

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
6" WATER	161 LF.	160	D.I.P. CL 52	GRIFFIN PIPE
8" WATER MAIN	1436 LF.	1240	"	"
8" x 8" TEE	4 EA.	4EA.	D.I.P.	H.D. SUPPLY
8" 1/2 HB.	9 EA.	0EA	"	"
8" 1/2 HB.	5 EA.	5EA	"	"
8" 1/2 HB.	1 EA.	1EA	"	"
8" 1/2 V.B.	1 EA.	2EA	"	"
8" x 6" FHT	6 EA.	0EA	"	"
FIRE HYDRANT	6 EA.	0EA	D.I.P.	"
8" VALVE	11 EA.	11EA	"	"
6" VALVE	6 EA.	0EA	"	"

NAME OF UTILITY CONTRACTOR: HIGHLAN TURF INC.

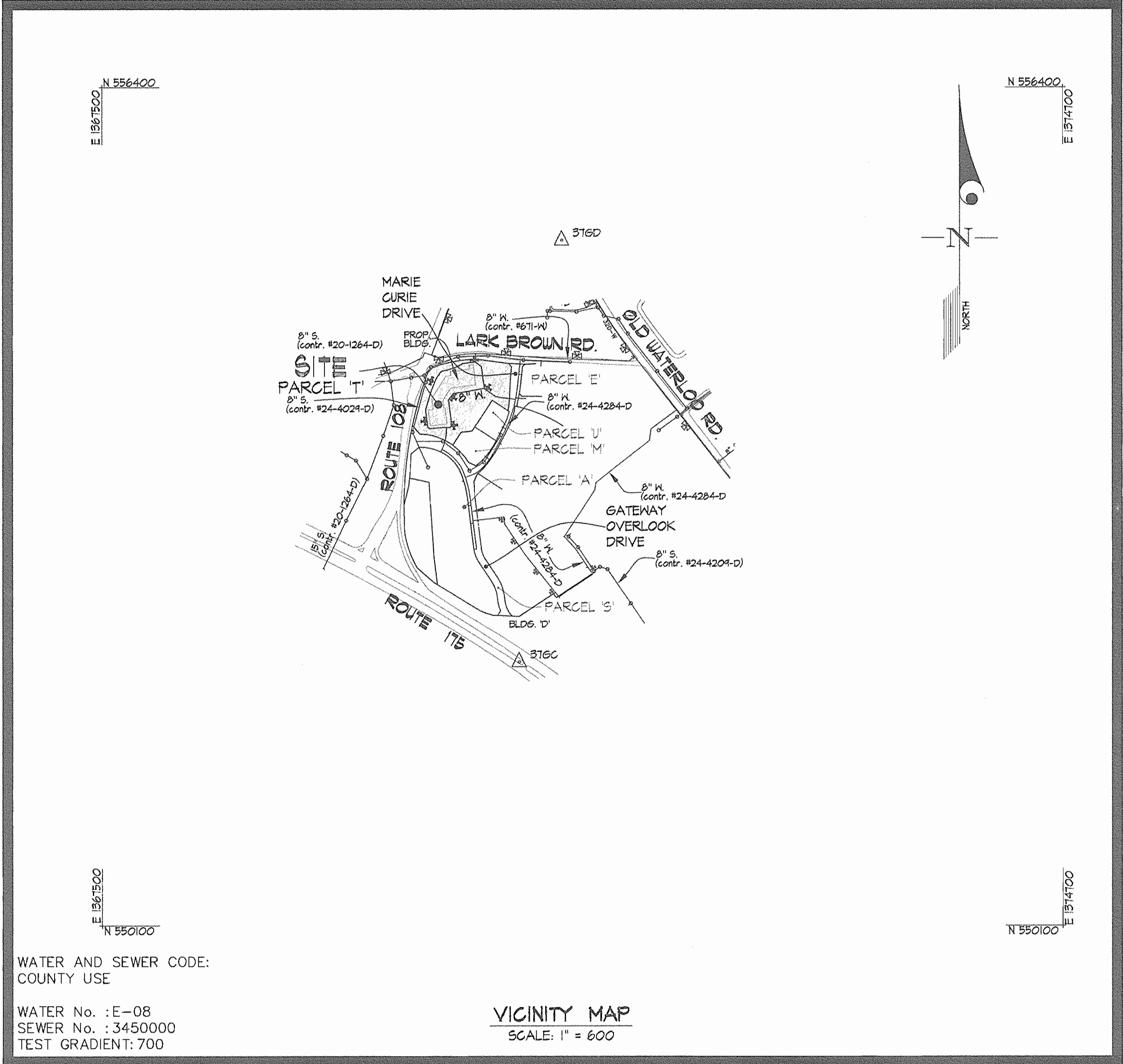
SURVEY AND DRAFTING DIV. CHECKBOX: AS-BUILT DATE:

PREPARED FOR:
 GENERAL GROWTH PROPERTIES
 HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044
 AL EDWARDS
 410-992-6000

BENCHMARK DESCRIPTIONS

CONTROL STATION 3160
 ELEVATION 531.855
 N 555250.141
 E 1370446.348

CONTROL STATION 316C
 ELEVATION 307.455
 N 552081.826
 E 1370625.818



WATER AND SEWER CODE:
 COUNTY USE

WATER No. : E-08
 SEWER No. : 3450000
 TEST GRADIENT: 700

VICINITY MAP
 SCALE: 1" = 600'

TYPE OF BUILDING	1 RETAIL
NUMBER OF UNITS	1
NUMBER OF S.H.C.'s	0
NUMBER OF W.H.C.'s	4
DRAINAGE AREA	LITTLE PATUXENT
TREATMENT PLANT	LITTLE PATUXENT

GENERAL NOTES

- PART I
- 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.
 - THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY DAFT MCGUINE WALKER, INC. DATED MAY 2003.
 - HORIZONTAL AND VERTICAL SURVEY CONTROLS:
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 316D AND 43A1 WERE USED FOR THIS PROJECT.
- 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 BRACING OF ADDITIONAL POLES ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED 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 ON THESE PLANS:
- | | |
|-----------------------------------|-------------------------------|
| AT&T | 1-800-252-1133 |
| BGE (CONTRACTOR SERVICES) | 410-880-4620 |
| BGE (UNDER GROUND DAMAGE CONTROL) | 410-885-1400 |
| BUREAU OF UTILITIES | 410-313-4400 |
| COLONIAL PIPELINE CO. | 410-795-1590 |
| MISS UTILITY | 1-800-251-7777 |
| STATE HIGHWAY ADMINISTRATION | 410-531-5533 |
| VERIZON | 1-800-743-0033 / 410-224-4210 |
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION AREA 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 18.11(a) OF THE HOWARD COUNTY CODE.
- PART II - WATER
- ALL MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS SHALL 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 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 INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
 - THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- PART III - SEWER
- THERE IS NO PUBLIC SEWER PROPOSED BY THIS PLAN. FOR PRIVATE SEWER INFORMATION REFER TO HOWARD COUNTY FILE NUMBER SDP-06-108.

CONTRACT No. 44-4372-D
 GATEWAY OVERLOOK
 PARCEL T
 HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS & WITH ROAD DRAWINGS PLAN F-05-05B; DRAWINGS FOR SEDIMENT & EROSION CONTROL.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

John K. Robertson 8/10/06
 SIGNATURE DATE

U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

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

APPROVED:
John K. Robertson 8/10/06
 HOWARD S.C.D. DATE

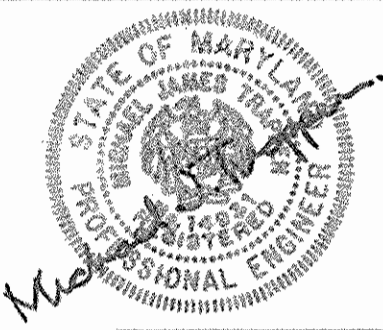
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

