

NOTE: THE EXISTING WELLS AND SEPTIC SYSTEM(S) MUST BE PROPERLY ABANDONED PRIOR TO RELEASE OF THE BONDS. ONCE THE HEALTH DEPARTMENT HAS RECEIVED THE WELL ABANDONMENT REPORT FROM A LICENSED WELL DRILLER AND WRITTEN DOCUMENTATION OF THE SEPTIC SYSTEM ABANDONMENT, THE DEPARTMENT OF HEALTH WILL NOTIFY REAL ESTATE SERVICES THAT THE WORK HAS BEEN COMPLETED.

BENCH MARKS-(NAD'83)
 30FA EL. 441.82'
 STANDARD CONCRETE MONUMENT ON NORTH SIDE OF MD 108, 54.6' EAST OF 6' EVERGREEN, 42.6' WEST OF END OF CURB NOSDOWN, AND 60.8' NORTH OF 4"x4" ORANGE POST R/W MARKER.
 NORTHING 568621.34 EASTING 1361563.98
 30IA EL. 499.82'
 STANDARD CONCRETE MONUMENT ON NORTH SIDE OF MD 108, 37.3' SOUTH EAST OF GAE POLE #501371, 97.1' SOUTH WEST OF SD INLET ALONG WEST SIDE OF HIGH SCHOOL EXIT, 49' WEST OF END OF SIDEWALK.
 NORTHING 56750.96 EASTING 1364842.60

WATER AND SEWER COUNTY CODE
 WATER CODE: FOA
 SEWER CODE: 5665400
 TEST GRADIENT: 780

TYPE OF BUILDING: GENERAL OFFICE
 NUMBER OF PARCELS: 1
 NUMBER OF SHCS: 2
 NUMBER OF WHCS: 2
 DRAINAGE AREA: PATAPSCO RIVER
 TREATMENT PLANT: PATAPSCO WASTE WATER TREATMENT PLANT

