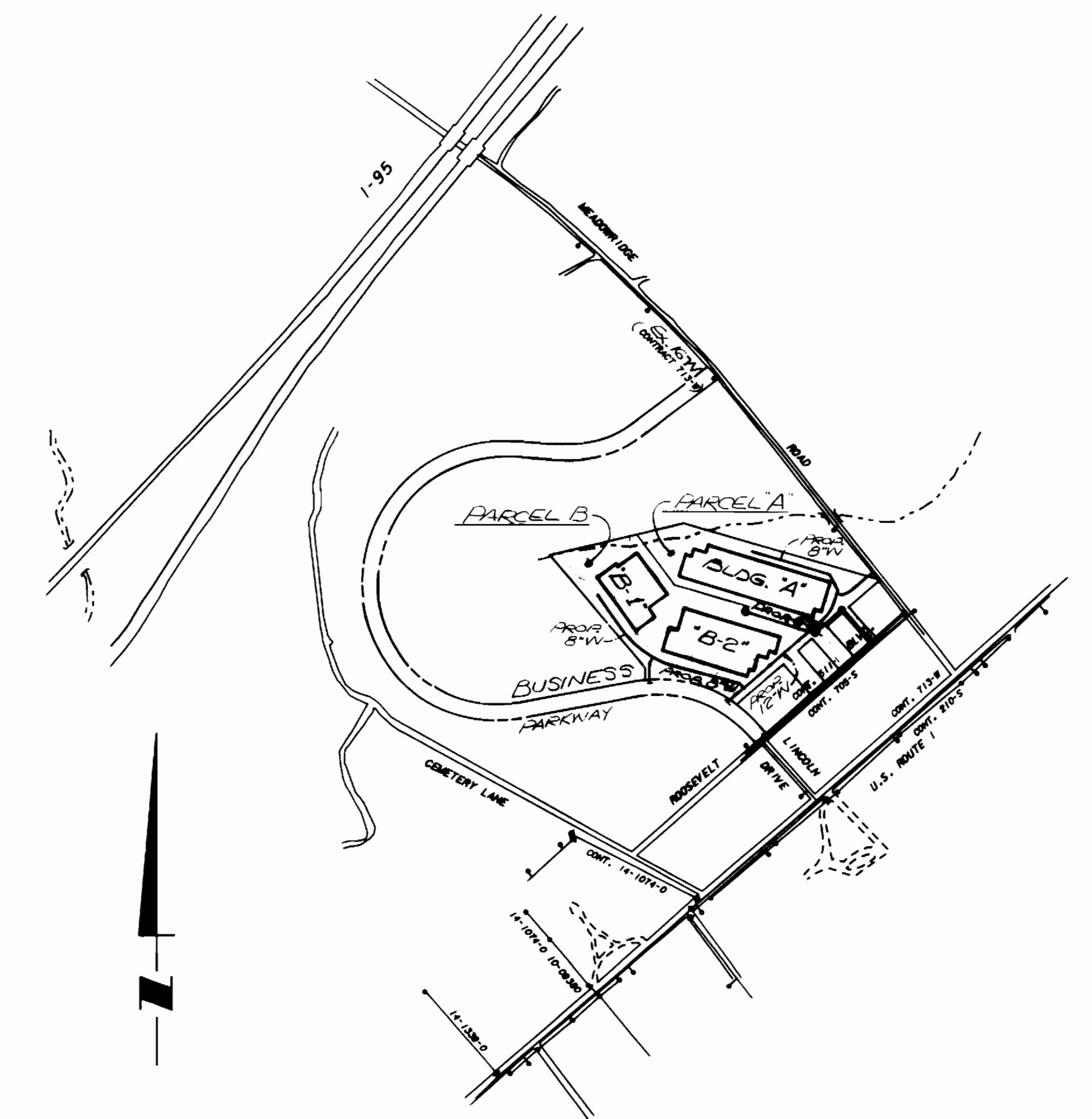


- GENERAL NOTES
- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
 - ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
 - ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 6'. CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED.
 - 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. 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 SYMBOLS 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.
 - CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.

STATE HIGHWAY ADMINISTRATION	531-5533
BALTIMORE GAS & ELECTRIC CO.	CONTRACTOR SERVICE 561-2585
BALTIMORE GAS & ELECTRIC CO.	UNDERGROUND DAMAGE CONTROL 234-5621
BALTIMORE GAS & ELECTRIC CO.	TROUBLE SHOOTING 298-9013
MISS UTILITY	1-559-0100
COLONIAL PIPELINE CO.	795-1390
BUREAU OF UTILITIES, HOWARD CO.	
DEPARTMENT OF PUBLIC WORKS	992-2366
 - TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO 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 LINE OF EXCAVATION.
 - ALL WATER MAINS TO BE D.I.P. 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 STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOILS AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 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 AN INSIDE METER SETTING, UNLESS OTHERWISE NOTED.
 - EXTEND PIPE AS NECESSARY TO INSTALL PLUG FOR BLOCKING, WHERE WATER MAINS END WITH VALVES.
 - ALL SEWER MAINS SHALL BE C.S.P.X., D.I.P., V.C.P.X., A.C.P. CLASS 2400 OR P.V.C. UNLESS OTHERWISE NOTED.
 - THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
 - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
 - ORIGINAL GROUND OVER SEWER WAS OBTAINED BY FIELD SURVEY IN SEPTEMBER, 1987.
 - STRAW BALE DIKES AND SILT FENCES ARE INTERCHANGEABLE.
 - TRENCHES CUT IN ROOSEVELT BOULEVARD ARE TO BE REPAIRED IN ACCORDANCE WITH HCDPW STD. R-2.01, SECTION NO. P.2.
 - ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH A.W.W.A. SPECIFICATION C-153 DUCTILE IRON COMPACT FITTINGS, 3 INCH THROUGH 12 INCH FOR WATER AND OTHER LIQUIDS.
 - ALL SERVICE CLAMPS ARE TO HAVE STAINLESS STEEL STRAPS.



