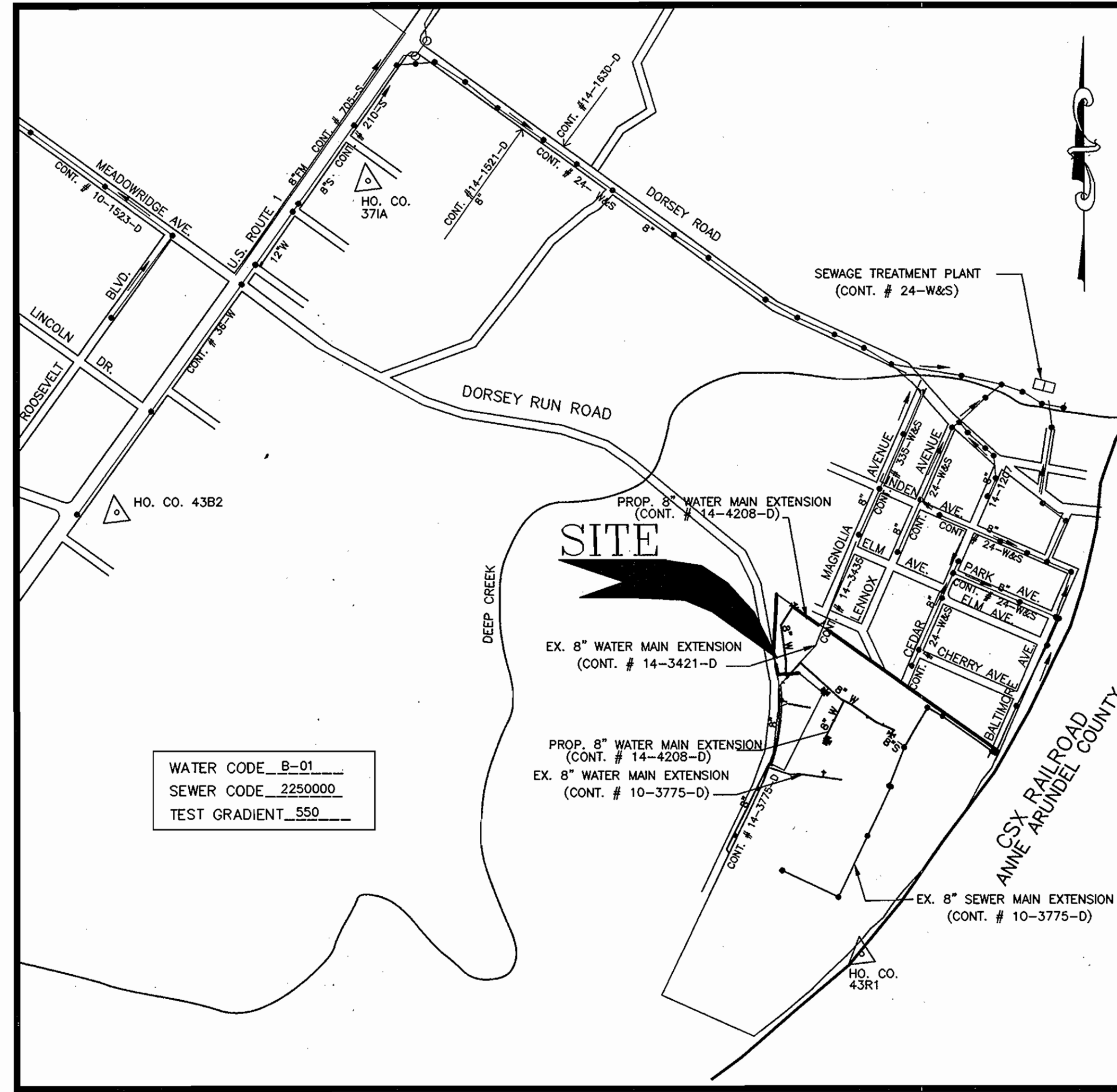


QUANTITY TABLE

ITEMS	QUANTITIES ESTIMATED		TYPE	MANUFACTURER/SUPPLIER	
	QUANTITIES	ESTIMATED		QUANTITIES	MANUFACTURER/SUPPLIER
8" DIP WATER MAIN	1716 L.F.	1716 L.F.	CL52 DP	GRIFIN PIPE	BRS
6" WATER HOUSE CONNECTION	305 L.F.	305	"	"	"
8"x8" TEE	2	2	MJSIGMA	SIGMA CORP.	BRS
FIRE HYDRANTS	4	4	MUELLER	MUELLER CO.	BRS
8"x 6" TEE	9	9	MJSIGMA	SIGMA CORP.	BRS
6" VALVE	9	9	R302 GATE	MUELLER CO.	BRS
8" CAP & BUTTRESS	2	2	MJSIGMA	SIGMA CORP.	BRS
8"x8" TAPPING SLEEVE & VALVE	2	2	SS	JCM INDUSTRIES	BRS
1/8 HB	3	3	"	SIGMA CORP.	BRS
1/16 HB	1	1	"	"	BRS
1/32 HB	4	4	"	"	BRS
8"V.	4	4	R302GATE	MUELLER CO.	BRS
8"SEWER MAIN	13 L.F.	13 L.F.	"	JM MFG	BRS
NAME OF UTILITY CONTRACTOR: CHESAPEAKE CONTRACTING GROUP					
SURVEY AND DRAFTING DIVISION AS-BUILT DATE					

