

# FINAL WATER AND SEWER PLAN

## SNOWDEN RIVER BUSINESS PARK

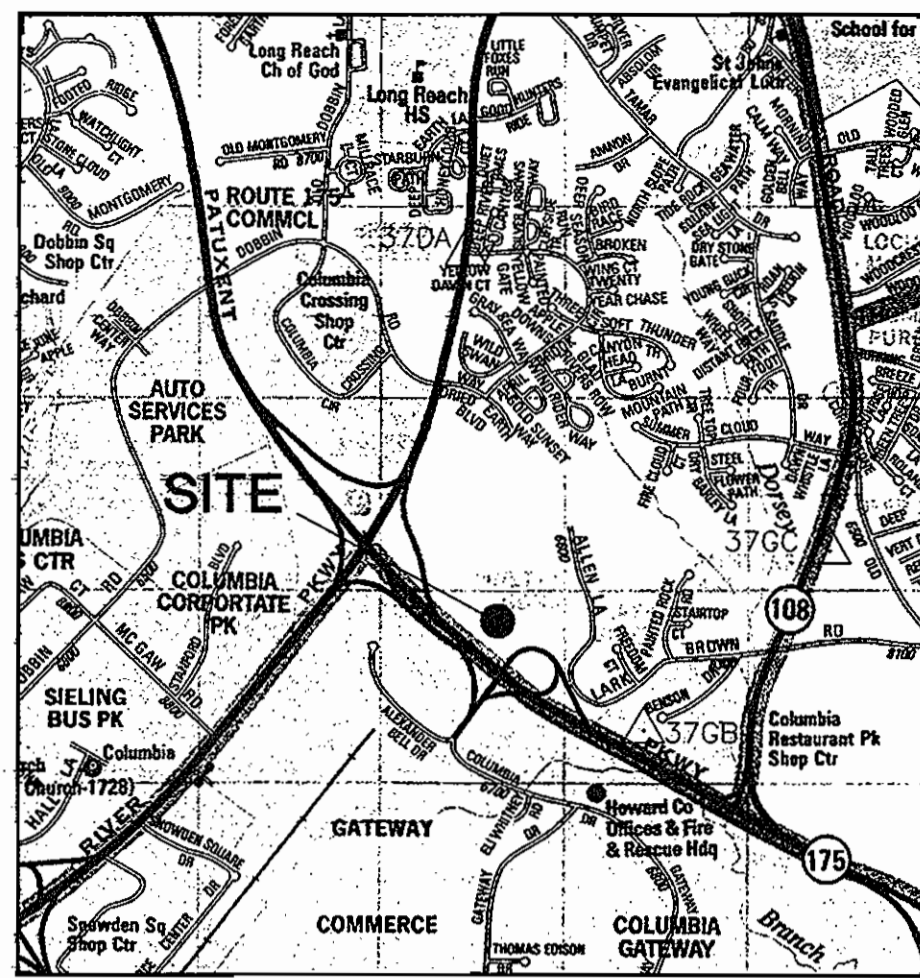
### SECTION 1 AREA 1

#### PARCEL D

### SNOWDEN RIVER VILLAGE

#### 6th ELECTION DISTRICT

#### HOWARD COUNTY, MARYLAND



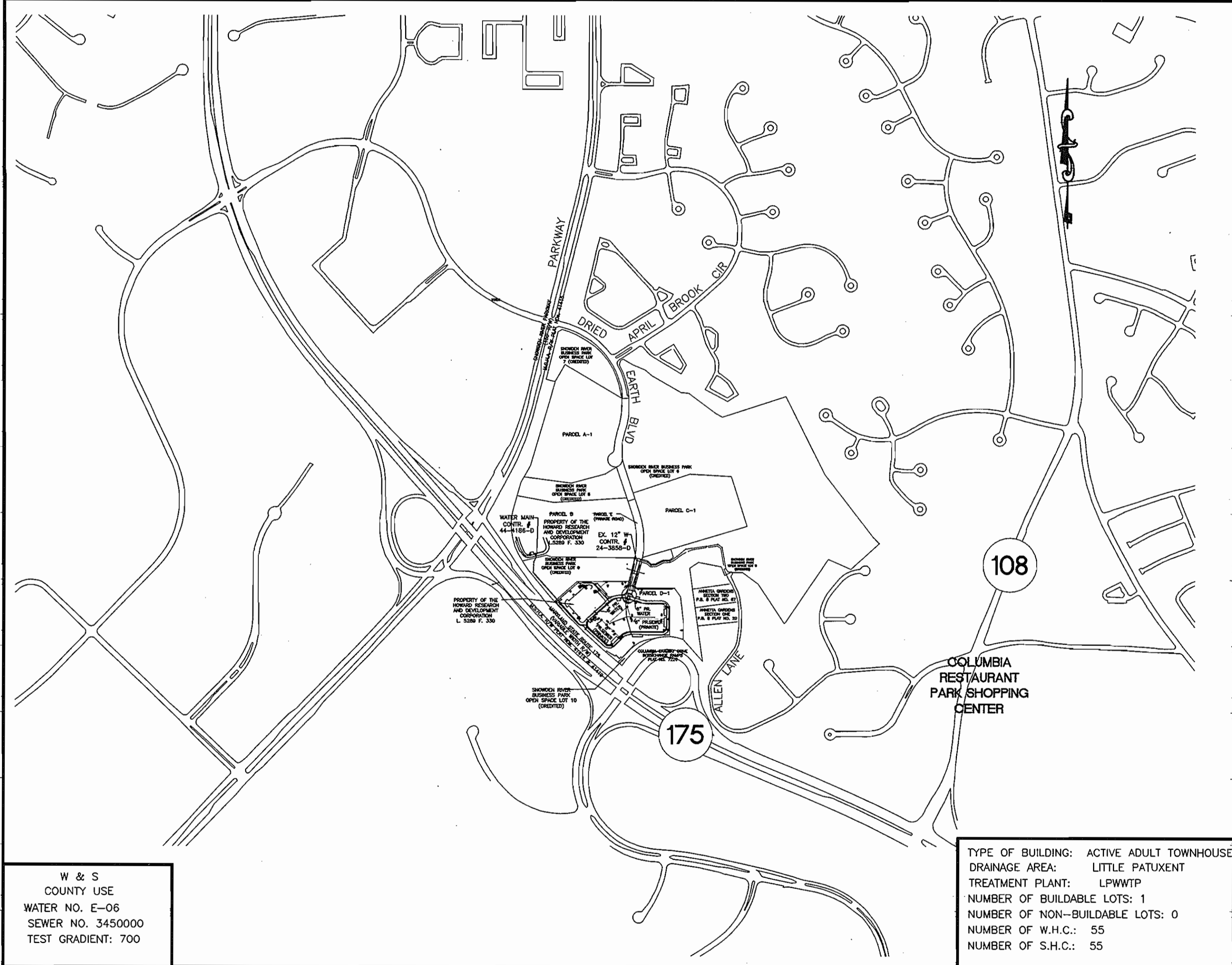
**VICINITY MAP**  
 SCALE: 1" = 2,000'  
 COPYRIGHT ADC THE MAP PEOPLE  
 PERMITTED USE NO. 20602149  
 MAP NO. 16 GRIDS E,10

