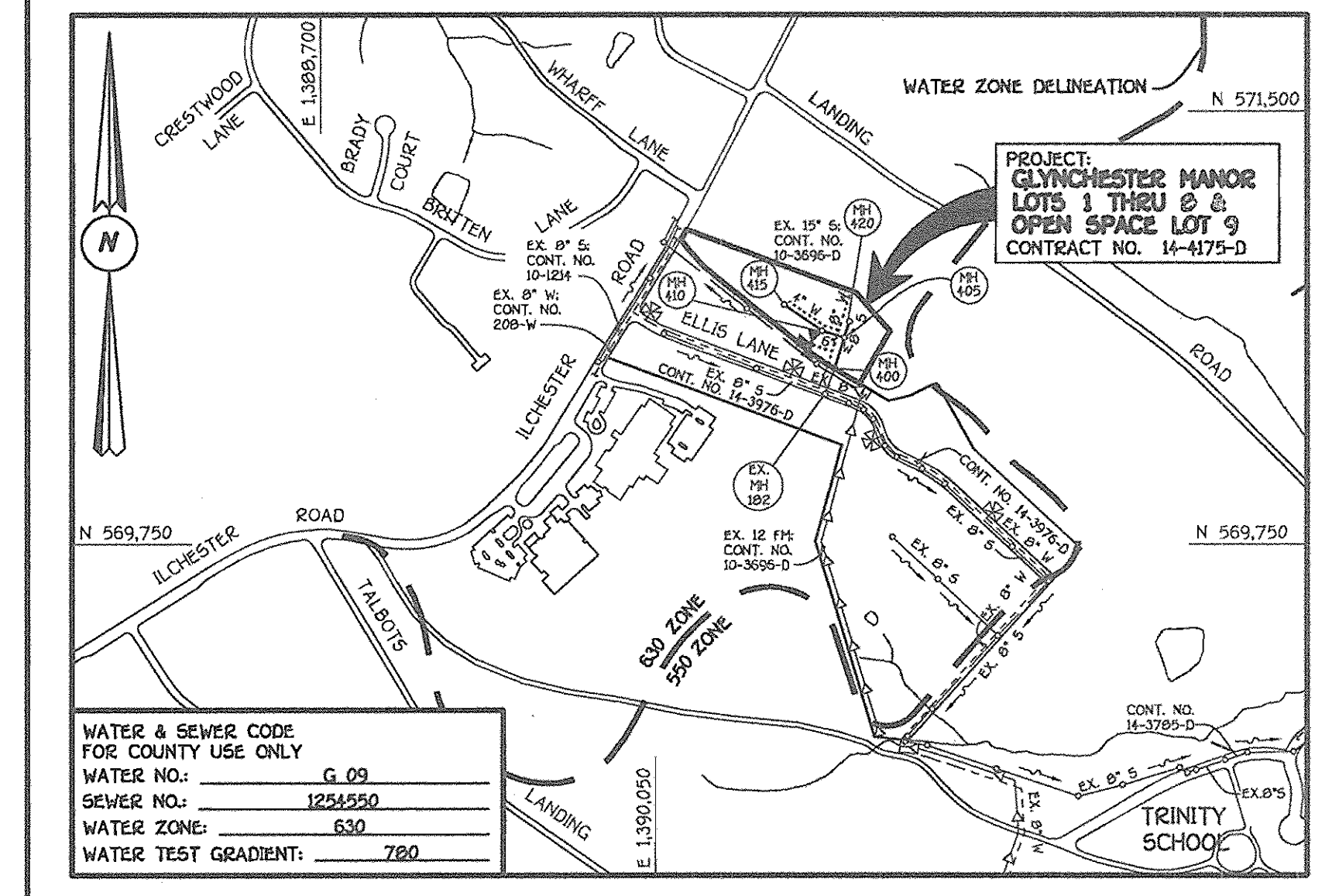


N 571250
E 1376750

N 571250
E 1377250

ITEM	ESTIMATED	QUANTITIES		AS-BUILT	SUPPLIER
		QUANTITIES	TYPE		
8" WATER	309.24 L.F.	204	D.I.P.	BELAIR ROAD SUP	
6" WATER	12 L.F.	12	"	"	
4" WATER	236 L.F.	236	"	"	
1" WATER	120 L.F.	120 L.F.	COPPER TUBE	"	
FIRE HYDRANT	1 EACH	1	50"	"	
8" X 6" TEE	1 EACH	1	"	"	
8" X 4" TEE	1 EACH	1	"	"	
6" VALVE	1 EACH	1	GATE VALVE	"	
4" VALVE	1 EACH	1	"	"	
8" PLUG & BUTTRESS	1 EACH	1	"	"	
4" PLUG & BUTTRESS	1 EACH	1	"	"	
4"-1/16 H.B.	1 EACH	1	"	"	
8" SEWER	419.53 L.F.	419	P.V.C.	"	
4" SEWER	110 L.F.	111	P.V.C.	"	
MANHOLES	5 EACH	5	PRECAST	FREDERICK PRECAST CONG.	

