

PROPOSED PUBLIC WATER & SEWER


ROBINSON NATURE CENTER

5TH ELECTION DISTRICT, TAX MAP 35

HOWARD COUNTY, MARYLAND 21044

CAPITAL PROJECT NO. 34-4587-D

GENERAL NOTES

- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON MAY 5, 2007 BY MERIDIAN SURVEYS, INC.
- THE COORDINATES SHOWN ON THIS DRAWING ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD 83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 3511 AND NO. 3512 AS PROVIDED BY HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS SURVEY DIVISION.
- ALL VERTICAL CONTROLS ARE BASED ON NAVD 88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE BY HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS SURVEY DIVISION.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. 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 THE BRACING OF ADDITIONAL POLES, OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWING, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS 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 LOCATIONS OF THE TEST PITS. 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.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT & T	1-800-252-1133
BGE (CONSTRUCTION SERVICES)	410-850-4620
BGE (EMERGENCY)	410-685-1400
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE COMPANY	410-795-1390
MISS UTILITY	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	1-800-743-0033/410-224-9210
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE TREES, STUMPS, AND ROOTS ALONG THE 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) 313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD 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.

STANDARD WATER MAIN GENERAL NOTES


- ALL WATER MAINS TO BE C900 PVC CLASS 150 PIPE.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" OF 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 THE STANDARD DETAILS. THE 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.
- FOR SPRINKLER SYSTEM FOR ALL TOWN HOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1' CONNECTION WITH A 3/4" METER.

STANDARD SEWER MAIN GENERAL NOTES

- ALL SEWER MAINS SHALL BE 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 15" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE A WATERTIGHT FRAME AND COVER. STANDARD DETAIL G5-52. WHERE WATERTIGHT FRAME AND COVER ARE USED, SET TOP 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.

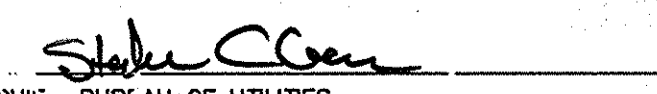
UTILITY NOTE

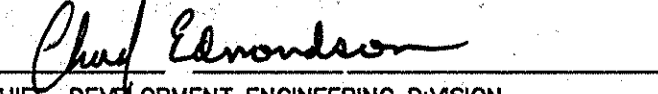
CALL "MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. BEFORE EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET CHECK AT 1-866-821-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED, 48 HOURS AFTER CALLING MISS UTILITY.

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

 DATE: 12/10/08
 HOWARD COUNTY CONSERVATION DISTRICT
 SEDIMENT CONTROL MEASURE FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER SDP-09-02.

ADTEK ENGINEERS, INC.
 CIVIL & STRUCTURAL ENGINEERING
 10000 Annapolis Boulevard, Unit H
 Frederick, Maryland 21701-5516
 Phone: 301-662-4408 Fax: 301-662-7484
 www.adtekengineers.com

OWNER/DEVELOPER
 HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 COLUMBIA, MARYLAND 21045
 ATTN: ABEYE GIRMA
 TEL: 410.313.6143 FAX: 410.313.6161

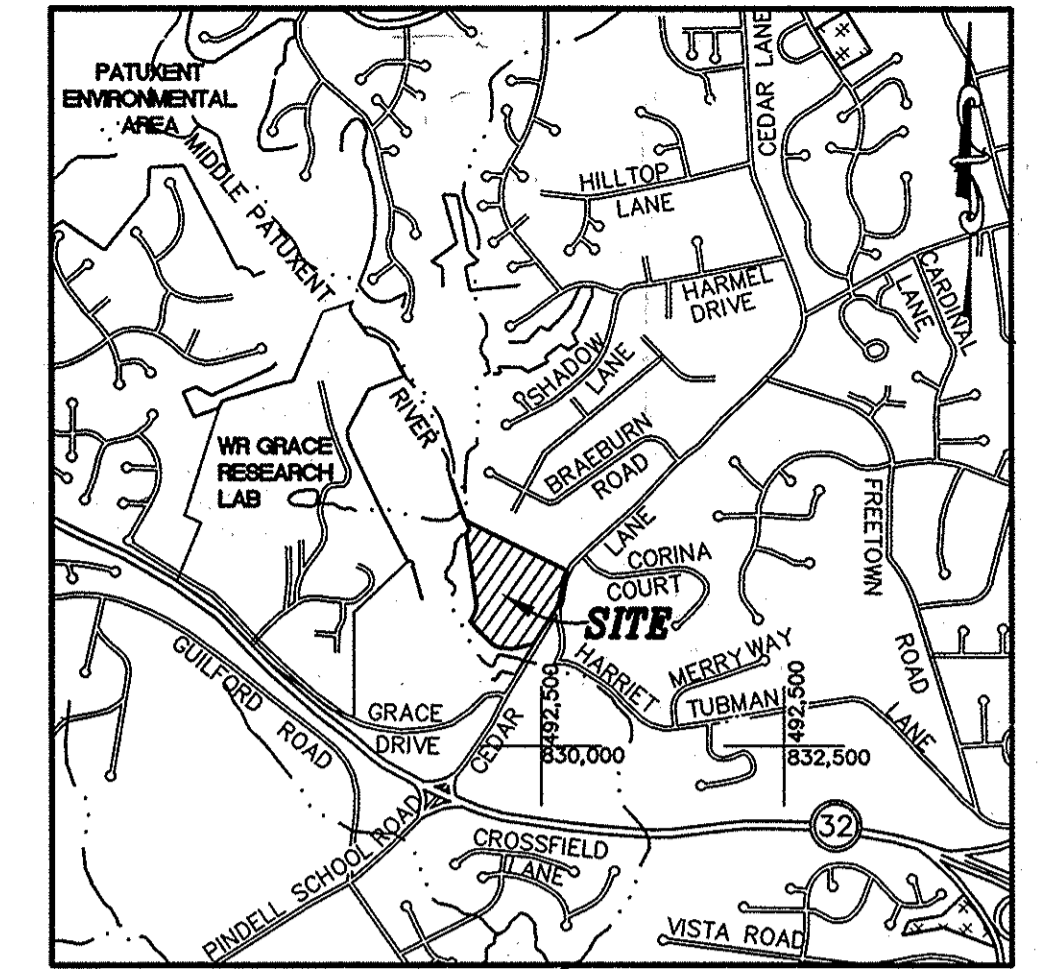
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