MEADOWRIDGE BUSINESS PARK BUILDINGS A & B

SANITARY SEWER & WATER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

VICINITY MAP **SCALE: 1" = 600'**

WATER & SEWER CODE:
(FOR COUNTY USE)
WATER: B01
SEWER: 2153000

DRAINAGE AREA: FATAPSCO
TYPE OF BUILDINGS: WAREHOUSES
NO. OF SHC: 3
NO. OF WHC: 3
NO. OF LOTS: 2

MANHOLE STAKE-OUT TABLE		
MH	NORTH	EAST
601	492113.486	866447.503
602	492275.401	866306.052
603	492142.912	866156.231
604	492250.242	865804.230
605	492361.073	866440.752

* 2 FH changed to 6.0 x 6.5' from 504 5.5'

QUANTITIES			
ITEM	BID	AS BUILT	MAT'L. / SUPPLIER
50' FIRE HYDRANT EA	2	1	Mceller A&P Water & S.
55' FIRE HYDRANT EA	3	2	" " " "
75' FIRE HYDRANT EA	1	1	" " " "
85' FIRE HYDRANT EA	1	1	" " " "
6" F.H.	-	1	" " " "
8" CAP EA	3	3	" " " "
8" x 8" T EA	3	3	" " " "
8" WATER LF	1606	1724	United States P & F.
12" WATER LF	1143	1110	" " " "
6" WATER LF	88	62	A & P Water & Sewer
16" x 12" T.S. BK EA	1	1	" " U.S. P & Co.
12" 1/8 BEND EA	1	1	" " " "
12" 1/8 BEND EA	3	3	" " " "
12" 1/2 T EA	1	1	" " " "
12" x 6" T EA	2	2	" " " "
8" x 8" CROSS EA	1	1	" " " "
12" x 8" T EA	1	1	" " " "
8" V EA	5	5	" " " "
6" V EA	9	9	" " " "
8" x 6" T EA	5	5	" " " "
8" 1/8 BEND EA	2	2	" " " "
8" 1/8 BEND EA	1	1	" " " "
8" PLUS EA	3	3	" " " "
12" CAP EA	2	2	" " " "
12" x 8" R EA	2	2	" " " "
6" SEWER LF	45	45	Public - 106 Private A&P Water & Sewer
8" SEWER LF	348	332	" " 368 " Charlotte Pipe
48" MH EA	4	4	" " " "

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
[Signature] 8/10/89
DATE
U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
[Signature] 8/9/89
DATE
HOWARD S.C.D.

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, AND SITE PLAN SDP-89-69

BEFORE BEGINNING CONSTRUCTION, CONTACT "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 8/14/89
DIRECTOR OF PUBLIC WORKS DATE

[Signature] 8/11/89
CHIEF, BUREAU OF ENGINEERING DATE

[Signature] 8/4/89
CHIEF, BUREAU OF UTILITIES DATE

[Signature] 8/10/89
CHIEF, LAND DEVELOPMENT DIVISION DATE

ENGINEERS-ARCHITECTS-PLANNERS-SCIENTISTS
SURVEYORS-PHOTOGRAMMETRISTS

GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
BALTIMORE, MARYLAND 21204
(301) 296-4100

[Signature]