NAME OF UTILITY CONTRACTOR: UTILITIES UNITED INC.
SURVEY & DRAFTING DIVISION AS-BUILT DATE:



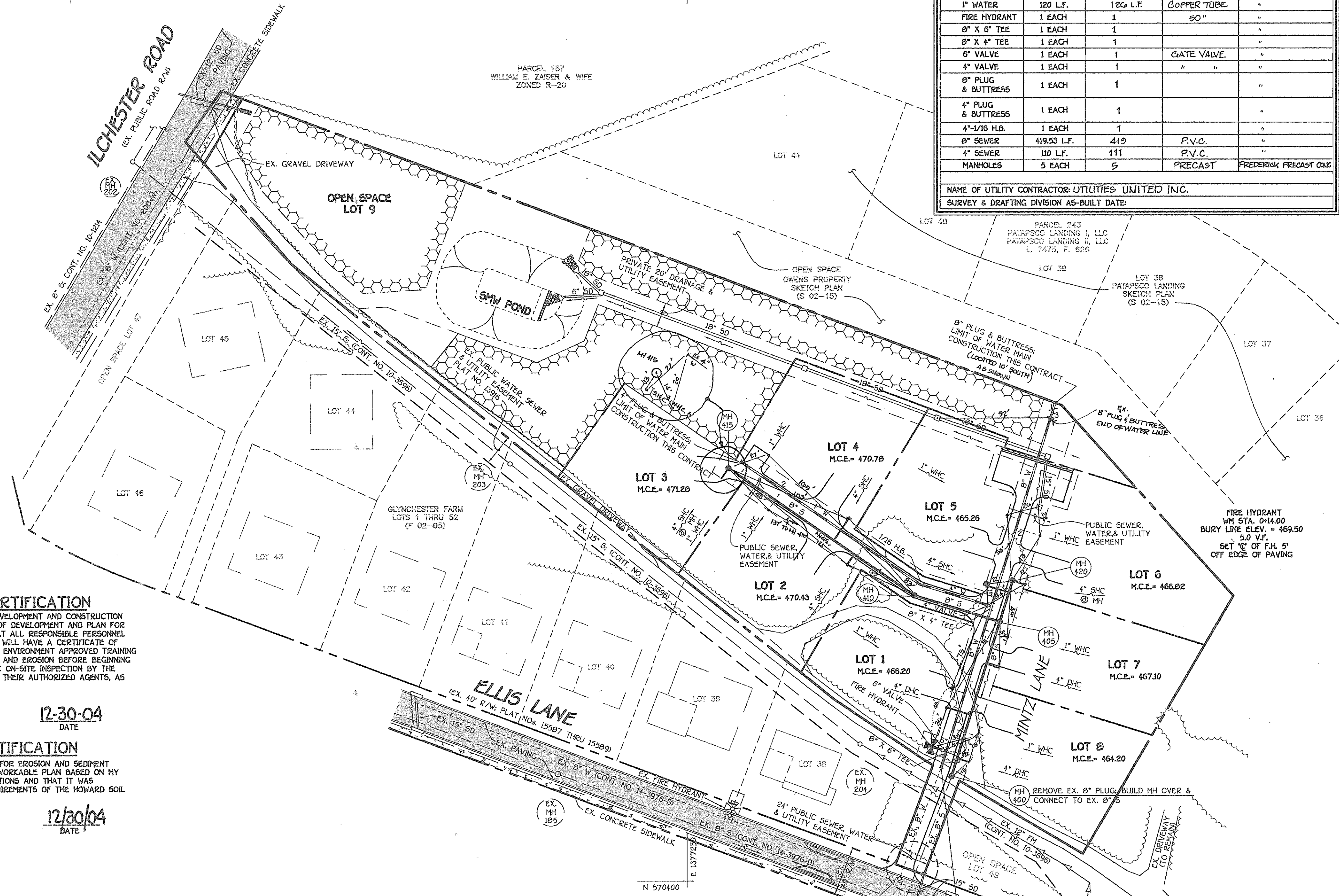
WATER & SEWER CODE FOR COUNTY USE ONLY

WATER NO.: G 09
SEWER NO.: 1254550
WATER ZONE: 630
WATER TEST GRADIENT: 780

TYPE OF BUILDING: RESIDENTIAL: SINGLE FAMILY DETACHED
NUMBER OF LOTS: 9 (9 BUILDABLE)
NO. OF WATER HOUSE CONNECTIONS: 9
NO. OF SEWER HOUSE CONNECTIONS: 9
DRAINAGE AREA: PATAPSCO WASTEWATER TREATMENT PLANT
TREATMENT PLANT: CITY OF BALTIMORE

PLAN REFERENCE NUMBERS: 502-16; P04-09 #F05-10.

VICINITY MAP
SCALE: 1" = 600'



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.
 - ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES, NAD 83/91.
 - ALL VERTICAL CONTROLS ARE BASED ON NAVD 83.
 - 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 THE 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 SITE.
 - 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 (CONTRACTOR SERVICES) 410-950-4620
 - BGE (UNDERGROUND DAMAGE CONTROL) 410-787-9068
 - BUREAU OF UTILITIES 410-313-4900
 - COLONIAL PIPELINE CO 410-795-1390
 - MESS UTILITY 1-800-297-7777
