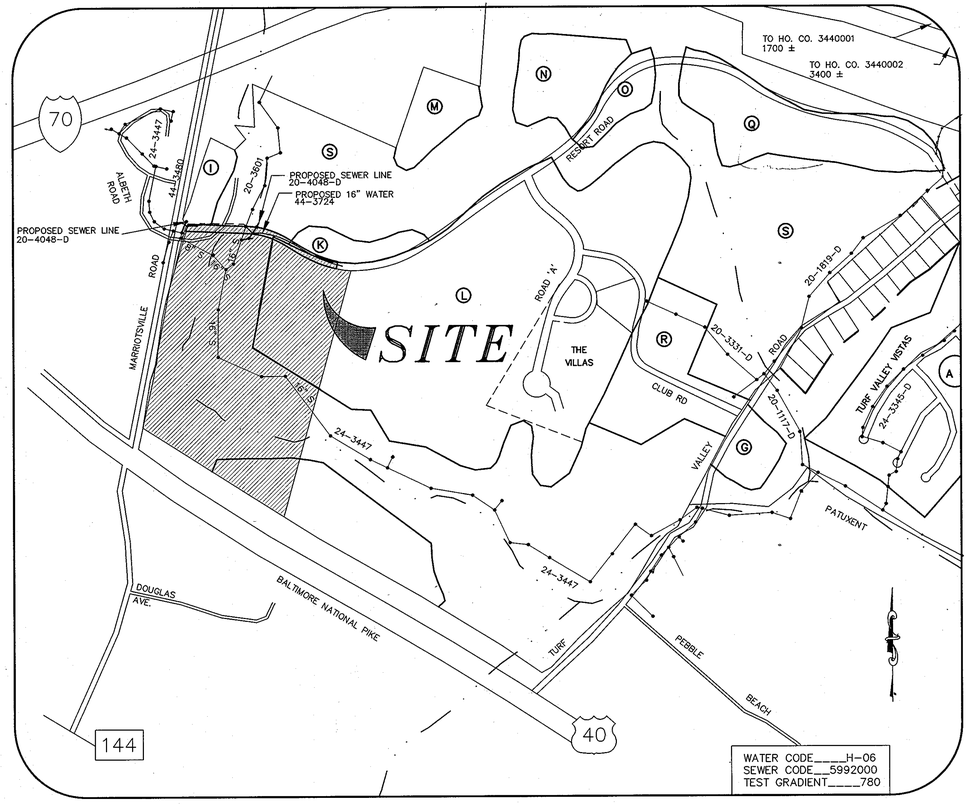
QUANTITY TABLE

ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
STANDARD MH (HO. CO. STD.G-5.01)	4	4 EA		NEENAH FOUNDORY/BELAIR RD. SUPPLY
8" SEWER MAIN (D.I.P.)	205 L.F.	179.0	CL 52	GRIFFIN PIPE/BELAIR RD SUPPLY
8" SEWER MAIN	155 L.F.	148.0	SDR 35	J.M. MFG. / BELAIR RD. SUPPLY

NAME OF UTILITY CONTRACTOR:

SURVEY AND DRAFTING DIVISION AS-BUILT DATE



VICINITY MAP
SCALE: 1'=600'

GENERAL NOTES

1. APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES, NAD 27.
3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
4. COORDINATES BASED ON NAD'27 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO : 3440001 & 3440002 :
   STA. No. 3440001 N 534,735.478 E 836,286.297 EL. 486.341
   STA. No. 3440002 N 533,593.800 E 837,983.249 EL. 462.306
5. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
6. CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED. 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 MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
7. FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAIL FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
8. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PIT. 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.
9. 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
BG & E CO. CONTRACTOR SERVICES	(410) 850-4620
BG & E CO. UNDERGROUND DAMAGE CONTROL	(410) 787-9068
HOWARD COUNTY DEPTARTMENT OF PUBLIC WORKS BUREAU OF UTILITIES	(410) 313-4900
COLONIAL PIPELINE CO.	(410) 795-1390
MISS UTILITY	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	(410) 531-5533
VERIZON	1-800-743-0033/410-224-9210

10. 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.
11. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
12. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-7450 AT LEAST FIVE (5) WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS 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.
13. ALL SEWER MAINS SHALL BE P.V.C. OR D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
14. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
15. FORCE MAINS SHALL BE D.I.P. ONLY.
16. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
17. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1' - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
18. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PROIR TO COMMENCING CONSTRUCTION.
19. SEDIMENT CONTROL TO BE PROVIDED BY F-02-74.
20. STORM DRAIN SYSTEM INDICATED FOR INFORMATIONAL PURPOSES ONLY, SEE ROAD PLANS FOR CONSTRUCTION DATA.
21. COMPACTION IN FILL AREAS TO BE 95% AS DETERMINED PER AASHTO T-180.

EROSION AND SEDIMENT CONTROL FOR THIS CONTRACT IS PROVIDED UNDER F-02-074

TYPE OF BUILDING	OFFICE
No. OF UNITS	0
No. OF WATER HOUSE CONNECTION	0
No. OF SEWER HOUSE CONNECTIONS	0
ELECTION DISTRICT	THIRD
DRAINAGE AREA	LITTLE PATUXENT R.
TREATMENT PLANT	LPWQMC

CONTRACT NO.: 20-4048-D

TURF VALLEY PROFESSIONAL BUILDINGS
SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

INDEX OF DRAWINGS

NO.	DESCRIPTION
1	TITLE SHEET
2	SEWER PLAN
3	SEWER PROFILES

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A 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.

DEVELOPER'S SIGNATURE — DATE 11-30-04
Louis Mangione
DEVELOPER'S NAME

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.

JOHN B. MILDENBERG — DATE NOV 2, 04
ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

USDA-NATURAL RESOURCES CONSERVATION SERVICE — DATE 12/20/04

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

HOWARD SCD — DATE 12/20/04

PLAN REFERENCE NUMBERS
P-00-007, P-00-021
F-02-74, F-02-82

OWNER

MANGIONE ENTERPRISES OF TURF VALLEY, L.P.
1205 YORK ROAD, PENTHOUSE
LUTHERVILLE, MARYLAND 21093
(410) 825-8400

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
CHIEF, BUREAU OF UTILITIES — DATE 5-8-06

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 5/25/06

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax.

engineering AMC				
illustration AMC				
approval JBM				
project 03029	KCI	1	ASBUILT DATA SHOWN	12/10/06
date JULY 2004	BY	NO.	REVISION	DATE

TITLE SHEET

600' SCALE MAP NO. 16 BLOCK NO. 10 & 16

TURF VALLEY
PROFESSIONAL BUILDINGS
CONTRACT NO.: 20-4048-D
THIRD ELECTION DISTRICT
HOWARD COUNTY

scale AS SHOWN

1 OF 3

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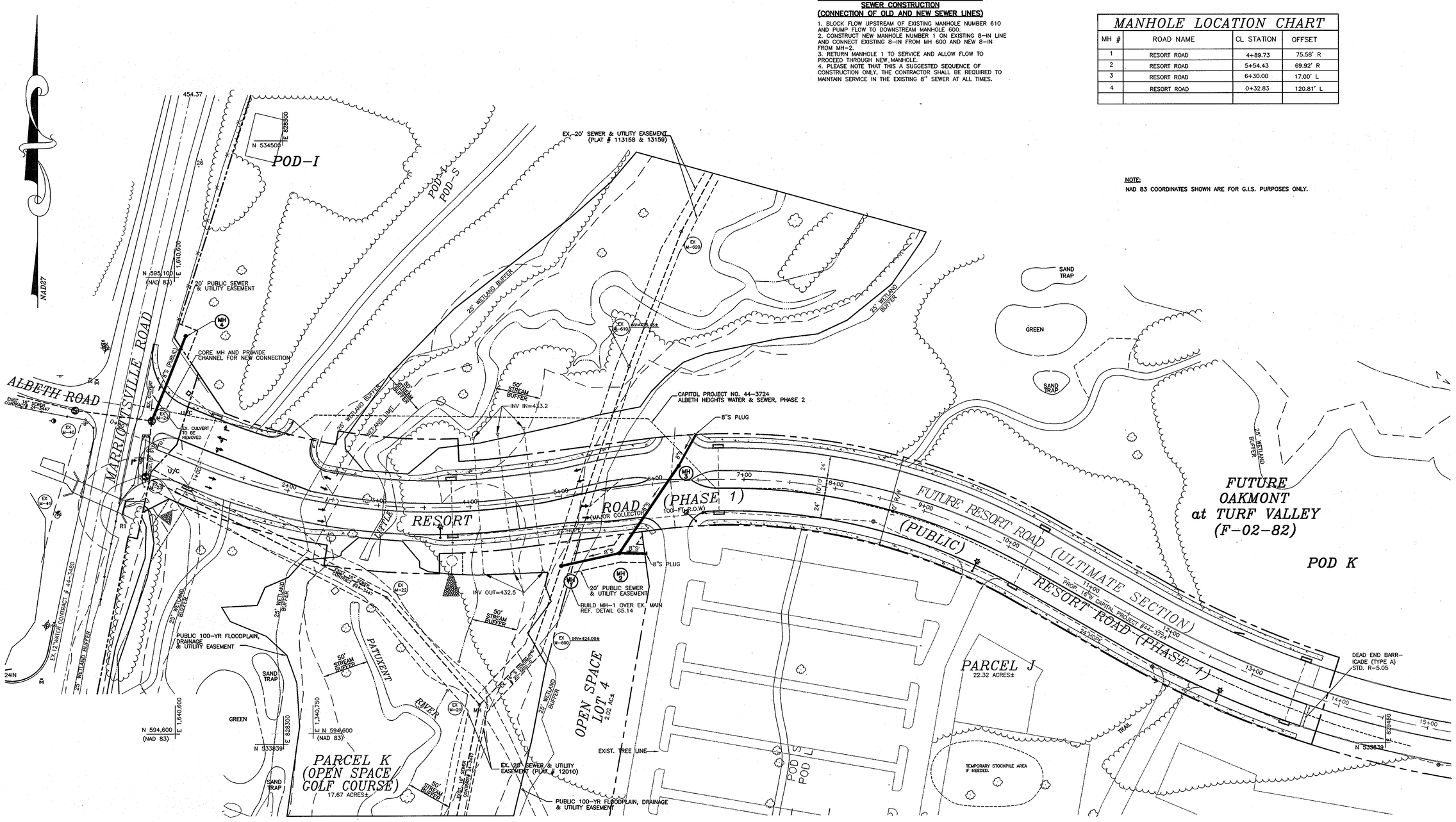
SUGGESTED SEQUENCE OF CONSTRUCTION FOR SEWER CONSTRUCTION (CONNECTION OF OLD AND NEW SEWER LINES)

1. BLOCK FLOW UPSTREAM OF EXISTING MANHOLE NUMBER 610 AND PUMP FLOW TO DOWNSTREAM MANHOLE 600.
2. CONSTRUCT NEW MANHOLE NUMBER 1 ON EXISTING 8-IN LINE AND CONNECT EXISTING 8-IN FROM MH 600 AND NEW 8-IN FROM MH-2.
3. RETURN MANHOLE 1 TO SERVICE AND ALLOW FLOW TO PROCEED THROUGH NEW MANHOLE.
4. PLEASE NOTE THAT THIS A SUGGESTED SEQUENCE OF CONSTRUCTION ONLY. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN SERVICE IN THE EXISTING 8" SEWER AT ALL TIMES.

MANHOLE LOCATION CHART

MH #	ROAD NAME	CL STATION	OFFSET
1	RESORT ROAD	4+89.73	75.58' R
2	RESORT ROAD	5+54.43	69.92' R
3	RESORT ROAD	6+30.00	17.00' L
4	RESORT ROAD	0+32.83	120.81' L

NOTE:
NAD 83 COORDINATES SHOWN ARE FOR G.I.S. PURPOSES ONLY.



OWNER
MANGIONE ENTERPRISES OF TURF VALLEY, L.P.
1205 YORK ROAD, PENTHOUSE
LUTHERVILLE, MARYLAND 21093
(410) 825-8400

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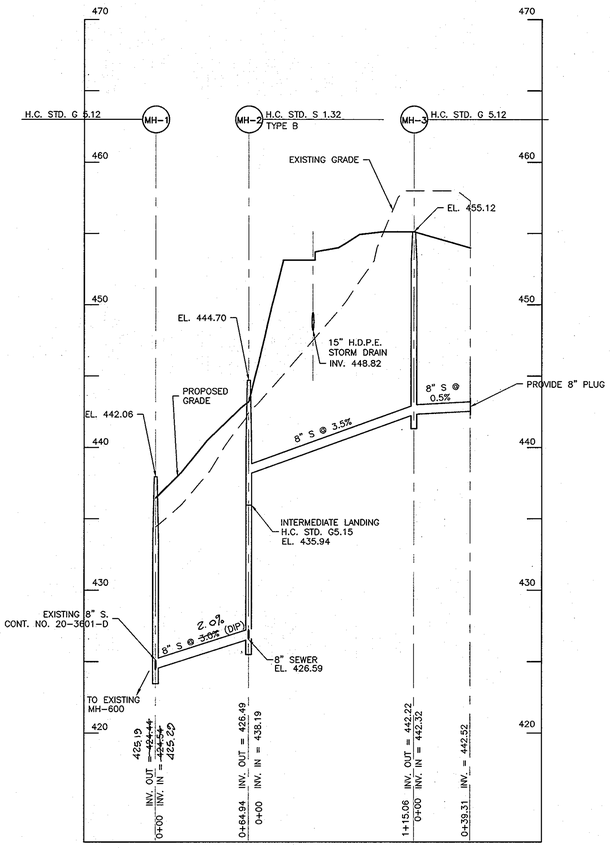
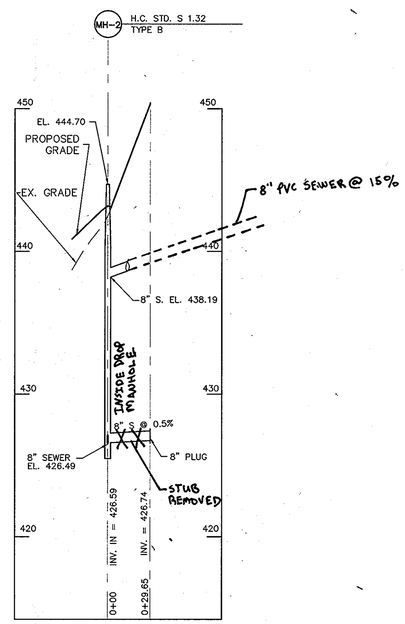
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND	MILDENBERG, BOENDER & ASSOC., INC. Engineers Planners Surveyors 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042 (410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax	engineering AMC illustration AMC approval JBM project 03029 date JULY 2004	BY	NO.	REVISION	DATE	SEWER PLAN 600' SCALE MAP NO. 16 BLOCK NO. 10 & 16	TURF VALLEY PROFESSIONAL BUILDINGS CONTRACT NO.: 20-4048-D THIRD ELECTION DISTRICT HOWARD COUNTY	scale 1"=50' 2 OF 3
5-8-06 CHIEF, BUREAU OF UTILITIES DATE	5/26/06 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE									



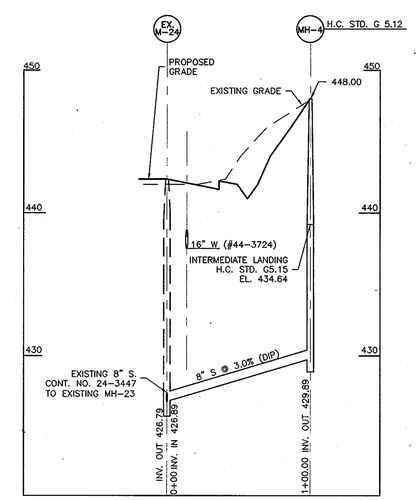
8-IN SEWER PROFILE
MH-1 TO MH-3

SCALE: HOR: 1"=50'
VER. 1"=5'



8-IN SEWER PROFILE
MH-2 TO PLUG

SCALE: HOR: 1"=50'
VER. 1"=5'



8-IN SEWER PROFILE
EX. MH-24 TO MH-4
(FUTURE SERVICE TO POD I)

SCALE: HOR: 1"=50'
VER. 1"=5'

OWNER

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1205 YORK ROAD, PENTHOUSE
LUTHERVILLE, MARYLAND 21093
(410) 825-8400

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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

5-8-06
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

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engineering AMC			
illustration AMC			
approval JBM			
project 03029	KCI	2	AS BUILT REVISED 2/10/12
	KCI	1	ASBUILT DATA SHOWN 5/12/09
date JULY 2004	BY	NO.	REVISION DATE

SEWER PROFILES

200' SCALE MAP NO. 16 BLOCK NO. 10 & 16

TURF VALLEY
PROFESSIONAL BUILDINGS
CONTRACT NO.: 20-4048-D
THIRD ELECTION DISTRICT
HOWARD COUNTY

scale
AS SHOWN

3 OF 3