SEDIMENT CONTROL ADDRESSED UNDER SDP-05-073



VICINITY MAP

SCALE: 1"=600'

TYPE OF BUILDING	WAREHOUSE
No. OF UNITS	5
No. OF WATER HOUSE CONNECTION	5
No. OF TWIN WATER HOUSE CONNECTION	N/A
No. OF SEWER HOUSE CONNECTIONS	1
ELECTION DISTRICT	FIRST
DRAINAGE AREA	PATAFSCO
TREATMENT PLANT	PATAFSCO

CONTRACT NO.: 14-4208-D
HOWARD BUSINESS PARK,
PARCEL B-4
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

GENERAL NOTES

- 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.
- TOPOGRAPHY ON-SITE BASED ON A FIELD RUN SURVEY CONDUCTED IN SEPTEMBER 2003 AND SUPPLEMENTED BY AERIAL MAPPING TOPOGRAPHIC SURVEY BY WINGS AERIAL MAPPING CO, INC. IN FEBRUARY 1999. BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT SEPTEMBER 1999 BY MILDENBERG, BOENDER & ASSOCIATES, INC.
- HORIZONTAL AND VERTICAL DATUMS BASED ON (NAD'83) MARYLAND STATE COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS.

STA. No. 43B6	N 550,601.597	ELEV. 210.54
STA. No. 43B2	N 551,654.993	ELEV. 209.59
STA. No. 371A	N 553,315.147	ELEV. 195.75
STA. No. 43R1	N 548,305.502	ELEV. 134.53
- 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 MONIES OWNED 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 SHOWN ON THESE PLANS:

AT&T	1-800-252-1133
BCE(CONSTRUCTION SERVICES)	410-850-4820
BCE(EMERGENCY)	410-685-1400
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE CO.	410-795-1390
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 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 18.114(a) OF THE HOWARD COUNTY CODE.
- 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 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.
- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
- COMPACTION IN FILL AREAS TO BE 95% AS DETERMINED PER AASHTO T-180.
- THE CONSTRUCTION IS TO BE LIMITED TO THAT WHICH CAN BE BACKFILLED AND STABILIZED IN ANY ONE WORKING DAY.

INDEX OF DRAWINGS

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

OWNER
 DORSEY ROCK, LLC
 C/O ROCK REALTY, INC.
 25 MAIN STREET
 REISTERSTOWN, MARYLAND 21136

HOWARD BUSINESS PARK
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 14-4208-D

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.

[Signatures and Dates]

DEVELOPER'S SIGNATURE: *[Signature]* DATE: 10/21/05

DEVELOPER'S NAME: *[Name]*

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS. DATE: 11/4/05

STATE-NATURAL RESOURCE CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE SOIL CONSERVATION DISTRICT. DATE: 11/4/05

HOWARD SCD

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 R. L. B. B. B. 10-28-05
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
[Signature] 11/8/05
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
 (410) 987-0286 Balt. (301) 621-5521 Wash. (410) 987-0288 Fax