DES: JDP			
DRN: JDP/um			
CHK: RHM			
DATE: 8/27/88	BY NO.	REVISIONS	DATE

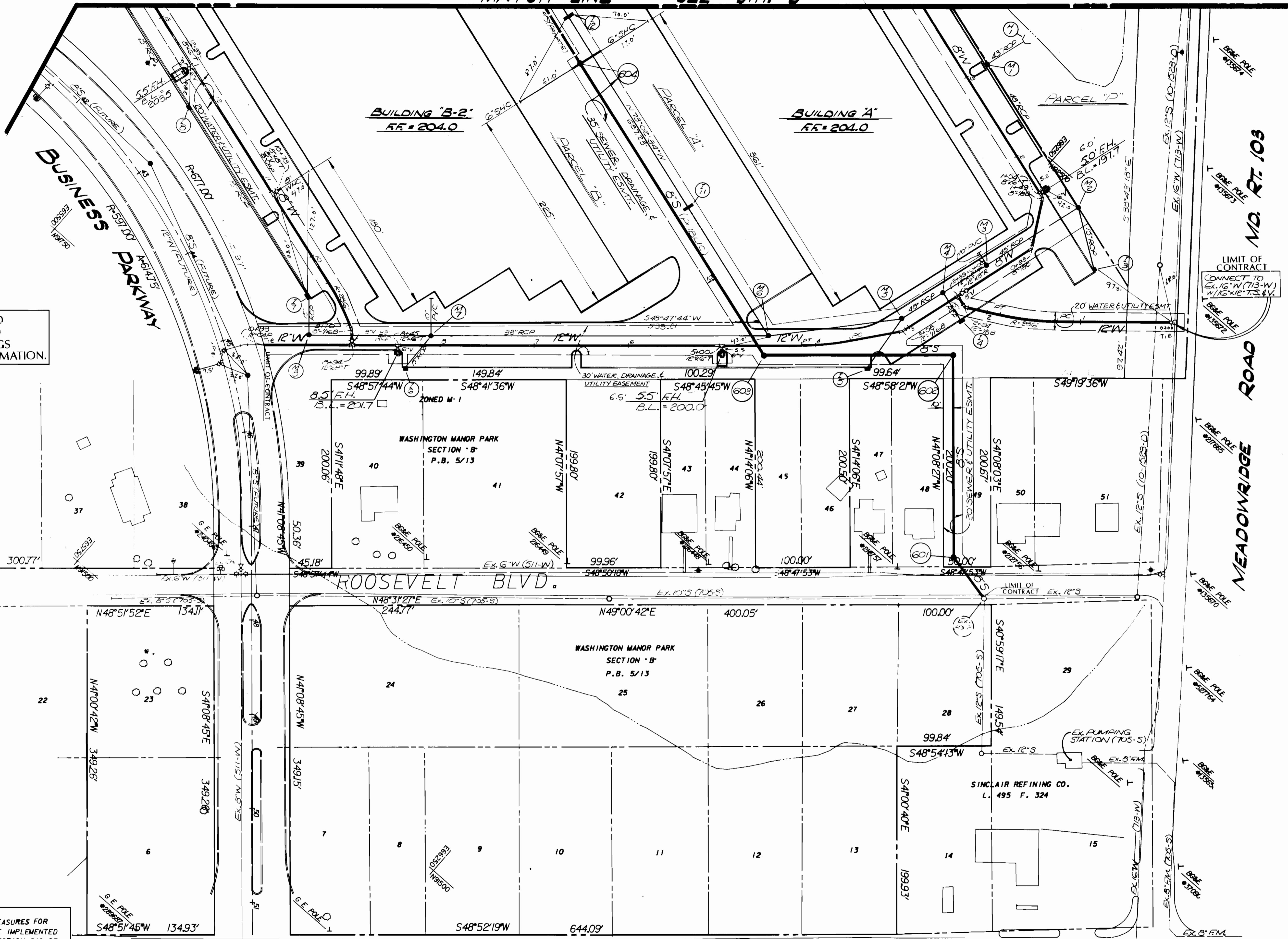
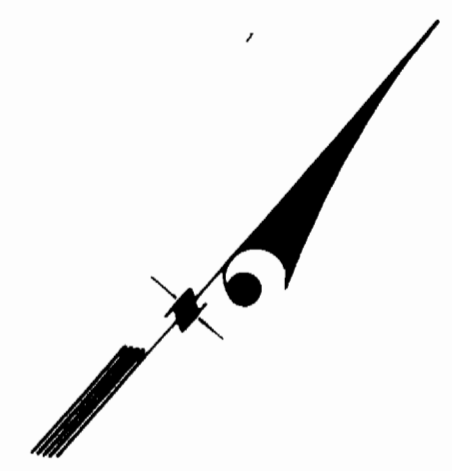
TITLE SHEET

600' SCALE MAP NO. 37 & 43
BLOCK NO. 22 & 5

MEADOWRIDGE BUSINESS PARK
BUILDINGS A & B PARCELS A AND B
TAX MAPS 37 & 43 L.304/F.470 PARCEL 362
CONTRACT # 14-1880-D
FIRST ELECTION DISTRICT
HOWARD CO., MARYLAND

SCALE AS SHOWN
SHEET 1 OF 5

MATCH LINE - SEE SH. 3



STORM DRAIN IS SHOWN FOR REFERENCE ONLY AND IS NOT TO BE USED FOR CONSTRUCTION. REFER TO SDP-89-69 MEADOWRIDGE BUSINESS PARK-BUILDINGS "A" & "B" FOR STORM DRAIN CONSTRUCTION INFORMATION.

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
[Signature] 8-10-89
U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
[Signature] 8/9/89
HOWARD S.C.D. DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, AND SITE PLAN SDP-89-69

BEFORE BEGINNING CONSTRUCTION, CONTACT "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
[Signature] 8-11-89
DIRECTOR OF PUBLIC WORKS DATE
[Signature] 8-4-89
CHIEF, BUREAU OF UTILITIES DATE

ENGINEERS-ARCHITECTS-PLANNERS-SCIENTISTS
SURVEYORS-PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
BALTIMORE, MARYLAND 21204
(301) 296-4100