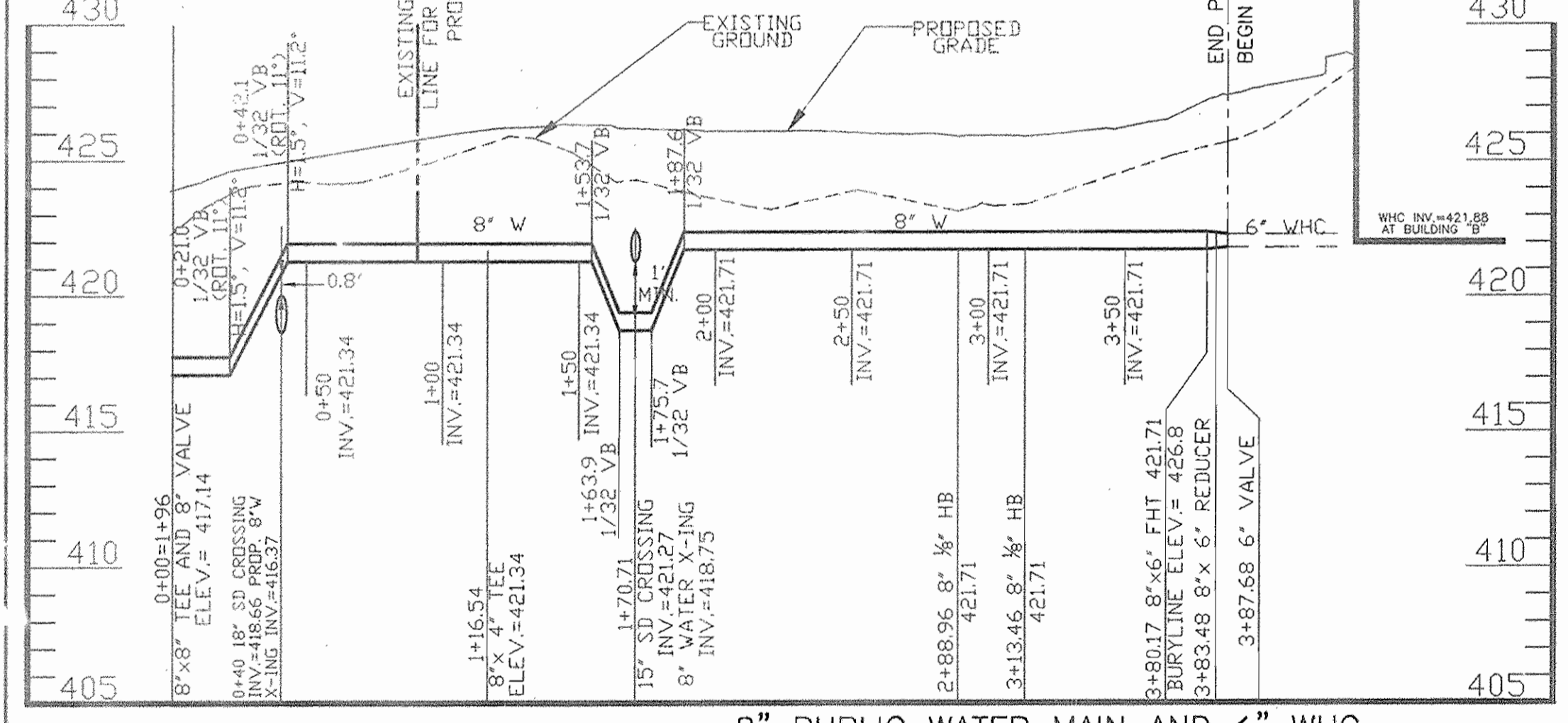
GENERAL NOTES

- APPROXIMATE LOCATION 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 SURVEYS WERE PERFORMED ON OR ABOUT JULY AND AUGUST, 2005 BY BENCHMARK ENGINEERING, INC. AND ARE SHOWN AT 2' INTERVALS.
- ALL HORIZONTAL CONTROLS ARE BASED ON NAD 83 COORDINATES, NAD 83/91. ALL VERTICAL CONTROLS ARE BASED ON NAVD 88.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12" CLEAR ALLIES 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 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 DRAWINGS, 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 'E' 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 THE CONTRACTOR'S EXPENSE.
- 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
 - BOBE (CONSTRUCTION SERVICES) 410-850-4620
 - BOBE (EMERGENCY) 410-850-1400
 - MD. CO. BUREAU OF UTILITIES 410-313-8000
 - COLONIAL PIPELINE CO. 410-795-1390
 - MISS UTILITY 410-777-7777
 - STATE HIGHWAY ADMINISTRATION 410-211-2533
 - VERIZON 1-800-743-7033/410-224-9210
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE TO BE EXCAVATED OR DAMAGED BY THE CONSTRUCTION.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF REMOVAL. 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) 312-7450 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 OPM REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

- SEWER**
- ALL SEWER MAINS SHALL BE DIP OR P.V.C. UNLESS OTHERWISE NOTED.
 - THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2' - 0" OF EXTERIOR MANHOLE WALL.
 - 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 WITH IN PLAN AND PROFILE SHALL HAVE WATERPROOF FRAME AND COVER. STANDARD DETAIL C-52. WHERE WATERPROOF FRAME AND COVER IS USED, SET TOP OF FRAME 1' - 0" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - HOUSING WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
 - ALL MANHOLES SHOWN ON THESE PLANS SHALL BE PRE-CAST UNLESS OTHERWISE NOTED. ALL PRE-CAST MANHOLES MUST COMPLY WITH THE HOWARD COUNTY SPECIFICATIONS AND STANDARDS.

- WATER**
- ALL WATER MAINS TO BE C-900 PVC 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 1001 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.
 - CONTRACT TO REMOVE AND SALVAGE ALL ABANDONED PIPE, FITTINGS, VALVES, VALVE BOXES AND FIRE HYDRANTS, IF THEIR USE APPEARS PRACTICAL OTHERWISE, THE CONTRACTOR IS TO DISPOSE OF THE ITEMS OFFSITE.