 DATE: 12/15/08
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

 DATE: 12-24-08
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

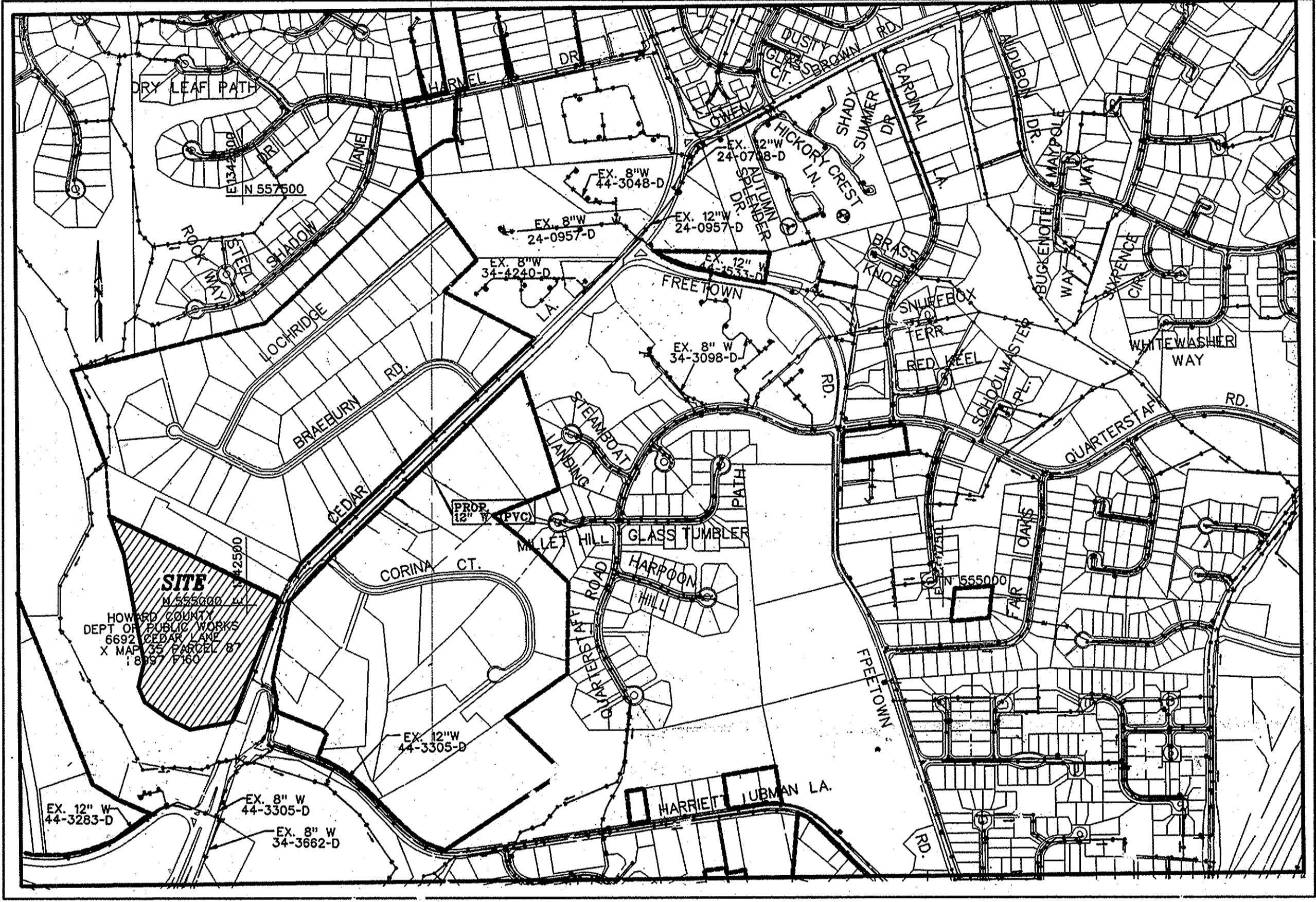
G W O
 800 WYMAN PARK DRIVE, SUITE 300
 FALCHURCH, MARYLAND 20741
 301-251-0000
 WWW.GWOPROFESSORS.COM

DRN: KDL					
DES: KDL		Howard Co. Utilities Comments			10/6/08
CHK: SPB		Howard Co. Utilities Comments			10/1/08
		Howard Co. Utilities Comments			9/23/08
		Howard Co. Utilities Comments			8/27/08
DATE: 09-16-08	BY NO.	REVISION	DATE	600' SCALE MAP NO. 35	PARCEL NO. 87

Cover Sheet



VICINITY MAP
 SCALE: 1" = 2,000'±
 HOWARD COUNTY
 ADC MAP PAGE: 15
 GRID: B-9
 (21ST EDITION)



LOCATION MAP
 SCALE: 1" = 600'





















WATER AND SEWER COUNTY CODE
 WATER CODE: E 28
 SEWER CODE: S308200
 TEST GRADIENT: 700

TYPE OF BUILDING: NUMBER OF BUILDING LOTS: 1
NUMBER OF NON-BUILDABLE LOTS: NONE
NUMBER OF WHCS: 1
NUMBER OF SHCS: 1
DRAINAGE AREA: MIDDLE PATUXENT TREATMENT PLANT: 117.2
QUALITY MANAGEMENT PLAN: SAVAGE, MARYLAND

SHEET INDEX

COVER SHEET (1 of 4)
 SEWER & WATER PLAN (2 of 4)
 SEWER & WATER PROFILES (3 of 4)
 SEWER PUMP DETAILS (4 of 4)

LEGEND

- | | | | |
|-------------------------|---|-----------------------|---|
| EXISTING MANHOLE |  | BENCHMARK |  |
| EXISTING SANITARY SEWER |  | SIGN |  |
| EXISTING STORM DRAIN |  | EXISTING TREE LINE |  |
| UTILITY POLE |  | EXISTING FENCE |  |
| EXISTING WATER LINE |  | PROPERTY LINE |  |
| EXISTING WATER VALVE |  | PROPOSED STORM DRAIN |  |
| EXISTING FIRE HYDRANT |  | EASEMENT |  |
| EXISTING CONDUIT |  | PROPOSED SEWER LINE |  |
| RIPRAP |  | PROPOSED WATER LINE |  |
| EXISTING LIGHT |  | PROPOSED FIRE HYDRANT |  |

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
8"W C900 PVC CL 150	1323 LF	1323	C-900 PVC	NORTH AMERICAN
8"W C900 PVC CAP	2	2	DIP	SIGMA
FIRE HYDRANT	2	2	GUARDIAN	KENNEDY
8" X 8" T	2	2	DIP	SIGMA
8" VALVE	6	6	C-905 CAST IRON	KENNEDY
6" VALVE	2	2	C-905 CAST IRON	KENNEDY
6"W C900 PVC CL 150	160 LF	160	C-900 PVC	NORTH AMERICAN
2"W COPPER TYPE "K"	436 LF	436	TYPE K	CAMBRIDGE LEE
2" CAP	4	4	DIP	SIGMA
2" VALVE	3	3	70 SERIES	FORD
8"x 2" COP VALVE W/ SADDLE	2	2	F 202 8-4 SADDLE CORP.	FORD
2" METER BOX	4	4	PRECAST CONC	HORNE
8" SEWER	544 LF	544	SDR-35 PVC	NORTH AMERICAN
6" SEWER	62 LF	62	SDR-35 PVC	NORTH AMERICAN
4" S. WER	55 LF	55	SDR-35 PVC	NORTH AMERICAN
2" FORCE MAIN	183 LF	183	SDR-21 PVC	NORTH AMERICAN
2 1/2" COP VALVE W/ SADDLE	1	1		FORD
MANHOLES	5	5	PRECAST CONC	AMERICAST
PUMP STATION	1	1	DH-272	ENVIRONMENT ONE

NAME OF UTILITY CONTRACTOR: JOSEPH CANOVA AND SON, LLC
 SURVEY AND DRAFTING DIVISION AS-BUILT DATE:

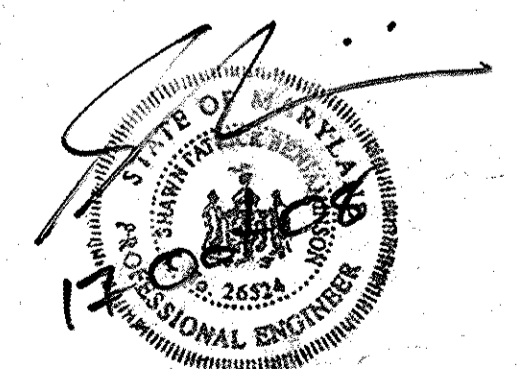
BENCHMARK TABLE				
NO.	NORTHING	EASTING	ELEVATION	LOCATION
1	555008.8277	1342754.7008	322.05	X-CUT ON SOUTH SIDE CATCH BASIN. EAST SIDE OF CEDAR LANE
3	554843.0589	1342691.0659	317.38	X-CUT ON SOUTH SIDE CATCH BASIN. EAST SIDE OF CEDAR LANE
4	554559.1082	1342592.8203	305.26	X-CUT ON SOUTH SIDE CATCH BASIN. EAST SIDE OF CEDAR LANE