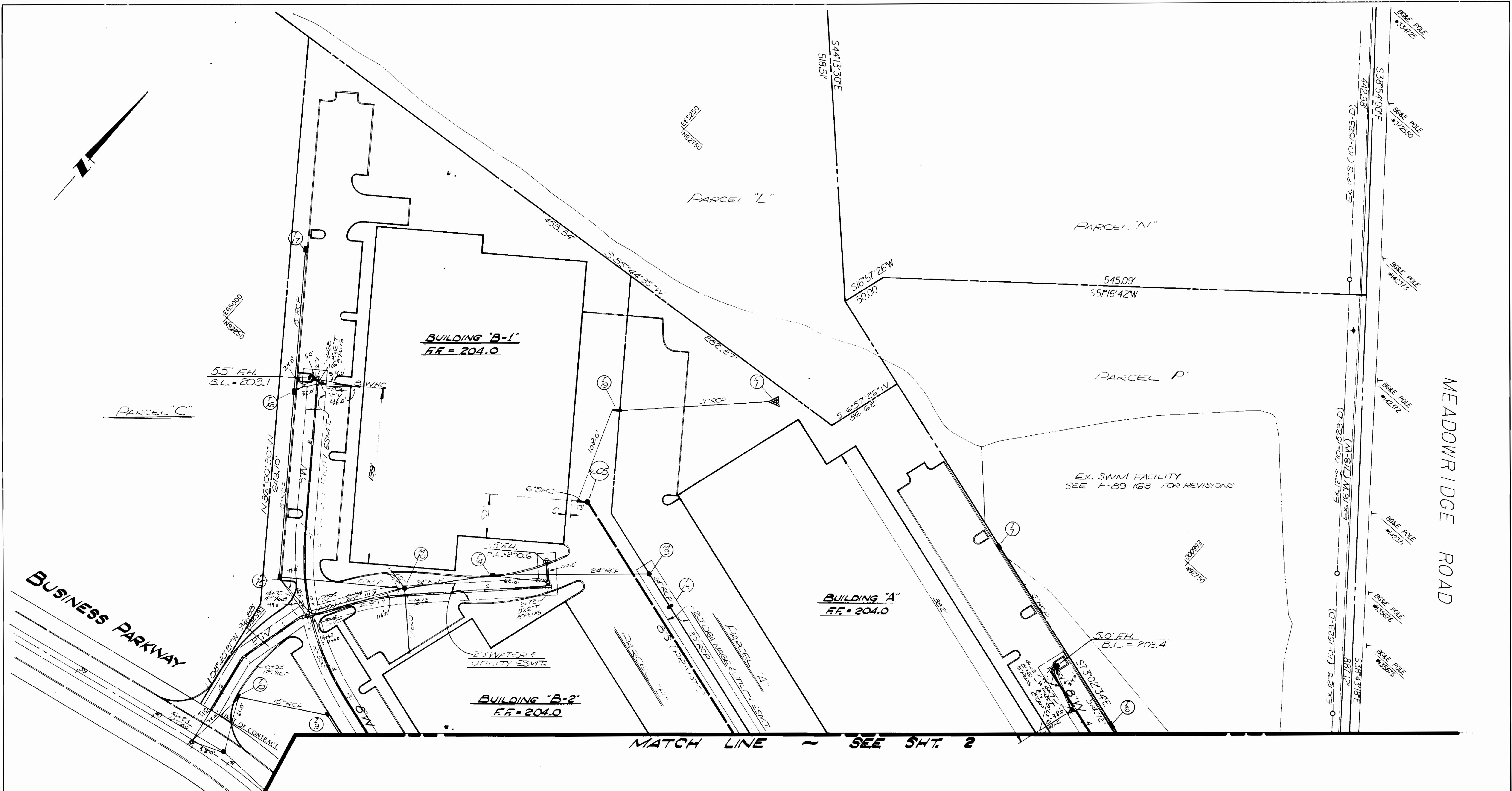


DESIGN	DATE	BY	NO.	REVISIONS	DATE
JUP	8-25-89				
JUP					
RHM					

PLAN FOR WATER MAIN AND SEWER EXTENSION

MEADOWRIDGE BUSINESS PARK
TAX MAPS 37 & 43 L304/F.470 PARCEL 362
CONTRACT # 14-1880-D
FIRST ELECTION DISTRICT
HOWARD CO., MARYLAND

SCALE: 1"=50'
SHEET 2 OF 2



STORM DRAIN IS SHOWN FOR REFERENCE ONLY AND IS NOT TO BE USED FOR CONSTRUCTION. REFER TO SDP-89-69 MEADOWRIDGE BUSINESS PARK - BUILDINGS "A" & "B" FOR STORM DRAIN CONSTRUCTION INFORMATION

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
James P. ... 8-10-89
 U.S. SOIL CONSERVATION SERVICE DATE

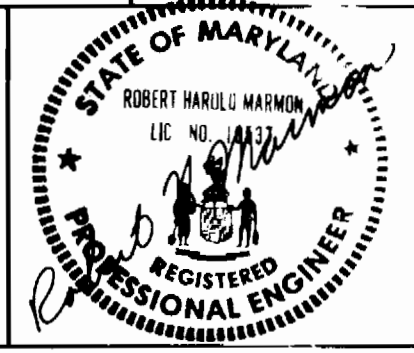
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Paul H. ... 8/9/89
 HOWARD S.C.D. DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, AND SITE PLAN SDP-89-69

BEFORE BEGINNING CONSTRUCTION, CONTACT "MISS UTILITY" AT 1-800-257-7111 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
James P. ... 8-10-89
 DIRECTOR OF PUBLIC WORKS DATE
Paul H. ... 8-9-89
 CHIEF, BUREAU OF UTILITIES DATE