 - 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.
 - 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 THE 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(d) OF THE HOWARD COUNTY CODE.
- PART II: WATER
- ALL WATER 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 TREES SHALL BE STRAPPED TO TREES.
 - 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
- ALL SEWER MAINS SHALL BE D.I.P. OR 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 18" WALLS ARE FOR BRICK MANHOLES ONLY.
 - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE 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 THE CELLAR CANNOT BE SERVED.

DEVELOPER'S CERTIFICATION

"I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Paul W. Koebel FOR:
ILCHESTER, LLC
SIGNATURE OF DEVELOPER
12-30-04
DATE

ENGINEER'S CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Paul W. Koebel
SIGNATURE OF ENGINEER
12/30/04
DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

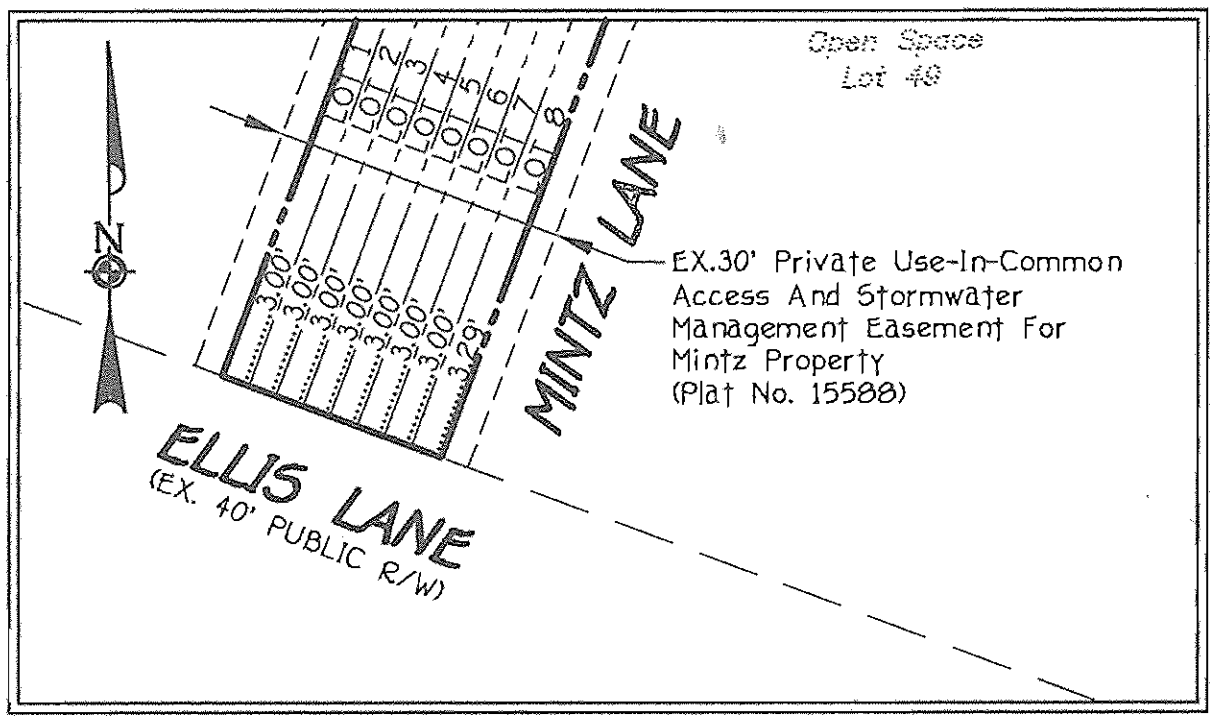
Jim Meyer 1/14/05
U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE
DATE