STRUCTURE SCHEDULE							
STRUCTURE NO	TYPE	TOP ELEV	INVERT IN	INVERT OUT	NORTHING	EASTING	REMARKS
EX S-1	EXISTING MANHOLE	303.92	299.10	299.00	554547.8646	1342631.5310	-----
S-40	MANHOLE	310.00	301.64	301.54	554620.6917	1342463.6625	MANHOLE S/1.31
S-41	MANHOLE	324.60	313.26	313.16	554761.5686	1342311.5976	MANHOLE S/1.31
S-42	MANHOLE	327.00	315.97	315.87	554759.6293	1342176.9569	MANHOLE S/1.31
S-43	MANHOLE	326.10	318.39	318.22	554738.8989	1342062.2787	MANHOLE S/1.31
S-44	MANHOLE	324.50	319.98	318.98	554737.4246	1342037.3222	MANHOLE S/1.31
PS-1	MANHOLE	297.20	SEE DETAIL	SEE DETAIL	554847.0638	1341900.5322	SEE DETAIL SHT C 4.2

AS BUILTS 5/31/10

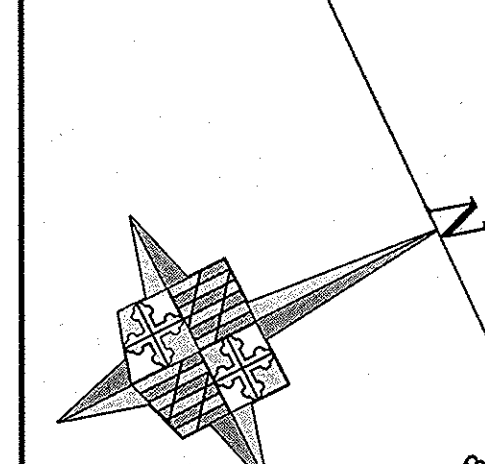
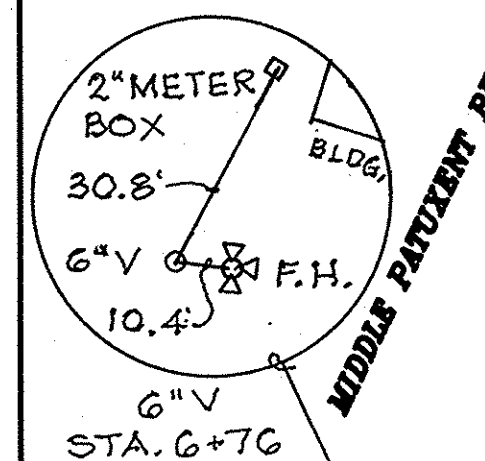
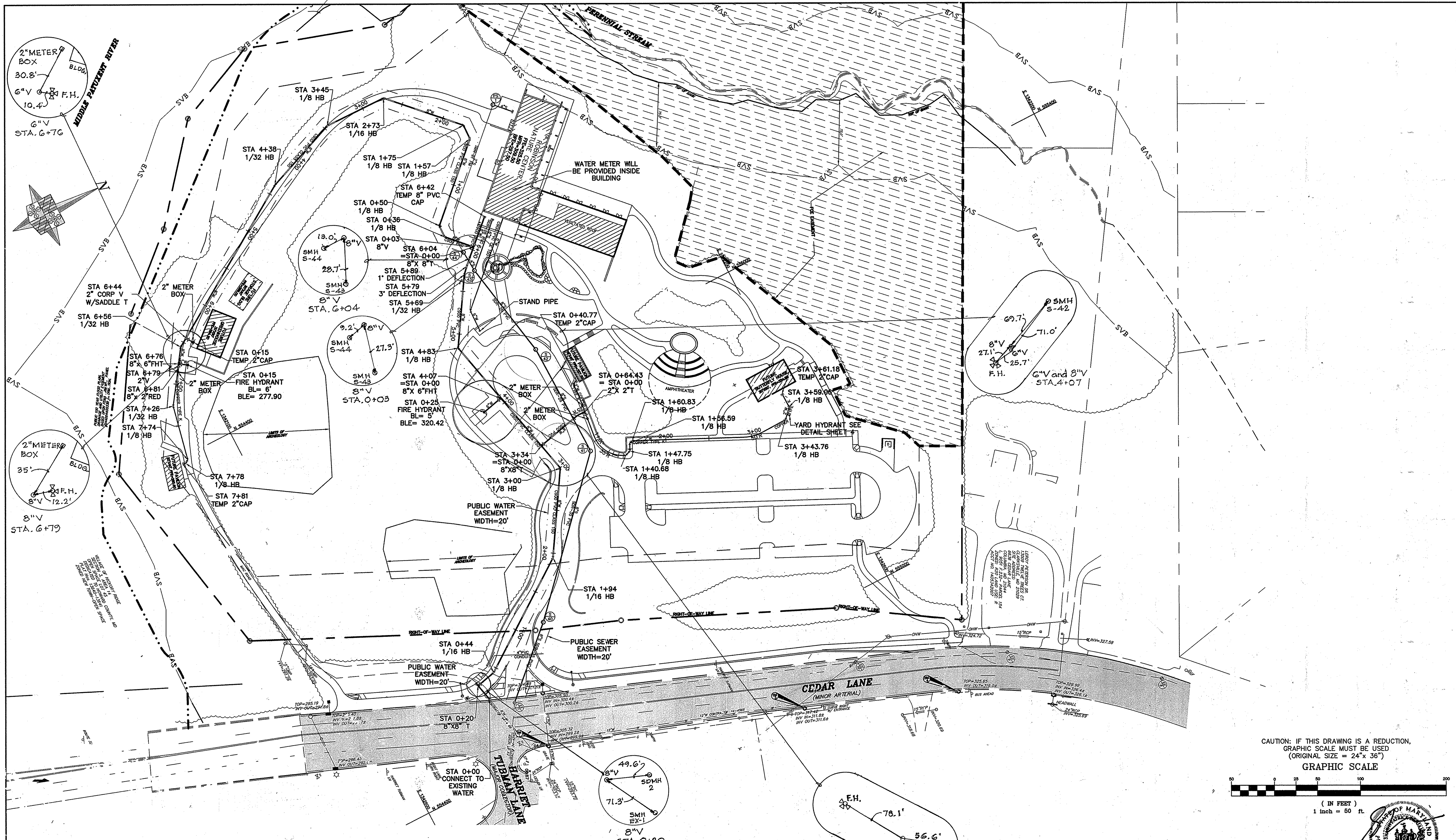
Robinson Nature Center

6692 Cedar Lane Election District No. 5 Howard County, Maryland
CAPITAL PROJECT #: 34-4587-D

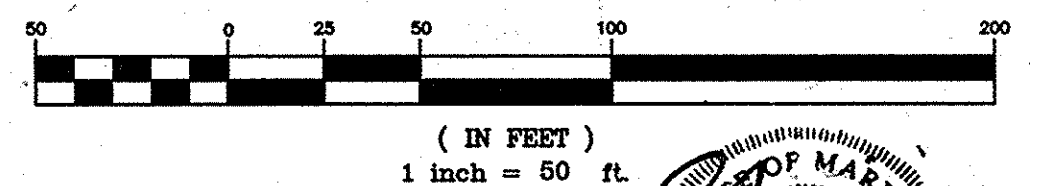


I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NUMBER: 26524 EXPIRATION DATE: 19 JULY 2009

