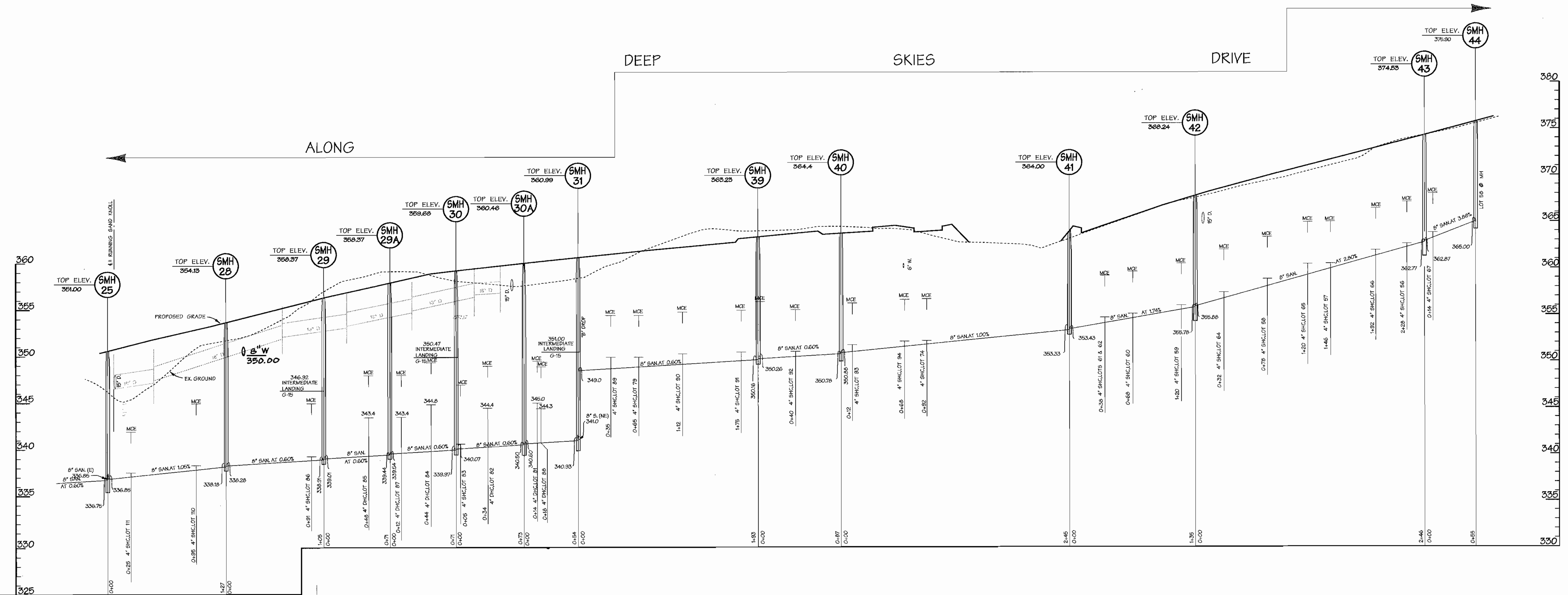


DESIGN BY:	MAT			
DRAWN BY:	KMF			
CHECKED BY:	TJR III			
DATE:	08/10/01	BY NO.	REVISION	DATE

PROPOSED 8" SEWER PROFILES
600 SCALE MAP NO. 47 BLOCK NO. 7&B

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B
TAX MAP 47 P/O PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

SCALE:
HOR: 1" = 50'
VER: 1" = 5'
SHEET
11 of 15



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

APPROVED _____ DATE _____

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AS BUILT
DATE: FEB. 2003

HOWARD S.C.D.
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

R. L. B... 12-07-01
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

[Signature] 12/10
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
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A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals
200 East Pennsylvania Avenue
Towson, Maryland 21286
410 296 3333
Fax 296 4705



DESIGN BY:	MAT
DRAWN BY:	KMF
CHECKED BY:	TJR III
DATE:	08/10/01
BY NO.	
REVISION	
DATE	

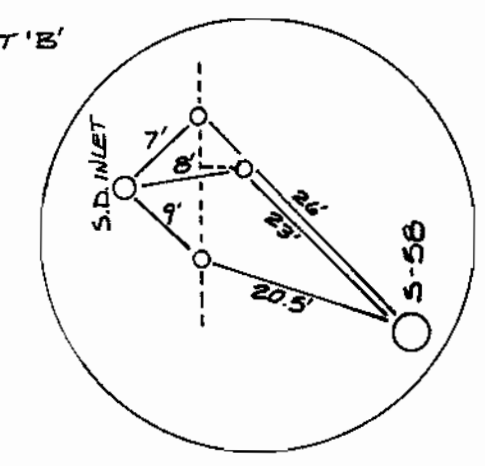
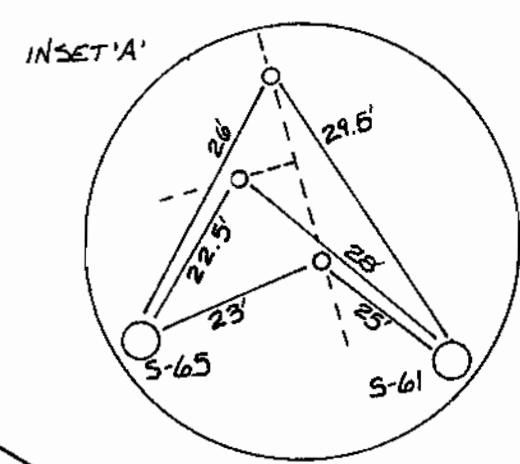
PROPOSED 8" SEWER PROFILES

600 SCALE MAP NO. 47 BLOCK NO. 78B

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B
TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

SCALE:
HOR: 1" = 50'
VER: 1" = 5'

SHEET
12 of 15



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE Jim Anguilar DATE 12/14/02

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

APPROVED John Lee DATE 12/11/01

HOWARD S.C.D. DEPARTMENT OF PLANNING & ZONING

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-157

NOTE: INSTALL ALL FIRE HYDRANTS 3' BEHIND BACK OF CURB.

AS BUILT
DATE: FEB. 2003

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

Robert W. Dammann 12-7-01 CHIEF - BUREAU OF UTILITIES - DATE

John Lee 12/11/01 CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, Towson, Maryland 21286
Engineers, Surveyors & Environmental Professionals 410 296 3333
Fax 296 4705

DESIGN BY:	MAT
DRAWN BY:	KMF
CHECKED BY:	TJR III
DATE:	08/10/01
BY NO.	KCI 1
REVISION	ASBUILT DATA
DATE	01/14/02

WATER & SEWER PLAN

600 SCALE MAP NO. 47 BLOCK NO. 78B

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B

TAX MAP 47 P/O PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

SCALE:
HOR: 1" = 50'
VER: 1" = 5'

SHEET
4 OF 15

MARYLAND & VIRGINIA
MILK PRODUCERS ASSOCIATION INC.
302/288

OPEN SPACE

GORMAN CROSSING
ELEMENTARY SCHOOL

BOARD OF EDUCATION OF HOWARD COUNTY
3570 JAS1

SEA VALLEY WAY

RAIN DRIVE

FALL RAIN DRIVE

SWIES DRIVE

DEEP DRIVE

DRIVE

OPEN SPACE
LOT 163
69,999 SF
(1.6± Ac.)

NOTE: INSTALL BALL VALVES AND SEWER CLEAN
OUTS 3 FEET FROM EDGE OF SIDEWALK.
NOTE: INSTALL ALL FIRE HYDRANTS 3' BEHIND BACK OF CURB

AS BUILT
DATE: FEB. 2003

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT
AND MEETS TECHNICAL REQUIREMENT

SIGNATURE *Jim Mingo / 16* DATE 12/1/01

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL
EROSION AND SEDIMENT CONTROL BY THE HOWARD
COUNTY CONSERVATION DISTRICT.
APPROVED *[Signature]* DATE 12/1/01

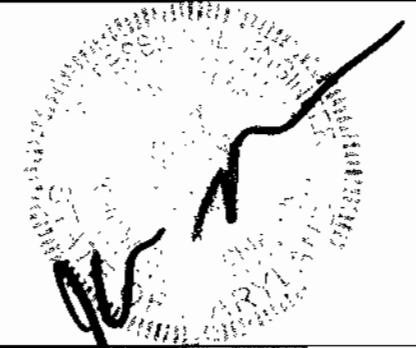
HOWARD S.C.D

SEDIMENT CONTROL MEASURES WILL
BE IMPLEMENTED IN ACCORDANCE WITH
SECTION 219 OF THE SPECIFICATIONS AND
WITH ROAD CONSTRUCTION PLANS F-01-137

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

DMW
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A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, Towson, Maryland 21286
Engineers, Surveyors & 410 296 3333
Environmental Professionals Fax 296 4705



DESIGN BY:	MAT			
DRAWN BY:	KMF			
CHECKED BY:	TJR III			
DATE:	08/10/01			
BY:	K.C.I.	NO.	ASBUILT DATA	DATE 9/16/03
REVISION:				