- △ BENCHMARKS**
- BENCHMARK # 37GB  
 HOWARD COUNTY GEODETIC SURVEY CONTROL  
 N 553,452.828 E 1,368,503.19  
 ELEVATION=325.233'
  - BENCHMARK # 37GC  
 HOWARD COUNTY GEODETIC SURVEY CONTROL  
 N 555,250.797 E 1,370,946.37  
 ELEVATION=331.192'
  - BENCHMARK # 37DA  
 HOWARD COUNTY GEODETIC SURVEY CONTROL  
 N 558,667.518 E 1,366,857.48  
 ELEVATION=379.786'

SHEET INDEX	
1	COVER SHEET
2	WATER & SEWER PLAN
3	WATER PROFILES
4	WATER PROFILES

WATER LINE PIPE SCHEDULE		
SIZE	TYPE	LENGTH
6"	D.I.P. CLASS 52	245'
8"	D.I.P. CLASS 52	1745'
1"	COOPER TYPE K	1256'

WATER LINE FITTINGS SCHEDULE		
SIZE & TYPE	QUAN.	
6" VALVE (W.M. BYPASS)	8	
8" VALVE (W.M. BYPASS)	15	
8" X 8" TEE	2	
8" X 6" TEE	9	
8" - 1/8 H.B.	9	
8" - 1/16 H.B.	6	
8" - 1/32 H.B.	2	
6" FIRE HYDRANT	7	
8" CAP	4	
6" CAP	1	
8"x8" TAPPING SLEEVE & VALVE	2	
3/4" SINGLE WATER METERS	54	



W & S  
 COUNTY USE  
 WATER NO. E-06  
 SEWER NO. 3450000  
 TEST GRADIENT: 700

TYPE OF BUILDING: ACTIVE ADULT TOWNHOUSE  
 DRAINAGE AREA: LITTLE PATUXENT  
 TREATMENT PLANT: LPWVTP  
 NUMBER OF BUILDABLE LOTS: 1  
 NUMBER OF NON-BUILDABLE LOTS: 0  
 NUMBER OF W.H.C.: 55  
 NUMBER OF S.H.C.: 55

LOCATION MAP  
 SCALE: 1"=600'

**AS BUILT**  
 DATE: NOVEMBER 2005

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND AS SHOWN ON SDP-05-037

REVIEW FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REVIEW

*Jim Meyer* 3/14/05  
 NATURAL RESOURCES CONSERVATION DISTRICT DATE

*John P. Ritzler* 3/14/05  
 HOWARD SOIL CONSERVATION DISTRICT DATE

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

- 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 SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
  - TOPOGRAPHIC SURVEYS WERE PERFORMED BY 3Di IN NOVEMBER, 1999 AND PROVIDED BY GUTSCHICK, LITTLE & WEBER.
  - HORIZONTAL AND VERTICAL SURVEY CONTROLS:
    - ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES, NAD 83/91.
    - ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
  - 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 MONEYS 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 PROJECT 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 DRAWING. 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) 410-850-4620
    - BGE (UNDERGROUND DAMAGE CONTROL) 410-787-9068
    - 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
  - 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 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 COUNTRY 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.
- 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. THE MAXIMUM DEPTH OF WATER MAIN SHALL NOT EXCEED 8'.
  - 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 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.
  - ALL TOWNHOMES SHALL 1" WATER HOUSE CONNECTIONS AND 3/4" OUTSIDE WATER METERS.
- PART III. SEWER**
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C., UNLESS OTHERWISE NOTED. THE MINIMUM SIZE OF THE SEWER MAIN IS 8".
  - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE NOTED.
  - FORCE MAINS SHALL BE D.I.P. ONLY.
  - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
  - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL 05.52. 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.

**DEPARTMENT OF PUBLIC WORKS**  
 HOWARD COUNTY, MARYLAND

*Ruth Berman* 3-18-05  
 CHIEF, BUREAU OF UTILITIES DATE

**DEPARTMENT OF PLANNING & ZONING**  
 HOWARD COUNTY, MARYLAND

*John P. Ritzler* 3/18/05  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**MORRIS & RITCHE ASSOCIATES, INC.**  
 ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS

14280 PARK CENTER DRIVE, SUITE A  
 LAUREL, MARYLAND 20707  
 (410) 792-9792 or (301) 776-1690  
 FAX (410) 792-7395



DES:	HW	KSZ	1	REVISED PER HOWARD CO. COMMENTS	10/01/04
DRN:	HW/KSZ	KSZ	2	REVISED PER HOWARD CO. COMMENTS	11/30/04
CHK:	PVM	KSZ	3	REVISED PER HOWARD CO. COMMENTS	01/19/05
		KDH	4	REVISED PER HOWARD CO. COMMENTS	03/02/05