SCALE: NTS
 SHEET NO. 1 OF 4
 SDP-09-002



CAUTION: IF THIS DRAWING IS A REDUCTION,
GRAPHIC SCALE MUST BE USED
(ORIGINAL SIZE = 24" x 36")
GRAPHIC SCALE



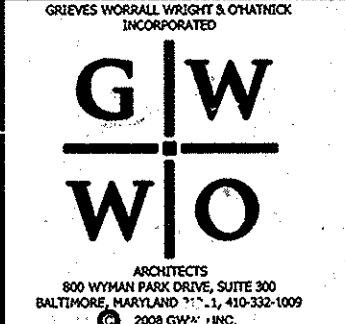
THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John D. R... 12/18/08
HOWARD SOIL CONSERVATION DISTRICT DATE

ADTEK ENGINEERS, INC.
CIVIL & STRUCTURAL ENGINEERING
97 Monocacy Boulevard, Unit H
Frederick, Maryland 21701-5516
Phone: 301-662-4408 Fax: 301-612-7484
www.adtekengineers.com

OWNER/DEVELOPER
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
COLUMBIA, MARYLAND 21045
ATTN: ABEYE GIRMA
TEL: 410.313.6143 FAX: 410.313.6161

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND
Stella C. ... 12/15/08
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND
Chad ... 12.24.08
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

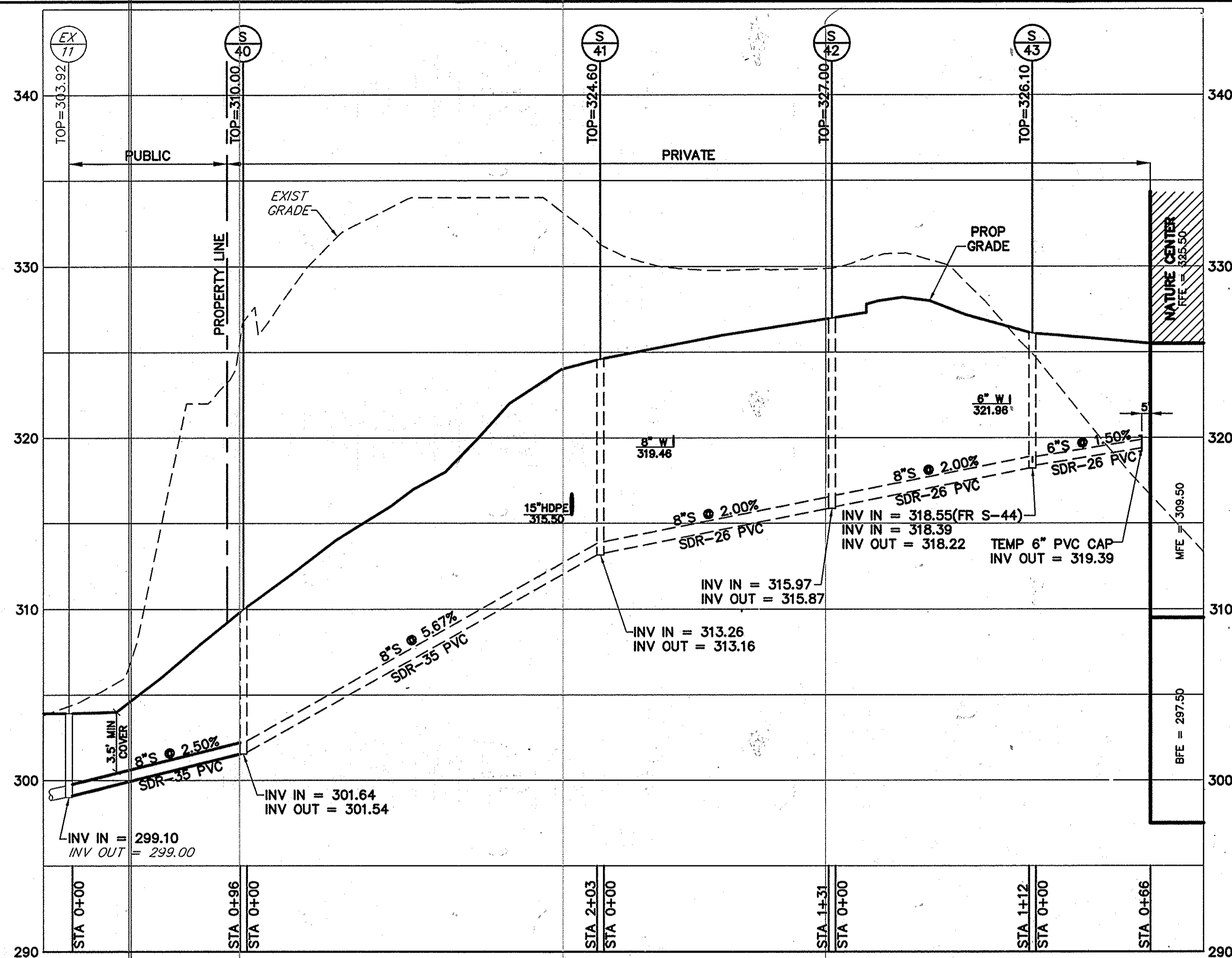


DRN:	KDL	DATE	REVISION
DES:	KD	4	Howard Co. Utility Comments 10/6/08
CHK:	SP	3	Howard Co. Utility Comments 10/1/08
		2	Howard Co. Utility Comments 9/23/08
		1	Howard Co. Utility Comments 8/27/08
DATE:	09-16-08	BY:	NO.