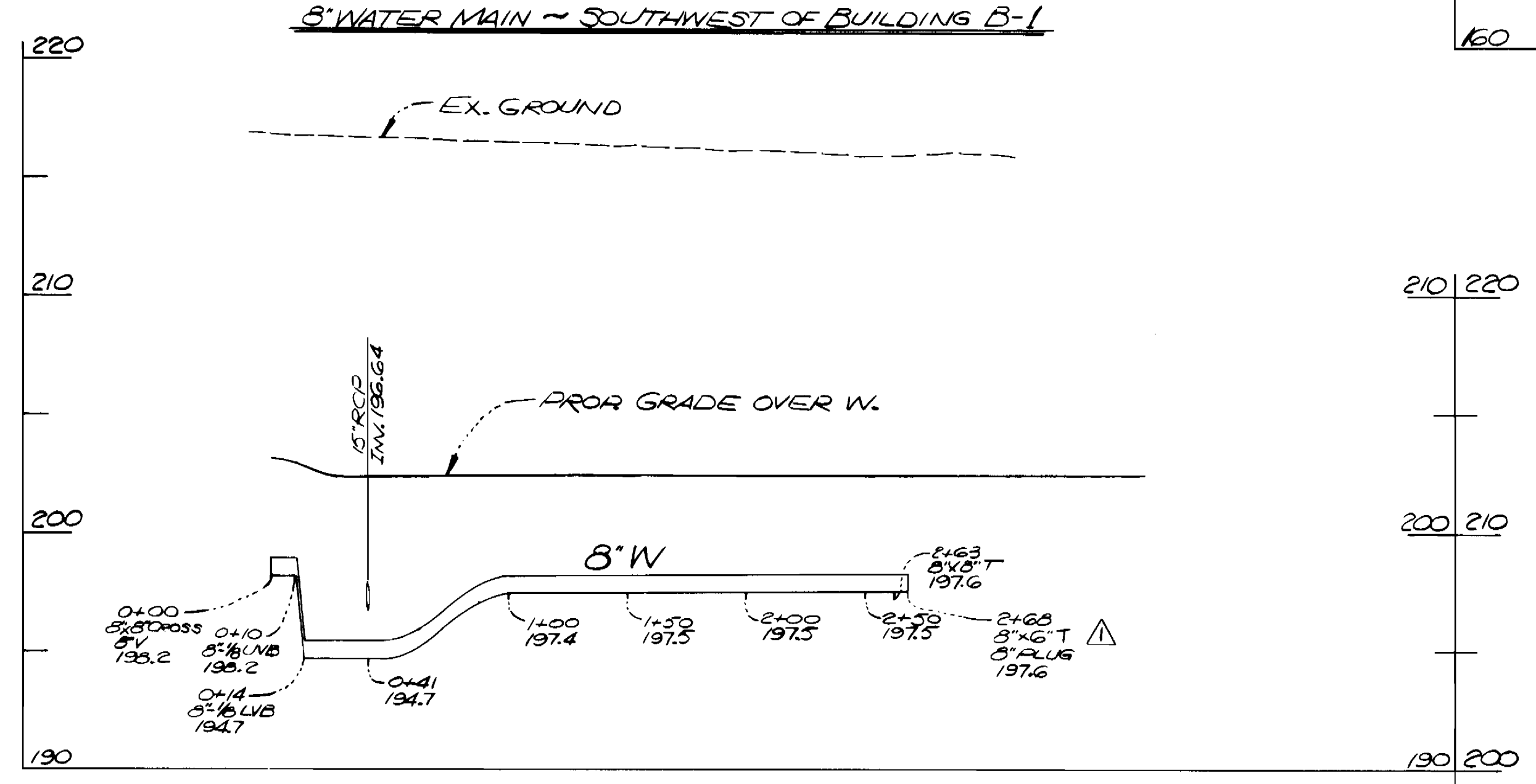
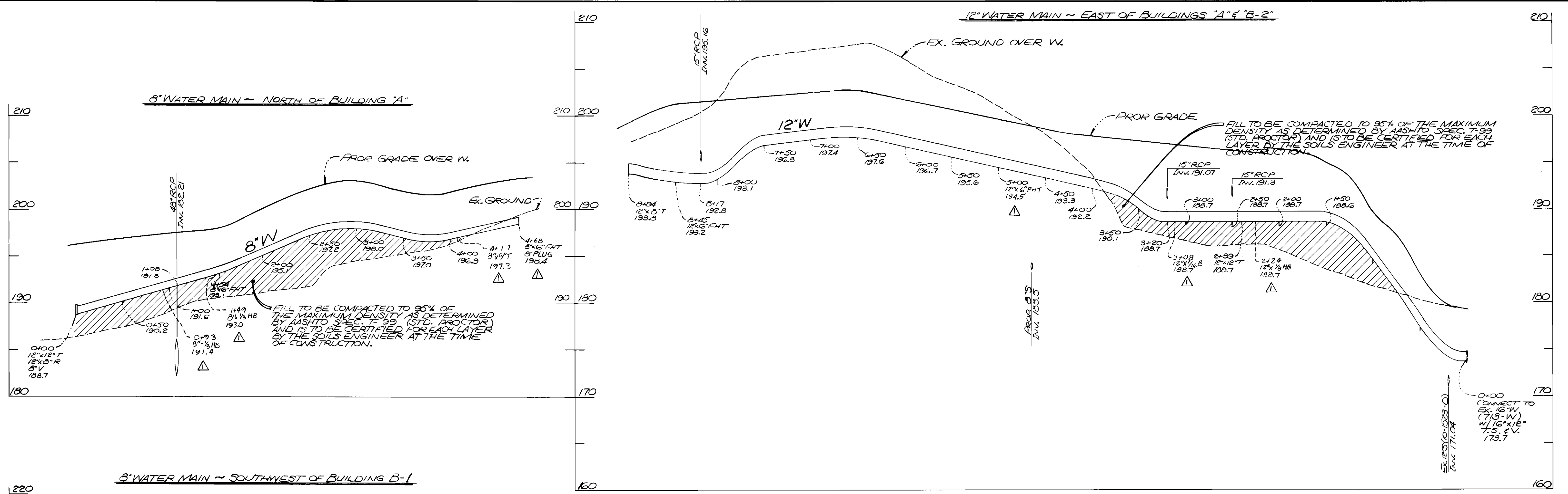
ENGINEERS-ARCHITECTS-PLANNERS-SCIENTISTS
 SURVEYORS-PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
 113 WEST ROAD, SUITE 208
 BALTIMORE, MARYLAND 21204
 (301) 296-4100