NOTE: SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN O6-065.



8" PUBLIC WATER MAIN AND 6" WHC
 SCALE: HORIZONTAL 1" = 50' VERTICAL 1" = 5'

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
8" C-900 PVC WATER MAIN	963 L.F.	956 L.F.	C-900PVC	NATIONAL
6" C-900 PVC WATER MAIN	44 L.F.	N/A	N/A	N/A
2" C-900 PVC WHC	82 L.F.	N/A	N/A	N/A
6" C-900 PVC WHC	48 L.F.	69.0 L.F.	C-900PVC	NATIONAL
FIRE HYDRANT	3 EA.	3EA		MUELLER
6" WATER VALVE	3 EA.	4EA.	RSOR GATE VALVE	MUELLER CO.
8" WATER VALVE	3 EA.	3EA.		
8" PVC SEWER MAIN	937 L.F.	1,638 L.F.	35P.V.C.	NATIONAL
4" PVC SHC	88 L.F.	N/A	N/A	N/A
4" PVC SHC	56 L.F.	N/A	N/A	N/A

NAME OF UTILITY CONTRACTOR: JFC CONTRACTOR CTY. SUB CONTRACTOR
 SURVEY AND DRAFTING DIVISION AS-BUILT DATE: 9/8/07

HOWARD SOIL CONSERVATION DISTRICT:
 REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Jim Meyer 10/2/06
 NATURAL RESOURCES CONSERVATION DISTRICT

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

John R. Blanton 10/2/06
 HOWARD SOIL CONSERVATION DISTRICT

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER SITE DEVELOPMENT PLANS SDP-06-065

OWNER/DEVELOPER:
 WOODLANDS LLC.
 700 KENILWORTH DRIVE
 TOWSON, MD 21204
 410.995.0015

PLAN
 SCALE: 1" = 50'

NOTE: WATER METERS SHALL HAVE INTERIOR SETTINGS

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Ruth Ben 11-9-06
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

Asst. DATE
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

BENCHMARK
 ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.
 2840 BALTIMORE AVENUE, SUITE 418
 ELLSWORTH CITY, MARYLAND 21043
 PHONE: 410-465-6105 FAX: 410-465-6644

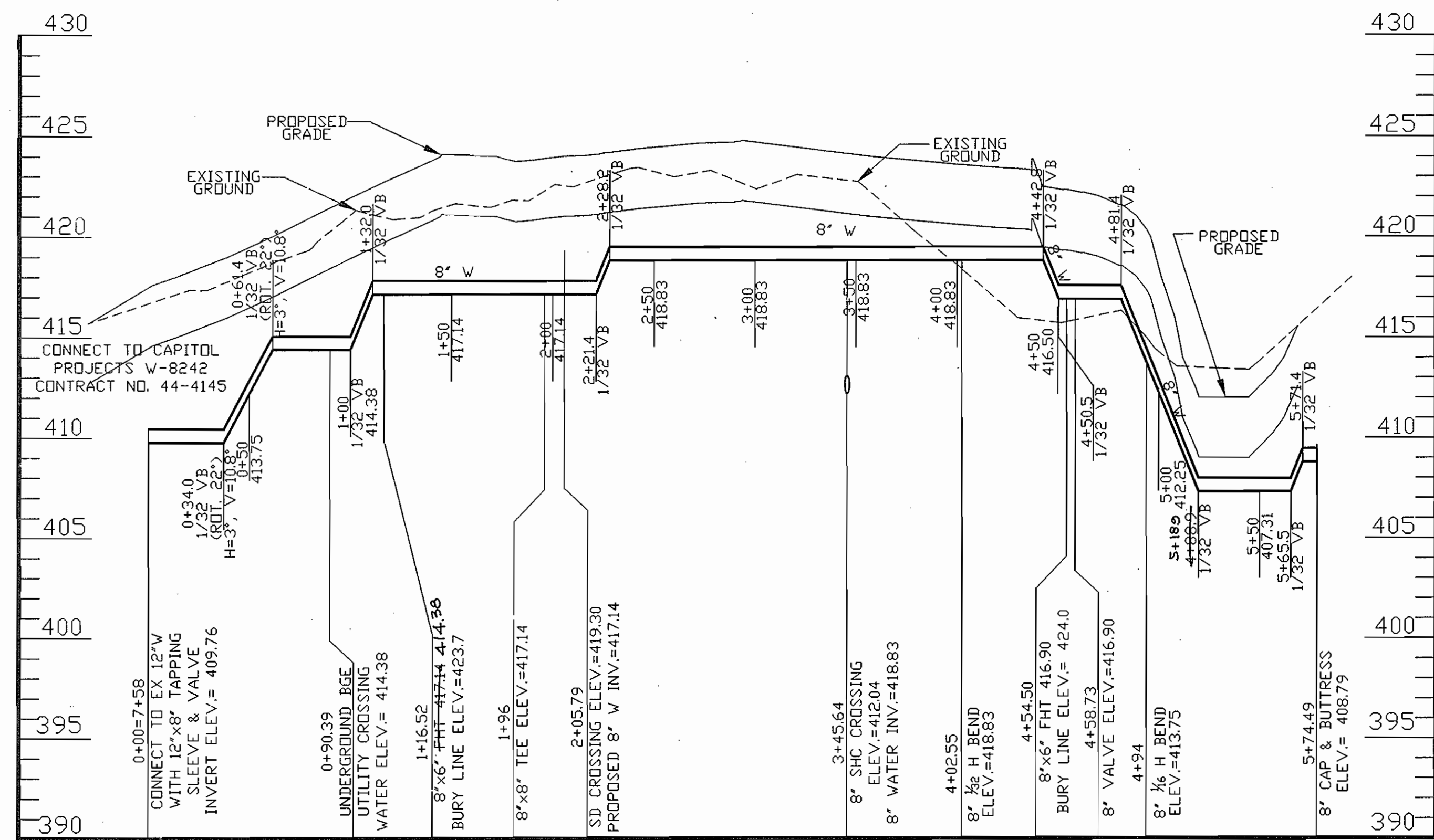
DES:	BFC				
DRN:	BFC				
CHK:	DAM	BFC	3	ADD SAC PARCEL 'B'	7/8/07
		KCI	2	ADD AS-BUILT DATA SHOWN	10/2/07
		EDD	1	ADD WELL & SEPTIC ABANDONMENT NOTE & 2" WHC	4-28-07
DATE:	9/26/06	BY:	NO.	REVISIONS	DATE

FINAL
 WATER AND SEWER PLAN
 AND WATER PROFILE

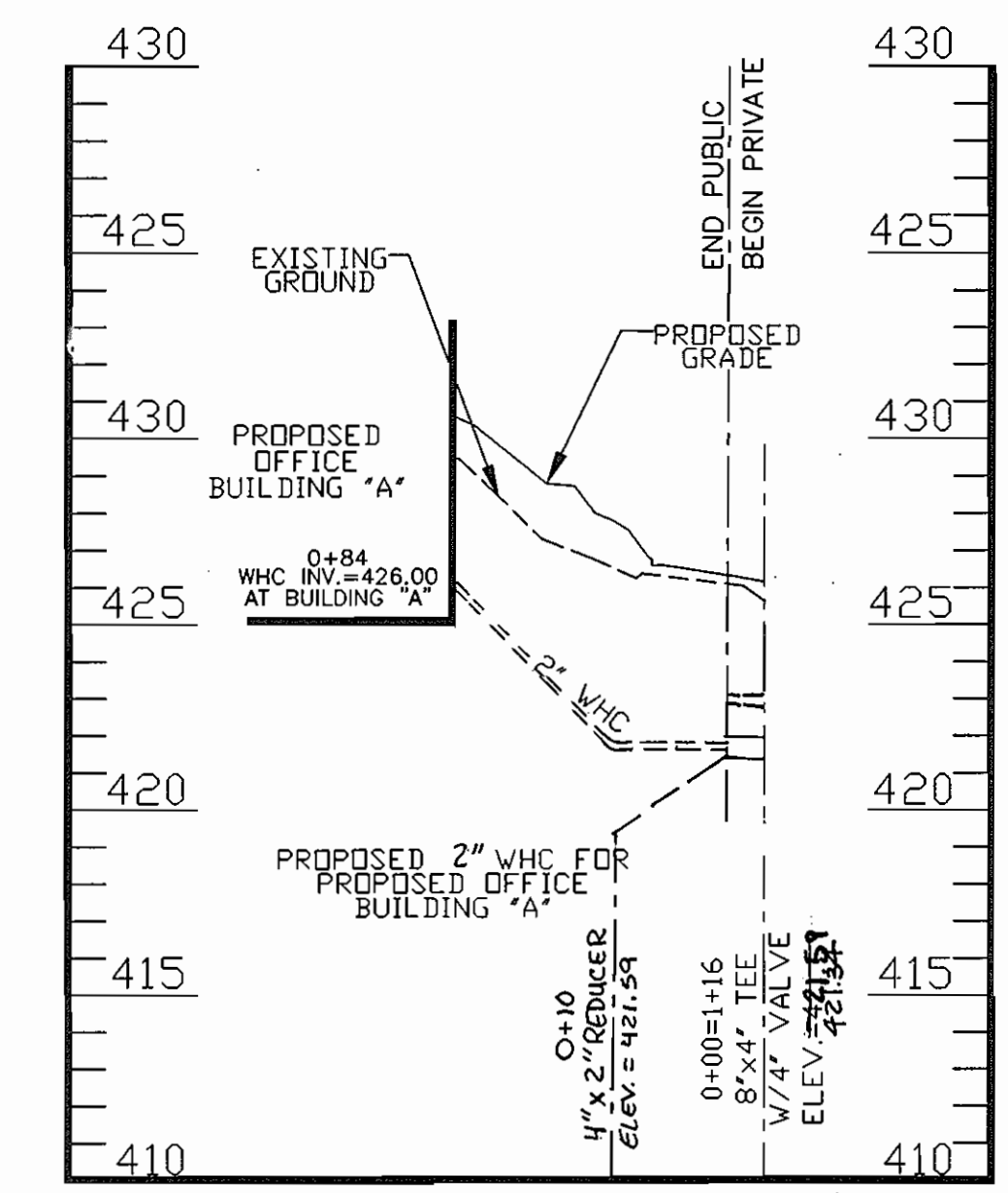
600 SCALE MAPS: BLOCKS:

WOODLANDS PROPERTY
 PARCEL A
 ELECTION DISTRICT NO. 1
 CONTRACT NO. 24-4368-D

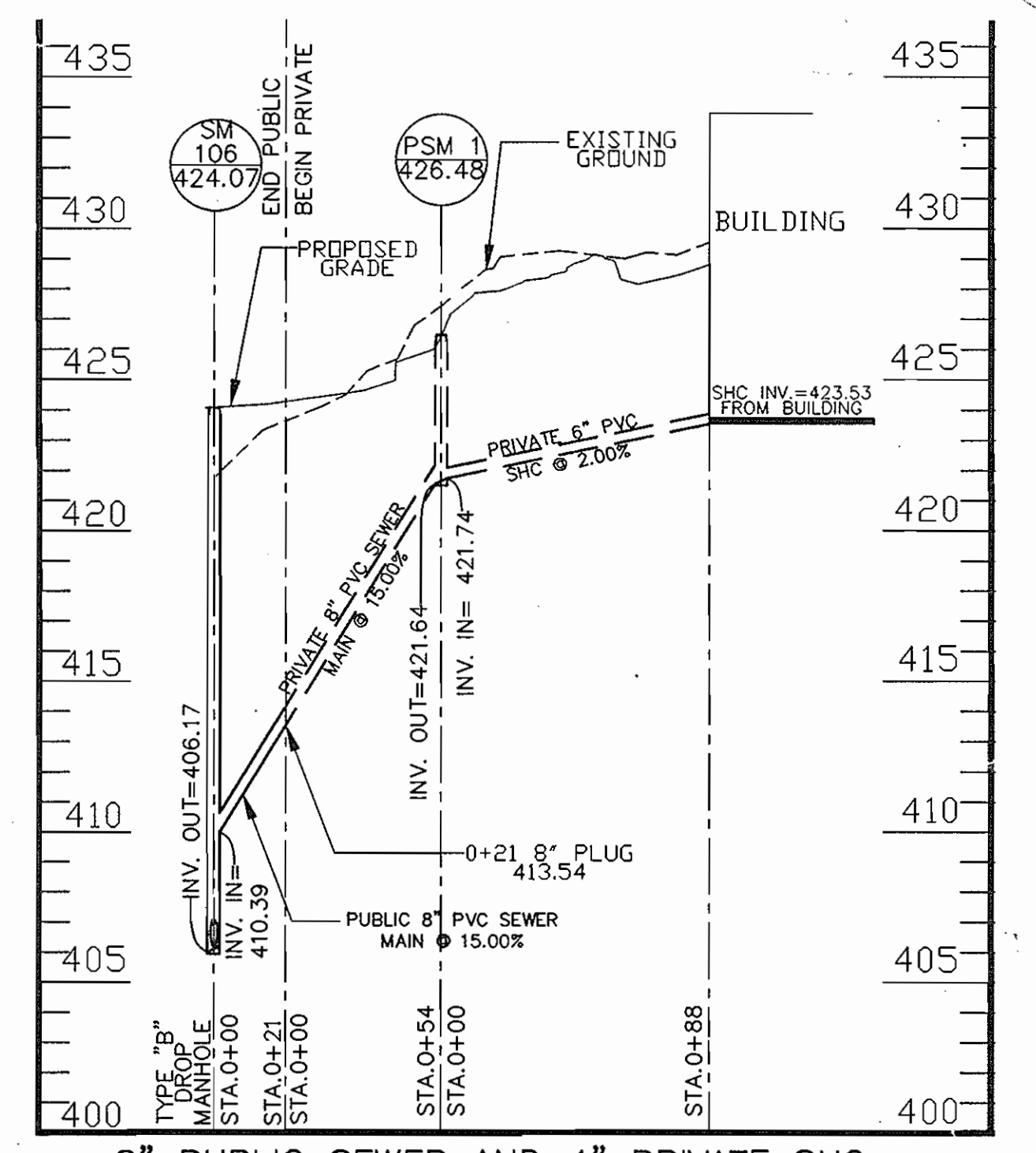
SCALE: AS SHOWN
 SHEET NO. 1 OF 4



8" PUBLIC WATER MAIN
SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'