DATE: 06/31/04

BY NO. \_\_\_\_\_ REVISIONS \_\_\_\_\_ DATE: 600' SCALE MAP NO. 37 BLOCK NO. 19

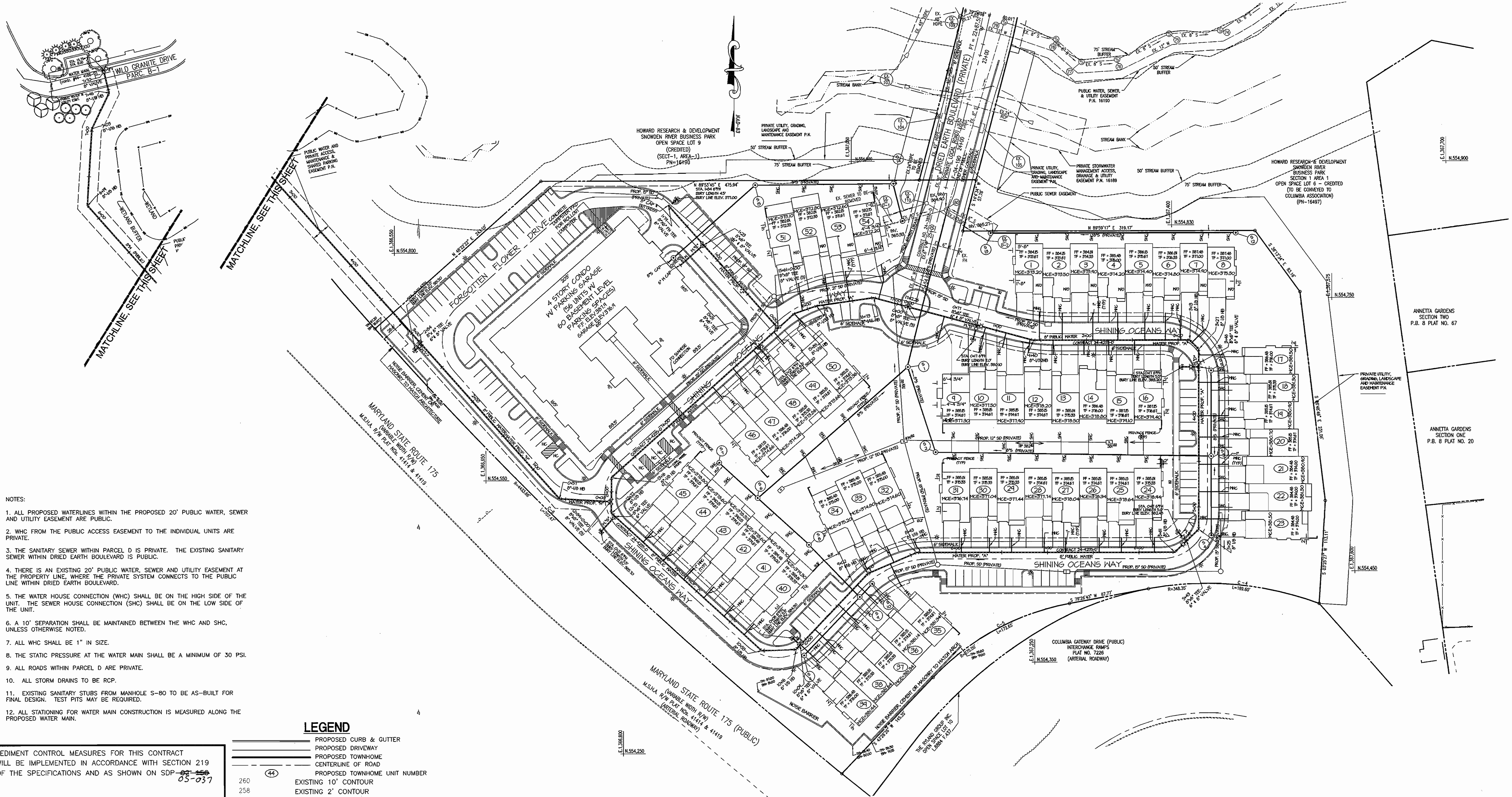
**SDP-05-037**

OWNER/DEVELOPER: \_\_\_\_\_ FAX NO: (410) 480-0543  
 A. NAME: BRIAN KNAUFF B. DAYTIME TELEPHONE: (410) 480-1525  
 C. COMPANY: THE RYLAND GROUP  
 D. ADDRESS: 6011 UNIVERSITY BOULEVARD, SUITE 260  
 E. CITY: ELLICOTT CITY STATE: MD ZIP: 21043

**SNOWDEN RIVER BUSINESS PARK**  
 SECTION 1 AREA 1  
 PARCEL D-1  
**SNOWDEN RIVER VILLAGE**  
 CONTRACT #24-4235-D  
 L. 7720 F. 271  
 ZONED: NT TAX MAP: 37 GRID: 19 PARCEL 725  
 (P/O PAR. 50, 255 & PAR. 212, 385)  
 ELECTION DISTRICT NO.: 6 HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN  
 SHEET 1 OF 4

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- NOTES:
1. ALL PROPOSED WATERLINES WITHIN THE PROPOSED 20' PUBLIC WATER, SEWER AND UTILITY EASEMENT ARE PUBLIC.
  2. WHC FROM THE PUBLIC ACCESS EASEMENT TO THE INDIVIDUAL UNITS ARE PRIVATE.
  3. THE SANITARY SEWER WITHIN PARCEL D IS PRIVATE. THE EXISTING SANITARY SEWER WITHIN DRIED EARTH BOULEVARD IS PUBLIC.
  4. THERE IS AN EXISTING 20' PUBLIC WATER, SEWER AND UTILITY EASEMENT AT THE PROPERTY LINE, WHERE THE PRIVATE SYSTEM CONNECTS TO THE PUBLIC LINE WITHIN DRIED EARTH BOULEVARD.
  5. THE WATER HOUSE CONNECTION (WHC) SHALL BE ON THE HIGH SIDE OF THE UNIT. THE SEWER HOUSE CONNECTION (SHC) SHALL BE ON THE LOW SIDE OF THE UNIT.
  6. A 10' SEPARATION SHALL BE MAINTAINED BETWEEN THE WHC AND SHC, UNLESS OTHERWISE NOTED.
  7. ALL WHC SHALL BE 1" IN SIZE.
  8. THE STATIC PRESSURE AT THE WATER MAIN SHALL BE A MINIMUM OF 30 PSI.
  9. ALL ROADS WITHIN PARCEL D ARE PRIVATE.
  10. ALL STORM DRAINS TO BE RCP.
  11. EXISTING SANITARY STUBS FROM MANHOLE S-80 TO BE AS-BUILT FOR FINAL DESIGN. TEST PITS MAY BE REQUIRED.
  12. ALL STATIONING FOR WATER MAIN CONSTRUCTION IS MEASURED ALONG THE PROPOSED WATER MAIN.

**LEGEND**

- PROPOSED CURB & GUTTER
- PROPOSED DRIVEWAY
- PROPOSED TOWNHOME CENTERLINE OF ROAD
- PROPOSED TOWNHOME UNIT NUMBER
- 260 EXISTING 10' CONTOUR
- 256 EXISTING 2' CONTOUR
- EXISTING EASEMENT
- EXISTING CURB
- 18'00"E 598.31' EXISTING PROPERTY LINE
- EX. 8" S EXISTING SANITARY SEWER
- 15" HDPE EXISTING STORM DRAIN
- EX. 8" W EXISTING WATER LINE
- 8" S PROPOSED PRIVATE SANITARY SEWER
- PROPOSED PRIVATE STORM DRAIN
- SHC PROPOSED 4" SEWER HOUSE CONNECTION
- WHC PROPOSED WATER HOUSE CONNECTION
- 8" W PROPOSED PUBLIC WATER LINE
- PH PROPOSED PUBLIC FIRE HYDRANT
- PROPOSED PUBLIC WATER VALVE
- PROPOSED PUBLIC WATER TEE (W/ VALVES)

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND AS SHOWN ON SDP ~~05-150~~ 05-037

REVIEW FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REVIEW

*John K. Roberts* 5/15/05  
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

*John K. Roberts* 5/15/05  
HOWARD SOIL CONSERVATION DISTRICT DATE

**WATER AND SEWER LINE PLAN**  
SCALE: 1"=50'

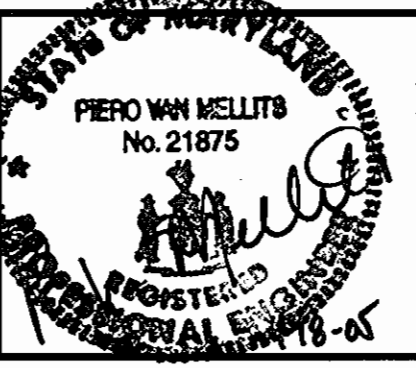
**AS BUILT**  
DATE: NOVEMBER 2005

OWNER/DEVELOPER	FAX NO. (410) 480-0543
A. NAME: BRIAN KNAUFF	B. DAYTIME TELEPHONE: (410) 480-1525
C. COMPANY: THE RYLAND GROUP	
D. ADDRESS: 6011 UNIVERSITY BOULEVARD, SUITE 260	
E. CITY: ELLICOTT CITY	STATE: MD ZIP: 21043

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*R. B. ...* 4-29-05  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
*...* 4/16/05  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

MORRIS & RITCHE ASSOCIATES, INC.  
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS  
14280 PARK CENTER DRIVE, SUITE A  
LAUREL, MARYLAND 20707  
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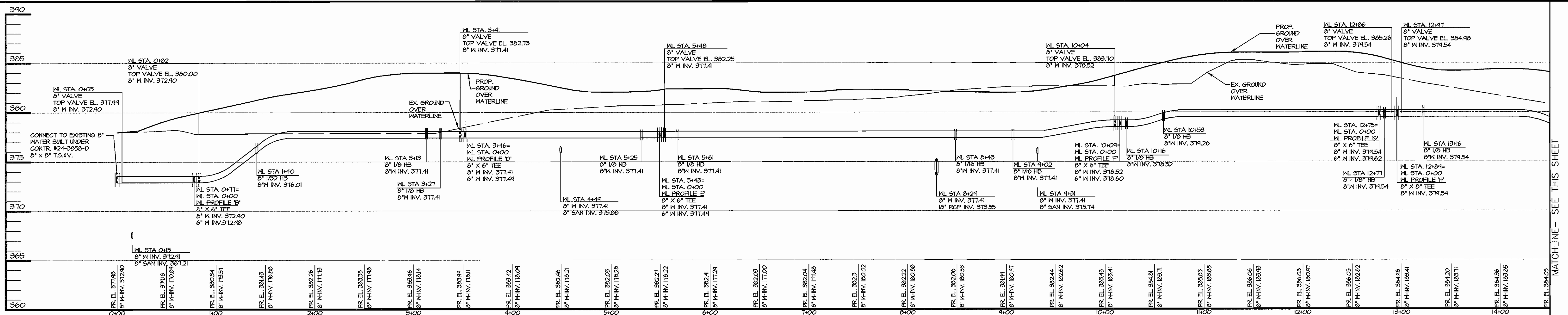


DES: HW	KSZ 1	REVISED PER HOWARD CO. COMMENTS	10/01/04
	KSZ 2	REVISED PER HOWARD CO. COMMENTS	11/30/04
DRN: HW/KSZ	KSZ 3	REVISED PER HOWARD CO. COMMENTS	01/19/05
	KDH 4	REVISED PER HOWARD CO. COMMENTS	03/02/05
CHK: PVM			
DATE: 08/31/04	BY NO.	REVISIONS	DATE

600' SCALE MAP NO. 37  
BLOCK NO. 19

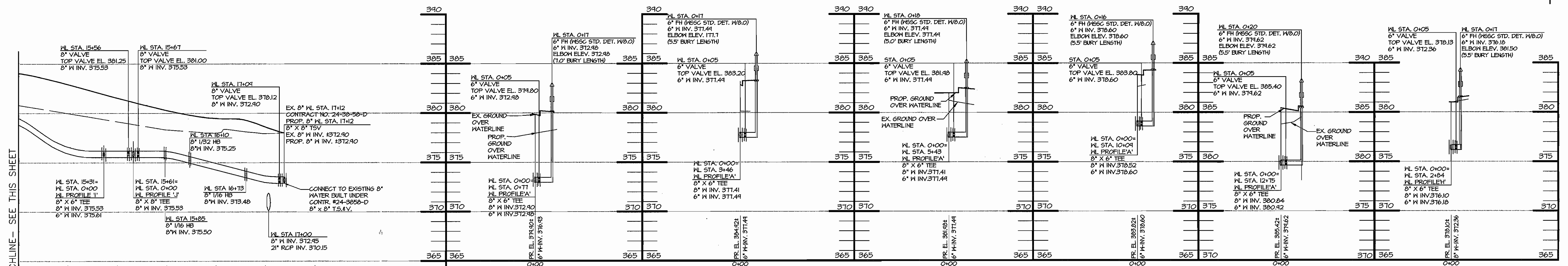
SNOWDEN RIVER BUSINESS PARK  
SECTION 1 AREA 1  
PARCEL D-1  
**SNOWDEN RIVER VILLAGE**  
CONTRACT #24-4235-D  
ZONED: NT TAX MAP: 37 GRID: 19 PARCEL 725  
(P/O PAR. 50, 255 & PAR. 212, 385)  
ELECTION DISTRICT NO.: 6 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 2 OF 4



**WATER PROFILE 'A'**

HOR. 1" = 50'  
VERT. 1" = 5'



**WATER PROFILE 'A'**

HOR. 1" = 50'  
VERT. 1" = 5'

**WATER PROFILE 'B'**

HOR. 1" = 50'  
VERT. 1" = 5'

**WATER PROFILE 'D'**

HOR. 1" = 50'  
VERT. 1" = 5'

**WATER PROFILE 'E'**

HOR. 1" = 50'  
VERT. 1" = 5'

**WATER PROFILE 'F'**

HOR. 1" = 50'  
VERT. 1" = 5'

**WATER PROFILE 'G'**

HOR. 1" = 50'  
VERT. 1" = 5'

**WATER PROFILE 'C'**

HOR. 1" = 50'  
VERT. 1" = 5'

**WATER PROFILE 'I'**

HOR. 1" = 50'  
VERT. 1" = 5'

**WATER PROFILE 'J'**

HOR. 1" = 50'  
VERT. 1" = 5'

**WATER PROFILE 'K'**

HOR. 1" = 50'  
VERT. 1" = 5'

**AS BUILT**  
DATE: NOVEMBER 2005

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND AS SHOWN ON SDP-05-097

REVIEW FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REVIEW

*Jim Meyer* 3/14/05  
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

*John R. Britton* 3/14/05  
HOWARD SOIL CONSERVATION DISTRICT DATE

PROVIDE CONTROLLED FILL TO 95% COMPACTION PER AASHTO T-180. PLACEMENT TO BE APPROVED BY THE GEOTECHNICAL ENGINEER.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

**MIRA**  
MORRIS & RITCHE ASSOCIATES, INC.  
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS  
14280 PARK CENTER DRIVE, SUITE A  
LAUREL, MARYLAND 20707  
(410) 782-9792 or (301) 776-1690  
FAX (410) 782-7395



DES: HW	KSZ 1	REVISED PER HOWARD CO. COMMENTS	10/01/04
DRN: HW/KSZ	KSZ 2	REVISED PER HOWARD CO. COMMENTS	11/30/04
CHK: PVM	KSZ 3	REVISED PER HOWARD CO. COMMENTS	01/19/05
	KSH 4	REVISED PER HOWARD CO. COMMENTS	03/02/05
DATE: 08/31/04	BY NO.	REVISIONS	DATE

**PUBLIC WATER PROFILES**

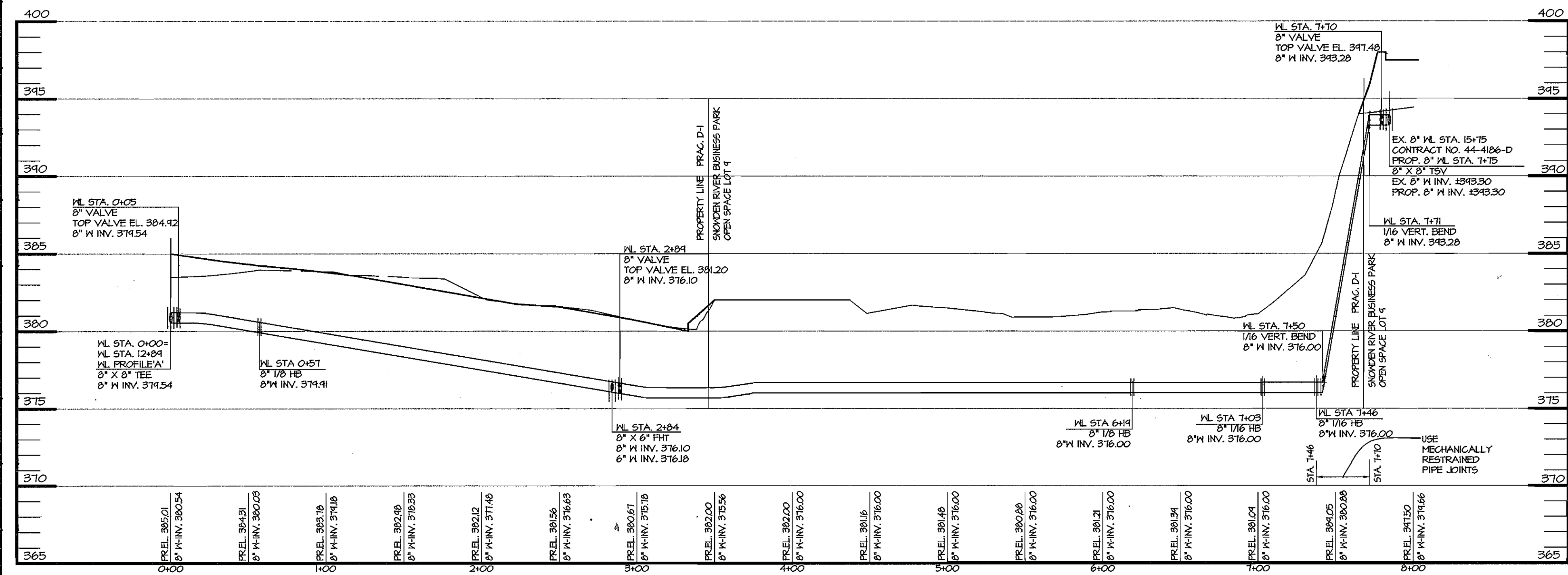
600' SCALE MAP NO. 37

BLOCK NO. 19

SNOWDEN RIVER BUSINESS PARK  
SECTION 1 AREA 1  
PARCEL D-1  
**SNOWDEN RIVER VILLAGE**  
CONTRACT # 24-4235-D  
L. 7720 F. 271  
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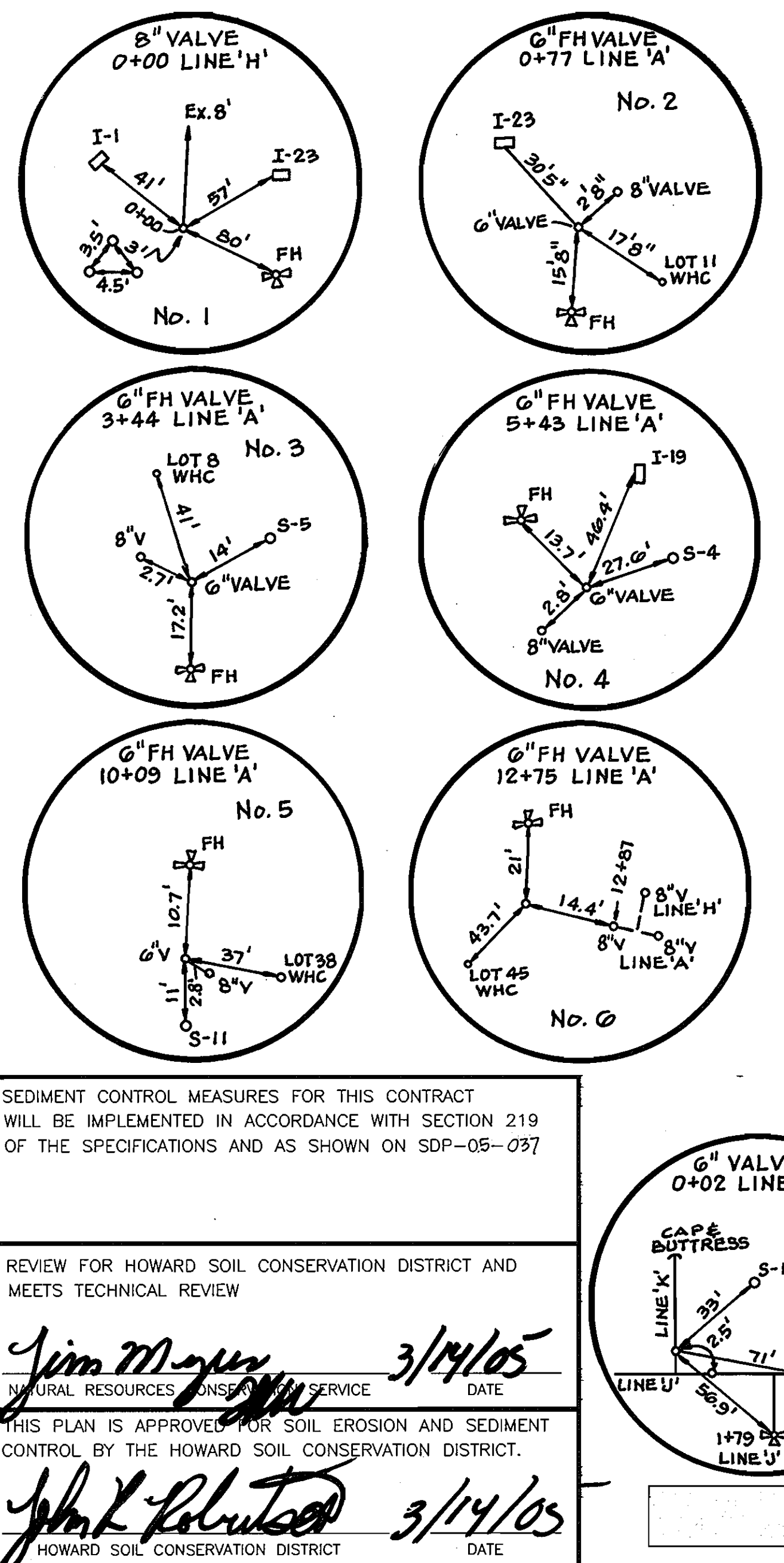
SCALE AS SHOWN  
SHEET 3 OF 4

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**WATER PROFILE 'H'**

HOR. 1" = 50'  
VERT. 1" = 5'



VALVES	FROM	TO	DISTANCE	REMARKS
8" VALVES(3) LINE 'H' 0+02	I-7	8" VALVE	42.4'	SEE DETAIL No. 10
	M-1	8" VALVE	33'	
	FH 15+31 LINE 'A'	8" VALVE	30.3'	
6" FH VALVE LINE 'K' 0+02	S-10	6" VALVE	33'	SEE DETAIL No. 11
	I-3	6" VALVE	71'	
	FH 1+79 LINE 'U'	6" VALVE	50.9'	
6" FH VALVE LINE 'J' 1+79	I-3	6" VALVE	10'	SEE DETAIL No. 12
	S-10	6" VALVE	54.4'	

LOT #	FROM	TO	DISTANCE	REMARKS
50	FH 15+31	WHC	55'	
	I-7	WHC	72'	
	M-1	WHC	40'	
51	M-1	WHC	30'	
	LOT 50 WHC	WHC	43.2'	
	LOT 52 WHC	WHC	29.4'	
52	M-1	WHC	59.0'	
	LOT 50 WHC	WHC	57.3'	
	LOT 53 WHC	WHC	23'	
53	M-1	WHC	82'	
	LOT 50 WHC	WHC	71.5'	
	LOT 54 WHC	WHC	43'	
54	I-1	WHC	10.2'	
	LOT 50 WHC	WHC	104'	
	LOT 53 WHC	WHC	43'	

VALVES	FROM	TO	DISTANCE	REMARKS
8" V 0+00 LINE 'A'	I-1	8" VALVE	41'	SEE DETAIL No. 1
	I-23	8" VALVE	57'	
	FH 0+77	8" VALVE	80'	
6" FHV 0+77 LINE 'A'	I-23	6" VALVE	30.5'	SEE DETAIL No. 2
	FH 0+77	6" VALVE	15.8'	
	LOT 11 WHC	6" VALVE	17.8'	
6" FH VALVE 3+44 LINE 'A'	S-5	6" VALVE	41'	SEE DETAIL No. 3
	LOT 8 WHC	6" VALVE	14'	
	FH 3+44	6" VALVE	17.2'	
6" FH VALVE 5+43 LINE 'A'	FH 5+43	6" VALVE	13.7'	SEE DETAIL No. 4
	I-19	6" VALVE	40.4'	
	S-4	6" VALVE	27.0'	
6" V FHV 10+09 LINE 'A'	FH 10+09	6" VALVE	10.7'	SEE DETAIL No. 5
	S-11	6" VALVE	11'	
	LOT 38 WHC	6" VALVE	37'	
6" FHV 12+75 LINE 'A'	FH 12+75	6" VALVE	21'	SEE DETAIL No. 6
	LOT 45 WHC	6" VALVE	43.7'	
	8" V 12+87	6" VALVE	14.4'	
8" V 12+89 LINE 'H'	FH 12+75	8" V LINE 'H'	32.5'	SEE DETAIL No. 7
	FHV 12+75	8" V LINE 'H'	17.1'	
	LOT 45 WHC	8" V LINE 'H'	57'	
6" FHV 2+84 LINE 'H'	FH 2+84	6" VALVE	8.9'	SEE DETAIL No. 8
	8" V 2+80	6" VALVE	2.0'	
6" FHV 15+31 LINE 'A'	FH 15+31	6" VALVE	15.0'	SEE DETAIL No. 9
	I-7	6" VALVE	18.7'	
	LOT 47 WHC	6" VALVE	38.2'	

LOT #	FROM	TO	DISTANCE	REMARKS
1	I-25	WHC	10.5'	
	FH 0+77	WHC	77.5'	LINE 'A'
	LOT 2 WHC	WHC	24.5'	
2	I-25	WHC	19'	
	LOT 3 WHC	WHC	33'	
	LOT 13 WHC	WHC	44'	
3	I-25	WHC	49'	
	LOT 14 WHC	WHC	43.5'	
	LOT 4 WHC	WHC	28.3'	
4	LOT 5 WHC	WHC	30'	
	LOT 15 WHC	WHC	43'	
	LOT 10 WHC	WHC	45.8'	
5	FH 3+44	WHC	71.8'	LINE 'A'
	S-5	WHC	94'	
	LOT 0 WHC	WHC	22.5'	
6	FH 3+44	WHC	01'	LINE 'A'
	S-5	WHC	78'	
	LOT 7 WHC	WHC	10.3'	
7	FH 3+44	WHC	55.4'	LINE 'A'
	S-5	WHC	60.4'	
	LOT 8 WHC	WHC	31.2'	
8	FH 3+44	WHC	47.0'	LINE 'A'
	S-5	WHC	43.3'	
	LOT 17 WHC	WHC	33.0'	
9	FH 0+77	WHC	39'	LINE 'A'
	I-23	WHC	51'	
	FH 0+77	WHC	40.0'	
10	FH 0+77	WHC	9.8'	LINE 'A'
	I-25	WHC	74'	
	I-23	WHC	48'	
11	FH 0+77	WHC	32.5'	LINE 'A'
	I-25	WHC	54.7'	
	LOT 10 WHC	WHC	23'	
12	FH 0+77	WHC	60.5'	LINE 'A'
	I-25	WHC	30.5'	
	LOT 11 WHC	WHC	28'	
13	FH 0+77	WHC	91'	LINE 'A'
	I-25	WHC	32.3'	
	LOT 2 WHC	WHC	44'	
14	I-25	WHC	51.5'	
	LOT 13 WHC	WHC	33'	
	LOT 3 WHC	WHC	43.7'	
15	I-25	WHC	73'	
	LOT 3 WHC	WHC	40'	
	LOT 14 WHC	WHC	25.2'	
16	LOT 15 WHC	WHC	28.5'	
	LOT 4 WHC	WHC	40'	
	FH 3+44	WHC	55'	LINE 'A'
17	FH 3+44	WHC	45.3'	
	S-5	WHC	19.8'	
	S-3	WHC	110'	
18	FH 3+44	WHC	51'	
	S-5	WHC	23'	
	S-3	WHC	82.4'	
19	FH 3+44	WHC	72.3'	
	S-5	WHC	54'	
	S-3	WHC	47.8'	
20	FH 3+44	WHC	91'	
	S-5	WHC	70.8'	
	S-3	WHC	27'	
21	S-3	WHC	21'	
	I-7	WHC	50.7'	
	S-4	WHC	78.3'	
22	S-3	WHC	43.0'	
	I-7	WHC	28.4'	
	S-4	WHC	50.7'	
23	S-3	WHC	72.0'	
	I-7	WHC	8.3'	
	S-4	WHC	23.7'	
24	FH 5+43	WHC	27.3'	LINE 'A'
	FH VALVE 5+43	WHC	35'	
	LOT 25 WHC	WHC	35.2'	
25	FH 5+43	WHC	02.1'	LINE 'A'
	FH VALVE 5+43	WHC	70.2'	
	LOT 26 WHC	WHC	24.9'	

LOT #	FROM	TO	DISTANCE	REMARKS
26	I-17	WHC	48.8'	
	LOT 27 WHC	WHC	30.3'	
	LOT 25	WHC	24.9'	
27	I-17	WHC	35.3'	
	LOT 20 WHC	WHC	30.3'	
	LOT 28 WHC	WHC	23.3'	
28	I-17	WHC	42.0'	
	LOT 27 WHC	WHC	23.3'	
	LOT 29 WHC	WHC	35.7'	
29	I-17	WHC	70'	
	LOT 30 WHC	WHC	24.2'	
	M-3	WHC	80'	
30	I-17	WHC	91.5'	
	M-3	WHC	03.3'	
	LOT 31 WHC	WHC	30.3'	
31	M-3	WHC	39.4'	
	I-15	WHC	07.5'	
	LOT 32 WHC	WHC	52.1'	
32	M-3	WHC	38.3'	
	I-15	WHC	47'	
	LOT 33 WHC	WHC	31'	
33	M-3	WHC	59'	
	I-15	WHC	32'	
	LOT 34 WHC	WHC	30'	
34	M-3	WHC	81.4'	
	I-15	WHC	34.0'	
	S-10	WHC	24.4'	
35	I-15	WHC	13.8'	
	S-10	WHC	31.4'	
	S-9	WHC	47'	
36	I-15	WHC	32'	
	S-10	WHC	21.0'	
	S-9	WHC	18.2'	
37	I-15	WHC	01.7'	
	S-10	WHC	40'	
	S-9	WHC	20.0'	
38	S-9	WHC	50.0'	
	S-11	WHC	33.3'	
	FH 10+09	WHC	40.4'	LINE 'A'
39	S-9	WHC	83.0'	
	S-11	WHC	18.3'	
	FH 10+09	WHC	39.2'	LINE 'A'
40	FH 10+09	WHC	45'	LINE 'A'
	S-11	WHC	03.7'	
	LOT 41 WHC	WHC	31'	
41	FH 10+09	WHC	74'	LINE 'A'
	LOT 42 WHC	WHC	31.4'	
	LOT 40 WHC	WHC	30.8'	
42	FH 10+09	WHC	105'	LINE 'A'
	FH VALVE 12+75	WHC	29.1'	
	LOT 41 WHC	WHC	31.4'	
43	FH 12+75	WHC	108.5'	LINE 'A'
	FH VALVE 12+75	WHC	103'	
	LOT 44 WHC	WHC	30'	
44	FH 12+75	WHC	80.3'	LINE 'A'
	FH VALVE 12+75	WHC	73'	
	LOT 45 WHC	WHC	30'	
45	FH 12+75	WHC	55'	LINE 'A'
	FH VALVE 12+75	WHC	44'	
	LOT 44 WHC	WHC	30'	
46	FH 15+31	WHC	00.8'	LINE 'A'
	I-7	WHC	05'	
	LOT 47 WHC	WHC	31'	
47	FH 15+31	WHC	35.8'	
	I-7	WHC	40.3'	
	LOT 48 WHC	WHC	30.5'	
48	FH 15+31	WHC	5.7'	
	I-7	WHC	31'	
	LOT 49 WHC	WHC	29.5'	
49	FH 15+31	WHC	24'	
	I-7	WHC	45.5'	
	LOT 50 WHC	WHC	31'	

OWNER/DEVELOPER: SNOWDEN RIVER BUSINESS PARK SECTION 1 AREA 1 PARCEL D-1  
 A. NAME: BRIAN KNAUFF B. DAYTIME TELEPHONE: (410) 480-1525  
 C. COMPANY: THE RYLAND GROUP  
 D. ADDRESS: 6011 UNIVERSITY BOULEVARD, SUITE 260  
 E. CITY: ELLICOTT CITY STATE: MD ZIP: 21043

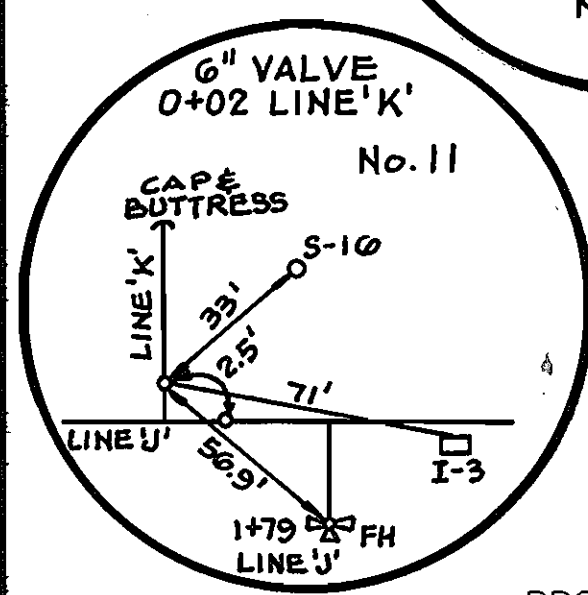
SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND AS SHOWN ON SDP-05-037

REVIEW FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REVIEW

*Jim Meyer* 3/14/05  
 NATURAL RESOURCES CONSERVATION SERVICE DATE

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

*John K. Roberts* 3/14/05  
 HOWARD SOIL CONSERVATION DISTRICT DATE



PROVIDE CONTROLLED FILL TO 95% COMPACTION PER AASHTO T-180. PLACEMENT TO BE APPROVED BY THE GEOTECHNICAL ENGINEER.

**AS BUILT**  
 DATE: NOVEMBER 2005

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 CHIEF, BUREAU OF UTILITIES  
*Robert Benjamin* 3-18-05

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
*Mr. [Signature]* 05/05

MORRIS & FITCHE ASSOCIATES, INC.  
 ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS  
 14280 PARK CENTER DRIVE, SUITE A  
 LAUREL, MARYLAND 20707  
 (410) 782-9782 or (301) 776-1800  
 FAX (410) 782-7395

DES: HW  
 DRN: HW/KSZ  
 CHK: PVM  
 DATE: 08/31/04

SNOWDEN RIVER BUSINESS PARK  
 SECTION 1 AREA 1  
 PARCEL D-1  
**SNOWDEN RIVER VILLAGE**  
 CONTRACT # 24-4235-D  
 7720 F. 271  
 ZONED: NT TAX MAP: 37 GRID: 19 PARCEL 725  
 (P/O PAR. 50, 255 & PAR. 212, 385)  
 ELECTION DISTRICT NO: 6 HOWARD COUNTY, MARYLAND

P:\PROJECTS\127353\24\PREL\127353\_24\_PRR\127353\_24\_SSPR0.dwg, 10/01/05, 3/17/2005 3:45:01 PM, Copyright 2004 AEC, Inc.