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

John K. Panton 1/14/05
HOWARD SOIL CONSERVATION DISTRICT
DATE

SEDDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND AS SHOWN ON F05-10.

Paul W. Koebel FOR:
ILCHESTER, LLC
SIGNATURE OF DEVELOPER
12-30-04
DATE



ENLARGEMENT: FOOT FOOTAGES, LOTS 1 THRU 8

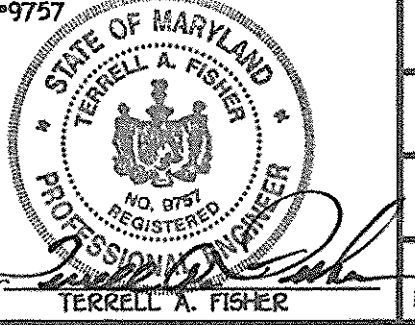
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert M. Buringer 1-13-05
CHIEF, BUREAU OF UTILITIES
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

1/2/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
2000 SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PEE
ELLCOTT CITY, MARYLAND 21046
410.461.2925



DESIGNED BY: P.W.K.
DRAWN BY: D.Y.S.
CHECKED BY: P.W.K.
DATE: DECEMBER, 2004
BY NO. AS-BUILT DATA SHOWN
REVISION

OWNER
ANDREW C. MINTZ & PAUL F. MINTZ
4975 ILCHESTER ROAD
ELLCOTT CITY, MARYLAND 21043

DEVELOPER
ILCHESTER, LLC
8600 CENTRE PARK DRIVE
SUITE 209
COLUMBIA, MARYLAND 21044

CONTRACT NO. 14-4175-D
GLYNCHESTER MANOR
LOTS 1 THRU 8 & OPEN SPACE LOT 9
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

WATER AND SEWER MAINS PLAN
600' SCALE MAP NO. 31 BLOCK NO. 16
F.C.C. WORK ORDER NO. 30767
FILE NAME: FINAL WATER AND SEWER PLAN SH1

GLYNCHESTER MANOR
LOTS 1 THRU 8 & OPEN SPACE LOT 9
CONTRACT NO. 14-4175-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 1 OF 2

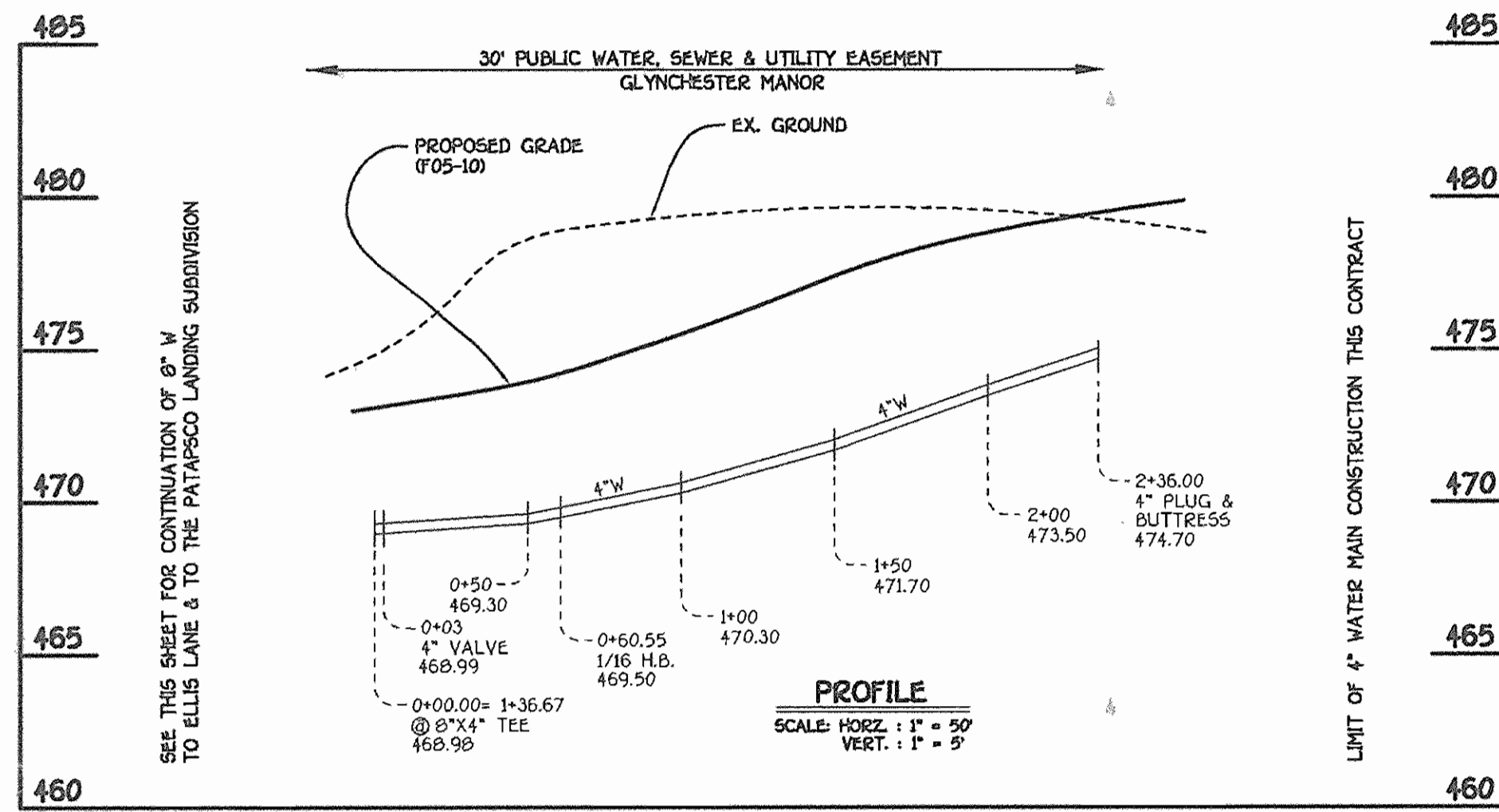
NOTE: SET MH RIMS FLUSH W/PROPOSED FINISHED GRADE
SEE MANHOLE TABULATION CHART THIS SHEET

WATER MAIN TABULATION CHART			
W.M. STATION	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: ELLIS LANE TO THE PATAPSCO LANDING SUBDIVISION			
0+00.00	CONNECT TO EX. 8" WATER MAIN	570591.45	1377451.59
0+14.00	8" X 6" TEE	570604.78	1377453.73
1+36.67	8" X 4" TEE	570721.90	1377492.20
3+09.24	8" PLUG & BUTTRESS	570806.67	1377943.52
4" WATER MAIN: LOTS 2,3 & 4			
0+00.00	8" X 4" TEE	570721.90	1377492.20
0+03.00	4" VALVE	570722.79	1377489.34
0+60.55	1/16" H.B.	570739.90	1377434.40
2+36.00	4" PLUG & BUTTRESS	570839.47	1377289.93