John K. Robertson 7-31-06
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF ZONING
 HOWARD COUNTY, MARYLAND

John K. Robertson 8/10/06
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLWGUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3000 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20886
 TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4188



DES: BJM/P&J			
DRN: BJM/P&J			
CHK: BJM			
DATE: MAY 2006	KQI	I	ASBUILT DATA ADDED
BY: NO			05/15/07
		REVISION	DATE

COVER SHEET
 SCALE: AS SHOWN

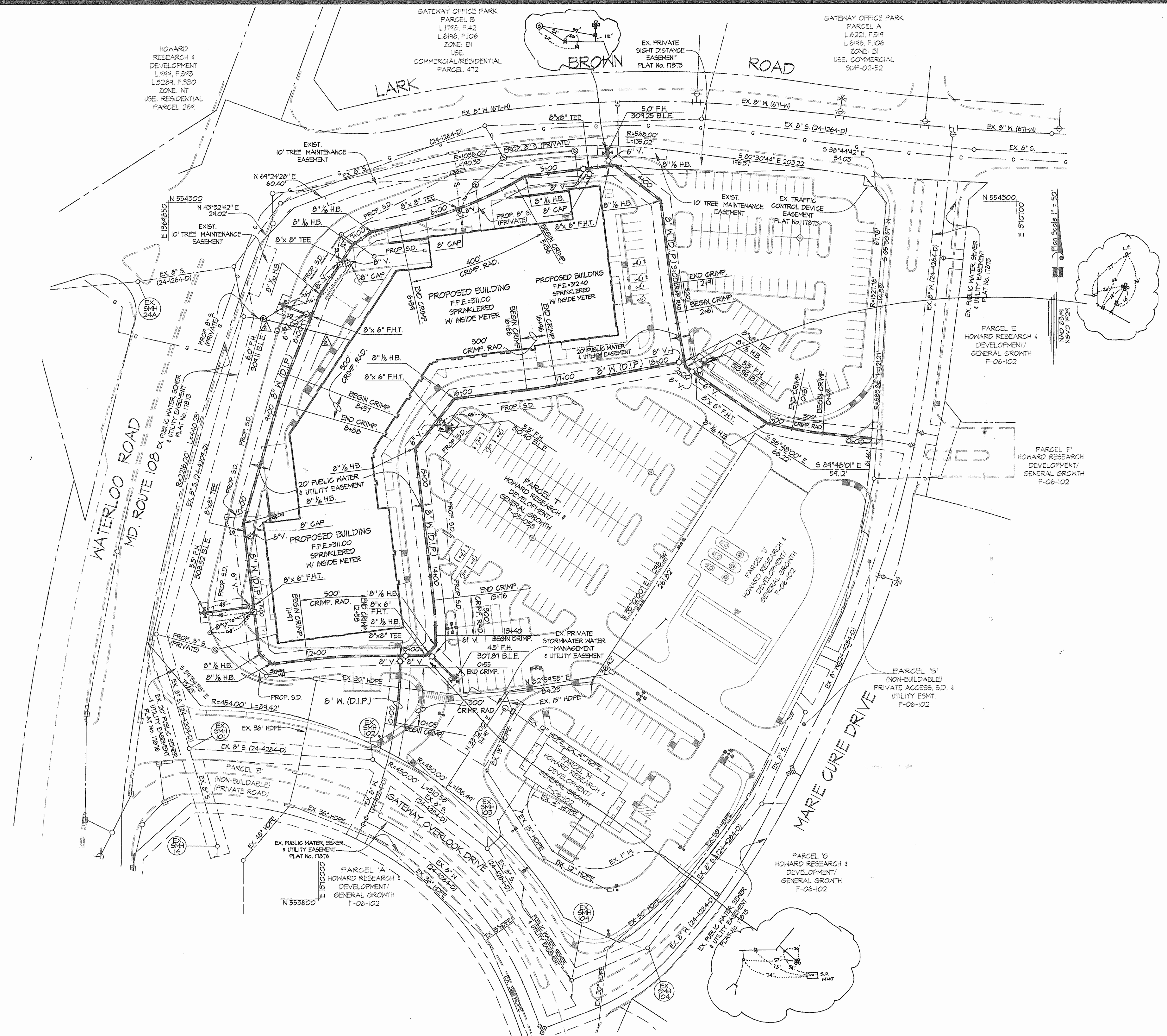
600' SCALE MAP NO. 42 BLOCK NO. 12

BENSON EAST
 PARCEL T
 HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT No. 6
 CONTRACT No. 44-4372-D