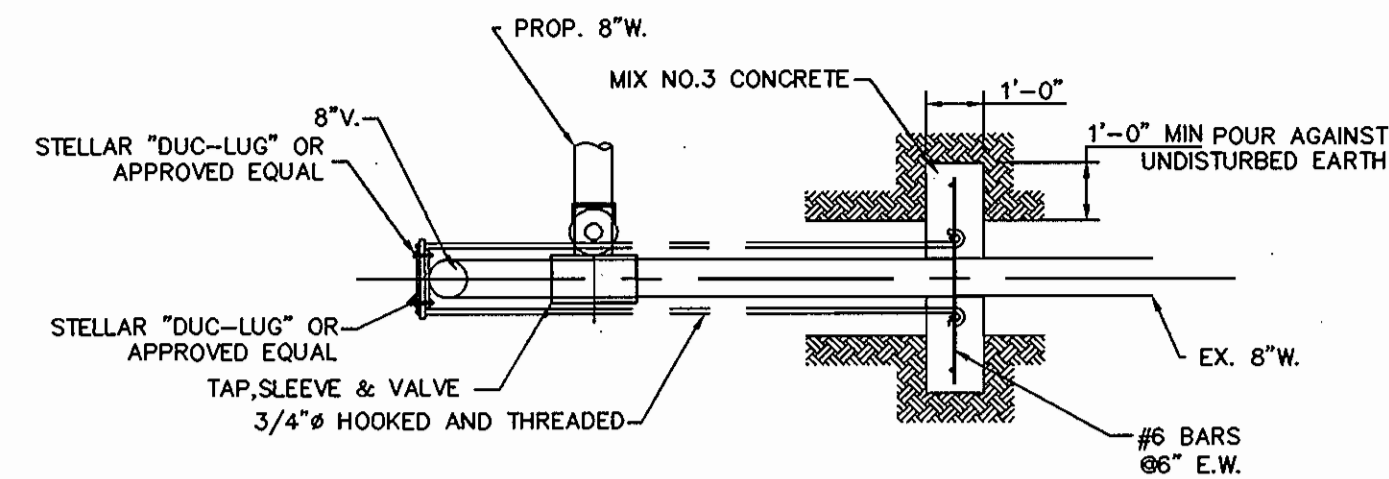


engineering HSP					
illustration HSP					
approval					
project	98001	KCI	I	AS-BUILT DATA SHOWN	4/10/07
date	OCT 2005	BY	NO.	REVISION	DATE

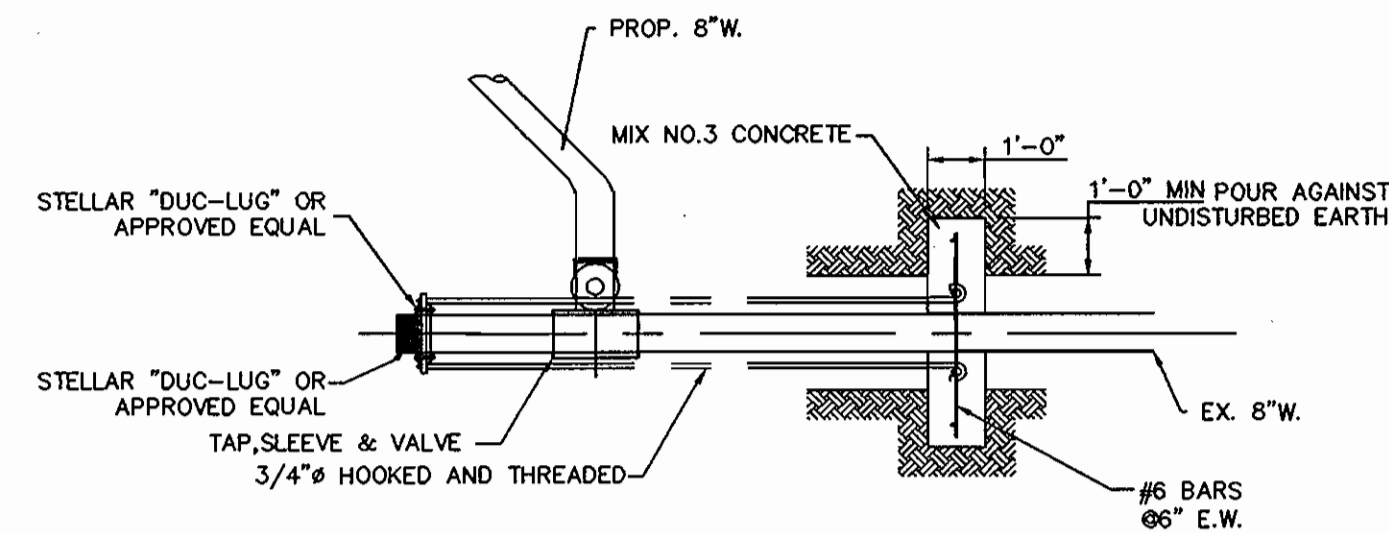
TITLE SHEET

600' SCALE MAP NO. 43 BLOCK NO. 6

HOWARD BUSINESS PARK, PARCEL B-4
 CONTRACT NO. 14-4208-D
 TAX MAP 43 PARCEL 701
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND



DEADMAN DETAIL @ STA. 36+59.08
NTS

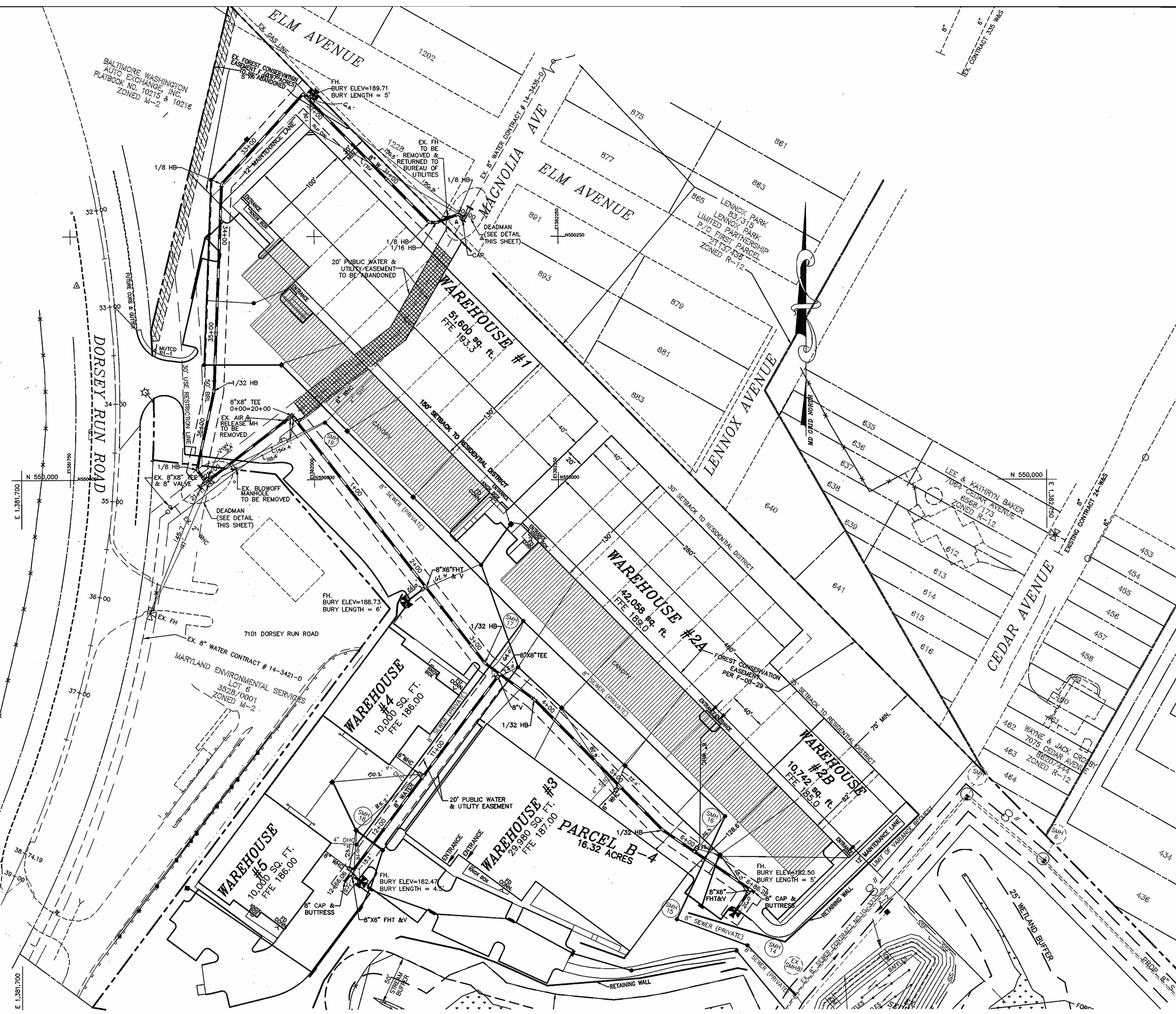
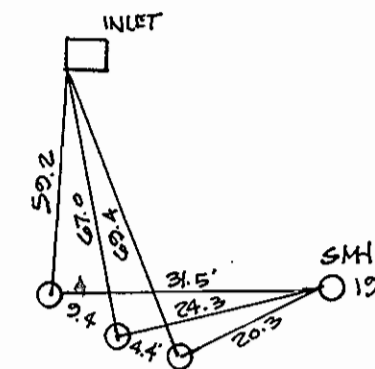


DEADMAN DETAIL - STA. 30+00
NTS

SEQUENCE OF CONSTRUCTION
FOR THE ABANDONMENT
OF THE EXISTING 8" WATER MAIN

1. INSTALL DEAD MAN BUTTRISS AT BOTH ENDS (TWO WEEKS PRIOR TO APPLYING LOAD)
2. INSTALL 8"x8" T.S & V AT BOTH ENDS.
3. INSTALL PROPOSED 8" W. STA. 30+00 TO 36+59.08.
4. CLEAN, DISINFECT & PLACE IN-SERVICE.
5. 4-HOUR NIGHT TIME OUTAGE TO CUT AND CAP EXISTING MAIN AT STA. 30+00 AND TO CUT AND VALVE AT STA. 36+59.08..

NOTIFY ALL AFFECTED CUSTOMERS OF OUTAGE.
7125 DORSEY RUN ROAD
7121 DORSEY RUN ROAD
7111 DORSEY RUN ROAD
7101 DORSEY RUN ROAD
7000 MAGNOLIA AVENUE



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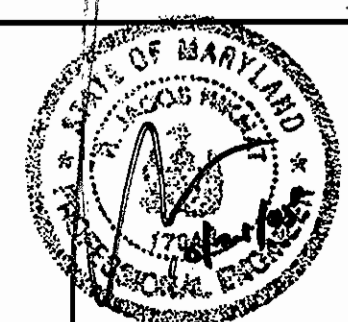
DEVELOPER'S SIGNATURE
Mark Clavy
DATE 10/21/05

OWNER
DORSEY ROCK, LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERSTOWN, MARYLAND 21136

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) 897-0286 Ball. (301) 621-5521 Wash. (410) 897-0288 Fax.