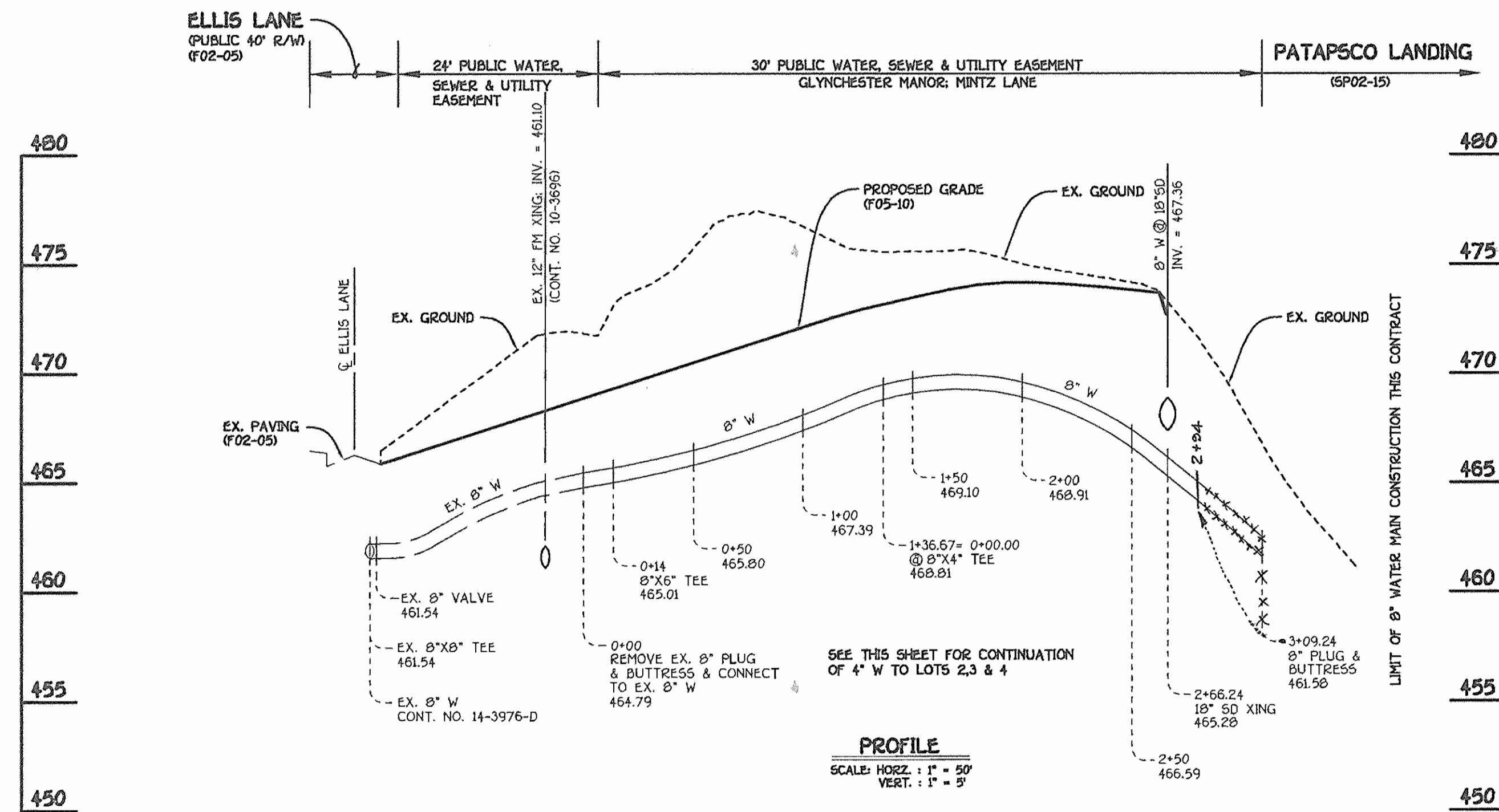
SHC INVERT @ PROPERTY LINE CHART		
STATION	LOT	ELEVATION
MH 400 TO MH 405		
0+15 RT.	8 (DHC)	459.20
0+52 LT.	1 (DHC)	461.40
0+95 RT.	7 (DHC)	462.20
MH 405 TO MH 420		
0+25 LT.	5	460.36
@ MH 405 RT.	6	460.62
MH 410 TO MH 415		
0+59 LT.	2	465.43
0+79 RT.	4	465.78
@ MH 415 LT.	3	466.48

MANHOLE TABULATION CHART			
NO.	NORTHING	EASTING	RIM ELEVATION *
400	570584.75	1377459.96	468.90
405	570709.36	1377498.77	472.30
410	570730.78	1377430.02	474.50
415	570836.88	1377276.05	481.00
420	570742.78	1377509.18	473.85