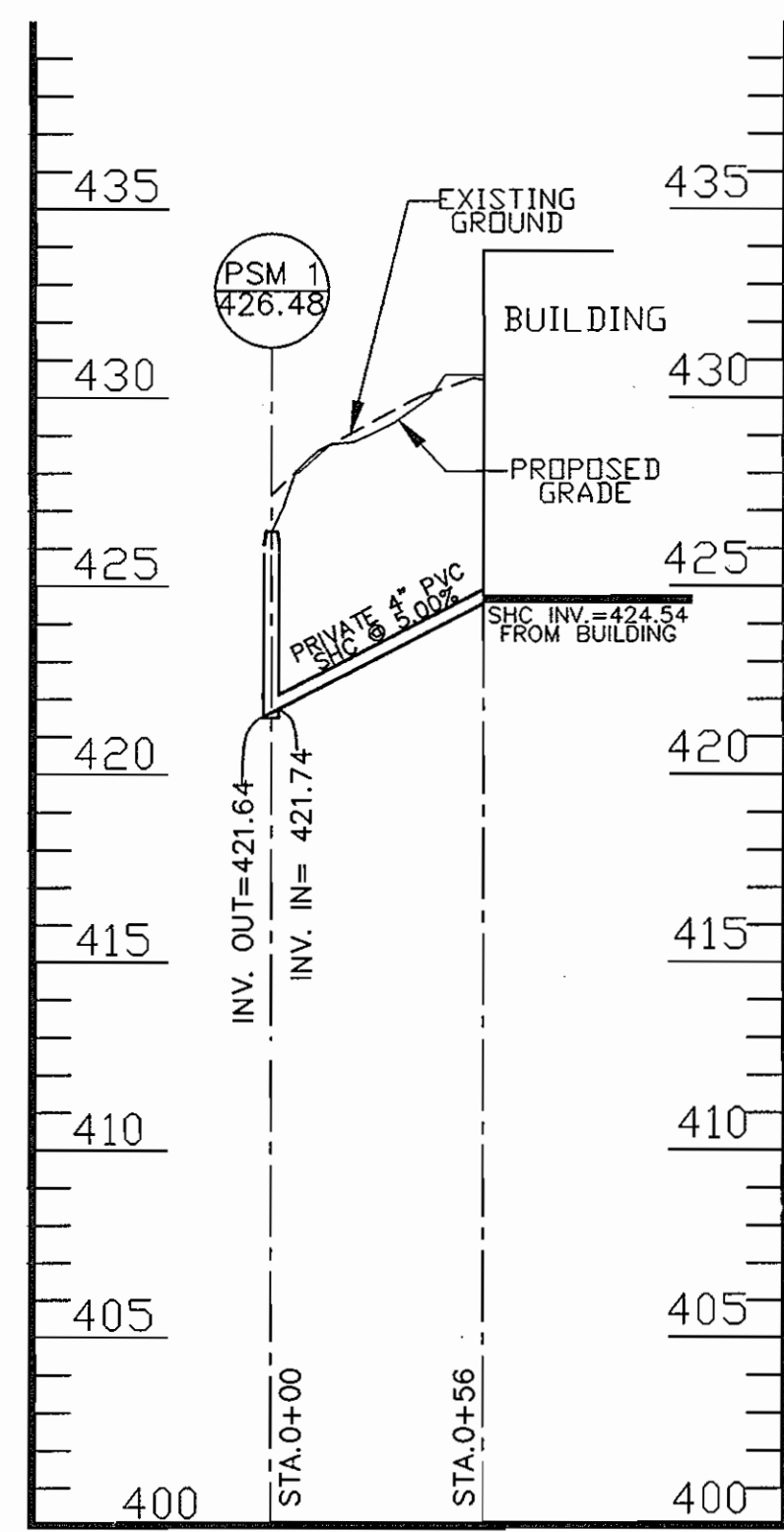


2" WATER HOUSE CONNECTION FOR BUILDING A
SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'