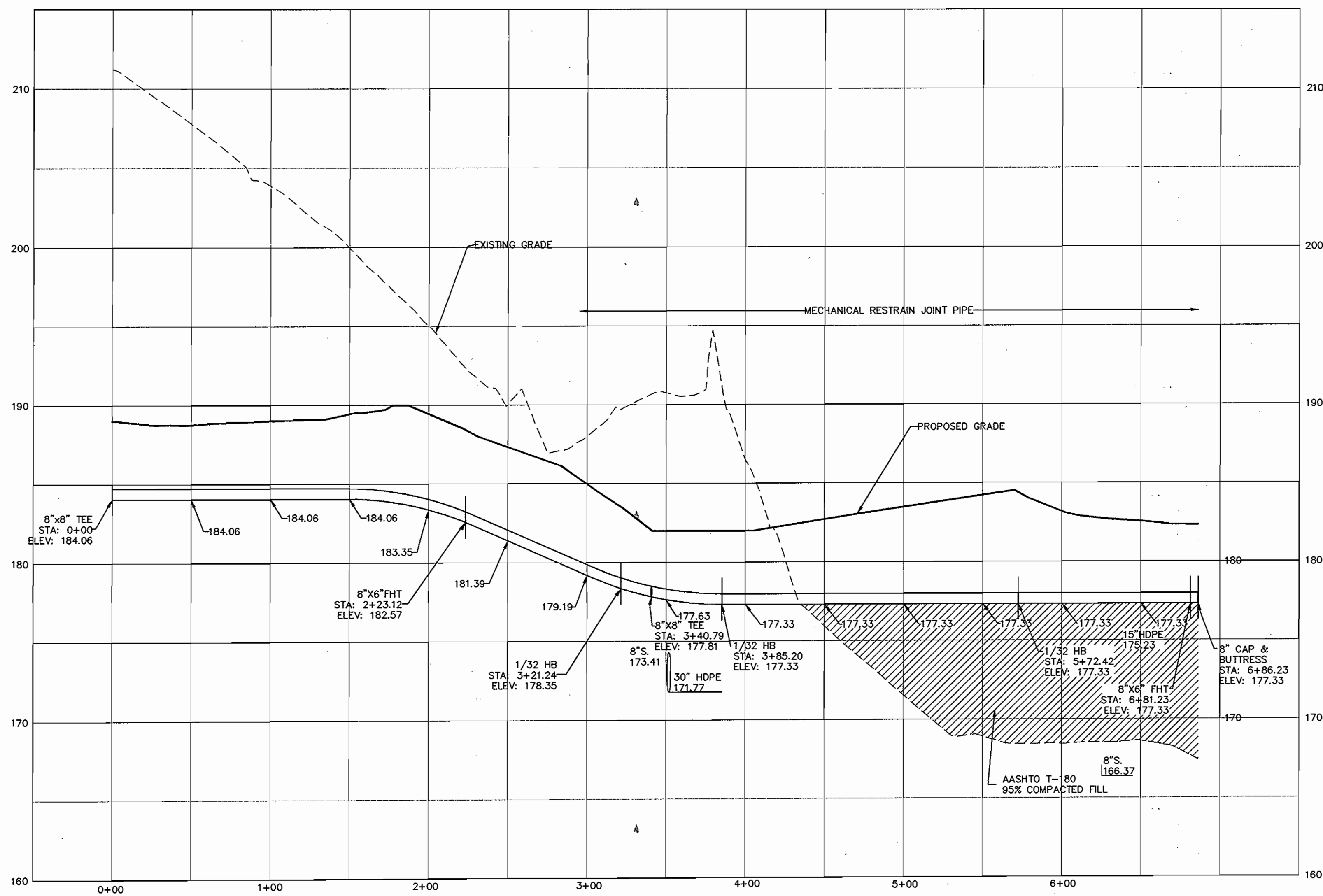
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illustration	HSP				
approval					
project	98001	K.C.I.	1	APPROX DATA	4/10/07
date	OCT 2005	BY	NO.	REVISION	DATE

WATER PLAN

HOWARD BUSINESS PARK,
PARCEL B-4
CONTRACT NO. 14-4208-D
TAX MAP 43 PARCEL 701
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