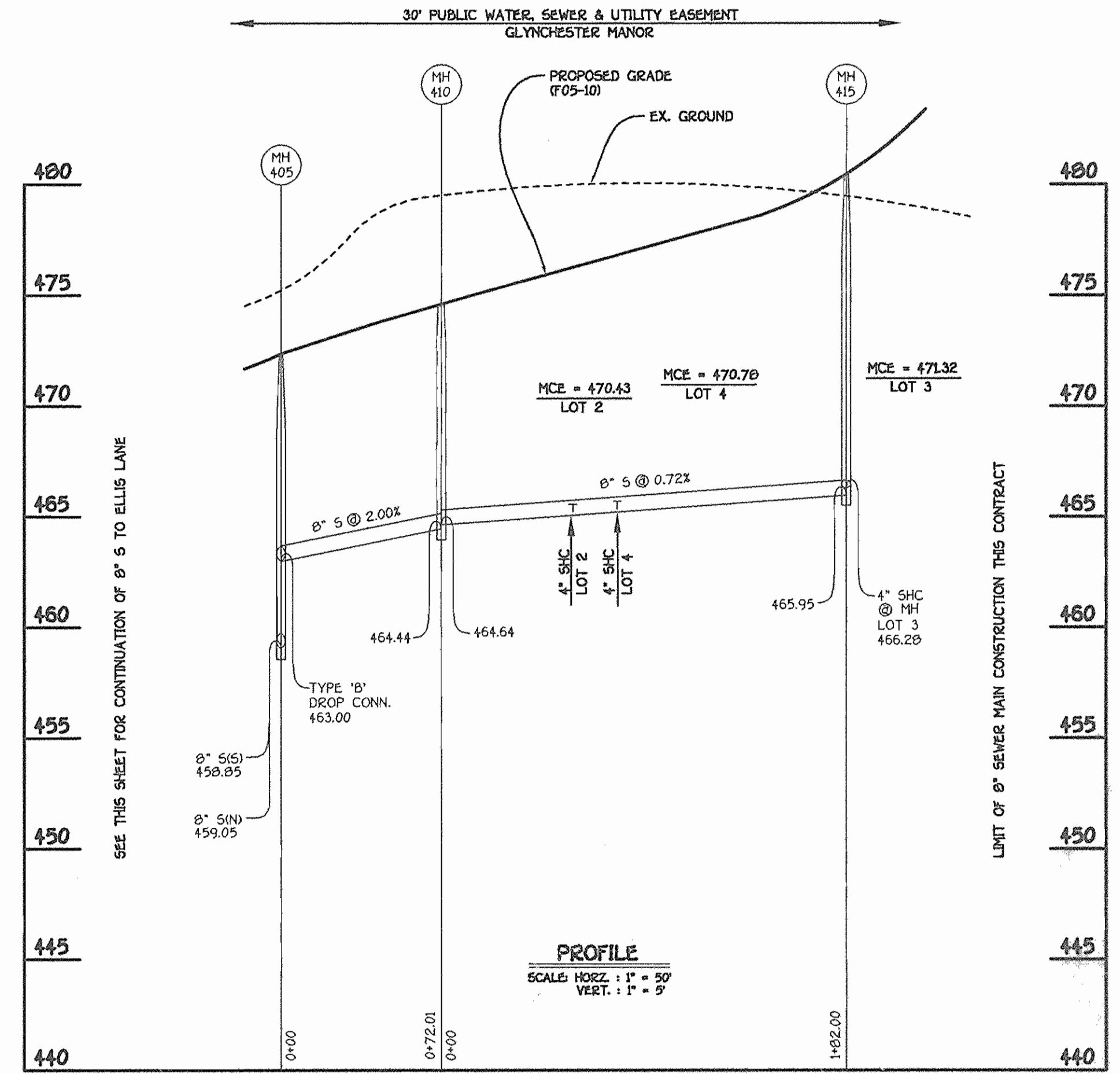
* SET MH RIMS FLUSH W/ PROPOSED FINISHED GRADE