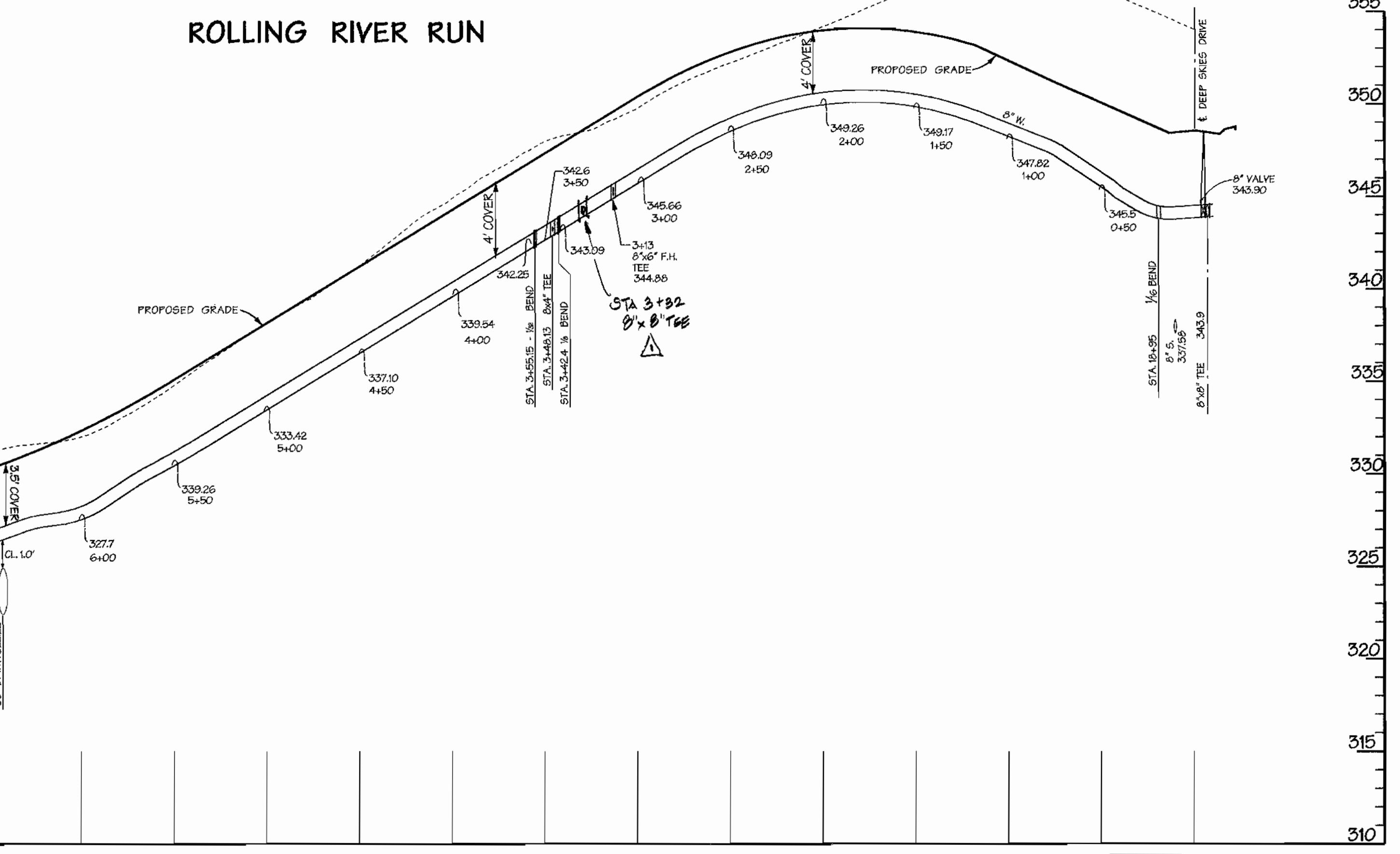
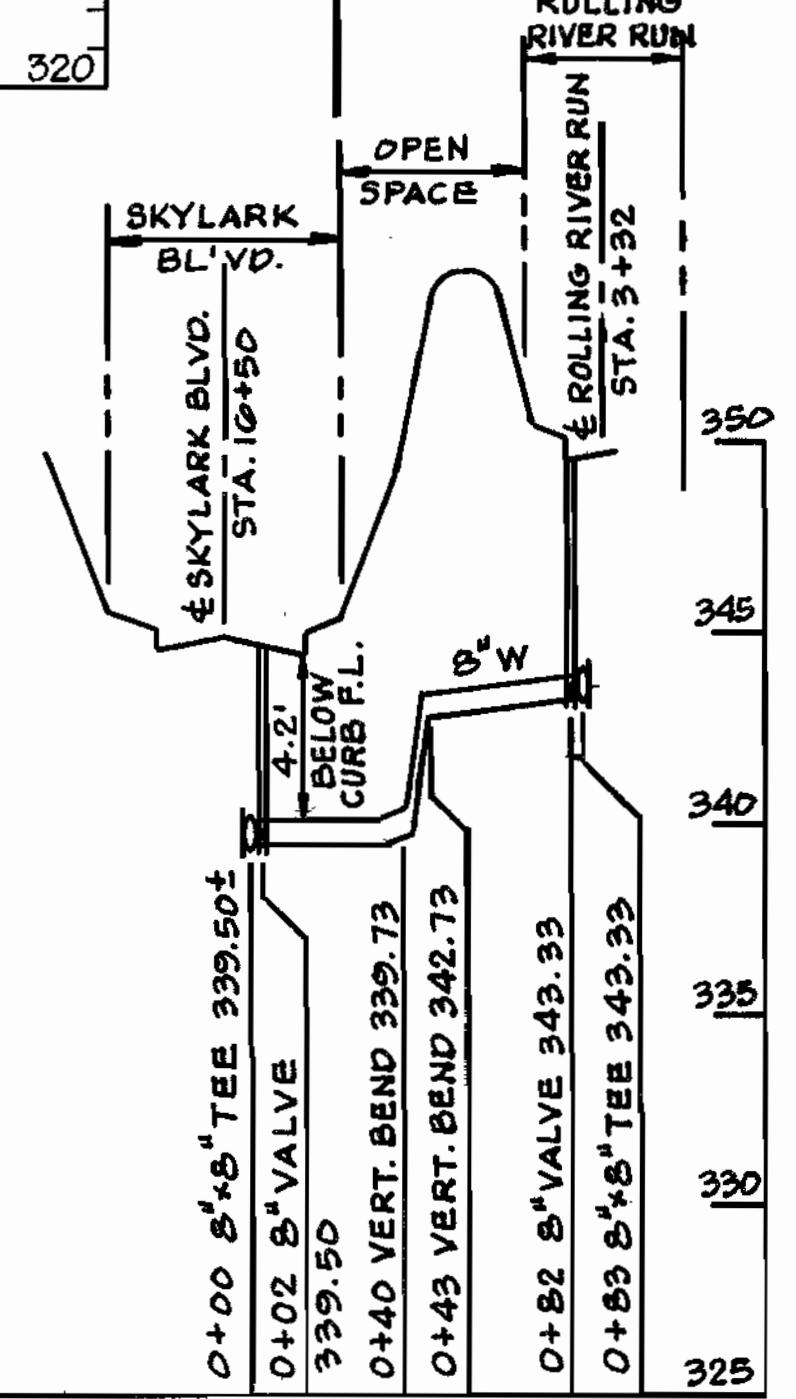
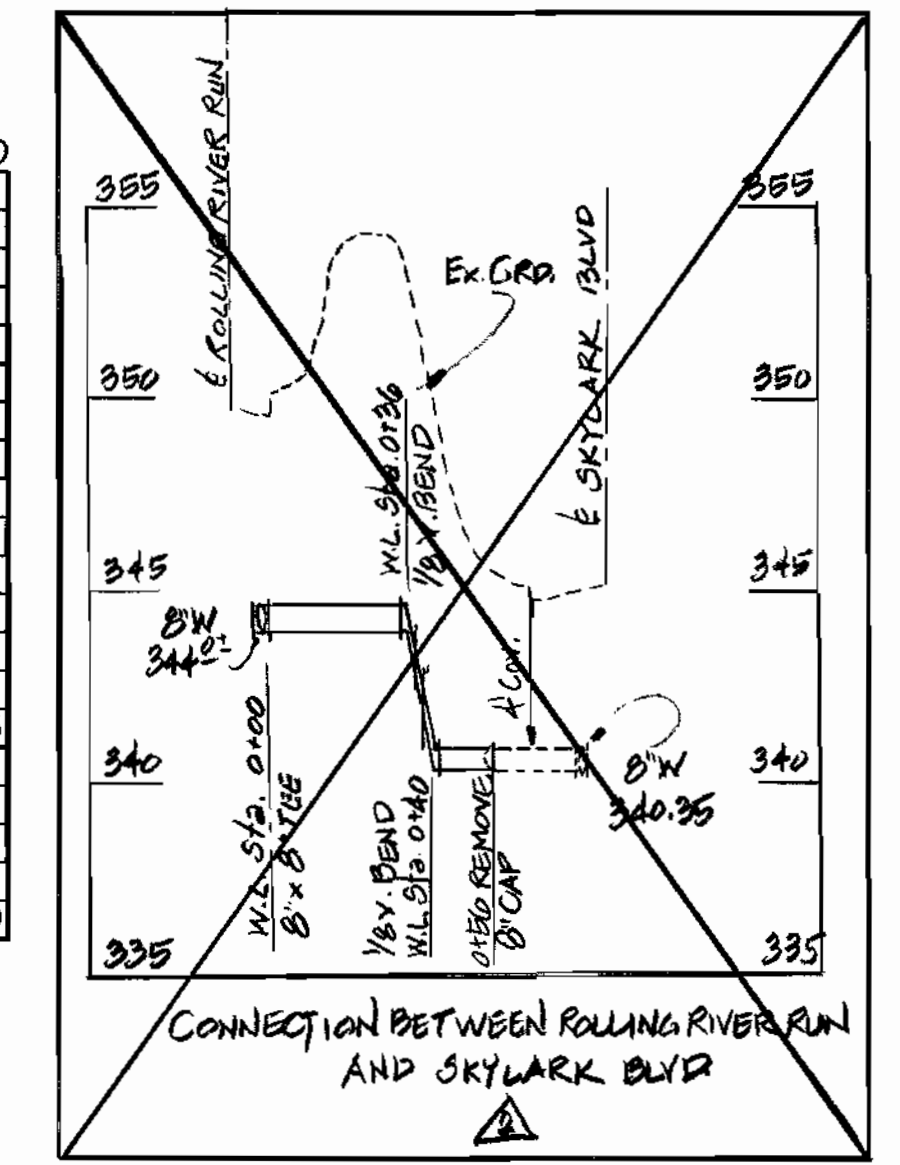
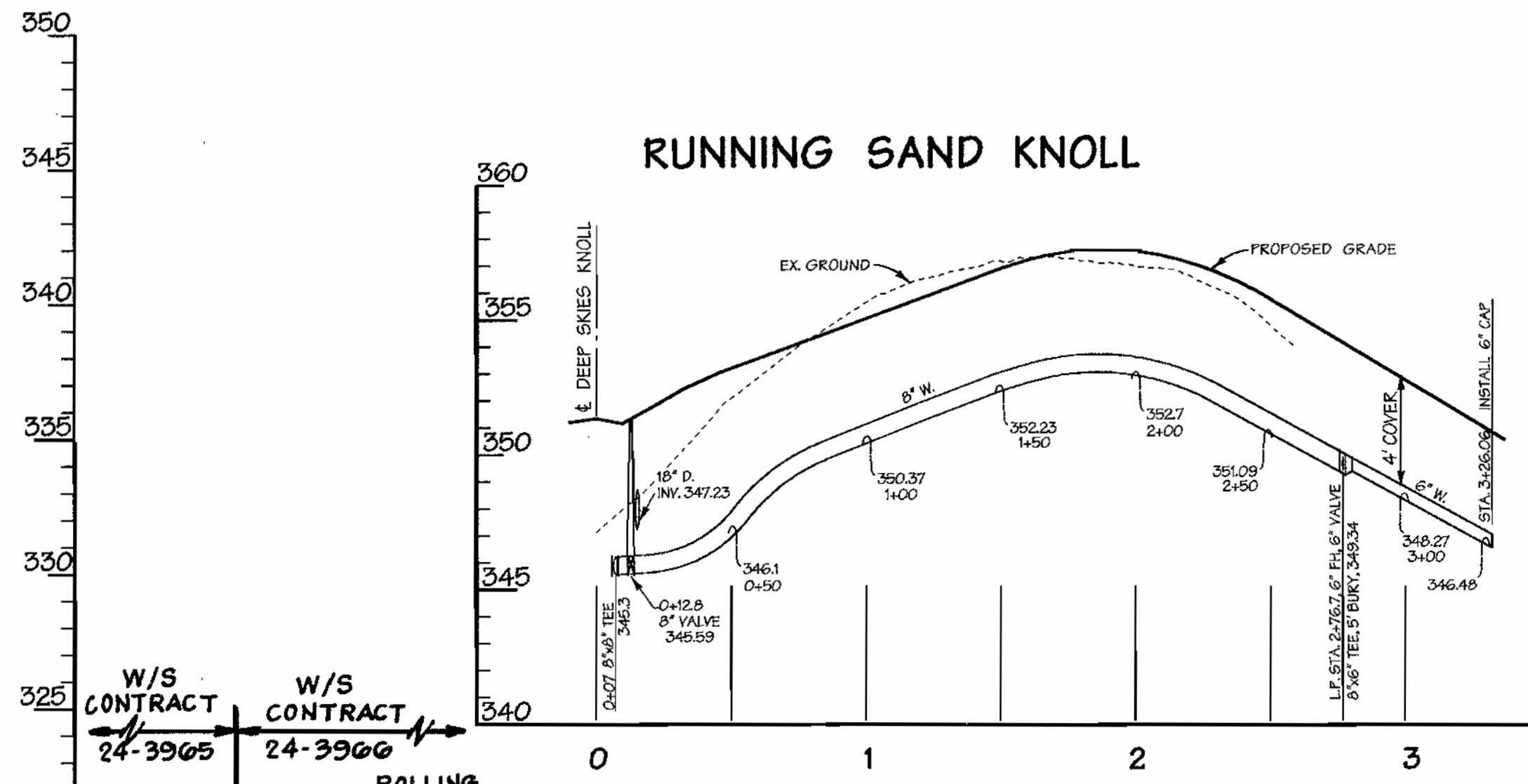
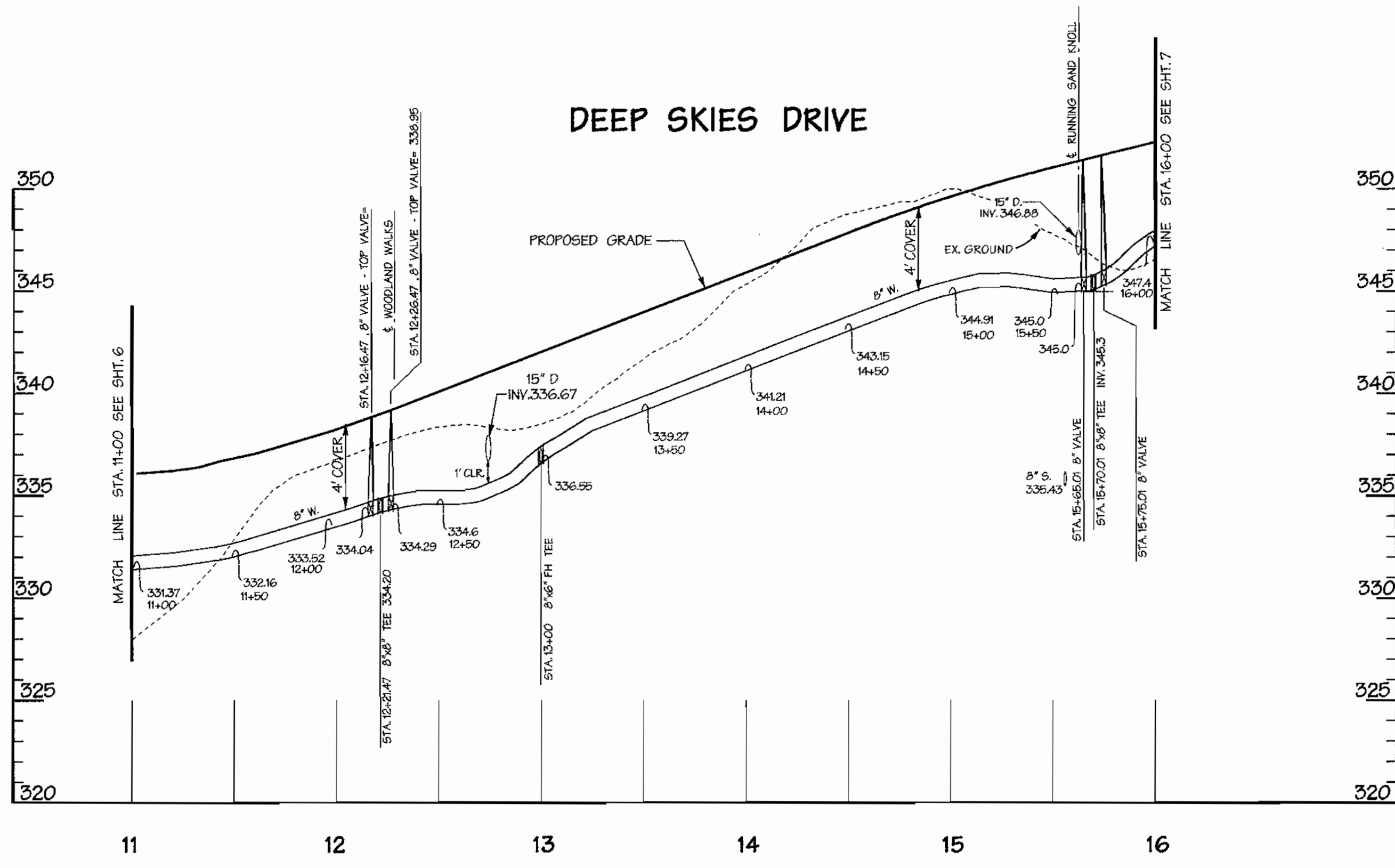
WATER & SEWER PLAN

EMERSON

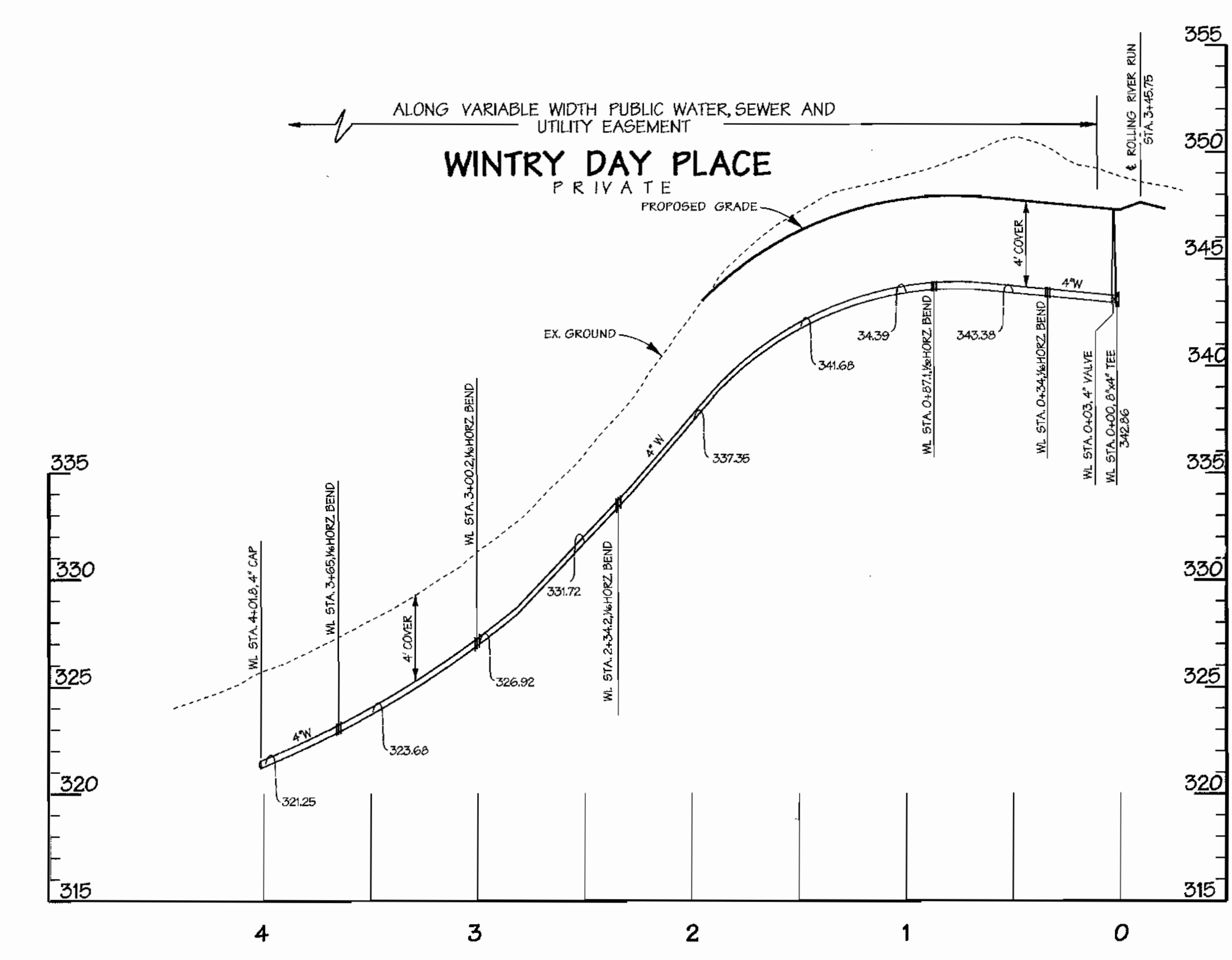
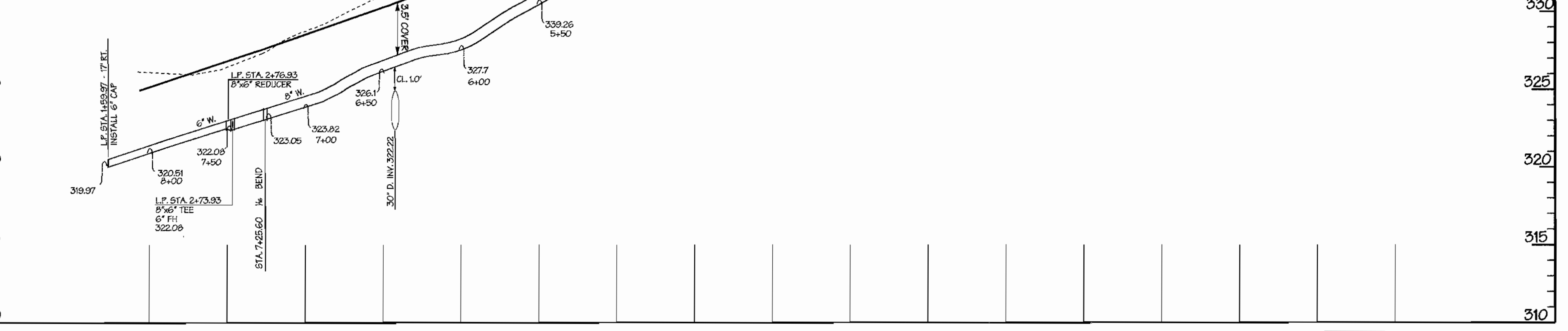
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B

TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

SCALE:
HOR.: 1" = 50'
VER.: 1" = 5'
SHEET
5 OF 15



CONNECTION BETWEEN ROLLING RIVER AND SKYLARK BLVD.
STATIONS SHOWN ARE WATER LINE STATIONS



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

HOWARD S.C.D. DATE _____

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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
John J. ... 12-7-01
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
... 12/26/01
CHIEF-DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, Towson, Maryland 21286
Engineers, Surveyors & Environmental Professionals, 410 296 3333
Fax 296 4705



DESIGN BY:	MAT
DRAWN BY:	KMF
CHECKED BY:	TJR III
DATE:	08/10/01
BY NO.	
REVISION	
DATE	
600 SCALE MAP NO.	
BLOCK NO.	

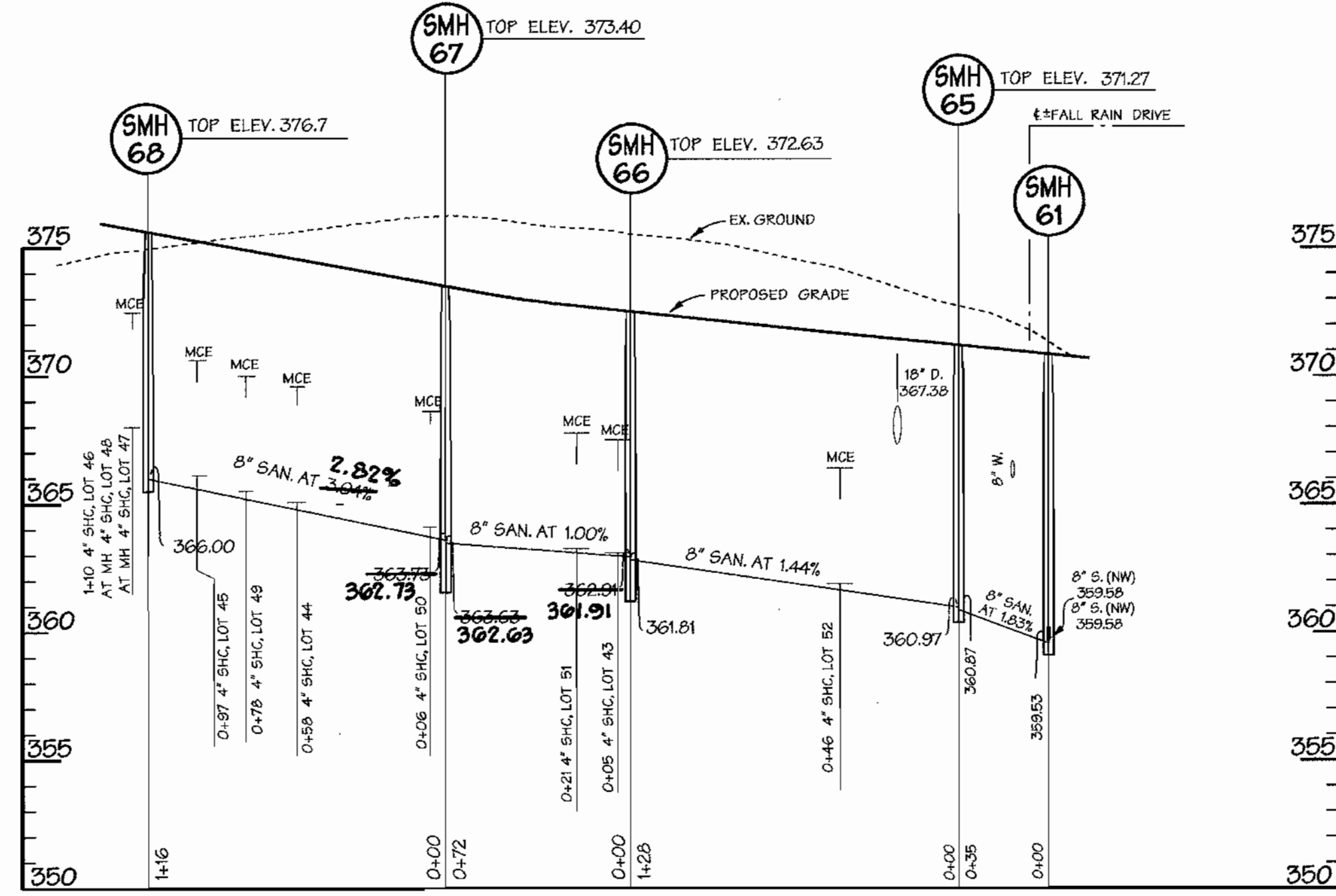
PROPOSED 8" WATER PROFILES

AS BUILT
DATE: FEB. 2003

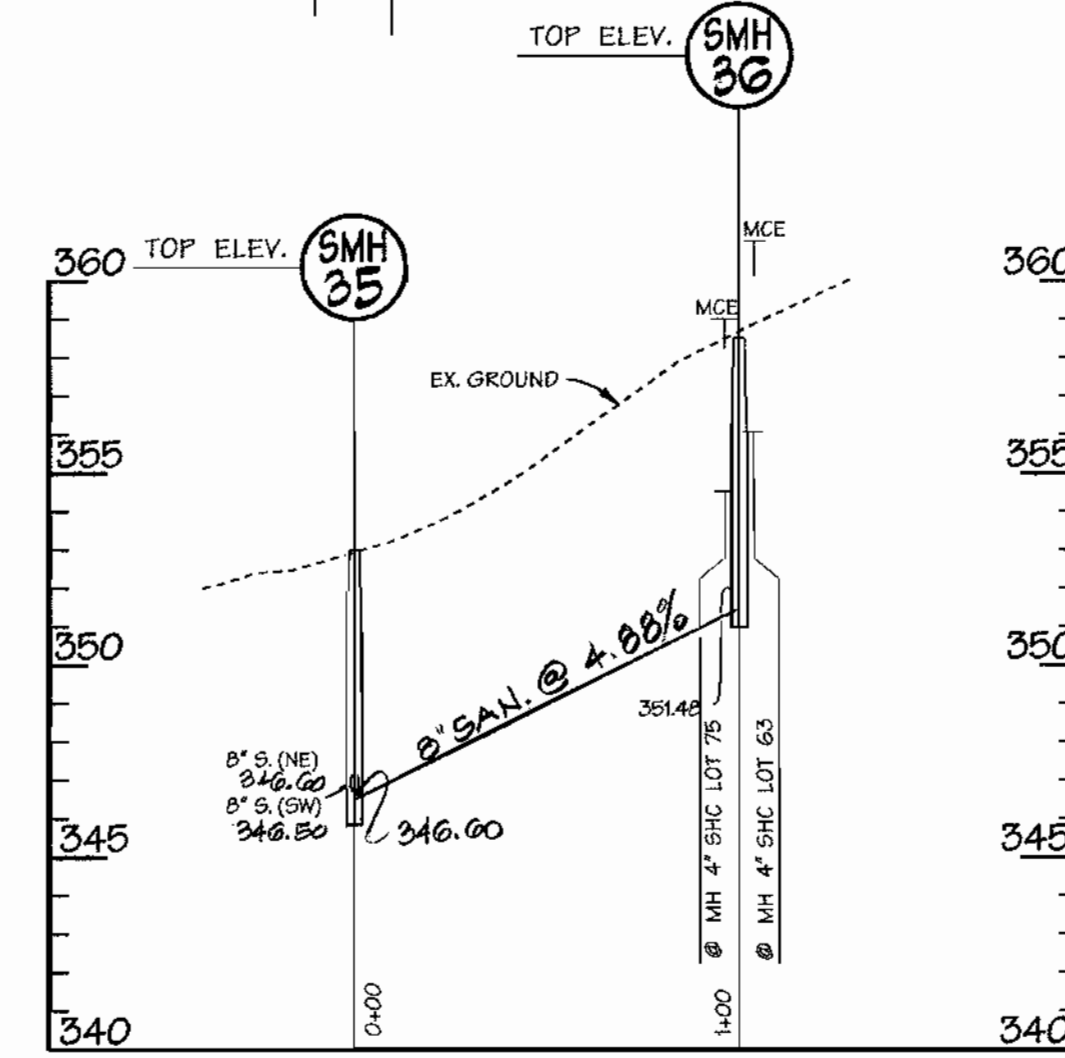
EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B
TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

SCALE:
HOR: 1" = 50'
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SHEET
8 of 15

ALONG OCEAN SAND COURT



20' UTILITY ESMT. ALONG 20' UTILITY ESMT.



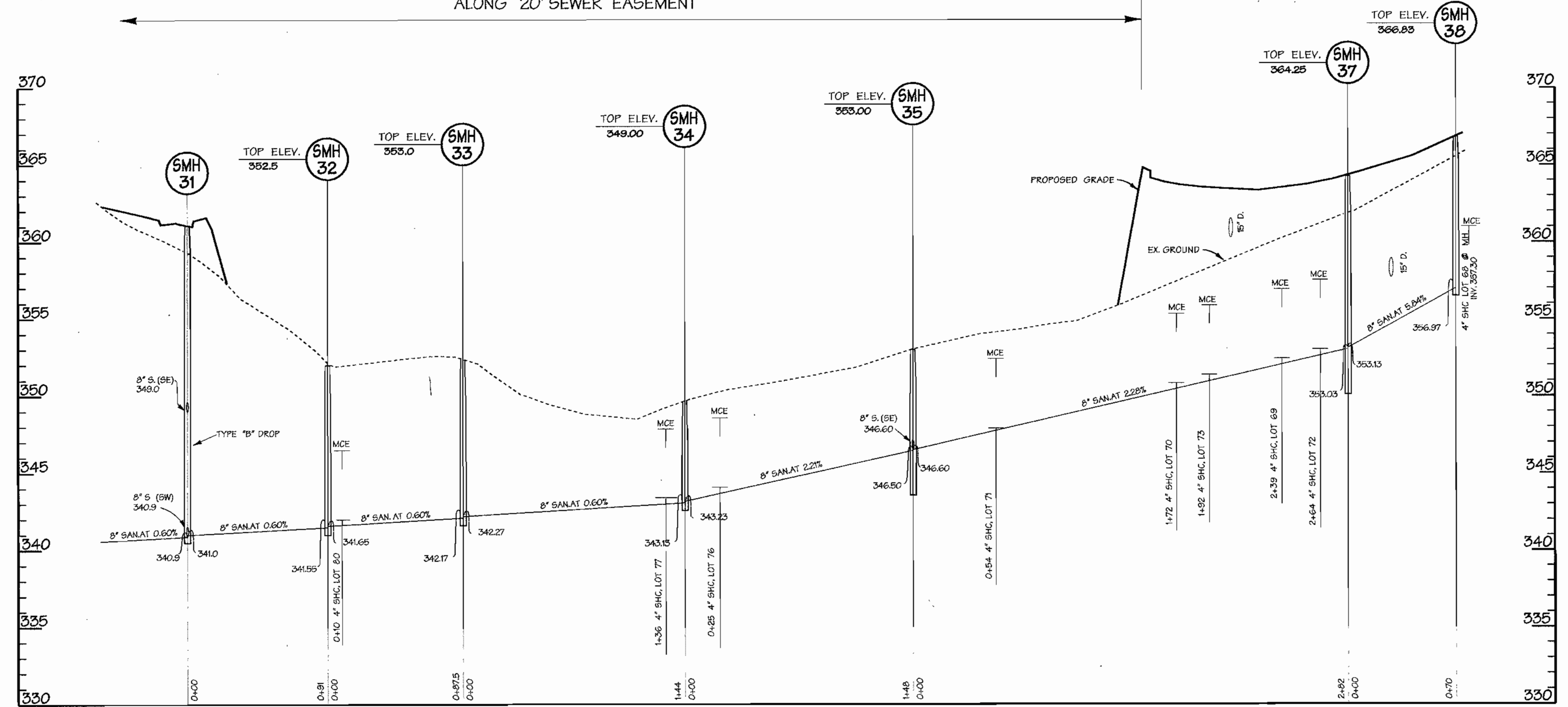
SEWER AS-BUILT DATA ALL MEASUREMENTS ARE TO 'S.H.C.'

LOT	FROM	DIST'	LOT	FROM	DIST'	LOT	FROM	DIST'	LOT	FROM	DIST'
1	S-51	38	21	S-60	66	101	F.H.	97	171	S-13	48
2	F.H.	48	22	S-70	30	102	F.H.	79	172	S-14	51
3	SAN INLET	108	23	F.H.	34	103	F.H.	74	173	S-15	120
4	S-54	138	24	S-71	51	104	F.H.	74	174	S-16	32
5	S-54	119	25	S-72	122	105	F.H.	74	175	S-17	119
6	S-54	119	26	"	"	106	F.H.	74	176	S-18	119
7	S-54	119	27	"	"	107	F.H.	74	177	S-19	119
8	S-54	119	28	"	"	108	F.H.	74	178	S-20	119
9	S-54	119	29	"	"	109	F.H.	74	179	S-21	119
10	S-54	119	30	"	"	110	F.H.	74	180	S-22	119
11	S-54	119	31	"	"	111	F.H.	74	181	S-23	119
12	S-54	119	32	"	"	112	F.H.	74	182	S-24	119
13	S-54	119	33	"	"	113	F.H.	74	183	S-25	119
14	S-54	119	34	"	"	114	F.H.	74	184	S-26	119
15	S-54	119	35	"	"	115	F.H.	74	185	S-27	119
16	S-54	119	36	"	"	116	F.H.	74	186	S-28	119
17	S-54	119	37	"	"	117	F.H.	74	187	S-29	119
18	S-54	119	38	"	"	118	F.H.	74	188	S-30	119
19	S-54	119	39	"	"	119	F.H.	74	189	S-31	119
20	S-54	119	40	"	"	120	F.H.	74	190	S-32	119
21	S-54	119	41	"	"	121	F.H.	74	191	S-33	119
22	S-54	119	42	"	"	122	F.H.	74	192	S-34	119

SEWER AS-BUILT DATA ALL MEASUREMENTS ARE TO 'S.H.C.'

LOT	FROM	DIST'	LOT	FROM	DIST'	LOT	FROM	DIST'	LOT	FROM	DIST'
1	S-51	38	21	S-60	66	101	F.H.	97	171	S-13	48
2	F.H.	48	22	S-70	30	102	F.H.	79	172	S-14	51
3	SAN INLET	108	23	F.H.	34	103	F.H.	74	173	S-15	120
4	S-54	138	24	S-71	51	104	F.H.	74	174	S-16	32
5	S-54	119	25	S-72	122	105	F.H.	74	175	S-17	119
6	S-54	119	26	"	"	106	F.H.	74	176	S-18	119
7	S-54	119	27	"	"	107	F.H.	74	177	S-19	119
8	S-54	119	28	"	"	108	F.H.	74	178	S-20	119
9	S-54	119	29	"	"	109	F.H.	74	179	S-21	119
10	S-54	119	30	"	"	110	F.H.	74	180	S-22	119
11	S-54	119	31	"	"	111	F.H.	74	181	S-23	119
12	S-54	119	32	"	"	112	F.H.	74	182	S-24	119
13	S-54	119	33	"	"	113	F.H.	74	183	S-25	119
14	S-54	119	34	"	"	114	F.H.	74	184	S-26	119
15	S-54	119	35	"	"	115	F.H.	74	185	S-27	119
16	S-54	119	36	"	"	116	F.H.	74	186	S-28	119
17	S-54	119	37	"	"	117	F.H.	74	187	S-29	119
18	S-54	119	38	"	"	118	F.H.	74	188	S-30	119
19	S-54	119	39	"	"	119	F.H.	74	189	S-31	119
20	S-54	119	40	"	"	120	F.H.	74	190	S-32	119
21	S-54	119	41	"	"	121	F.H.	74	191	S-33	119
22	S-54	119	42	"	"	122	F.H.	74	192	S-34	119

ALONG 20' SEWER EASEMENT



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

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AS BUILT DATE: FEB. 2003

HOWARD S.C.D. DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND
 12-07-01
 CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
 12/10/01
 CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
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 A Team of Land Planners, 200 East Pennsylvania Avenue, Landscaping Architects, Towson, Maryland 21286
 Engineers, Surveyors & Environmental Professionals 410 296 3333 Fax 296 4705

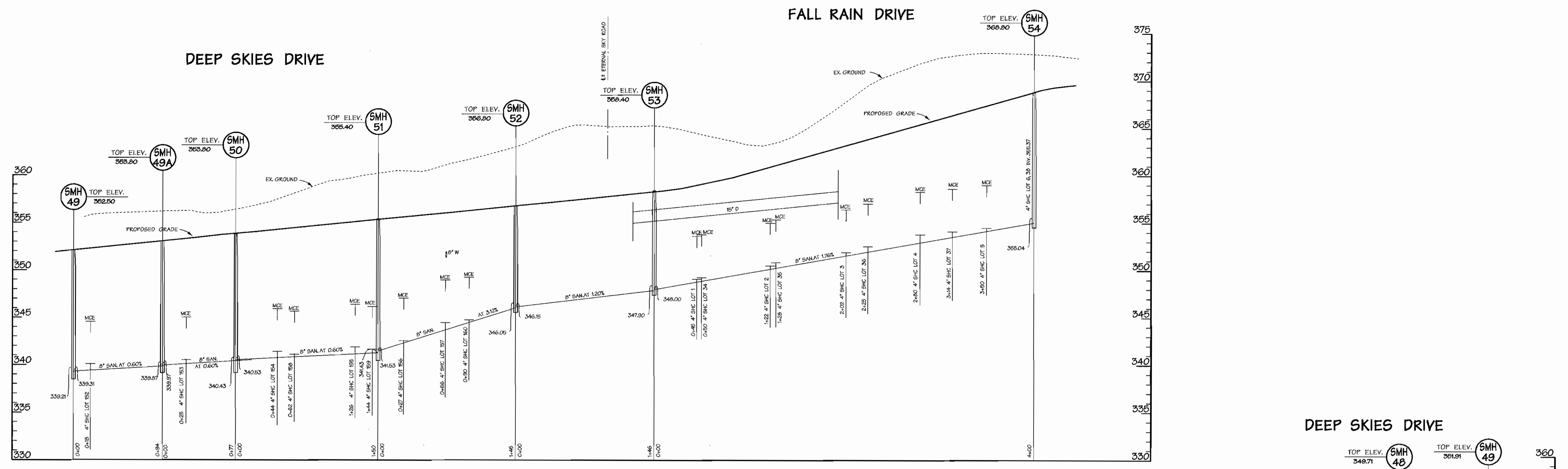
DESIGN BY: MAT
 DRAWN BY: KMF
 CHECKED BY: TJR III
 DATE: 08/01/01
 BY NO. _____
 REVISION _____
 DATE: 2/13/02
 REVISION _____

PROPOSED 8" SEWER PROFILES

600 SCALE MAP NO. 47 BLOCK NO. 7&B

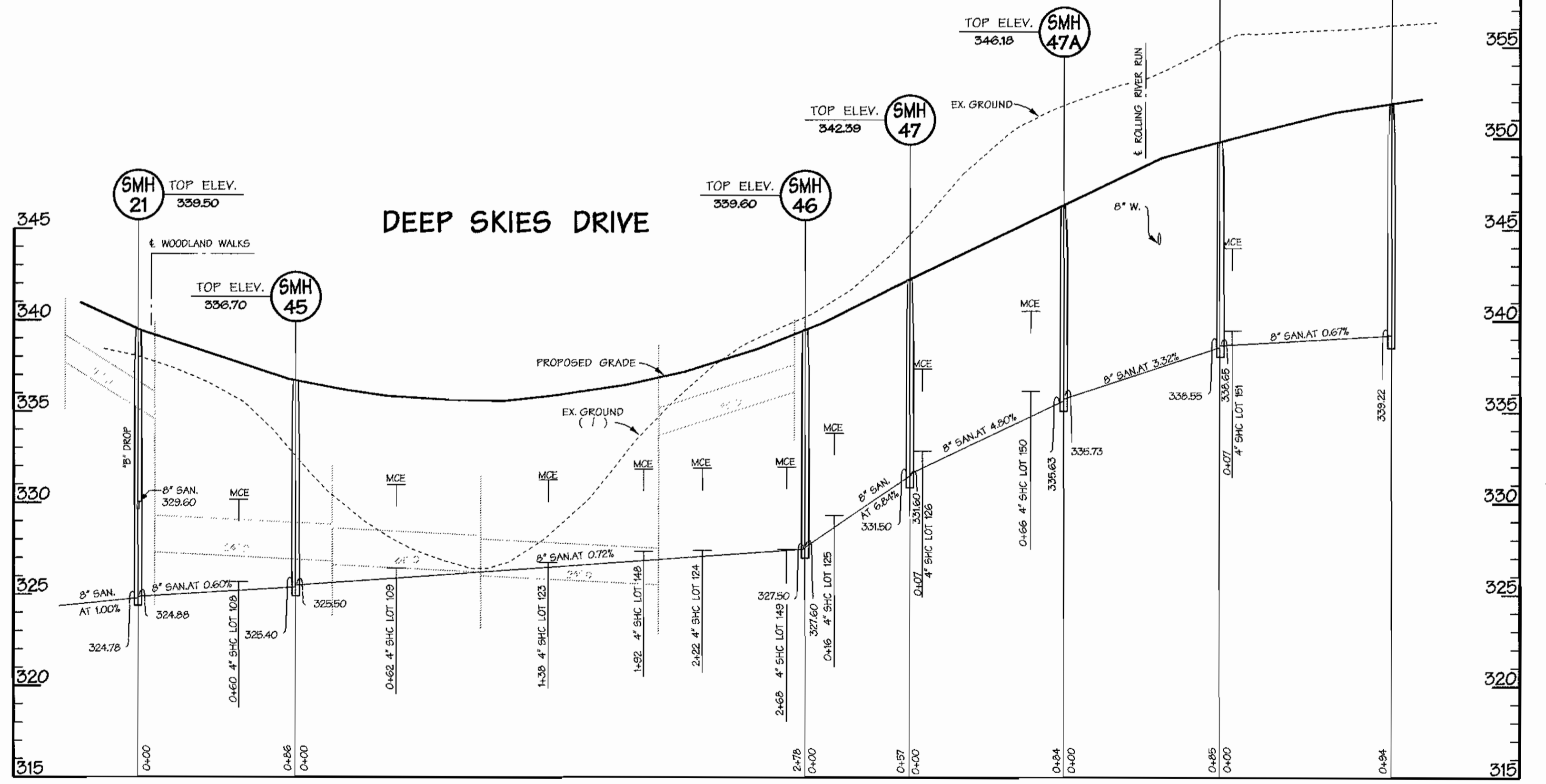
EMERSON
 FORMERLY KEY PROPERTY SECTION 2, PHASE 1-B
 TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462
 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 CONTRACT NO. 24-3966-D

SCALE: HOR: 1" = 50' VER: 1" = 5'
 SHEET 13 OF 15



"WATER ASBUILT" DATA (ALL MEASUREMENTS ARE TO W.H.C.)

LOT	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO
1	S-25	39	21	S-26	40	21	S-27	37	101	S-28	30	101	S-29	37	101	S-30	37	101	S-31	37
2	F.H.	110	22	S-20	19	42	S-41	67	82	S-31	67	102	F.H.	86	102	S-32	67	102	S-33	67
3	INLET	68	23	F.H.	22	43	S-22	61	83	S-32	61	103	F.H.	87	103	S-34	61	103	S-35	61
4	INLET	104	24	S-20	19	44	F.H.	62	84	S-33	62	104	S-34	62	104	S-36	62	104	S-37	62
5	S-24	107	25	S-21	18	45	S-23	63	85	S-34	63	105	S-35	63	105	S-38	63	105	S-39	63
6	S-24	108	26	S-22	17	46	F.H.	64	86	S-35	64	106	S-36	64	106	S-40	64	106	S-41	64
7	S-24	109	27	S-23	16	47	F.H.	65	87	S-36	65	107	S-37	65	107	S-42	65	107	S-43	65
8	S-24	110	28	S-24	15	48	F.H.	66	88	S-37	66	108	S-38	66	108	S-44	66	108	S-45	66
9	S-24	111	29	S-25	14	49	F.H.	67	89	S-38	67	109	S-39	67	109	S-46	67	109	S-47	67
10	S-24	112	30	S-26	13	50	F.H.	68	90	S-39	68	110	S-40	68	110	S-48	68	110	S-49	68
11	S-24	113	31	S-27	12	51	S-24	41	91	S-40	41	111	S-41	41	111	S-50	41	111	S-51	41
12	S-24	114	32	S-28	11	52	F.H.	42	92	S-41	42	112	S-42	42	112	S-52	42	112	S-53	42
13	S-24	115	33	S-29	10	53	F.H.	43	93	S-42	43	113	S-43	43	113	S-54	43	113	S-55	43
14	S-24	116	34	S-30	9	54	F.H.	44	94	S-43	44	114	S-44	44	114	S-56	44	114	S-57	44
15	S-24	117	35	S-31	8	55	F.H.	45	95	S-44	45	115	S-45	45	115	S-58	45	115	S-59	45
16	S-24	118	36	S-32	7	56	F.H.	46	96	S-45	46	116	S-46	46	116	S-60	46	116	S-61	46
17	S-24	119	37	S-33	6	57	F.H.	47	97	S-46	47	117	S-47	47	117	S-62	47	117	S-63	47
18	S-24	120	38	S-34	5	58	F.H.	48	98	S-47	48	118	S-48	48	118	S-64	48	118	S-65	48
19	F.H.	62	39	S-35	4	59	F.H.	49	99	S-48	49	119	S-49	49	119	S-66	49	119	S-67	49
20	F.H.	62	40	S-36	3	60	F.H.	50	100	S-49	50	120	S-50	50	120	S-68	50	120	S-69	50
21	F.H.	62	41	S-37	2	61	F.H.	51	101	S-50	51	121	S-51	51	121	S-70	51	121	S-71	51
22	F.H.	62	42	S-38	1	62	F.H.	52	102	S-51	52	122	S-52	52	122	S-72	52	122	S-73	52



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

HOWARD S.C.D. _____ DATE _____

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-137.

AS BUILT
DATE: FEB. 2003

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, 200 East Pennsylvania Avenue, Towson, Maryland 21286
Engineers, Surveyors & Environmental Professionals
410 296 3333
Fax 296 4705

DESIGN BY:	MAT		
DRAWN BY:	KMF		
CHECKED BY:	TJR III		
DATE:	08/10/01	BY NO.	
REVISION		DATE	

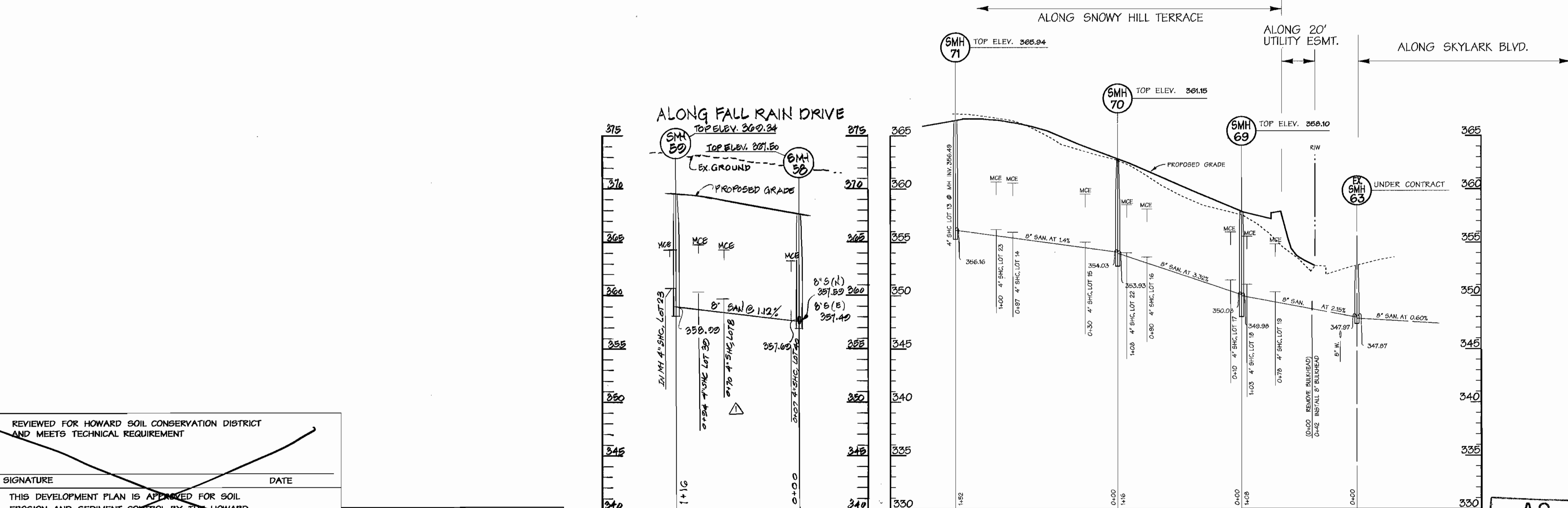
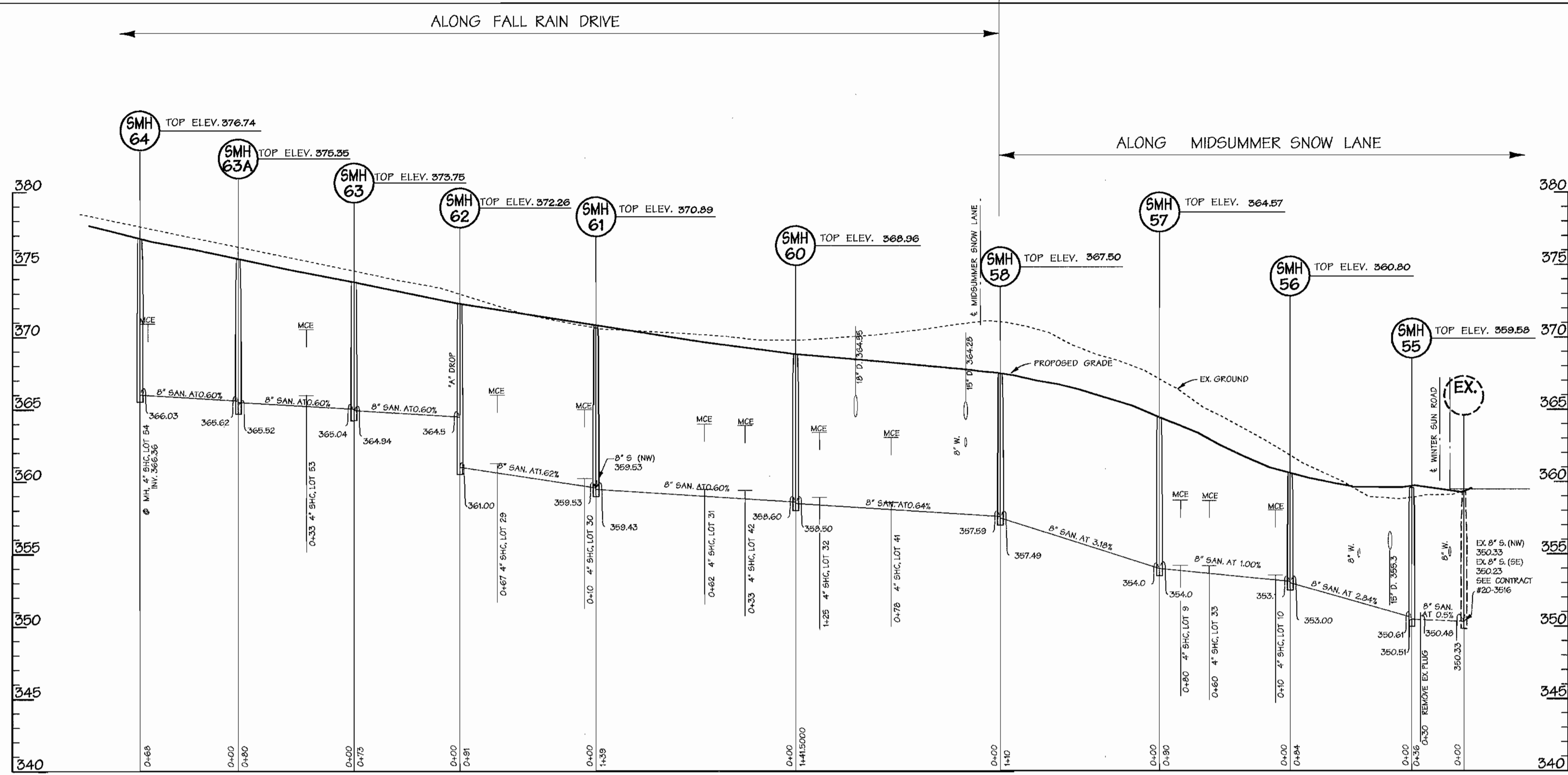
PROPOSED 8" SEWER PROFILES
600 SCALE MAP NO. 47 BLOCK NO. 78B

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B
TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

SCALE:
HOR: 1" = 50'
VER: 1" = 5'

SHEET
14 of 15

Rev. Dec. 4 12:38:55 2001m:\95054\95054.dwg



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

HOWARD S.C.D. DATE _____

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-137.

AS BUILT
DATE: FEB. 2003

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Ruth... 12-7-01
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

... 12/26/01
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, Towson, Maryland 21286
Engineers, Surveyors & Environmental Professionals 410 296 3333
Fax 296 4705

DESIGN BY:	MAT		
DRAWN BY:	KMF		
CHECKED BY:	TJR III		
DATE:	08/01/01		
BY:	DMW	NO.	
REVISION:	ADDED PROFILE	DATE:	9/15/02

PROPOSED 8" SEWER PROFILES

600 SCALE MAP NO. 47 BLOCK NO. 7&B

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B
TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

SCALE:
HOR.: 1" = 50'
VER.: 1" = 5'

SHEET
15 of 15

GENERAL NOTES

PART I

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES (NORTH AMERICAN DATUM OF 1983 (NAD 83)).
- ALL VERTICAL CONTROLS ARE BASED ON U.S.S.D.A.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6" CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAIL FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

STATE HIGHWAY ADMINISTRATION	1-410-531-5633
BGA&E CO. CONTRACTOR SERVICES	1-410-950-4620
BGA&E CO. UNDER GROUND DAMAGE CONTROL	1-410-787-9069
MISS UTILITY	1-800-251-7777
COLONIAL PIPELINE CO.	1-410-795-1390
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF UTILITIES	1-410-313-4300

- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS, AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.14(A) OF THE HOWARD COUNTY CODE.

PART II - WATER

- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TREES SHALL BE STRAPPED TO TREES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
- SPEINKLER SYSTEM FOR ALL TOWNHOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1" CONNECTION WITH A 3/4" METER.
- TWIN WATER HOUSE CONNECTION SHALL BE AS PER HOWARD COUNTY STANDARD DETAIL W3.23.

PART III - SEWER

- ALL SEWER MAINS SHALL BE DIP AND P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS, STANDARD DETAIL 05.52. WHERE WATER-TIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

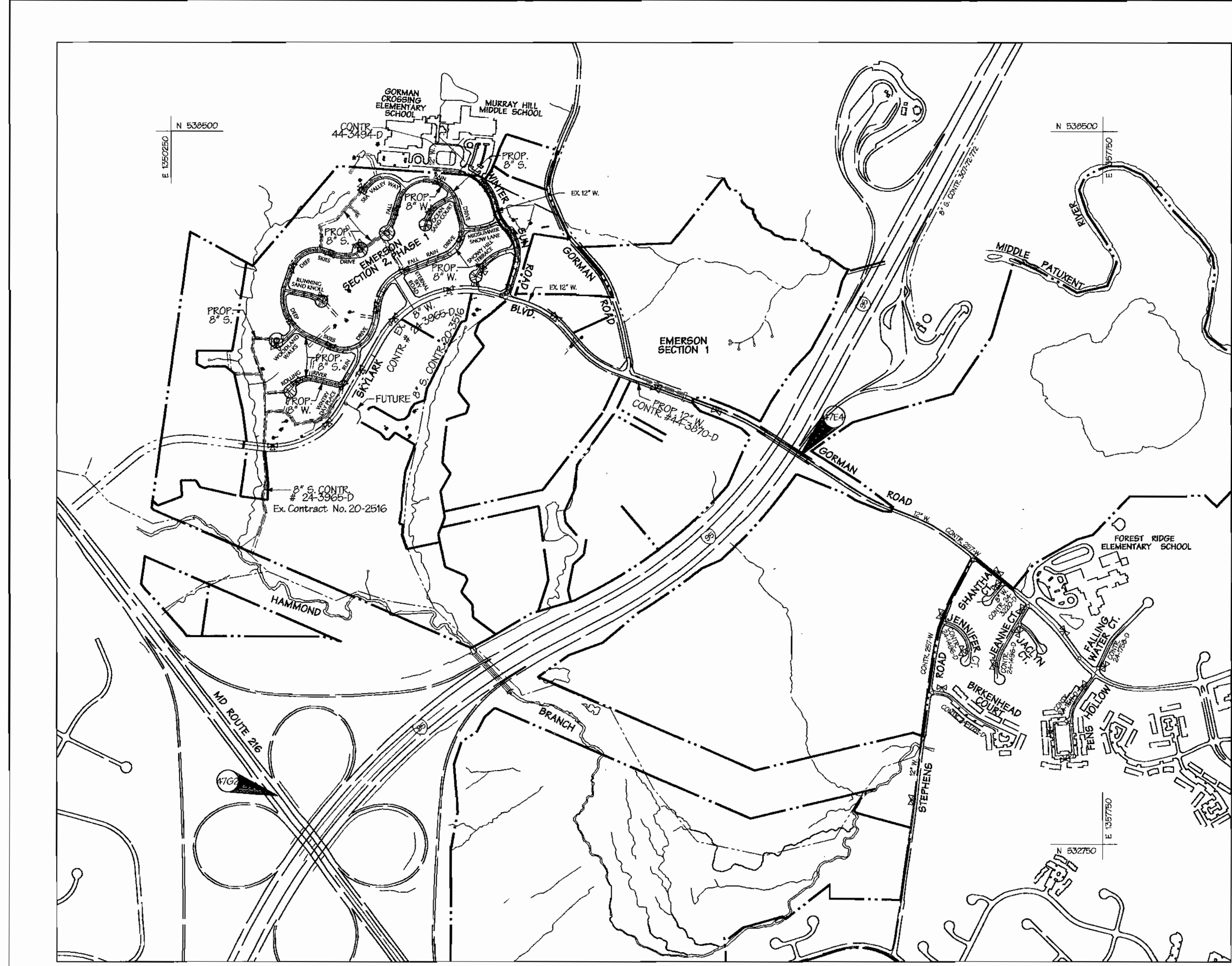
EMERSON WATER AND SEWER

SECTION 2, PHASE 1-B

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

CONTRACT NO. 24-3966-D

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	WATER & SEWER PLAN
3	WATER & SEWER PLAN
4	WATER & SEWER PLAN
5	WATER & SEWER PLAN
6	8" WATER PROFILES
7	8" WATER PROFILES
8	8" WATER PROFILES
9	8" WATER PROFILES
10	8" SEWER PROFILES
11	8" SEWER PROFILES
12	8" SEWER PROFILES
13	8" SEWER PROFILES
14	8" SEWER PROFILES
15	8" SEWER PROFILES



QUANTITIES				
ITEM	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
4" P.V.C. SEWER	7360'	7400'	SDR 35	NATIONAL PIPE & PLASTICS
8" P.V.C. SEWER	9068'	9068'	SDR 35	" " "
8" D.I.P. SEWER	285'	215'	CL 52	GRIFIN PIPE PROD.
8" D.I.P. WATER	72'	72'	PRECAST	ATLANTIC CONCRETE PROD.
TYPE "B" DROP MH	3	3		" " "
MANHOLES	70			
AIR RELEASE MH				
4" D.I.P. WATER	415'	415'	CL 52	GRIFIN PIPE PROD.
8" D.I.P. WATER	730'	730'	CL 52	" " "
8" D.I.P. WATER	7860'	8091'	CL 52	" " "
8" VALVE	21	17	R.S.O.R. GATE	MUELLER CO.
8" VALVE	27	26	R.S.O.R. GATE	" " "
3/4" WHC				
1" WHC	5440'	5400'	TYPE "K"	READING & TOBE CO.
FIRE HYDRANT	21	17	5' D"	MUELLER CO.
8" x 8" CROSS				
8" x 8" TEE	6	7	M.J.	U.S. PIPE & FOUNDRY
8" x 6" TEE	21	17	M.J.	" " "
8" VALVE				
8" VALVE				
8" CAP & BUT.	6	2	M.J.	U.S. PIPE & FOUNDRY
6" CAP & BUT.		4	M.J.	" " "
4" CAP & BUT.	1	1	M.J.	" " "
8" x 6" RED.		4	M.J.	" " "
8" x 4" RED.				
EX. WHC	5	5		
EX. SHC	9	9		
METER VAULT	3	3		
4" VALVE	1	1	R.S.O.R. GATE	MUELLER CO.

NAME OF UTILITY CONTRACTOR: C.C.S. INC.
SURVEY AND DRAFTING DIVISION AS-BUILT DATE: _____

8" x 4" TEE	1	M.J.	U.S. PIPE & FOUNDRY
-------------	---	------	---------------------

BENCHMARK

DESCRIPTION

COORDINATES IN MARYLAND NAD83(91) (HORIZONTAL) AND NGVD29 (VERTICAL) DATUMS.

47E4 NORTHING: 163326.2295
EASTING: 413156.2550
ELEVATION: 338.9094.

47G2 NORTHING: 162440.1212
EASTING: 418539279
ELEVATION: 364.2104.

VICINITY MAP

SCALE: 1"=600'

TYPE OF BUILDING:	SINGLE FAMILY
NO. EXISTING WATER HOUSE CONNECTIONS:	5
NO. EXISTING SEWER HOUSE CONNECTIONS:	3
NO. OF LOTS / PARCELS:	150
NO. OF WATER HOUSE CONNECTIONS:	150
NO. OF SEWER HOUSE CONNECTIONS:	151
DRAINAGE AREA:	LITTLE PATWENTY
TREATMENT PLANT:	LITTLE PATWENTY WATER QUALITY MANAGEMENT CENTER-SAVAGE HOWARD COUNTY

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-137

REVIEWED FOR SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE: *[Signature]* / *[Signature]* DATE: 12/14/01

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

APPROVED: *[Signature]* DATE: 12/14/01

HOWARD S.C.E.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

12-7-01
CHIEF - BUREAU OF UTILITIES - DATE

12/14/01
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Daft-McCune-Walker, Inc.

A Team of Land Planners,
Landscape Architects,
Golf Course Architects,
Engineers, Surveyors &
Environmental Professionals

200 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 296-3333
Fax: 296-4705

DESIGN BY:	MAT		
DRAWN BY:	KMF		
CHECKED BY:	TJR		
DATE:	08-10-01		
BY:	NO.	REVISION	DATE
		REV. B'D.I.P. QUANTITY	2/5/03
		ASBUILT DATA	9/14/03

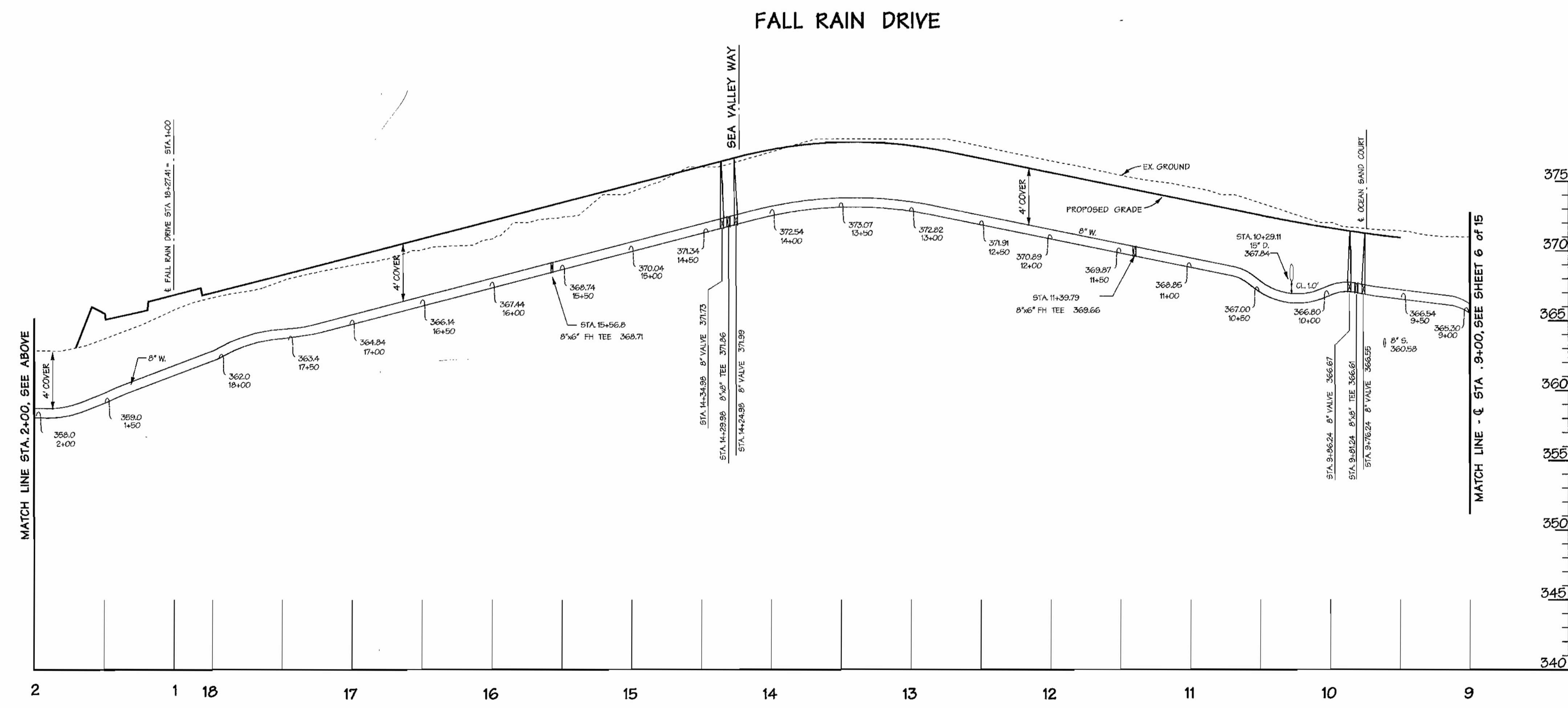
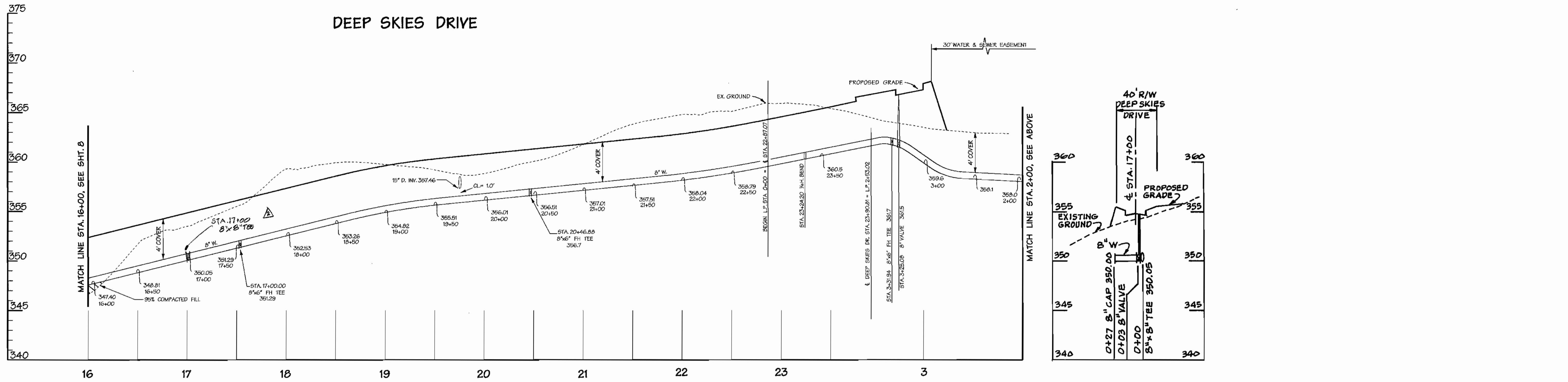
PROPOSED WATER & SEWER TITLE SHEET

600 SCALE MAP NO. 47 BLOCK NO. 7&8

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B

TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

SCALE: AS SHOWN
SHEET 1 of 15



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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HOWARD S.C.D. DATE _____

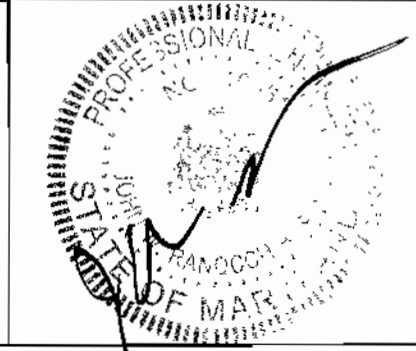
SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-137.