DES: JEL					
DRN: JEL-1007					
CHK: RHM					
DATE: Sept. 89	BY	NO.	REVISIONS	DATE	

PLAN FOR WATER MAIN AND SEWER EXTENSION
 600' SCALE MAP NO. 37 & 43
 BLOCK NO. 22 & 5

MEADOWRIDGE BUSINESS PARK
 TAX MAPS 37 & 43 L.304/F.470 PARCEL 362
 CONTRACT # 14-1880-D
 FIRST ELECTION DISTRICT
 HOWARD CO., MARYLAND



REVIEWED FOR HOWARD S.C.D.
AND MEETS TECHNICAL REQUIREMENTS.
[Signature] 8-10-89
DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR
SOIL EROSION AND SEDIMENT CONTROL
BY THE HOWARD SOIL CONSERVATION DISTRICT
[Signature] 8/9/89
DATE

SEDIMENT CONTROL MEASURES FOR
THIS CONTRACT WILL BE IMPLEMENTED
IN ACCORDANCE WITH SECTION 219 OF
THE STANDARD SPECIFICATIONS, AND
SITE PLAN SDP-89-69

BEFORE BEGINNING CONSTRUCTION, CONTACT
"MISS UTILITY" AT 1-800-257-7777 AT LEAST
48 HOURS PRIOR TO CONSTRUCTION.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
[Signature] 8-4-89
DATE

ENGINEERS-ARCHITECTS-PLANNERS-SCIENTISTS
SURVEYORS-PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
BALTIMORE, MARYLAND 21204
(301) 296-4100

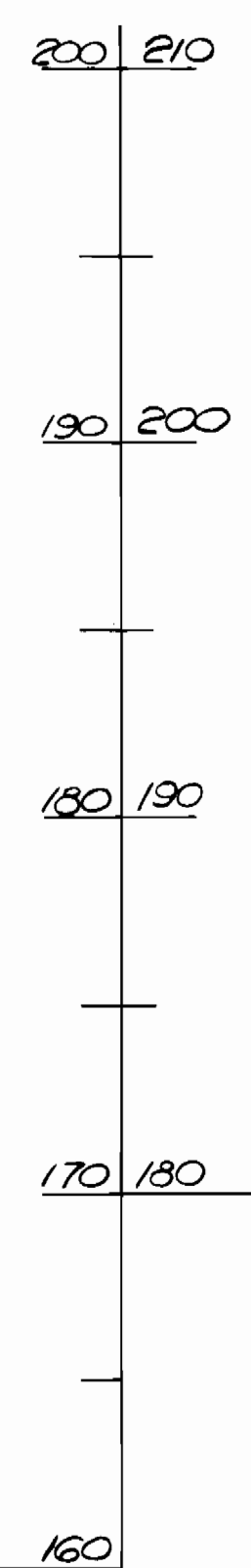
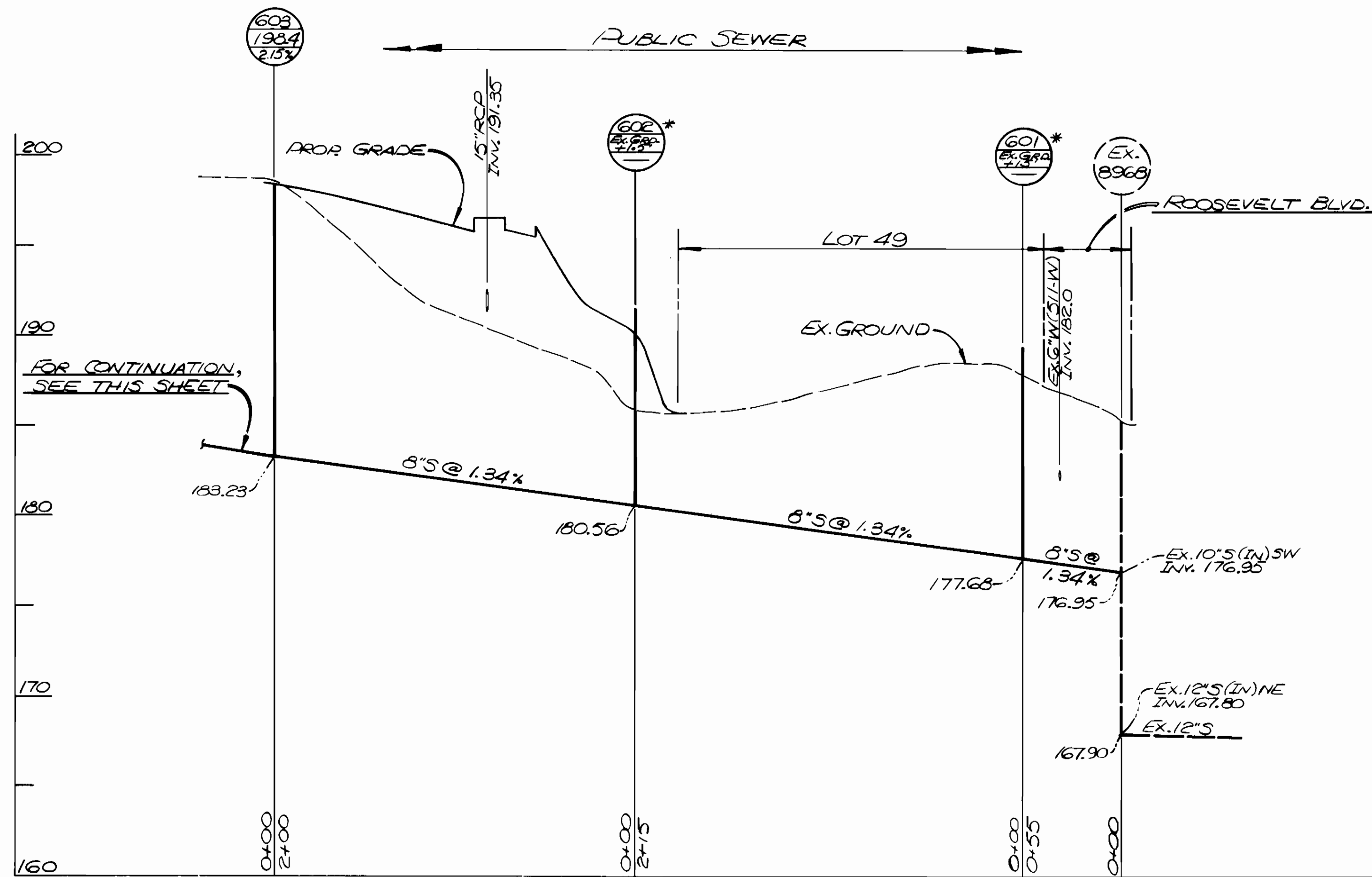