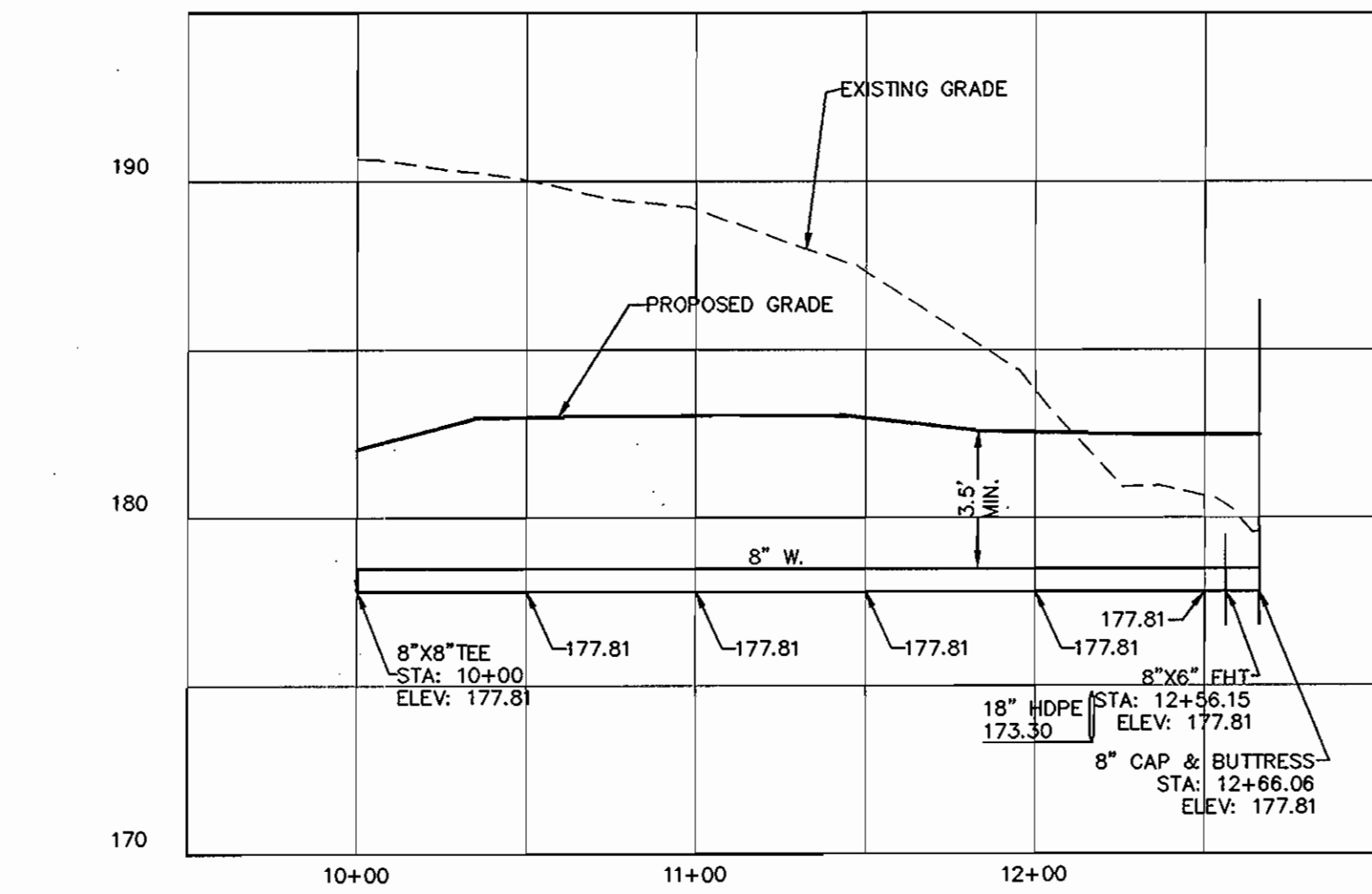
scale
AS SHOWN
2 of 3

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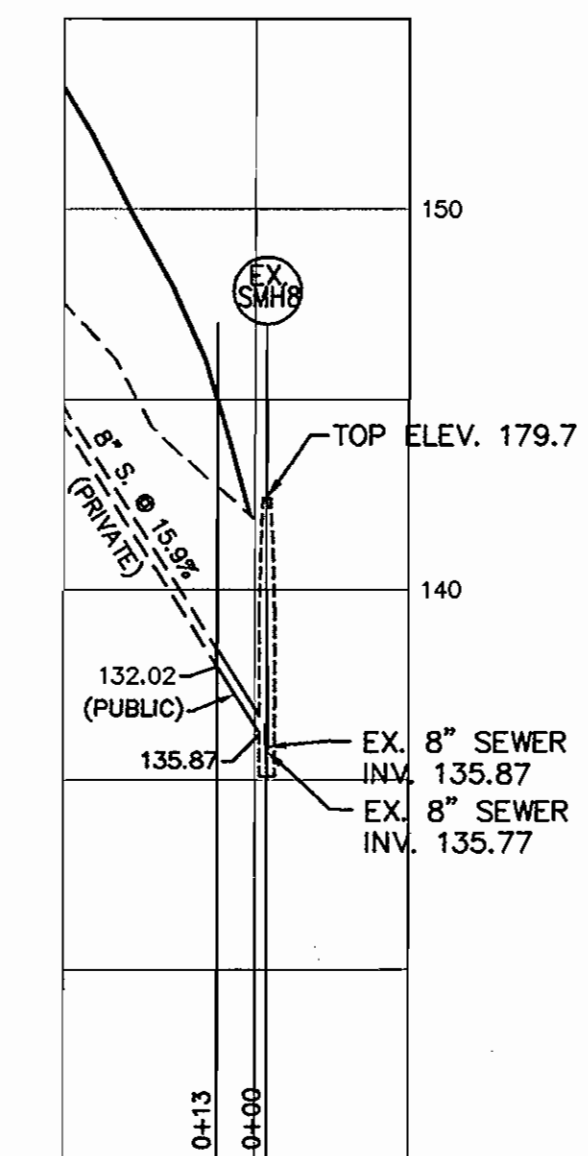
WATER MAIN PROFILE - STA. 0+00 THRU STA. 6+91.51