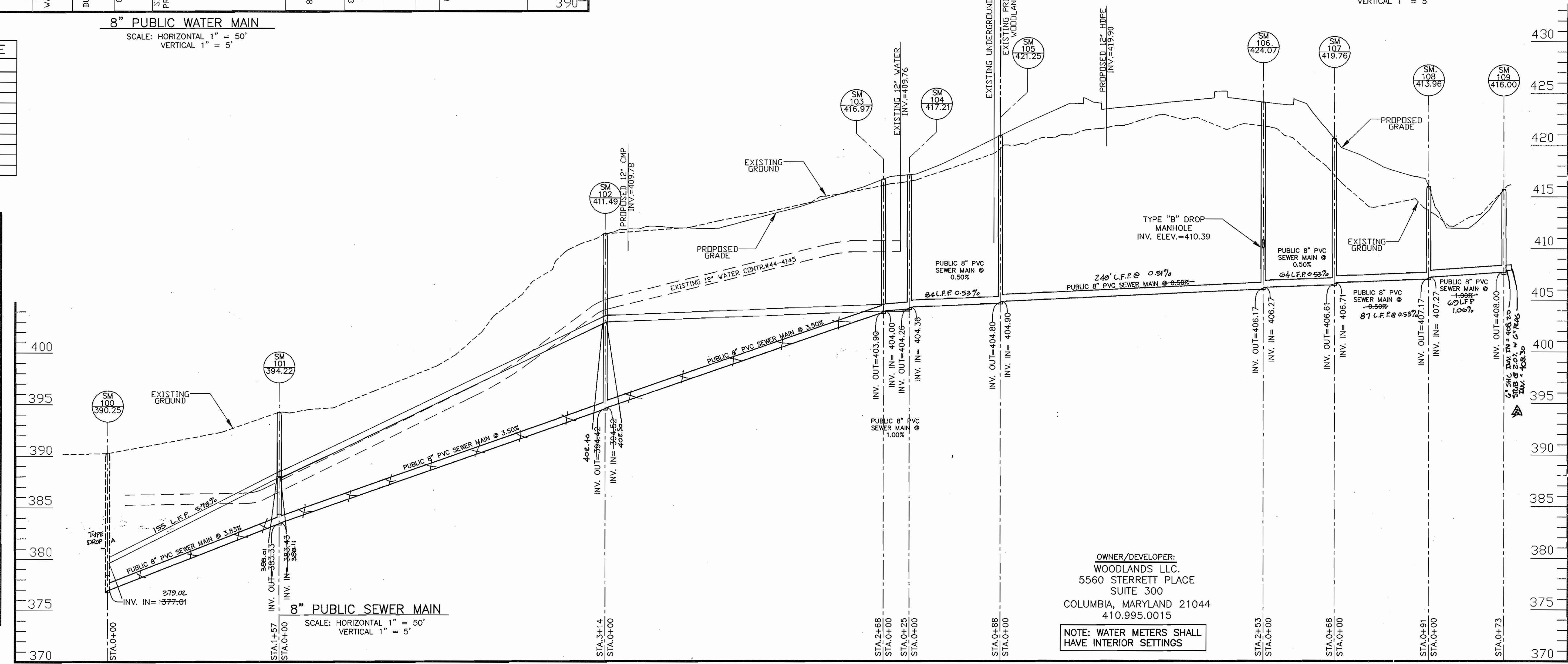


8" PUBLIC SEWER AND 4" PRIVATE SHC
SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'

SM NO.	NORTHING	EASTING
1	571,648.15	1,360,798.53
2	571,602.07	1,361,108.93
3	571,380.98	1,361,260.68
4	571,356.57	1,361,254.96
5	571,285.29	1,361,305.98
6	571,076.56	1,361,448.90
7	571,019.96	1,361,487.57
8	570,958.17	1,361,553.96
9	570,898.13	1,361,594.97
10	571,098.53	1,361,520.53



4" PRIVATE SHC
SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'



8" PUBLIC SEWER MAIN
SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'

OWNER/DEVELOPER:
WOODLANDS LLC.
5560 STERRETT PLACE
SUITE 300
COLUMBIA, MARYLAND 21044
410.995.0015

NOTE: WATER METERS SHALL
HAVE INTERIOR SETTINGS

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

R. J. ... 11-9-06
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

[Signature] 11/16/06
CHIEF, DEVELOPMENT ENGINEERING DIVISION

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.
9480 BALTIMORE NATIONAL PIKE A SUITE 418
ELICOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 FAX: 410-465-6644

[Signature] 9/27/06

DES:	BFC				
DRN:	BFC				
CHK:	DAM	BFC	3	ADD SHC PARCEL 'B'	7/18/07
		KCT	2	AS-BUILT DATA SHOWN	8/26/07
DATE:	9/26/06	EDD	1	REVISE 4" WHC PROFILE TO 2" AND SHOW 4x2 REDUCER	4-20-07
BY:		NO.		REVISIONS	

FINAL
WATER AND SEWER PROFILES

600 SCALE MAPS: BLOCKS:

WOODLANDS PROPERTY
PARCEL A
ELECTION DISTRICT NO. 1
CONTRACT NO. 24-4368-D

SCALE:
AS SHOWN
SHEET NO.
2 OF 4