AS BUILT
DATE: FEB. 2003

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert J. ... 12-7-01
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
... 12/7/01
CHIEF-DEVELOPMT ENGINEERING DIVISION - DATE

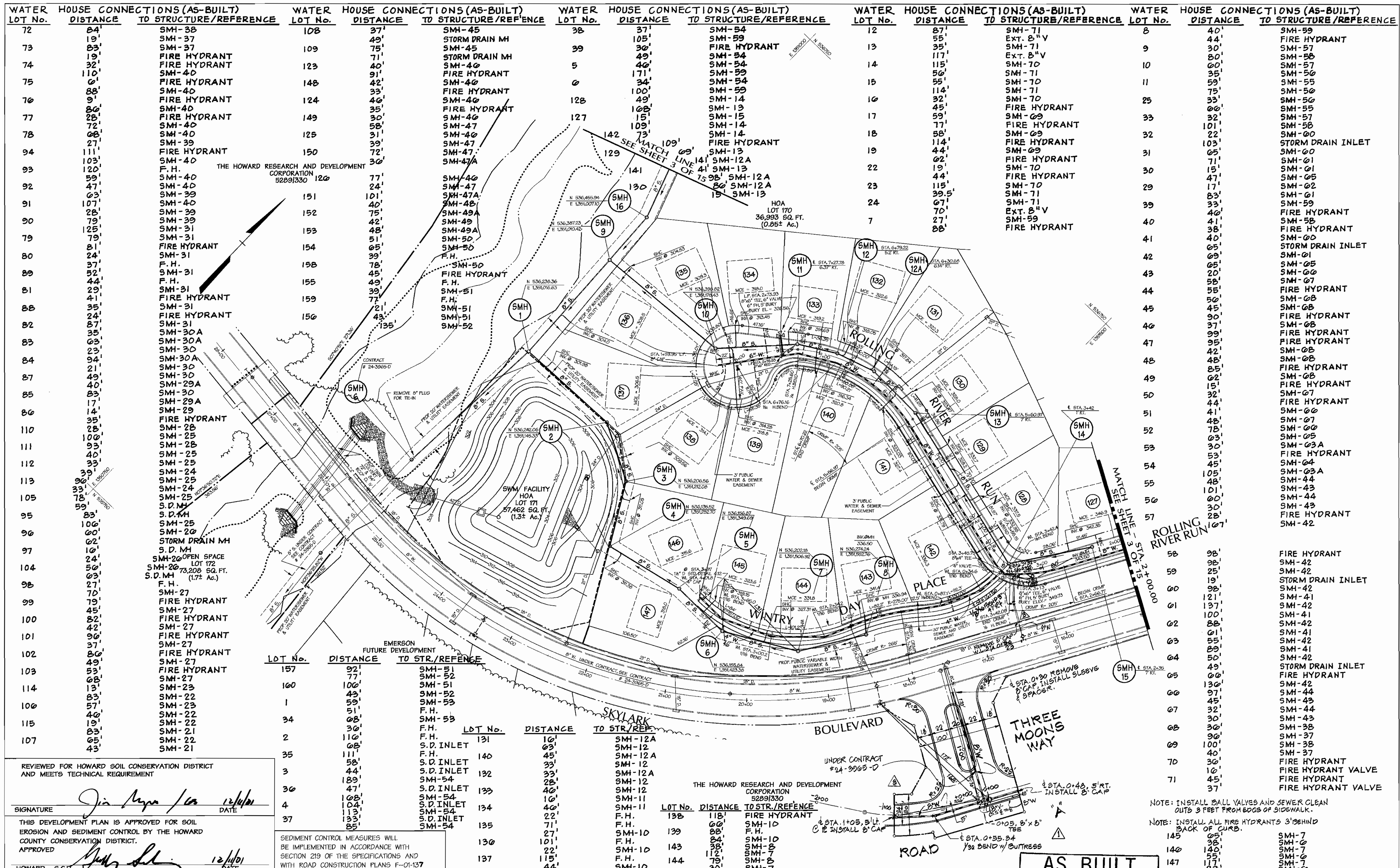
DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals
200 East Pennsylvania Avenue
1 Towson, Maryland 21286
410 296 3333
Fax 296 4705



DESIGN BY:	MAT		
DRAWN BY:	KMF		
CHECKED BY:	DMW	ADDED 8" x 8" TEE @ STA 17+00	2/5/03
DATE:	TJR III	REMOVE WATER PROFILES THREE MAIN WY & RD A	
DATE:	DMW	ADD WATER PROFILES THREE MAIN WY & RD A	3/6/03
BY:	NO.	REVISION	DATE

PROPOSED 8" WATER PROFILES
600 SCALE MAP NO. _____ BLOCK NO. _____

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B
TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D
SCALE: HOR: 1" = 50' VER: 1" = 5'
SHEET 7 of 15



WATER LOT No.	HOUSE CONNECTIONS (AS-BUILT) DISTANCE TO STRUCTURE/REFERENCE
72	SMH-38
73	SMH-37
74	SMH-37
75	FIRE HYDRANT
76	SMH-40
77	SMH-40
78	SMH-40
79	SMH-39
80	SMH-40
81	SMH-39
82	SMH-30A
83	SMH-30
84	SMH-30
85	SMH-29A
86	SMH-30
87	SMH-29A
88	SMH-29
89	SMH-28
90	SMH-25
91	SMH-25
92	SMH-25
93	SMH-24
94	SMH-25
95	SMH-24
96	SMH-25
97	SMH-24
98	SMH-25
99	SMH-24
100	SMH-25
101	SMH-24
102	SMH-25
103	SMH-24
104	SMH-25
105	SMH-24
106	SMH-25
107	SMH-24

WATER LOT No.	HOUSE CONNECTIONS (AS-BUILT) DISTANCE TO STRUCTURE/REFERENCE
108	SMH-45
109	SMH-45
123	SMH-40
148	SMH-40
124	SMH-40
149	SMH-47
125	SMH-40
150	SMH-47
151	SMH-40
152	SMH-49A
153	SMH-49A
154	SMH-50
158	SMH-50
155	SMH-51
159	SMH-51
156	SMH-52

WATER LOT No.	HOUSE CONNECTIONS (AS-BUILT) DISTANCE TO STRUCTURE/REFERENCE
38	SMH-54
39	SMH-59
5	SMH-54
6	SMH-54
128	SMH-14
127	SMH-15
129	SMH-13
141	SMH-12A
142	SMH-12A
143	SMH-13

WATER LOT No.	HOUSE CONNECTIONS (AS-BUILT) DISTANCE TO STRUCTURE/REFERENCE
12	SMH-71
13	SMH-71
14	SMH-70
15	SMH-71
16	SMH-70
17	SMH-69
18	SMH-69
19	SMH-69
22	SMH-70
23	SMH-70
24	SMH-71
7	SMH-71

WATER LOT No.	HOUSE CONNECTIONS (AS-BUILT) DISTANCE TO STRUCTURE/REFERENCE
8	SMH-59
9	SMH-57
10	SMH-56
11	SMH-55
25	SMH-50
33	SMH-50
32	SMH-57
31	SMH-50
30	SMH-51
29	SMH-50
39	SMH-59
40	SMH-58
41	SMH-50
42	SMH-51
43	SMH-50
44	SMH-50
45	SMH-50
46	SMH-50
47	SMH-50
48	SMH-50
49	SMH-50
50	SMH-50
51	SMH-50
52	SMH-50
53	SMH-50
54	SMH-50
55	SMH-50
56	SMH-50
57	SMH-50
58	SMH-42
59	SMH-42
60	SMH-42
61	SMH-41
62	SMH-42
63	SMH-41
64	SMH-42
65	SMH-41
66	SMH-42
67	SMH-43
68	SMH-38
69	SMH-37
70	SMH-38
71	SMH-37

LOT No.	DISTANCE	TO STR./REF/ENCE
157	92'	SMH-51
158	77'	SMH-52
160	100'	SMH-51
1	42'	SMH-52
106	59'	SMH-53
115	51'	F.H.
2	36'	SMH-53
111	110'	F.H.
3	10'	S.D. INLET
3	45'	S.D. INLET
3	58'	S.D. INLET
3	44'	S.D. INLET
3	189'	S.D. INLET
30	47'	S.D. INLET
4	108'	SMH-54
4	104'	SMH-54
4	113'	SMH-54
4	131'	SMH-54
37	104'	SMH-54
37	113'	SMH-54
37	85'	SMH-54

LOT No.	DISTANCE	TO STR./REF/ENCE
131	10'	SMH-12A
140	63'	SMH-12
140	45'	SMH-12A
140	33'	SMH-12
140	33'	SMH-12A
132	33'	SMH-12
132	28'	SMH-12
133	40'	SMH-12
133	10'	SMH-11
134	40'	S.D. INLET
134	22'	SMH-11
135	71'	F.H.
135	27'	SMH-10
135	101'	F.H.
135	22'	SMH-10
137	115'	F.H.
137	44'	SMH-10

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE: *Jia Ngpa / cs* DATE: 12/1/01

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT. APPROVED: *[Signature]* DATE: 12/1/01

HOWARD S.C.D. DATE: 12/1/01

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND
R. H. Brannon 12-7-01
 CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
[Signature] 12/1/01
 CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
 Daft · McCune · Walker, Inc.
 A Team of Land Planners, 200 East Pennsylvania Avenue, Towson, Maryland 21286
 Telephone: 410-296-3333
 Fax: 410-296-4705



DESIGN BY:	DATE:	REVISION	DATE
MAT	08/10/01		
DRAWN BY:	DMW	ADD WATER LINE FROM ROLLING RIVER RUN TO SKYLARK BL. 2/5/02	2/5/02
CHECKED BY:	KMF	SHOW THREE MOONS WAY, RD. A WATER CONTRACT 24-3966-D	2/5/02
	KCI	AS BUILT DATA	03/06/02
	DMW	THREE MOONS WAY, RD. A WATER	3/6/02

AS BUILT
 DATE: FEB. 2003

NOTE: INSTALL BALL VALVES AND SEWER CLEAN OUTS 3 FEET FROM EDGE OF SIDEWALK.

NOTE: INSTALL ALL FIRE HYDRANTS 3' BEHIND BACK OF CURB.

LOT No.	DISTANCE	TO STR./REF/ENCE
145	65'	SMH-7
146	140'	SMH-7
147	151'	SMH-7
147	123'	SMH-6

EMERSON
 FORMERLY KEY PROPERTY
 SECTION 2, PHASE 1-B
 TAX MAP 47 P/O PARCEL P. 837, P. 3, P. 462
 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 CONTRACT NO. 24-3966-D
 SCALE: HOR: 1"= 50' VER: 1"= 5'
 SHEET 2 OF 15



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE *Jim Ryan* / 12/16/01 DATE

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

HOWARD S.C.D. *John S. ...* / 12/16/01 DATE

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-01-137

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
John S. ... / 12-2-01
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
John S. ... / 12/16/01
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, Towson, Maryland 21286
Engineers, Surveyors & Environmental Professionals, 410 236 3333
Fax 236 4705

DESIGN BY:	MAT	
DRAWN BY:	KMF	
CHECKED BY:	DMW	ADD WATER CONN TO MAIN C. STA 17+00
TJR III	KCI	ASBUILT DATA
DATE:	DMW	RELOCATE FIRE HYDRANT
08/10/01	BY NO.	REVISION
		DATE

WATER & SEWER PLAN
600 SCALE MAP NO. 47 BLOCK NO. 7&B

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-B
TAX MAP 47 P10 PARCEL P. 637, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3966-D

SCALE:
HOR: 1" = 50'
VER: 1" = 5'
SHEET
3 OF 15

AS BUILT
DATE: FEB. 2003