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



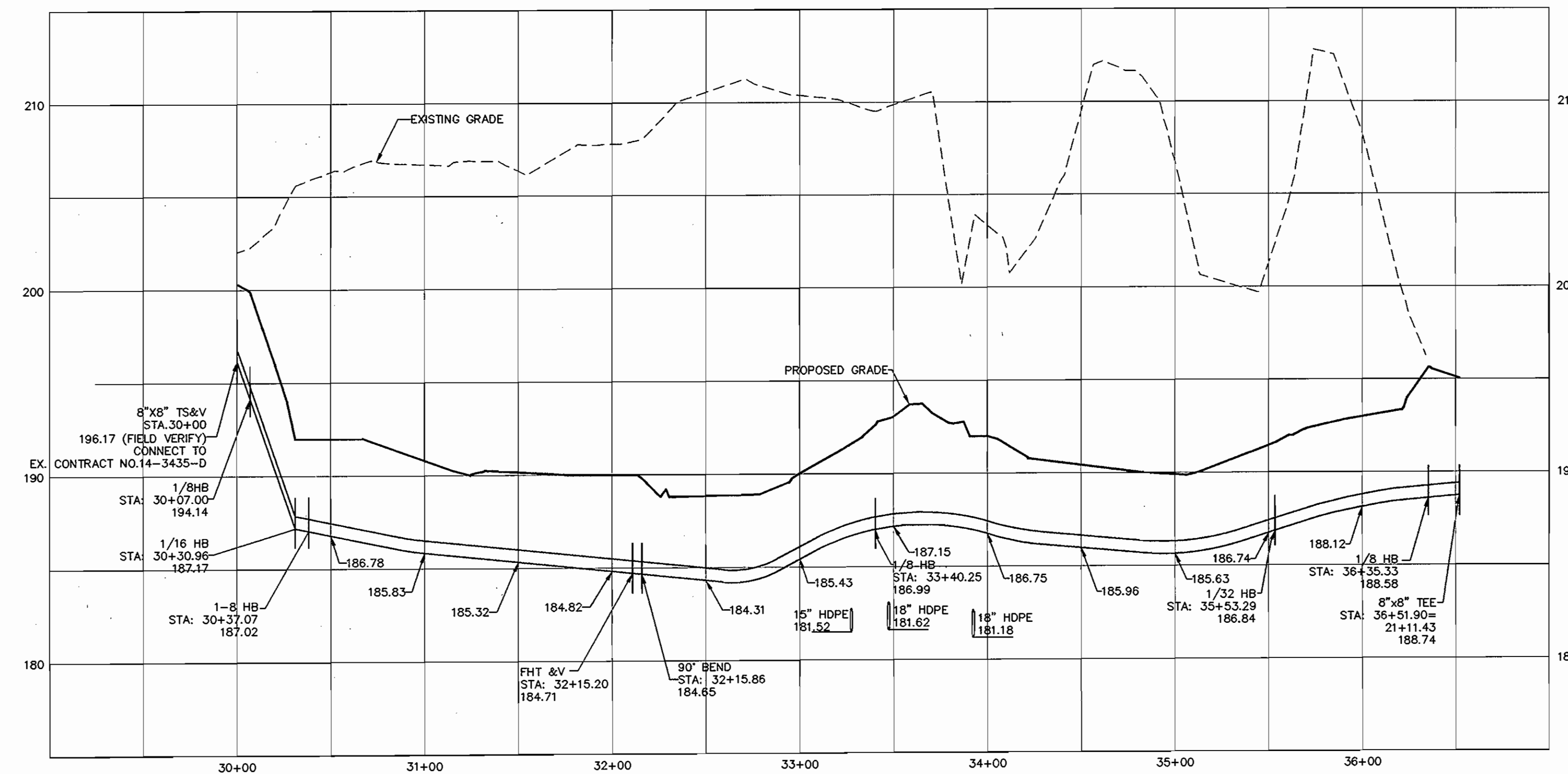
WATER MAIN PROFILE - STA. 10+00 THRU STA. 12+66.06