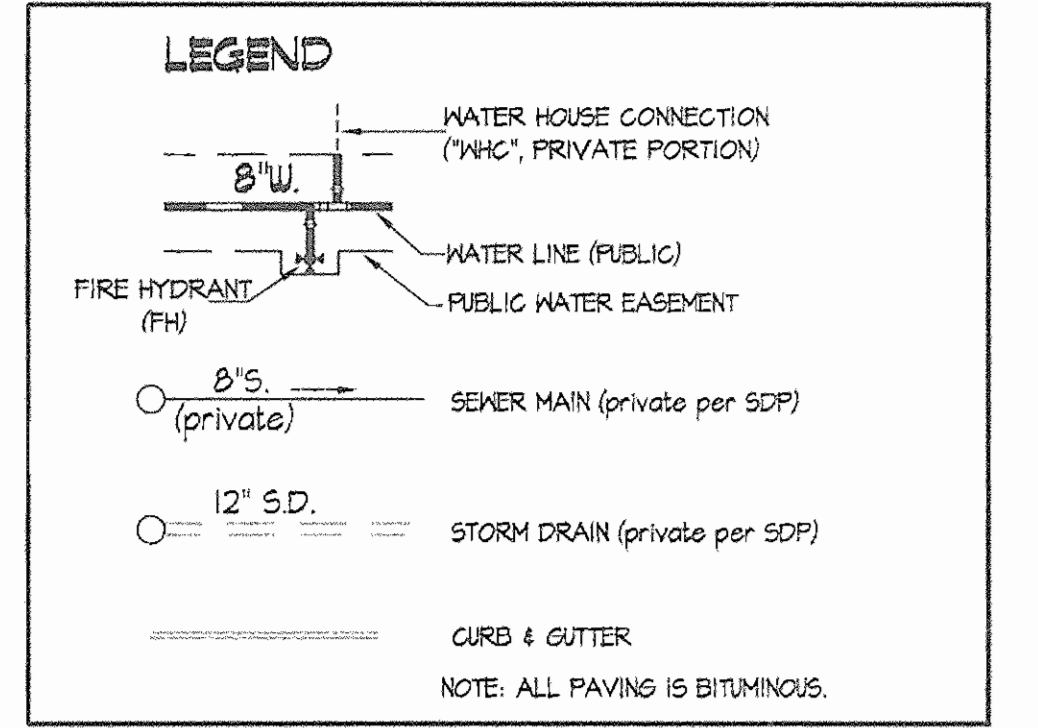
GLW FILE No. 05084

SCALE AS SHOWN

SHEET 1 OF 3



FITTING INFORMATION		
LOCATION	FITTING	NAD '83 COORDINATES
WATERLINE 'A'		
WM. STA. 1+05	8" x 6" FHT	N 554071.4516 E 1370444.8364
WM. STA. 1+42	8" x 6" FHT	N 554126.1862 E 1370379.0595
WM. STA. 2+05	8" x 6" FHT	N 554133.6446 E 1370368.1551
WM. STA. 2+11=STA. 18+26	8" x 8" TEE	N 554134.5454 E 1370367.0668
WM. STA. 3+74	8" x 6" HB	N 554301.1536 E 1370343.2517
WM. STA. 4+32	8" x 6" HB	N 554336.7162 E 1370291.5628
WM. STA. 4+38	8" x 6" FHT	N 554336.0263 E 1370291.5384
WM. STA. 4+54	8" x 8" TEE	N 554333.5486 E 1370271.2828
WM. STA. 5+23	8" x 6" HB	N 554325.7417 E 1370207.7168
WM. STA. 5+47	8" x 8" TEE	N 554243.2401 E 1370140.6491
WM. STA. 6+87	8" x 6" HB	N 554270.3466 E 1370054.1516
WM. STA. 7+10	8" x 6" HB	N 554251.1648 E 1370034.8384
WM. STA. 7+28	8" x 8" TEE	N 554242.0506 E 1370024.4504
WM. STA. 7+70	8" x 6" HB	N 554207.1082 E 1370002.0766
WM. STA. 7+94	8" x 6" FHT	N 554185.3150 E 1369943.2448
WM. STA. 10+73	8" x 6" HB	N 553971.5031 E 1369425.1394
WM. STA. 10+97	8" x 6" FHT	N 553843.8238 E 1369435.2817
WM. STA. 11+04	8" x 8" TEE	N 553882.1028 E 1369436.7031
WM. STA. 11+46	8" x 6" HB	N 553845.6542 E 1369441.1480
WM. STA. 11+61	8" x 6" HB	N 553835.4924 E 1369435.5150
WM. STA. 12+40	8" x 8" TEE	N 553844.0865 E 1370081.4527
WM. STA. 13+15	8" x 6" HB	N 553844.0857 E 1370107.2464
WM. STA. 13+30	8" x 6" HB	N 553854.2685 E 1370117.4717
WM. STA. 13+36	8" x 6" FHT	N 553860.2894 E 1370117.4718
WM. STA. 15+24	8" x 6" HB	N 554052.1084 E 1370097.2311
WM. STA. 15+66	8" x 6" FHT	N 554081.5011 E 1370120.1435
WM. STA. 15+93	8" x 6" HB	N 554102.3494 E 1370136.5175
WM. STA. 18+26=STA. 2+11	8" x 8" TEE	N 554134.5454 E 1370367.0668
	FIRE HYDRANT	N 554137.1264 E 1370387.0057
	FIRE HYDRANT	N 554341.0587 E 1370284.4386
	FIRE HYDRANT	N 554196.4755 E 1369465.5036
	FIRE HYDRANT	N 553887.8401 E 1369886.1460
	FIRE HYDRANT	N 553821.4256 E 1370136.0719
	FIRE HYDRANT	N 554072.8842 E 1370131.2233

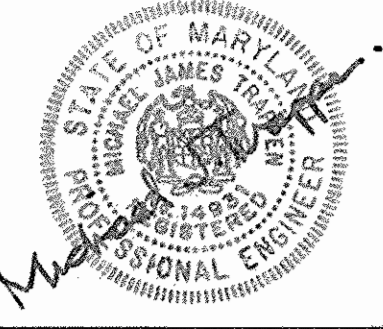


GLW FILE NO. 05084

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
R. H. B... 7-31-06
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
... 8/15/06
CHIEF, DEVELOPMENT ENGINEERING DIVISION

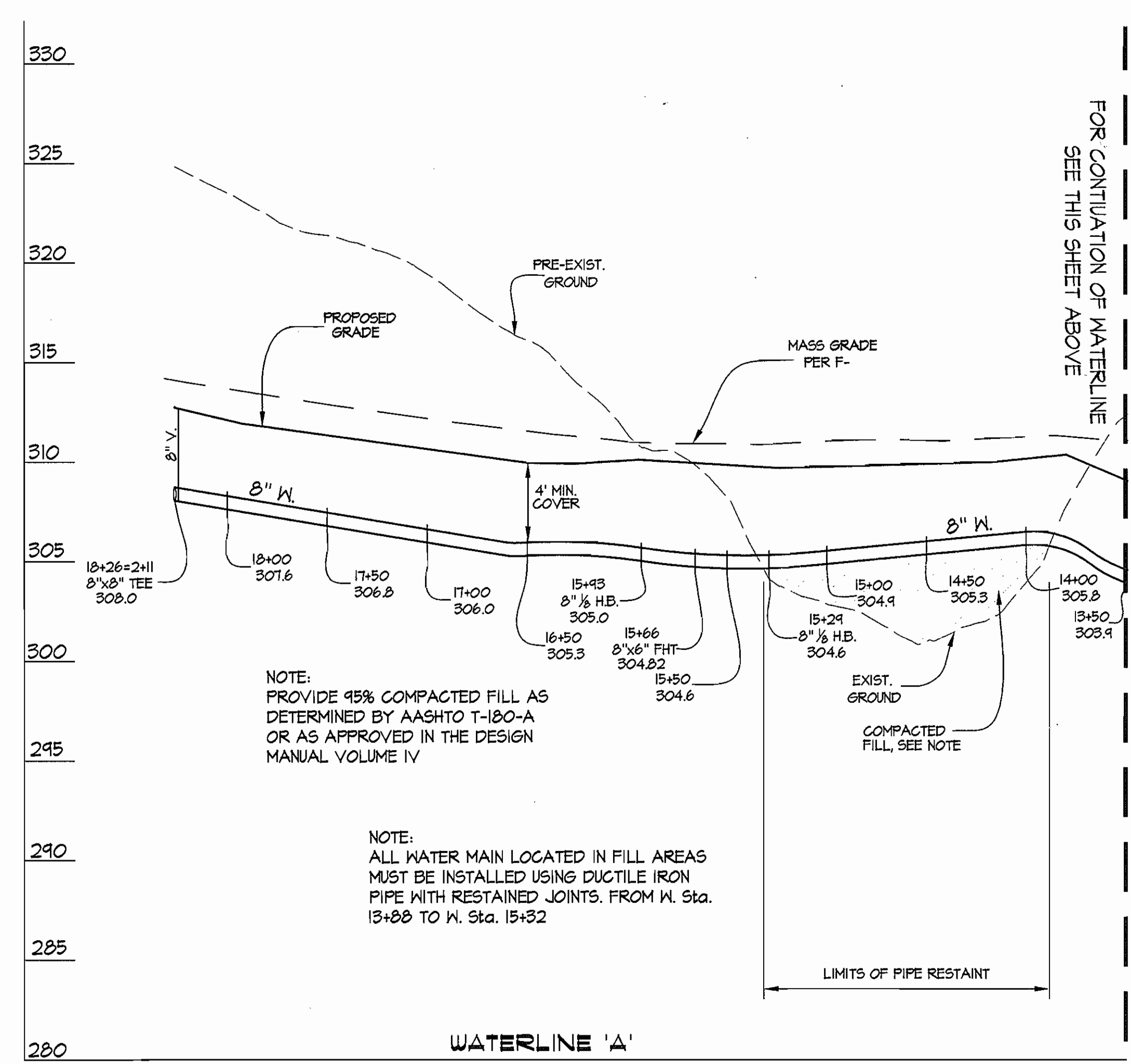
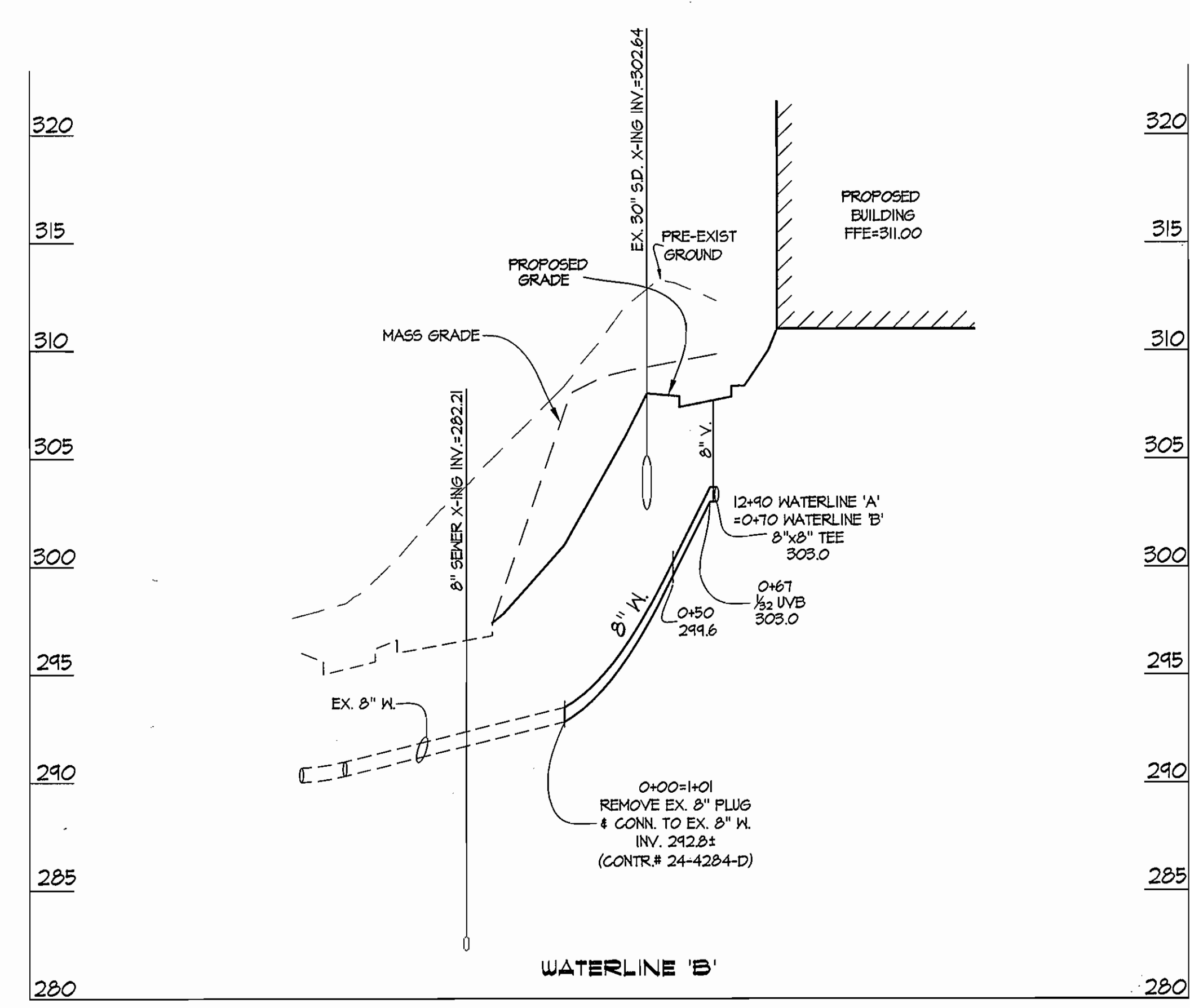
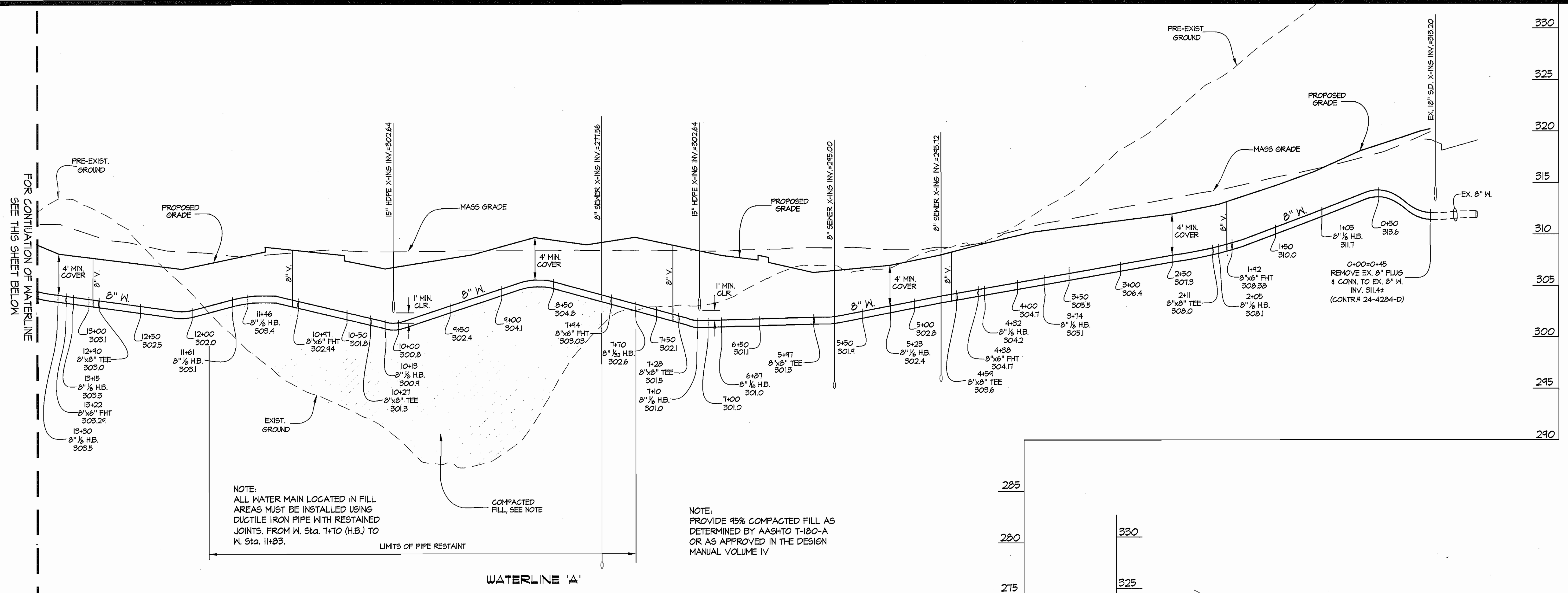
GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20886
TEL: 301-421-4024 FAX: 301-989-2524



DES:	OOT/MSJ			
DRN:	OOT/MSJ			
CHK:	BUM	W&J	Rev alignment of private MHC.	4/11/07
MAY DATE:	2006	K&I	As-built Data Added	02/14/07
BY	NO		REVISION	DATE

WATER and SEWER EXTENSION PLAN
SCALE: 1" = 50'
600' SCALE MAP NO. 42 BLOCK NO. 12

BENSON EAST PARCEL T
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 6
CONTRACT No. 44-4372
SCALE 1"=50'
SHEET 2 OF 3



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Ruth B...</i> 7-31-06 CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND <i>...</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186		DES: QOT/1/6-J																
				DRN: QOT/1/6-J																
				CHK: EJM/1/6-J																
				DATE: MAY, 2006	BY	NO	REVISION	DATE	600' SCALE MAP NO. 42		BLOCK NO. 12		WATER and SEWER EXTENSION PLAN		BENSON EAST PARCEL T		SCALE 1"=50'			
									CONTRACT No.44-4372-D		ELECTION DISTRICT No. 6		SHEET 3 OF 3		GLW FILE #05084 FW-T-PROFS.dwg					