DES: JDP	G40	ADDED FITTINGS TO PROFILE AS SHOWN ON PLAN	9/8/89
DRN: JDP			
CHK: RHM			
DATE: SEPT, 89	BY NO.	REVISIONS	DATE

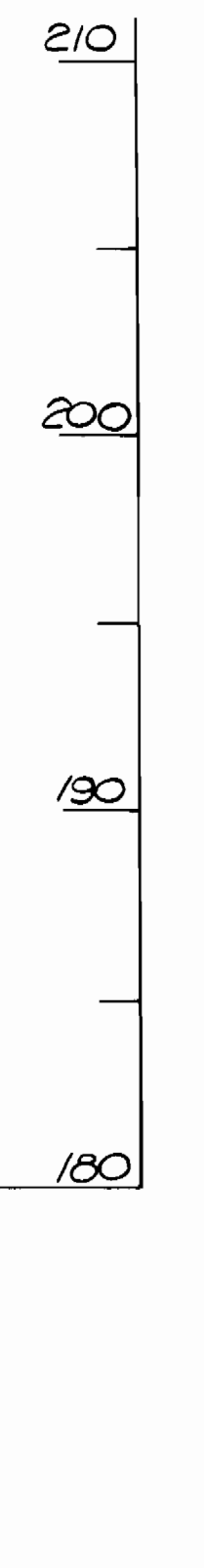
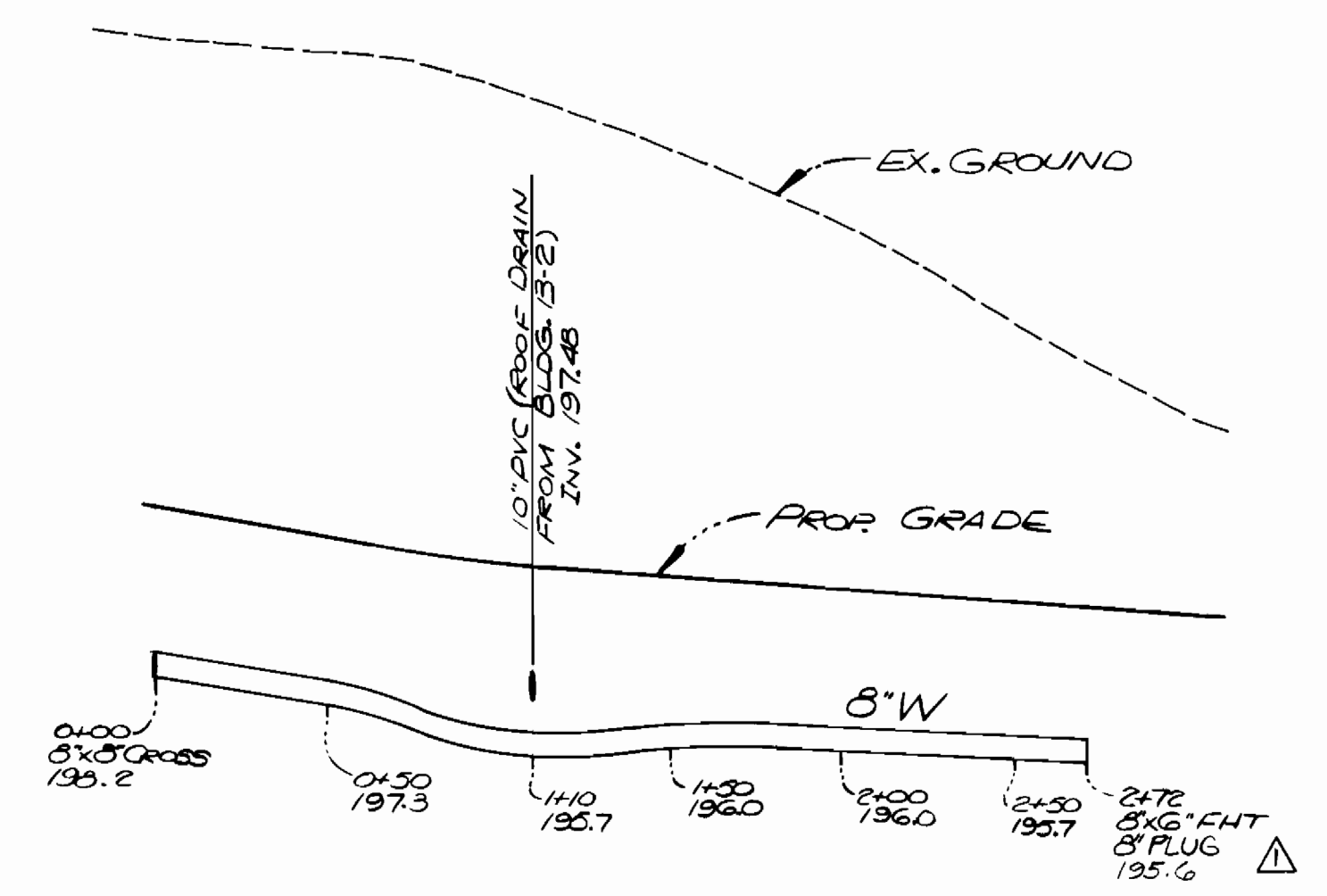
PLAN FOR WATER MAIN
AND SEWER EXTENSION