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



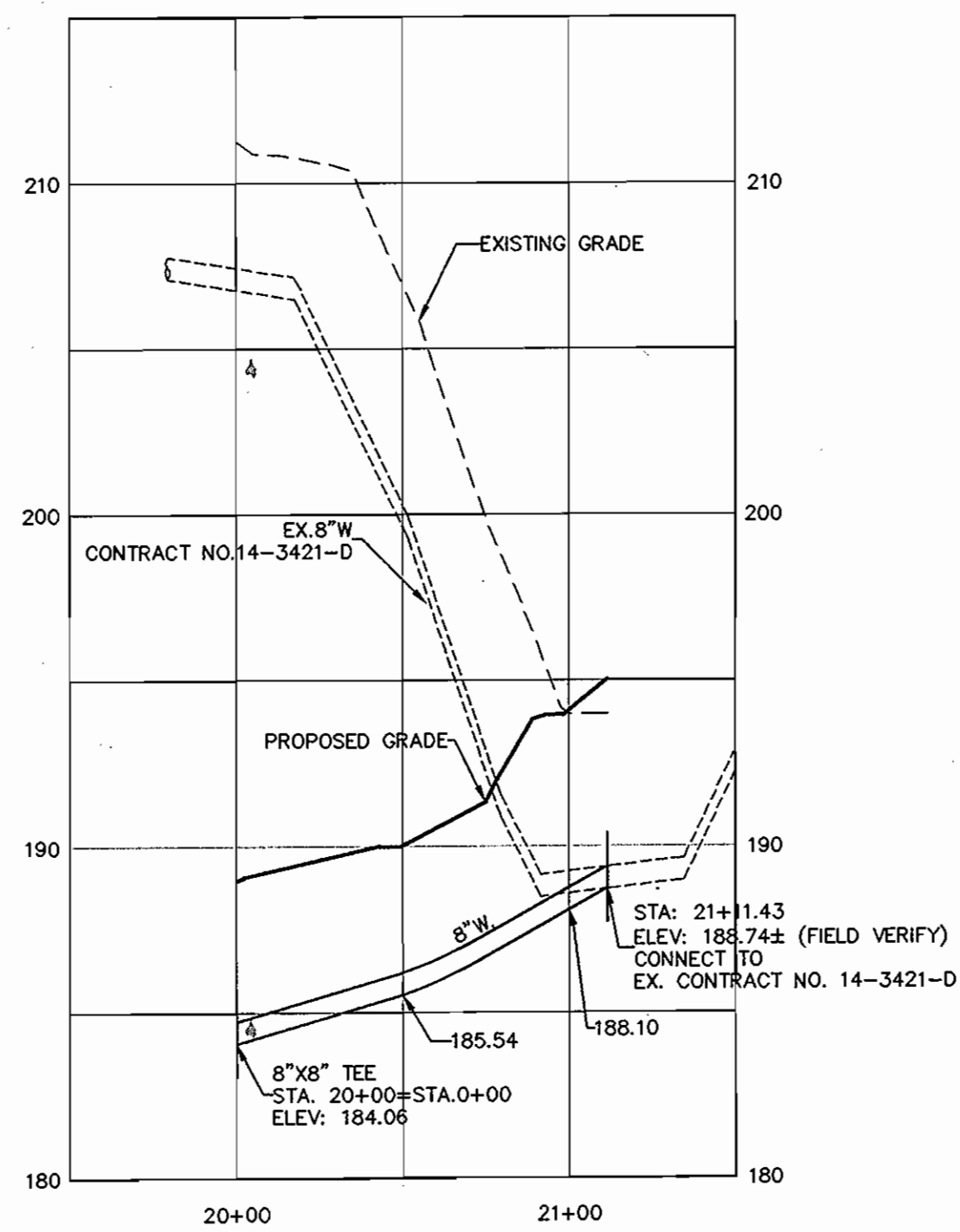
SEWER PROFILE - EASEMENT TO EX. SMH 8

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



WATER MAIN PROFILE - STA. 30+00 THRU STA. 36+25.10

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



WATER MAIN PROFILE - STA. 20+00 THRU STA. 21+11.43

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

OWNER

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25 MAIN STREET
REISTERSTOWN, MARYLAND 21136

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DEVELOPER'S SIGNATURE: *[Signature]*
DATE: 10/28/05
DEVELOPER'S NAME: *[Name]*

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

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engineering	HSP			
illustration	HSP			
approval				
project	98001			
date	OCT 2005	BY	NO.	REVISION

WATER PROFILES

600' SCALE MAP NO. 43 BLOCK NO. 6

HOWARD BUSINESS PARK, PARCEL B-4

CONTRACT NO. 14-4208-D
TAX MAP 43 PARCEL 701
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND