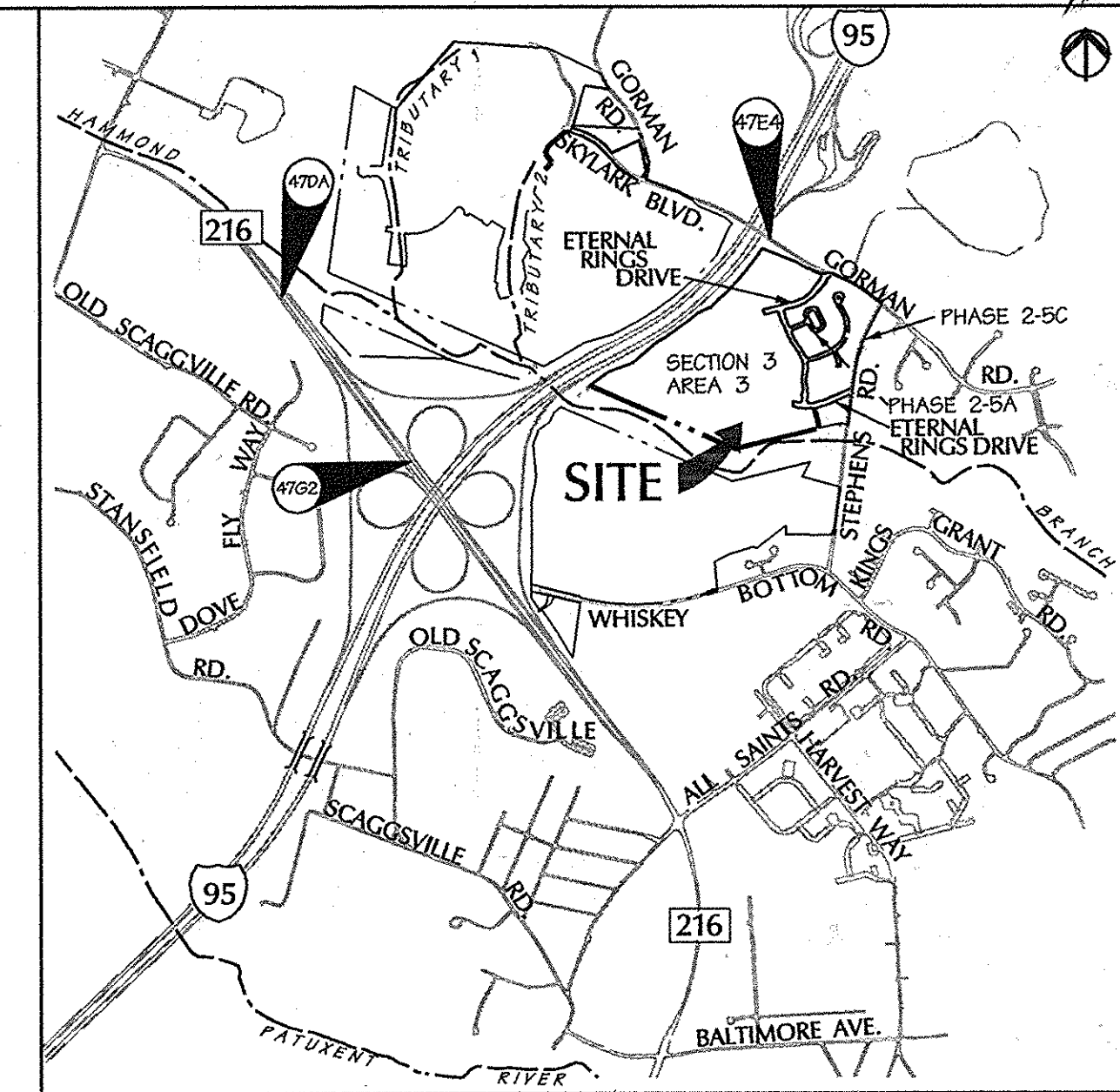


12" Water and 8" Sewer Main Extension Emerson Section 3 - Area 7

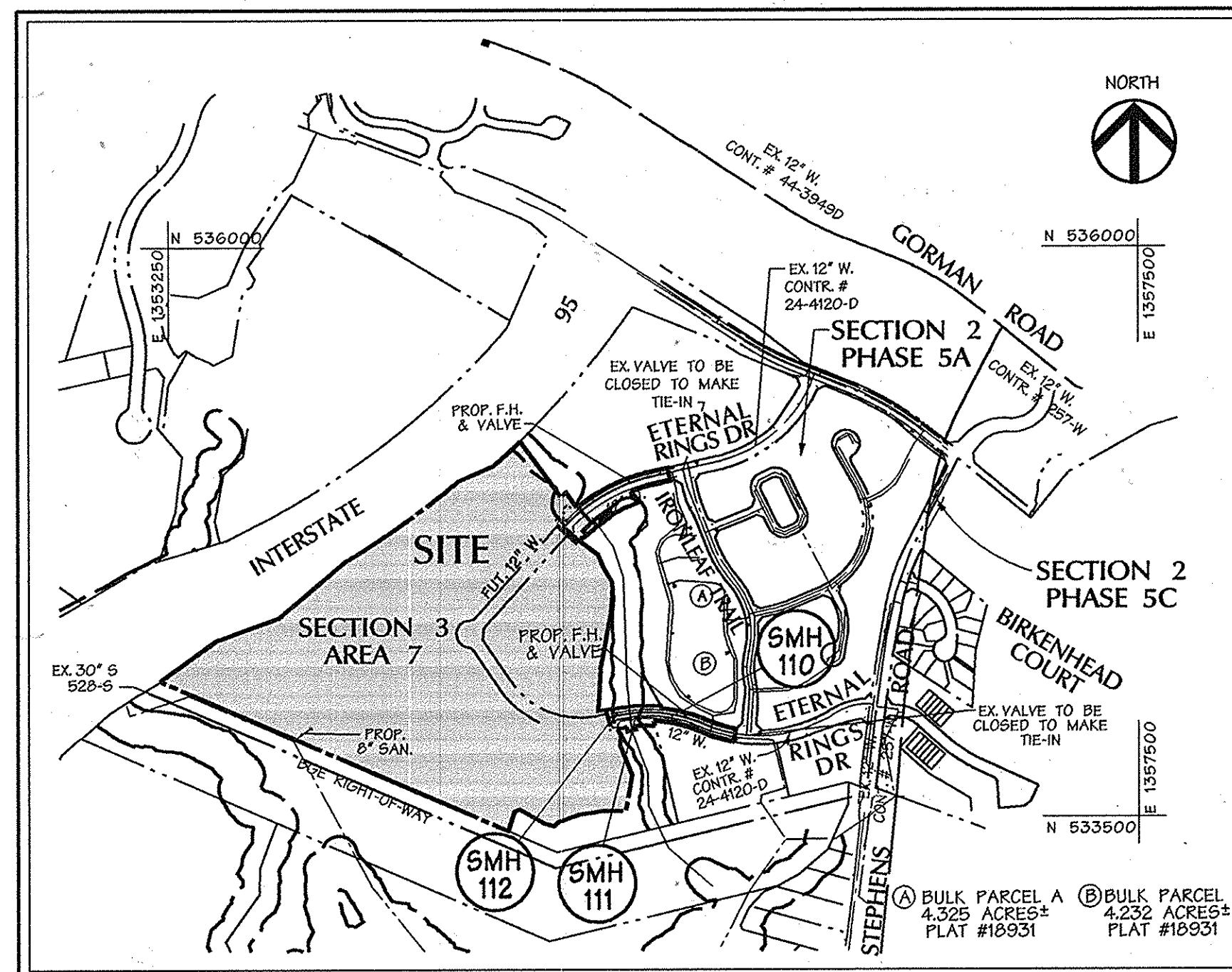
Howard County, Maryland Department of Public Works

Contract No. 24-4696-D



VICINITY MAP

SCALE: 1"=2000'



TYPE OF BUILDING:	COMMERCIAL	TEST GRADIENT:	.200
NO. OF LOTS/PARCELS/UNITS:	0	WATER ZONE:	.550
NO. OF WATER HOUSE CONNECTIONS:	0		
NO. OF SEWER HOUSE CONNECTIONS:	0		
DRAINAGE AREA:			
TREATMENT PLANT:			

LOCATION MAP

SCALE: 1"=600'

SHEET INDEX

SHEET	DESCRIPTION
1	TITLE SHEET
2	PROPOSED 12" WATER MAIN EXTENSION - ETERNAL RINGS DRIVE NORTH
3	PROPOSED 8" SANITARY SEWER & PROPOSED 12" WATER MAIN - ETERNAL RINGS DRIVE SOUTH & NEAR BGE R/W
4	PROPOSED SANITARY & WATER PROFILES

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
12" D.I.P.	1120'	1139		Mc Wane Ferguson
6" D.I.P.	60'	59		Mc Wane
6" VALVE	4	4		Mueller Co.
12" x 6" TEE	4	4		Tyler Union
6" FIRE HYDRANT	4	4		Mueller Co.
12" CAP	2	2		Tyler Union
8" PVC SEWER	95'			
8" DIP SEWER	458'	465		Mc Wane
STD. MANHOLES	4	4		Atlantic Concrete

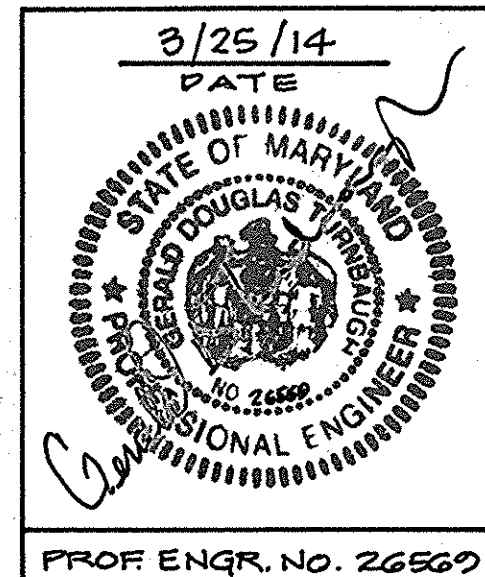
NAME OF UTILITY CONTRACTOR: **Comer Construction Inc.**
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. **26567**, Expiration Date: **7-18-15**

Legend

EX CURB & GUTTER	PROP. SEWER	_____
EX STORM DRAIN	PROP. WATER	_____
EX SEWER	PROPERTY LINE	_____
EX WATER	ROADWAY RIGHT-OF-WAY	_____
EXISTING TREE LINE	PROPOSED LOT LINE	_____
EXISTING WETLAND LIMIT	PROPOSED EASEMENT	_____
PROP. STORM DRAIN	PROPOSED CURB & GUTTER	_____
WATER LINE STATIONING	PROPOSED SIDEWALK	_____
EX STRUCTURE	PROPOSED GUARD RAIL	_____

FOR REVISION NO. 1 ONLY



PROF ENGR. No. 26567



PURPOSE STATEMENT
THE PURPOSE OF THIS REVISION IS TO:
1. IDENTIFY STAGE 1, PHASE 1 AND 2 OF BOTH PARCEL A OF SECTION 3, AREA 6 AND SECTION 3, AREA 7.
2. INDICATE NEW OWNERSHIP AND CURRENT PLAT REFERENCES FOR THE AFFECTED PARCELS WITHIN EMERSON SECTION 3, AREA 6 AND EMERSON SECTION 3, AREA 7.

BENCHMARK

DESCRIPTION

COORDINATES IN MARYLAND NAD83(91) (HORIZONTAL) AND NGVD29 (VERTICAL) DATUMS.
47DA NORTHING: 163391.9104
EASTING: 41226.5759
ELEVATION: 315.905 ft.
5 MILES EAST OF LEISHEAR ROAD,
19.6' SOUTH OF INLET ON RT. 216
47E4 NORTHING: 163326.2295
EASTING: 41326.2550
ELEVATION: 338.909 ft.
CONC. MONUMENT 1 1/2" DGE
CONC. WK. 2" EAST OF NORTH
EAST COR. BRIDGE 2' BELOW SURFACE
6" OFF EDGE OG CONC. WALK ALONG
GORMAN ROAD
47G2 NORTHING: 162440.1212
EASTING: 41253.9279
ELEVATION: 364.210 ft.

F-11-036

DESIGN BY:	TJC
DRAWN BY:	JSS
CHECKED BY:	JDF
DATE:	08/5/11
BY NO.	DATE
REVISION	DATE

TITLE SHEET
WATER AND SEWER
6th ELECTION DISTRICT

EMERSON
Section 3, Area 7 - Parcel A
EMERSON DEVELOPMENT IX LLC
ONE TEXAS STATION COURT, SUITE 200
TIMONIUM, MD 21093 (443) 689-8000
CONTRACT NO. 24-4696-D

SCALE:
AS NOTED
SHEET
1 of 4

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.
APPROVED
John R. Robertson
HOWARD S.C.D.
DATE: 9/1/11

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS. F-11-36

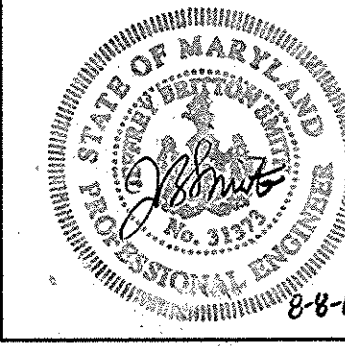
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 31372, EXPIRATION DATE: 1-21-13

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Sharon Coan
CHIEF - BUREAU OF UTILITIES - DATE: 8/11/11

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
Sharon Coan
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE: 9/2/11

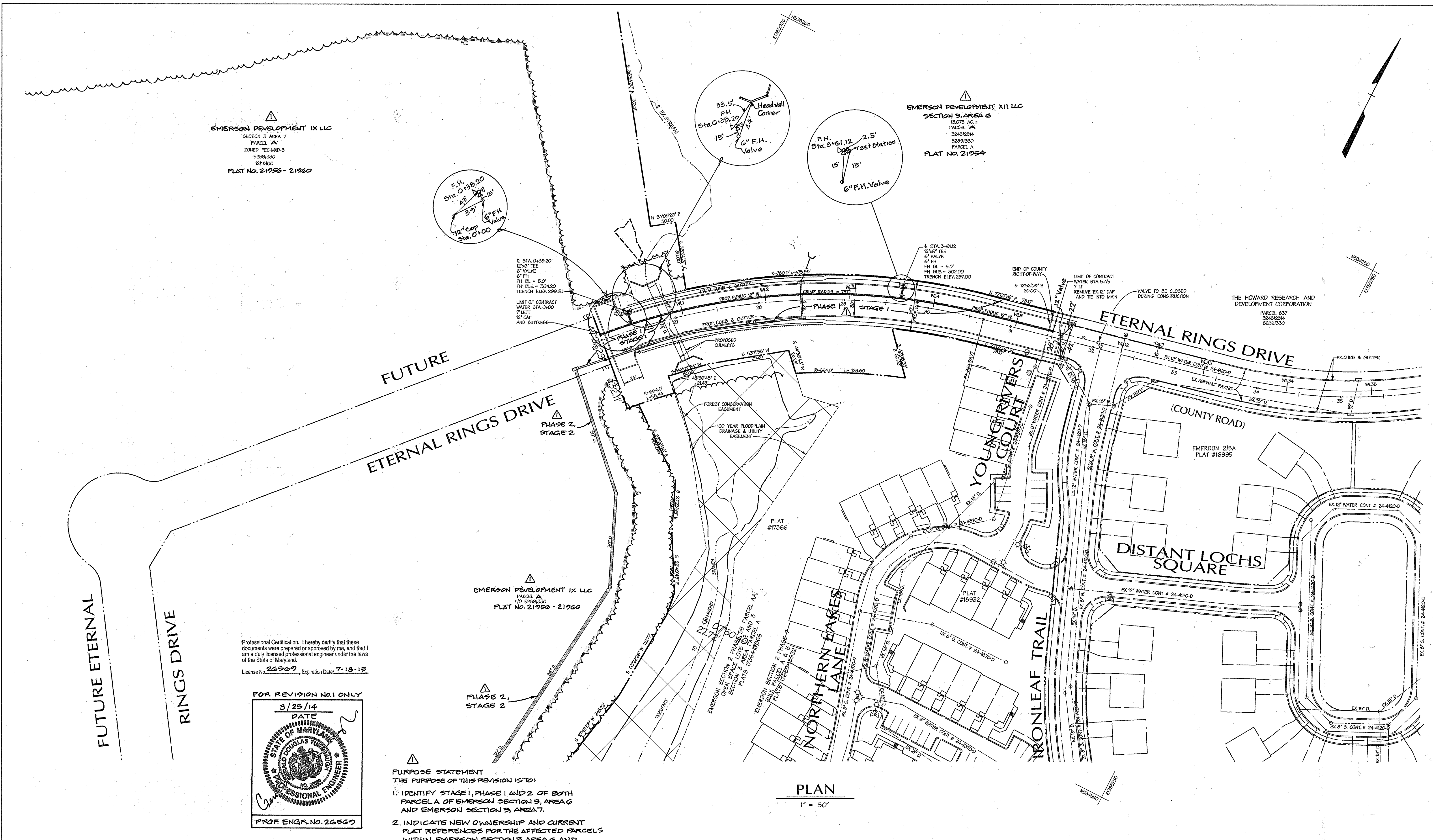
DMW
Daft-McCune-Walker, Inc.
200 East Pennsylvania Avenue
Fossom, Maryland 21286
(410) 296-3333
Fax 296-4705

A Team of Land Planners,
Landscape Architects,
Golf Course Architects,
Engineers, Surveyors &
Environmental Professionals
8-8-11



Mon Aug 08 07:35:51 2011 05:49:50:549 Final Plans 0505-MW10

Mon Aug 08 07:35:51 2011 05:49:50:549 Final Plans 0505-MW10



EMERSON DEVELOPMENT IX LLC
SECTION 3, AREA 7
PARCEL A
ZONED REC-MOD-3
52291330
1218100
PLAT NO. 21956 - 21960

EMERSON DEVELOPMENT XII LLC
SECTION 3, AREA 6
13,075 AC. ±
PARCEL A
32451254
52291330
PARCEL A
PLAT NO. 21954

EMERSON DEVELOPMENT IX LLC
PARCEL A
PID 52291330
PLAT NO. 21956 - 21960

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 26969, Expiration Date: 7-18-15

FOR REVISION NO. 1 ONLY
3/25/14
DATE
STATE OF MARYLAND
PROF. ENGR. NO. 26969

PURPOSE STATEMENT
THE PURPOSE OF THIS REVISION IS TO:
1. IDENTIFY STAGE 1, PHASE 1 AND 2 OF BOTH PARCELS A OF EMERSON SECTION 3, AREA 6 AND EMERSON SECTION 3, AREA 7.
2. INDICATE NEW OWNERSHIP AND CURRENT PLAT REFERENCES FOR THE AFFECTED PARCELS WITHIN EMERSON SECTION 3, AREA 6 AND EMERSON SECTION 3, AREA 7.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F - -

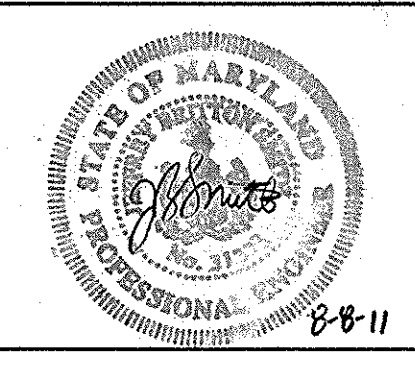
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 31372, EXPIRATION DATE: 1-21-13

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

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

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
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) 286-3333
Fax 286-4705



DESIGN BY:	TJC	DATE:	08/15/11
DRAWN BY:	JSS	BY:	NO.
CHECKED BY:	JDF	NO.	
DATE:	08/15/11	REVISION	2-10-14
BY:	NO.	REVISION	DATE

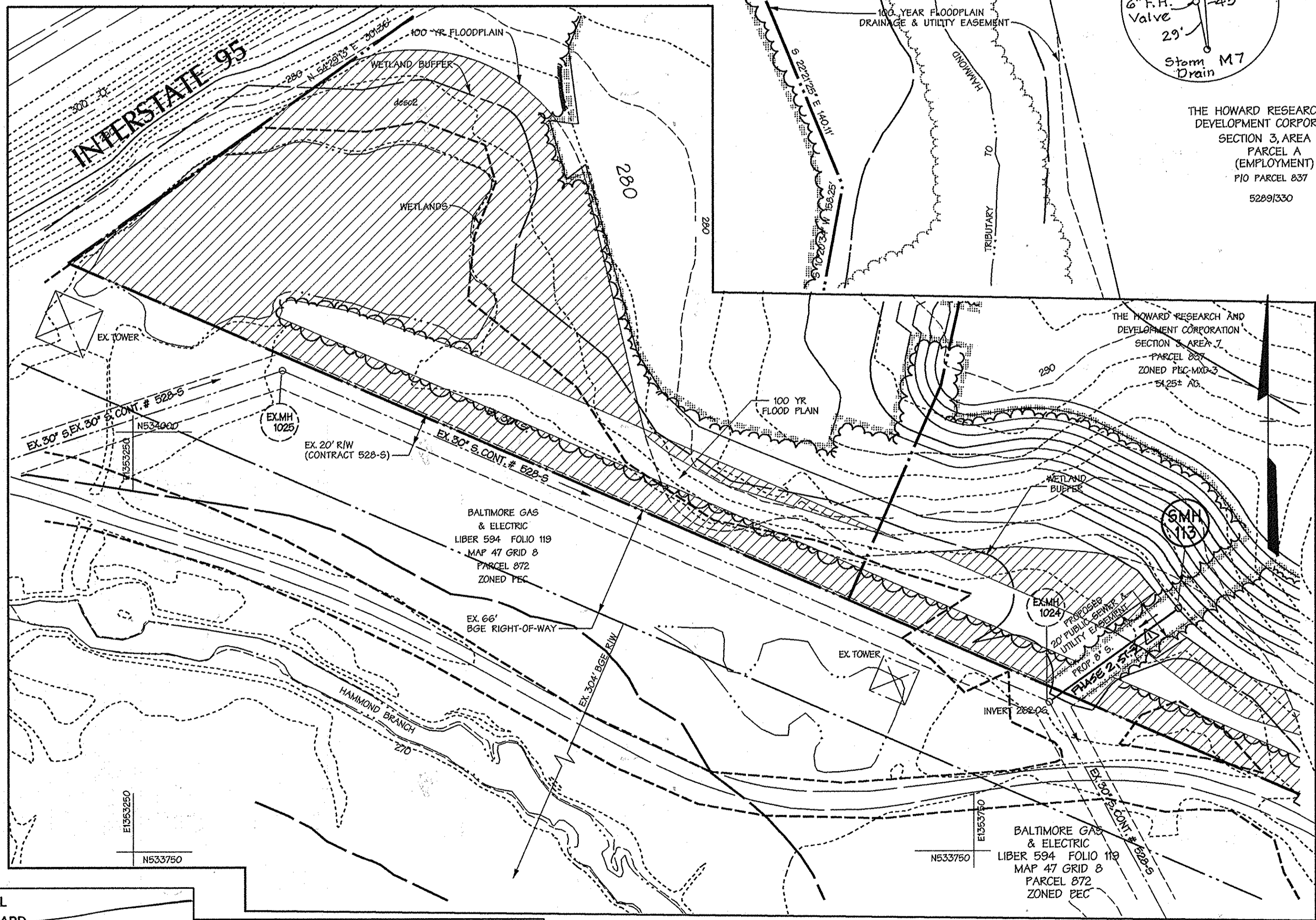
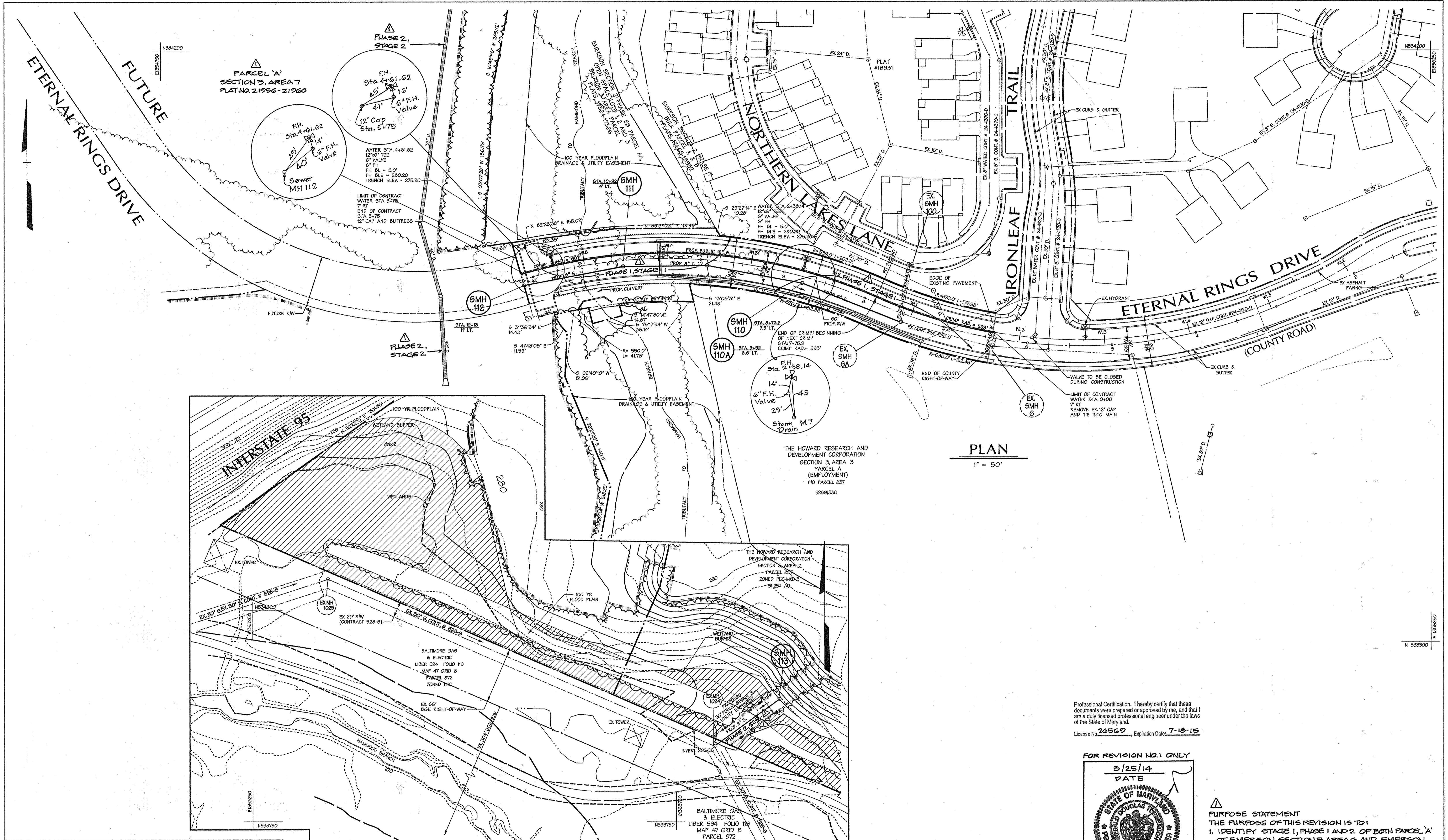
PROPOSED 12" WATER MAIN NORTH
ETERNAL RINGS DRIVE
6th ELECTION DISTRICT
600 SCALE MAP NO. 47 BLOCK NO. 7.8.9.13

EMERSON
Section 3, Area 7
EMERSON DEVELOPMENT IX LLC
ONE TEXAS STATION COURT, SUITE 200
TIMONIUM, MD 21093 (443) 680-8000
CONTRACT NO. 24-4696-D

SCALE:
1"=50'
SHEET
2 of 4

Mon Aug 08 07:35:25 2011 r:\8505-895054\WF\Final Plans\0505-A\W02

9/22/11 7:35:16 AM jsm15h st\hpm\95054\4\hpm n\95054\95054\WF\Final Plans\95054\W02 95054\W02



THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
SECTION 3, AREA 3
PARCEL A
(EMPLOYMENT)
PI0 PARCEL 637
52891330

PLAN
1" = 50'

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 26569, Expiration Date: 7-16-15

FOR REVISION NO. 1 ONLY
3/25/14
DATE

PROF. ENGR. NO. 26569

PURPOSE STATEMENT
THE PURPOSE OF THIS REVISION IS TO:
1. IDENTIFY STAGE 1, PHASE 1 AND 2 OF BOTH PARCEL A OF EMERSON SECTION 3, AREA 7 AND EMERSON SECTION 3, AREA 7.
2. INDICATE NEW OWNERSHIP AND CURRENT PLAT REFERENCES FOR THE AFFECTED PARCELS WITHIN EMERSON SECTION 3, AREA 7 AND EMERSON SECTION 3, AREA 7.

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

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 208 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F- -

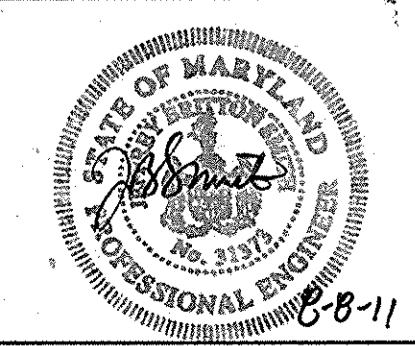
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 31273, EXPIRATION DATE: 1-21-13

PLAN - SOUTHWEST SIDE OF SITE
SCALE: 1"=50'

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

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
[Signature] 9/2/11
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Duff-McCune-Walker, Inc.
A Team of Land Planners, Landscape Architects, Golf Course Architects, Engineers, Surveyors & Environmental Professionals
200 East Pennsylvania Avenue
Timonium, Maryland 21286
(410) 296-3330
Fax 296-4705



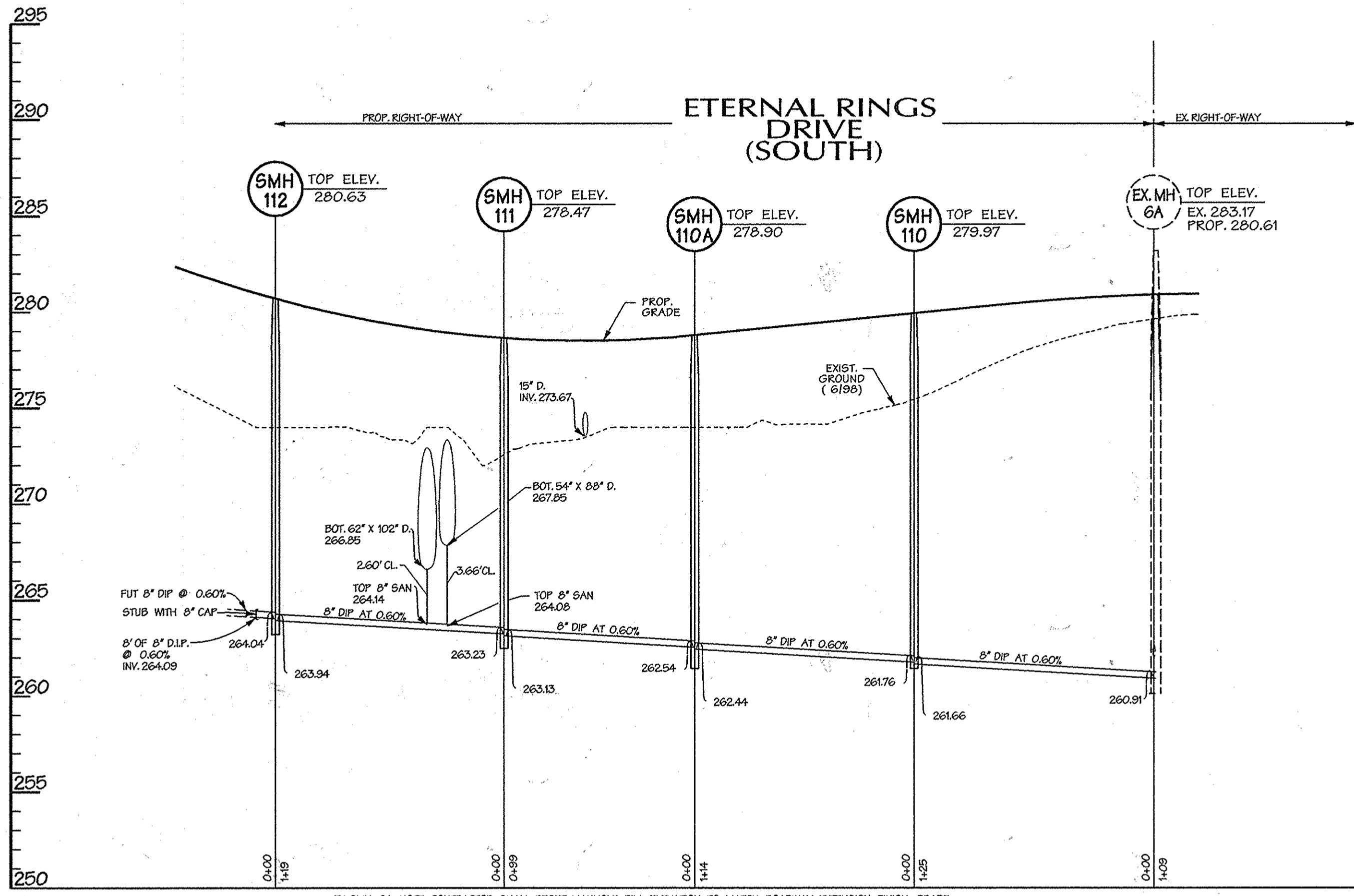
DESIGN BY:	TJC				
DRAWN BY:	JSS				
CHECKED BY:	JDF				
DATE:	08/5/11				
BY NO.		REVISION		DATE	
		SHOW PHASING/STAGING LIMITS & NEW OWNERSHIP		2-10-14	

PROPOSED 8" SANITARY SEWER
PROPOSED 12" WATER MAIN
ETERNAL RINGS DRIVE SOUTH
6th ELECTION DISTRICT
600 SCALE MAP NO. 47 BLOCK NO. 7.8.9.13

EMERSON
Section 3, Area 7
EMERSON DEVELOPMENT IX LLC
ONE TEXAS STATION COURT, SUITE 200
TIMONIUM, MD 21093 (410) 689-8000
CONTRACT NO. 24-4696-D
SCALE: 1"=50'
SHEET 3 of 4

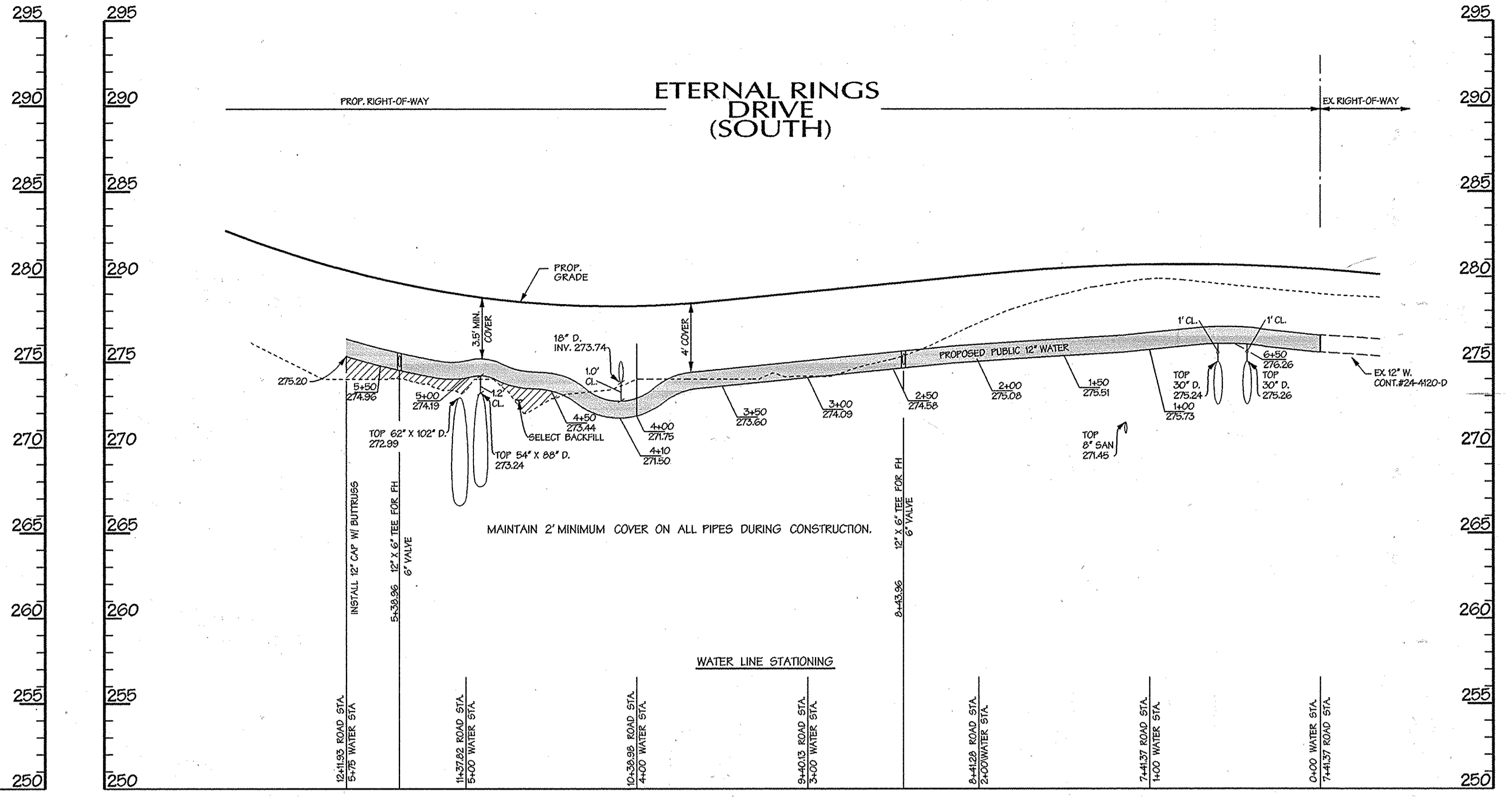
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Mon Aug 08 08:56:44 AM Final Plans:95054W03



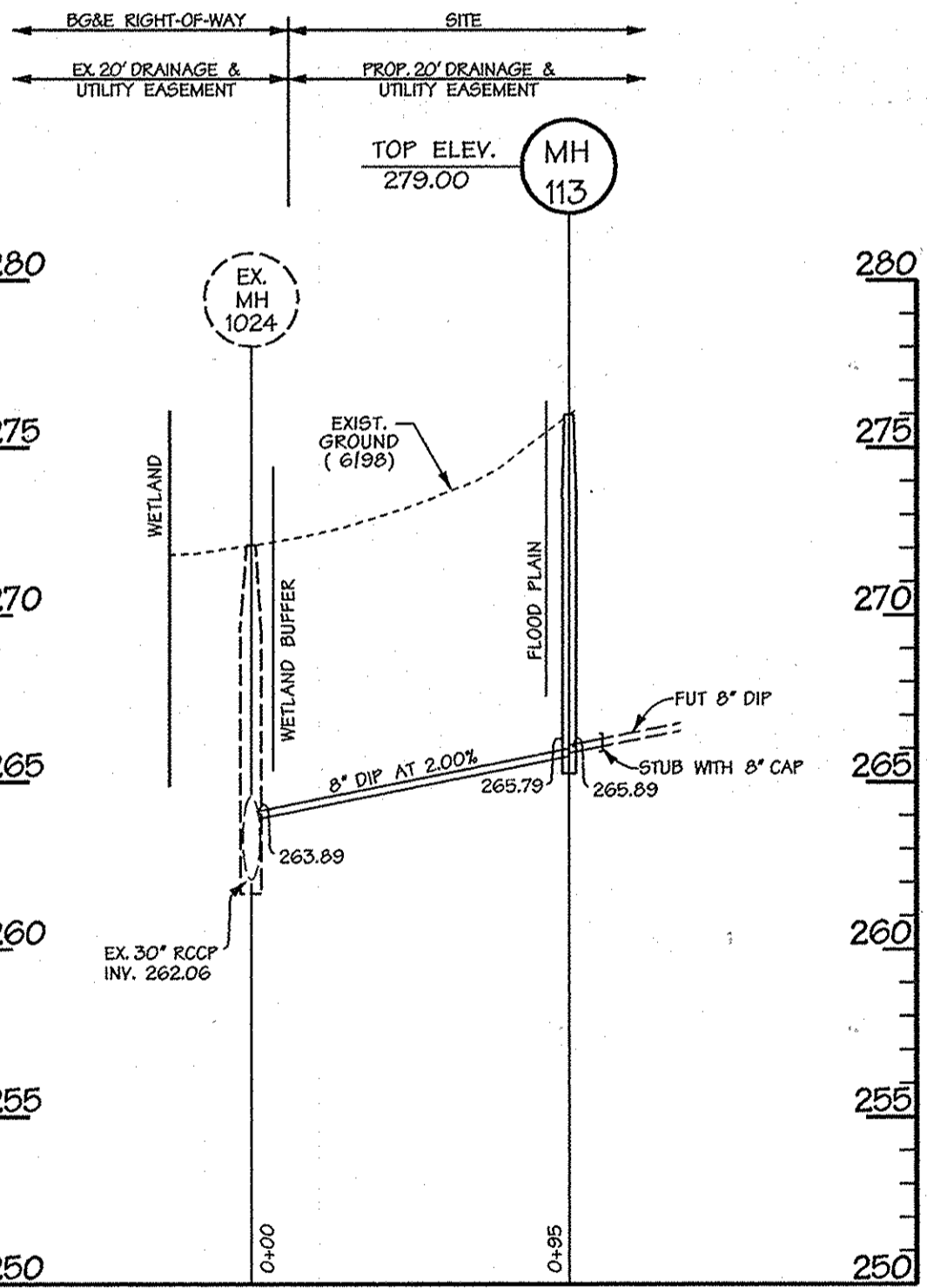
SANITARY SEWER PROFILE

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



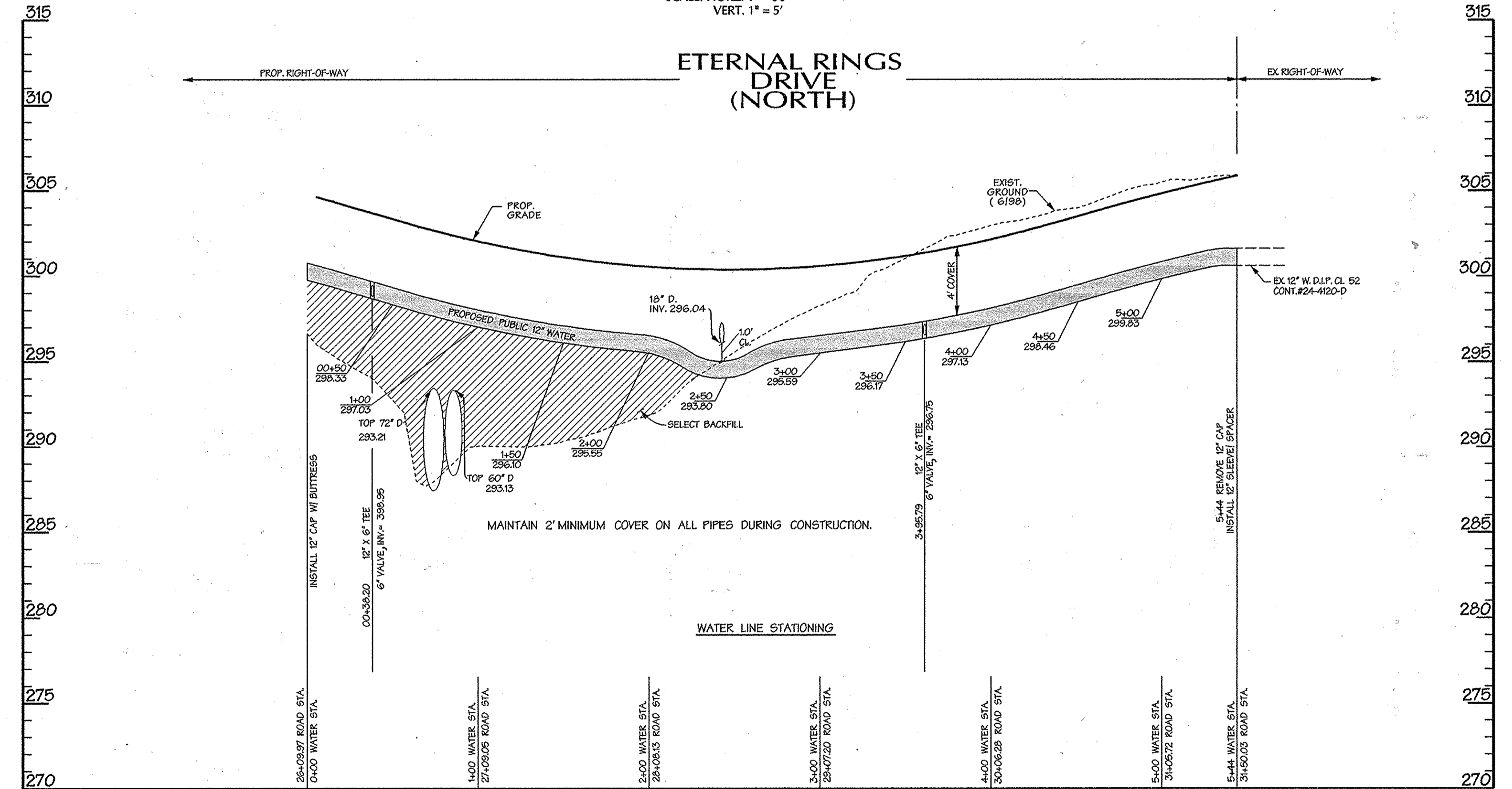
WATER PROFILE

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



MANHOLE SCHEDULE

NO.	TYPE	SIZE	TOP	INV. IN	INV. OUT
SMH 110	STD. PRECAST MH	48" DIM.	279.13	262.11	262.01
SMH 111	STD. PRECAST MH	48" DIM.	278.47	263.14	263.04
SMH 112	STD. PRECAST MH	48" DIM.	280.63	263.95	263.85
SMH 113	STD. PRECAST MH	48" DIM.	279.00	265.89	265.79



WATER PROFILE

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

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

APPROVED: *[Signature]*

HOWARD S.C.D. DATE: _____

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F - -

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21373, EXPIRATION DATE: 1-21-13

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature]
CHIEF - BUREAU OF UTILITIES - DATE

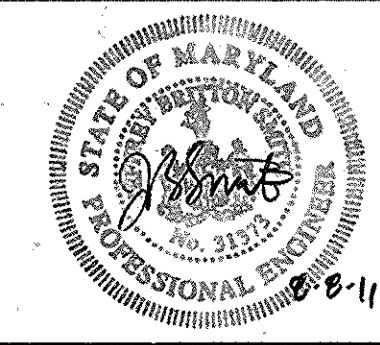
DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

[Signature] 9/12/11
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Duff-McCune-Walker, Inc.

A Team of Land Planners,
Landscape Architects,
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Environmental Professionals

200 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 286-3333
Fax: 289-4705



DESIGN BY:	TJC		
DRAWN BY:	JSS		
CHECKED BY:	JDF		
DATE:	08/5/11		
BY	NO.	REVISION	DATE

PROPOSED SANITARY & WATER PROFILES

ETERNAL RINGS DRIVE
6th ELECTION DISTRICT

600 SCALE MAP NO. 47 BLOCK NO. 7.8.9.13

EMERSON
Section 3, Area 7

THE HOWARD RESEARCH & DEVELOPMENT CORPORATION
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
(410) 992-6284

CONTRACT NO. 24-4696-D

SCALE: 1" = 50'
SHEET 4 of 4

Mon Aug 08 09:48:20AM EDT 2011