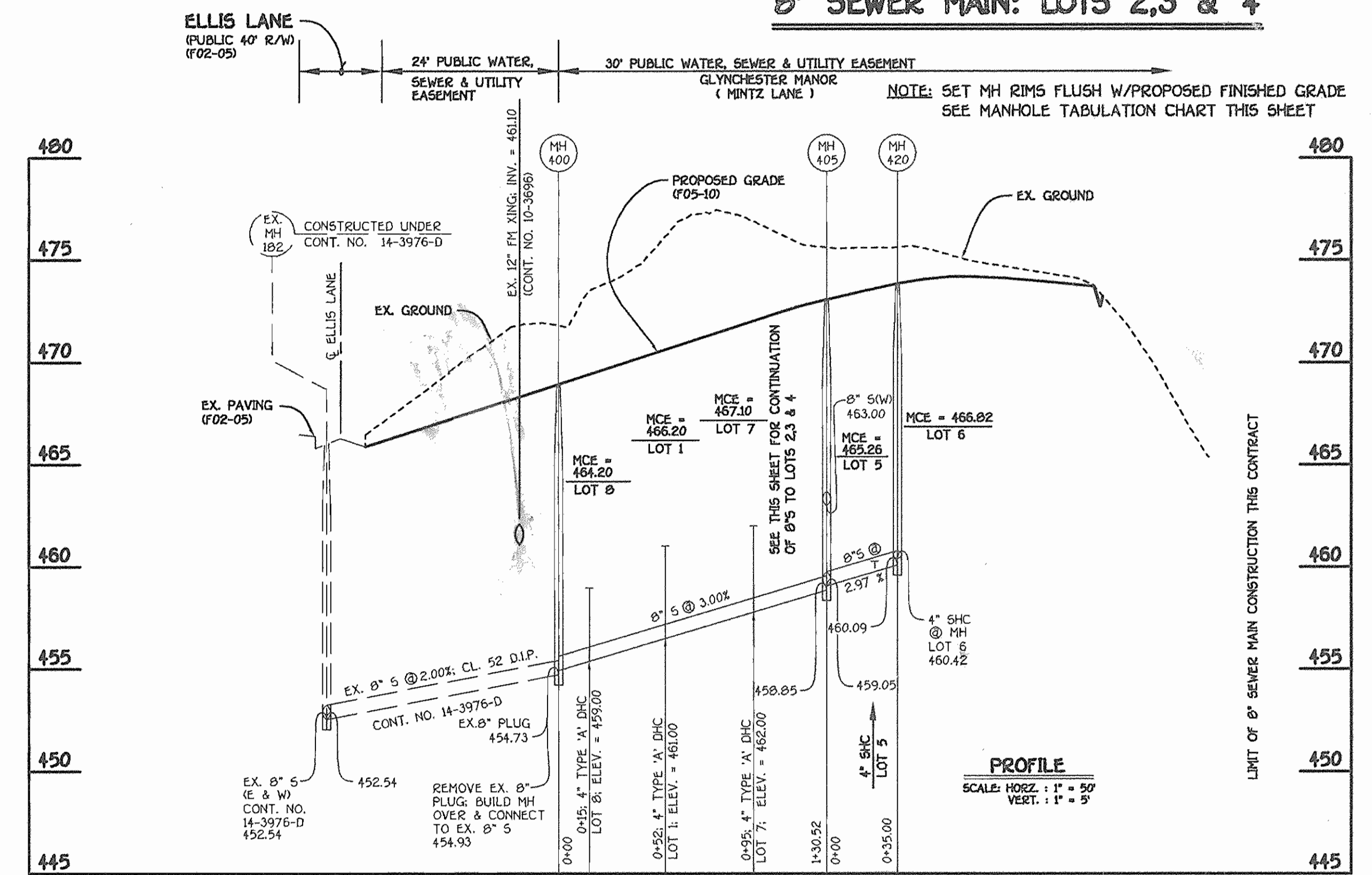
4" WATER MAIN: LOTS 2,3 & 4



8" WATER MAIN: ELLIS LANE TO THE PATAPSCO LANDING SUBDIVISION



8" SEWER MAIN: LOTS 2,3 & 4



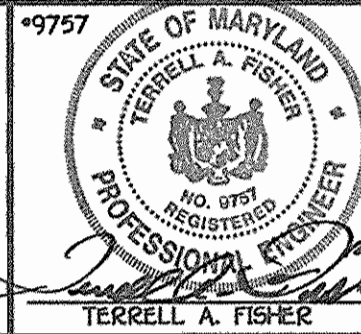
8" SEWER MAIN: LOTS 1,5,6,7 & 8

CONTRACT NO. 14-4175-D
GLYNCHESTER MANOR
LOTS 1 THRU 8 & OPEN SPACE LOT 9
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 1872 BALTIMORE NATIONAL PKWY
ELICOTT CITY, MARYLAND 21042
(410) 462-2855



DESIGNED BY : D.Y.B.
DRAWN BY : D.Y.B.
CHECKED BY : P.W.K.
DATE : DECEMBER, 2004
BY NO. :
REVISION :
DATE : 9/5/05
FILE NAME : 30767 FINAL WATSEW MAINS PROFILES SHIT

WATER AND SEWER MAINS
PROFILES

GLYNCHESTER MANOR
LOTS 1 THRU 8 & OPEN SPACE LOT 9
CONTRACT NO. 14-4175-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 2

Robert B. Burzau
CHIEF, BUREAU OF UTILITIES
DATE: 1-13-05

Michael D. Drummond
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 1/21/05

TERRELL A. FISHER
PROFESSIONAL ENGINEER

DATE: 9/5/05
FILE NAME: 30767 FINAL WATSEW MAINS PROFILES SHIT

600' SCALE MAP NO. 31 BLOCK NO. 16
F.C.C. WORK ORDER NO. 30767

DATE: 1-13-05