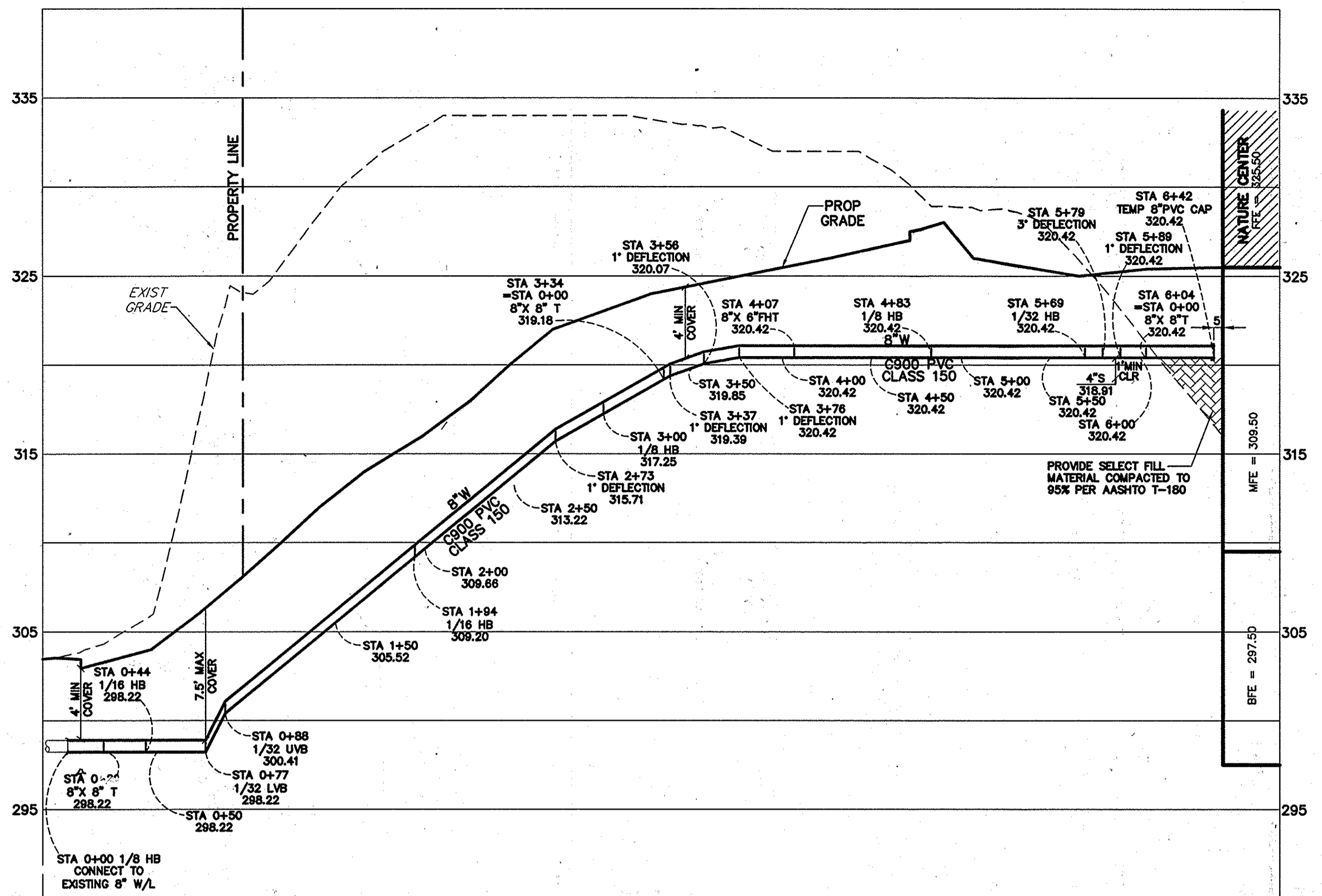
WATER AND SEWER PLAN
600' SCALE MAP NO. 35 PARCEL NO. 87

AS BUILTS 5/31/16
Robinson Nature Center
6929 Cedar Lane Election District No. 5 Howard County, Maryland
CAPITAL PROJECT #: 34-4587-D

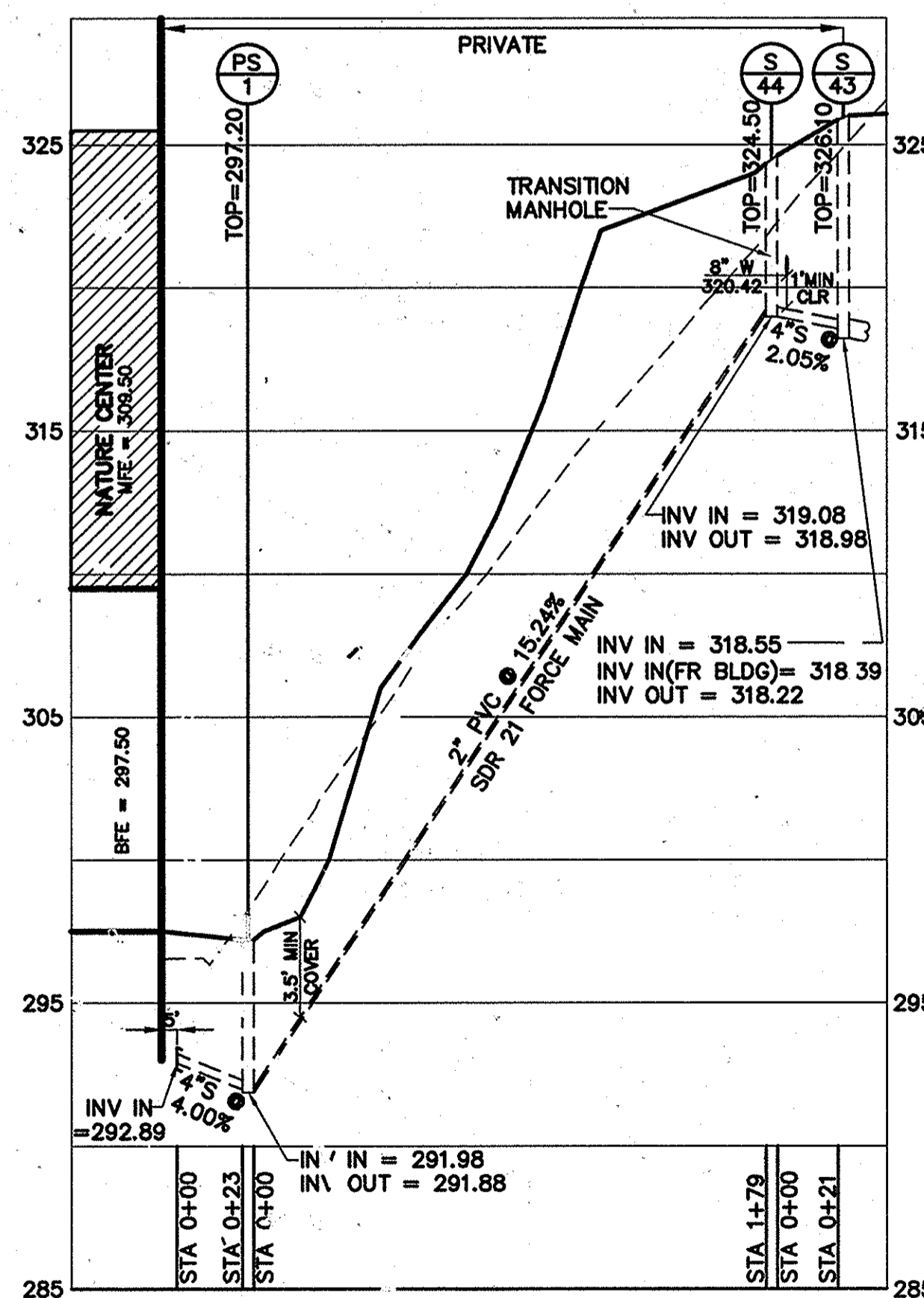
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SHEET NO. 2 OF 4
SDP-09-002



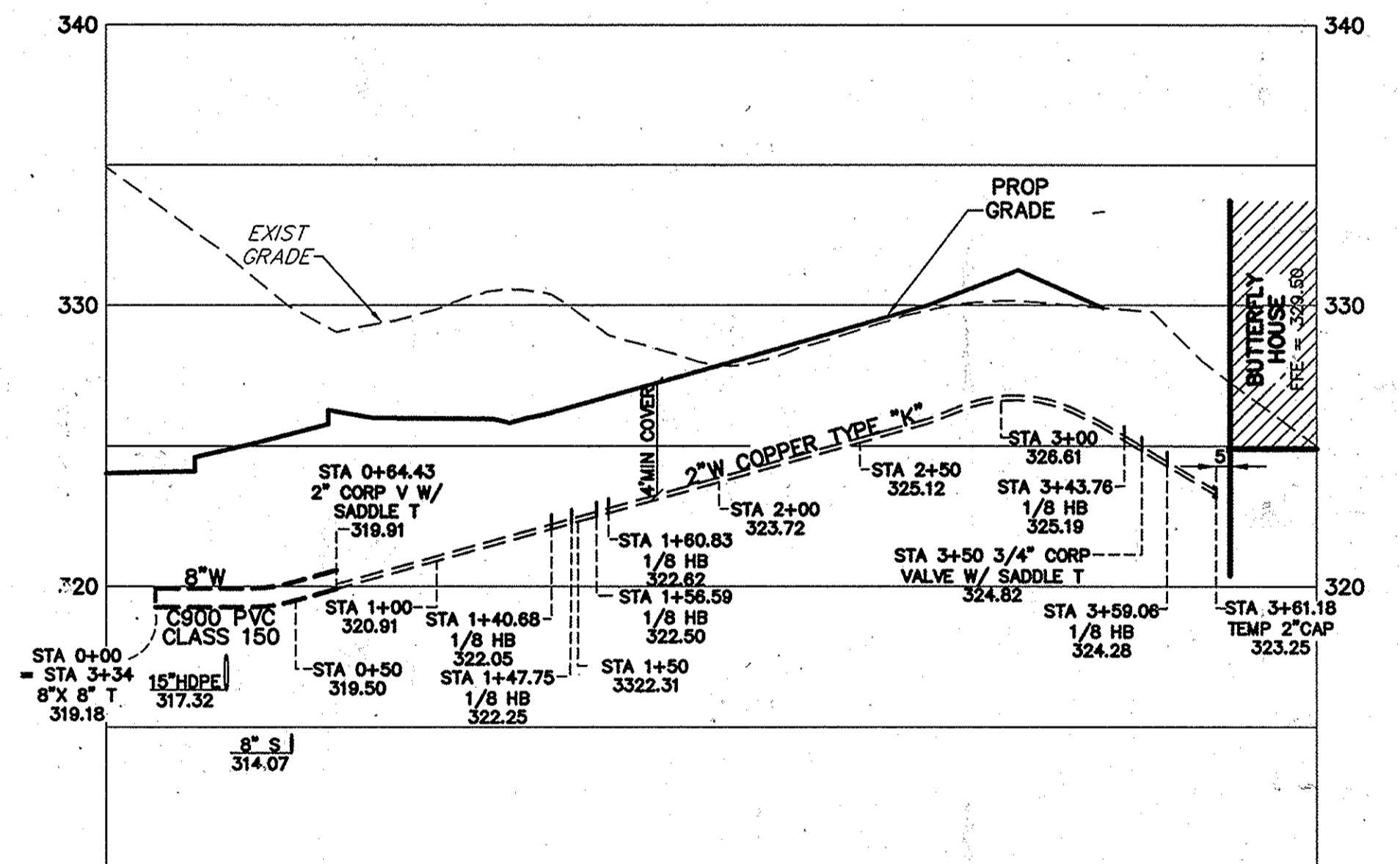
SEWER PROFILE (BUILDING TO EX MH-11)
SCALE: 1" = 50'(HORIZ) 1" = 5'(VERT)



WATERLINE PROFILE (BUILDING TO EX MAIN)
SCALE: 1" = 50'(HORIZ) 1" = 5'(VERT)



FORCE MAIN SEWER PROFILE (BUILDING TO S-4)
SCALE: 1" = 50'(HORIZ) 1" = 5'(VERT)



WATERLINE PROFILE (8" TEE TO BUTTERFLY HOUSE)
SCALE: 1" = 50'(HORIZ) 1" = 5'(VERT)

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

HOWARD SOIL CONSERVATION DISTRICT DATE: 12/15/08

SEDIMENT CONTROL MEASURE FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER SDP-09-02.

ADTEK ENGINEERS, INC.
CIVIL & STRUCTURAL ENGINEERING
97 Monocacy Boulevard, Unit H
Frederick, Maryland 21701-5516
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www.adtekengineers.com

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DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
COLUMBIA, MARYLAND 21045
ATTN: ABEYE GIRMA
TEL: 410.313.6143 FAX: 410.313.6161

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND
Stake C. Gern
CHIEF, BUREAU OF UTILITIES
DATE: 12/15/08

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND
Chad Edwards
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 12-24-08

G W O
800 WYOMING PARK DRIVE, SUITE 300
BETHESDA, MARYLAND 20814
301-461-0000

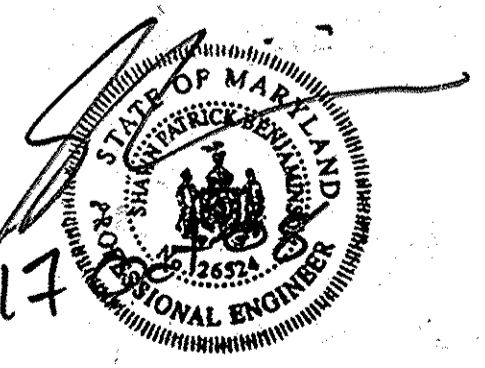
DRN	NO.	REVISION	DATE
KDL	5	Howard Co. Utilities Comments	10/10/08
KDL	4	Howard Co. Utilities Comments	10/6/08
KDL	3	Howard Co. Utilities Comments	10/1/08
SPB	2	Howard Co. Utilities Comments	9/23/08
SPB	1	Howard Co. Utilities Comments	8/27/08

Water & Sewer Line Profiles
800' SCALE MAP NO. 35
PARCEL NO. 87

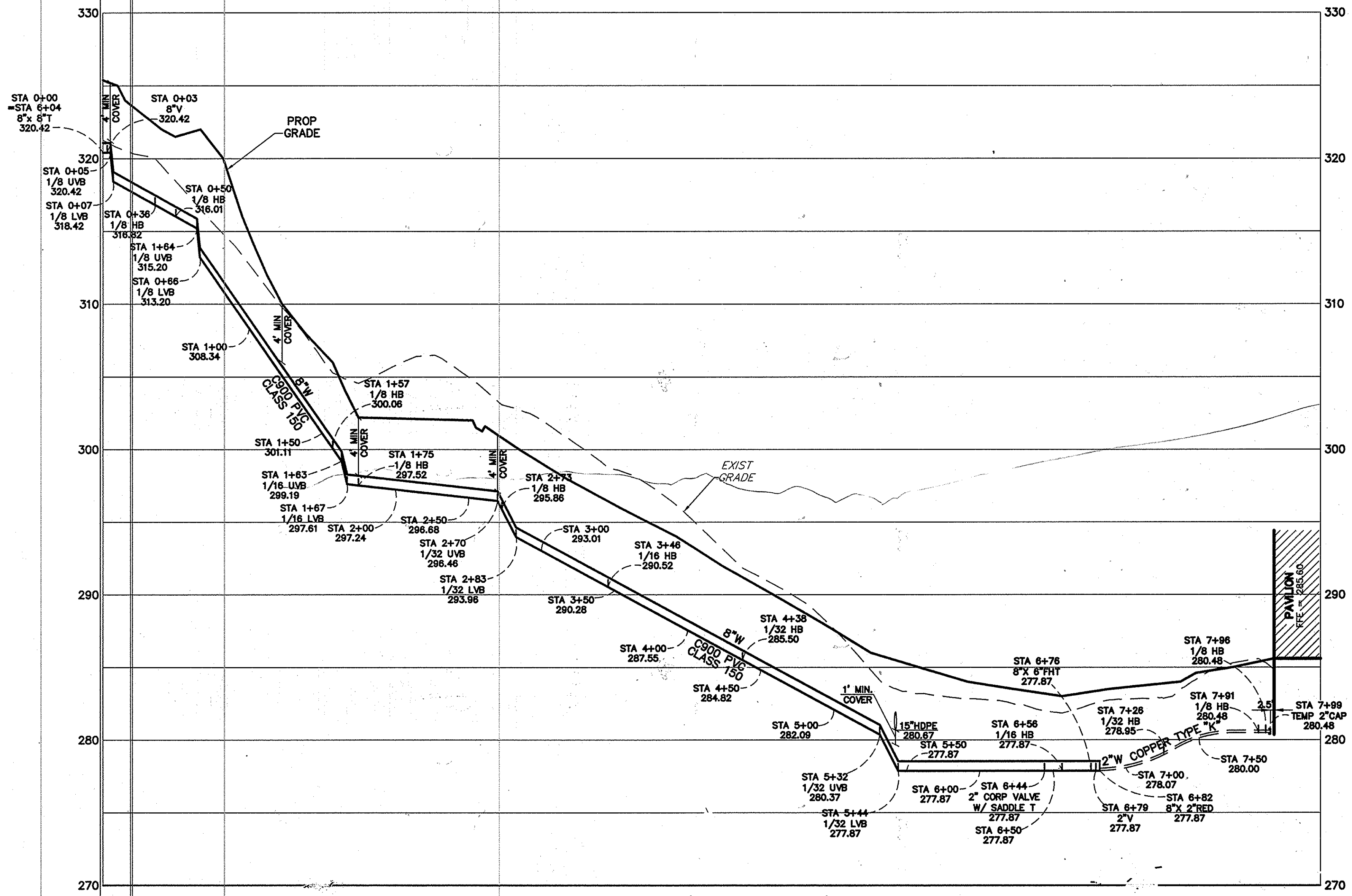
AS BUILTS 5/31/16

Robinson Nature Center
6692 Cedar Lane Election District No. 5 Howard County, Maryland
CAPITAL PROJECT #: 34-4587-D

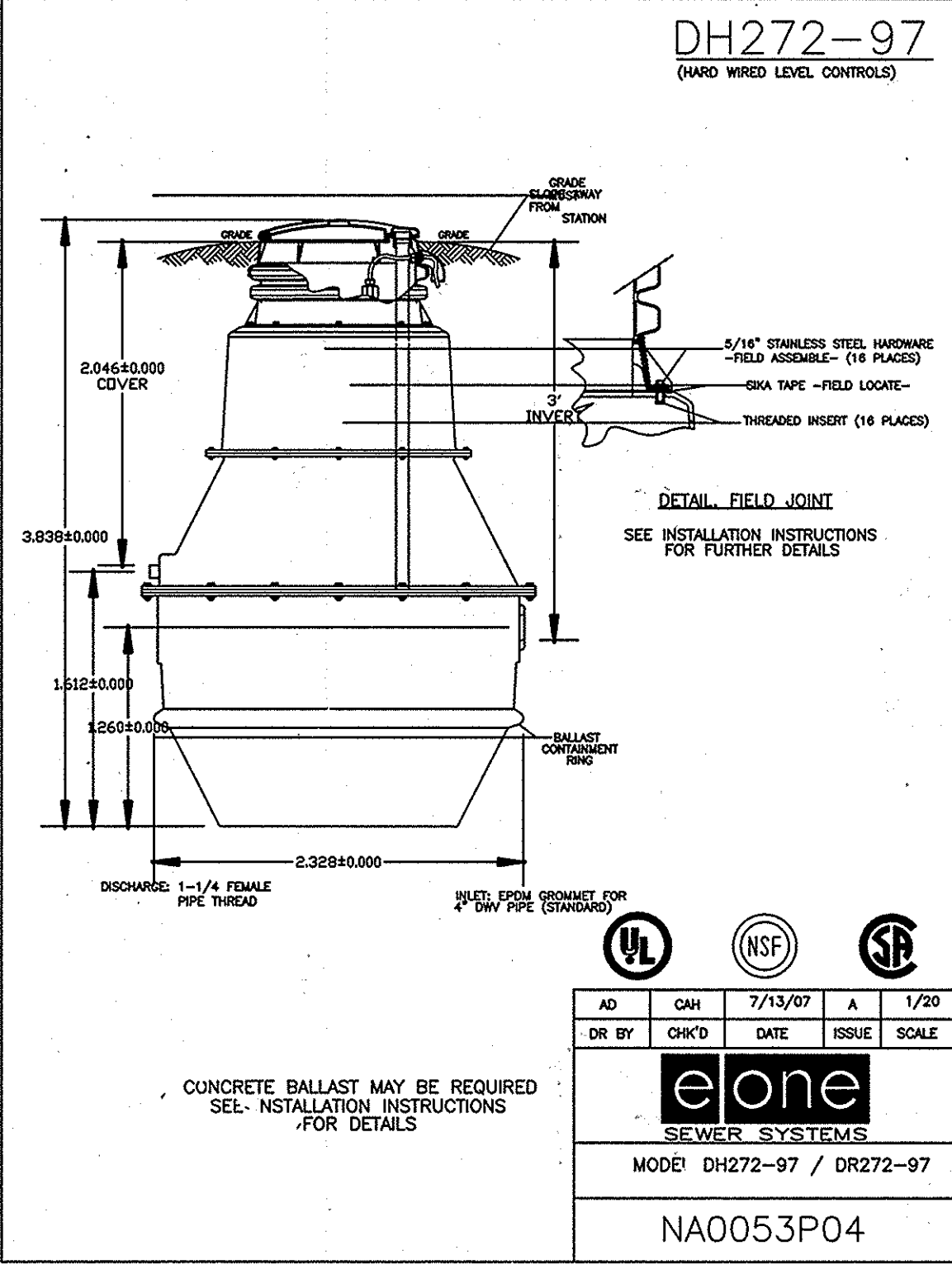
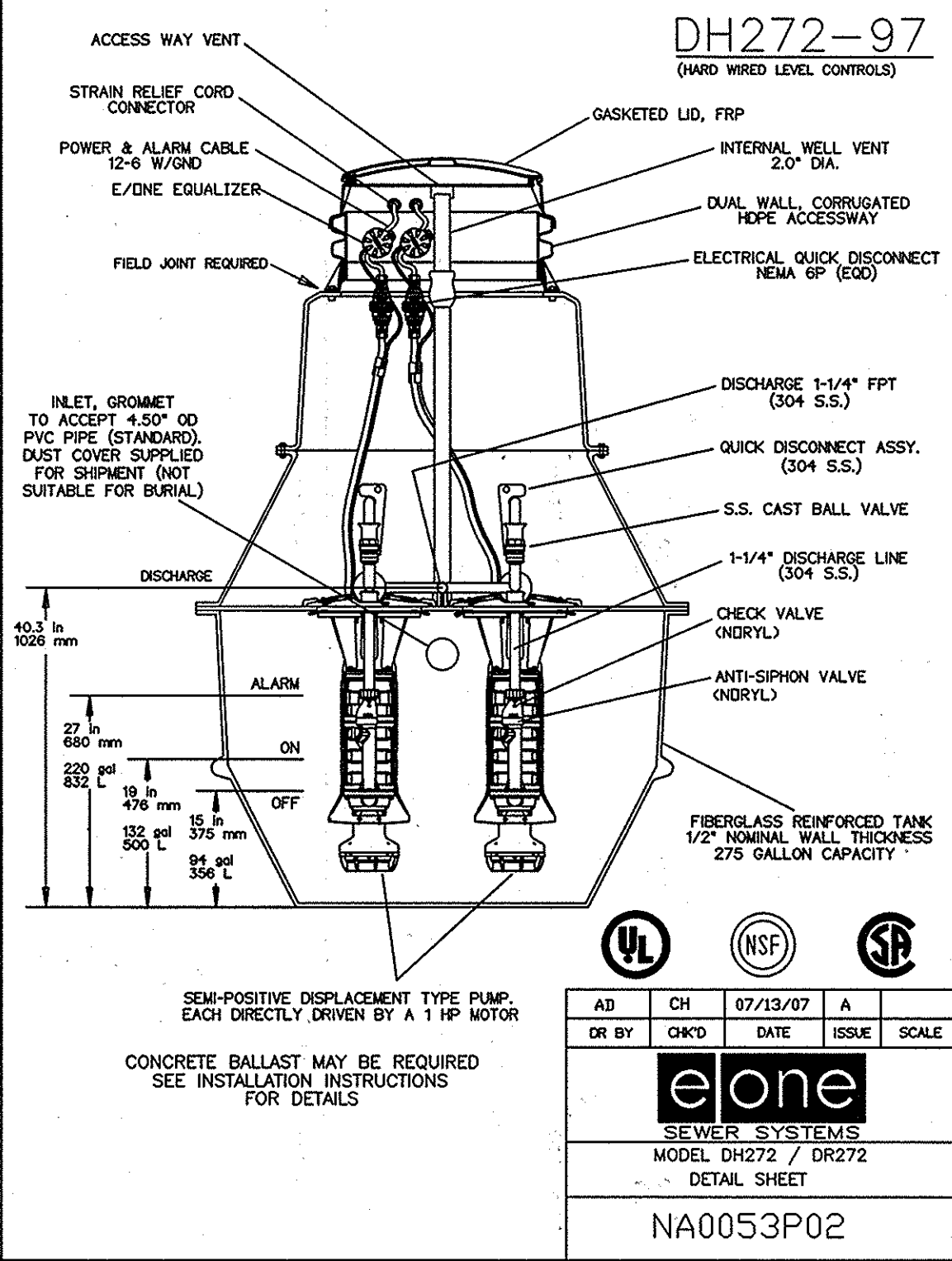
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SHEET NO. 3 OF 4
SDP-09-002



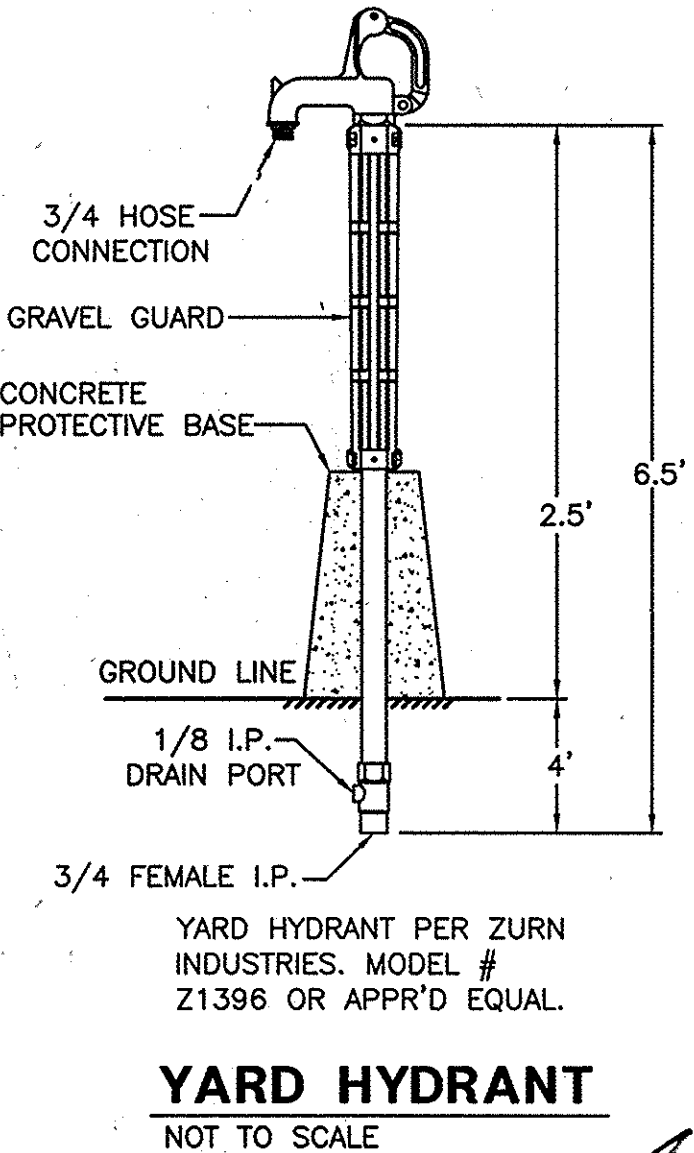
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: 26524
EXPIRATION DATE: 19 JULY 2009



WATERLINE PROFILE (STA 0+00 TO PAVILION)
SCALE: 1" = 50'(HORIZ) 1" = 5'(VERT)



LPSS - FORCE MAIN DESIGN CRITERIA	
NOTE: FORCE MAIN RECEIVES FROM BOTTOM FLOOR AND MIDLEVEL FLOORS ONLY	
DESCRIPTION	
DESIGN POPULATION (MAX OCCUPANCY OF LOWER & MID FLOORS)	441
AVERAGE DAILY FLOW TO GPD/PERSON	4,441 GPD 3.1 GPM
PEAKING FACTOR (APP. D)	4.0
DESIGN PEAK FLOW	12.4 GPM
C-FACTOR (PVC SDR-21)	140
PIPE DIAMETER	2"
C-FACTOR (PVC)	150
DIAMETER OF FORCE MAIN	1 1/2"
GRAVITY HEAD	30'
PIPE LENGTH	206'
PUMP DISCHARGE (E/ONE PUMP CURVE)	12 GPM
FRICITION HEAD AT DESIGN POINT	3.16'
TDH AT DESIGN POINT	33'
FM PIPE VELOCITY AT DESIGN PT	2.18 FPS



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

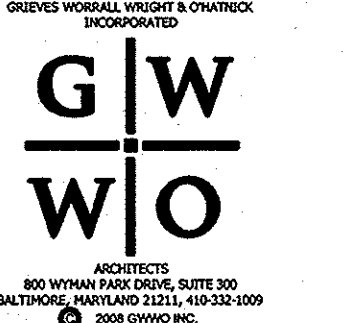
HOWARD SOIL CONSERVATION DISTRICT
DATE: 12/5/08
CHIEF, BUREAU OF UTILITIES

ADTEK ENGINEERS, INC.
CIVIL & STRUCTURAL ENGINEERING
97 Monocacy Boulevard, Unit H
Frederick, Maryland 21701-5516
Phone: 301-662-4408 Fax: 301-662-7484
www.adtekengineers.com

OWNER/DEVELOPER
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
COLUMBIA, MARYLAND 21045
ATTN: ABEYE GIRMA
TEL: 410.313.6143 FAX: 410.313.6161

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND
DATE: 12/24/08
CHIEF, DEVELOPMENT ENGINEERING DIVISION

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND
DATE: 12/24/08
CHIEF, DEVELOPMENT ENGINEERING DIVISION



DRN:	NO.	REVISION	DATE
KDL	5	Howard Co. Utilities Comments	10/10/08
KDL	4	Howard Co. Utilities Comments	10/6/08
KDL	3	Howard Co. Utilities Comments	10/1/08
SPB	2	Howard Co. Utilities Comments	9/23/08
SPB	1	Howard Co. Utilities Comments	8/27/08

SEWER PUMP DETAILS
600' SCALE MAP NO. 35
PARCEL NO. 87

Robinson Nature Center
6692 Cedar Lane Election District No. 5 Howard County, Maryland
CAPITAL PROJECT #: 34-4587-D

SCALE: NOT TO SCALE
SHEET NO. 4 OF 4

AS BUILT 5/31/16



I CERTIFY THAT THE INSTRUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NUMBER: 36524 EXPIRATION DATE: 19 JULY 2009