MEADOWRIDGE BUSINESS PARK
TAX MAPS 37 & 43 L.304/F.470 PARCEL 362
CONTRACT #14-1880-D
FIRST ELECTION DISTRICT
HOWARD CO., MARYLAND

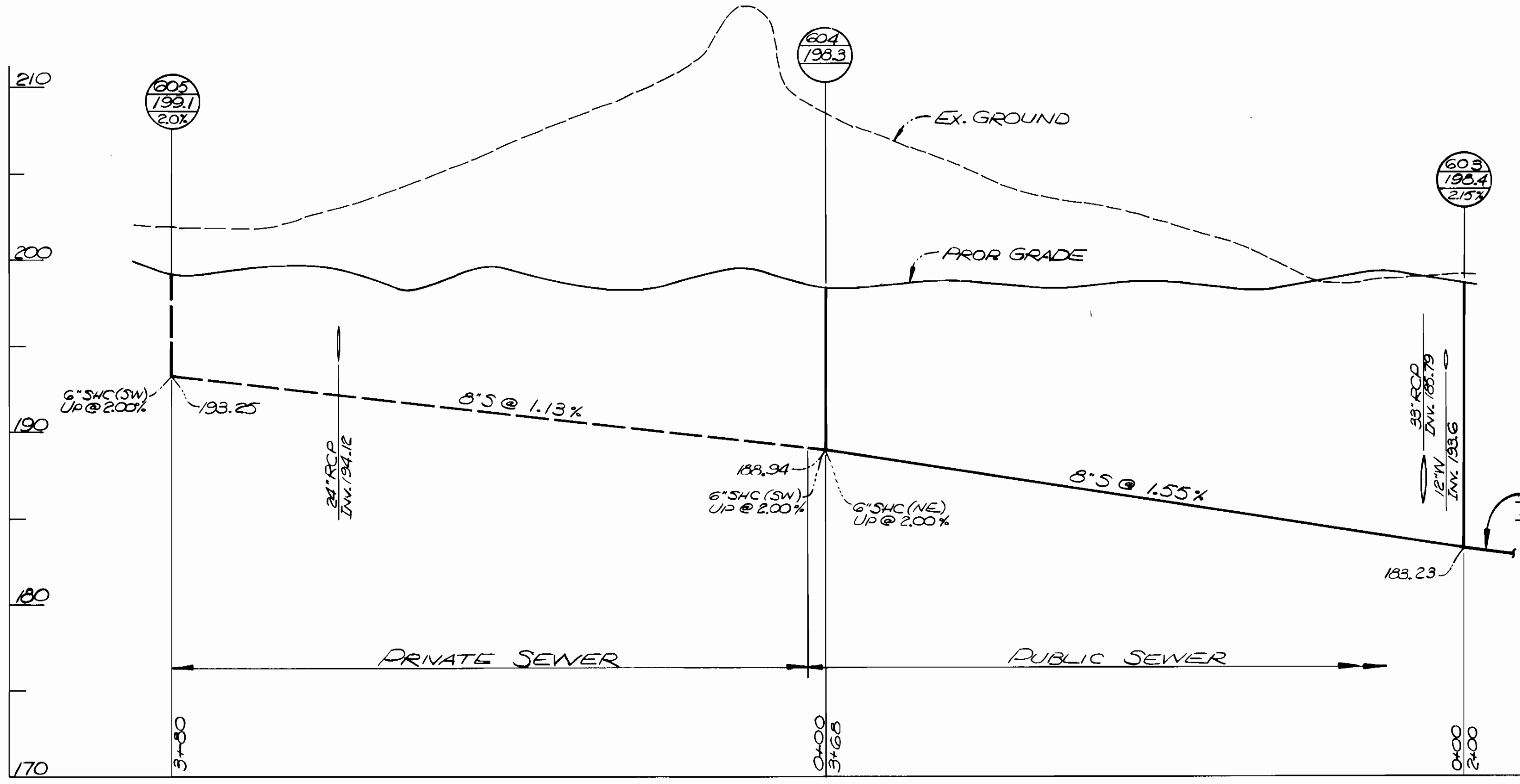
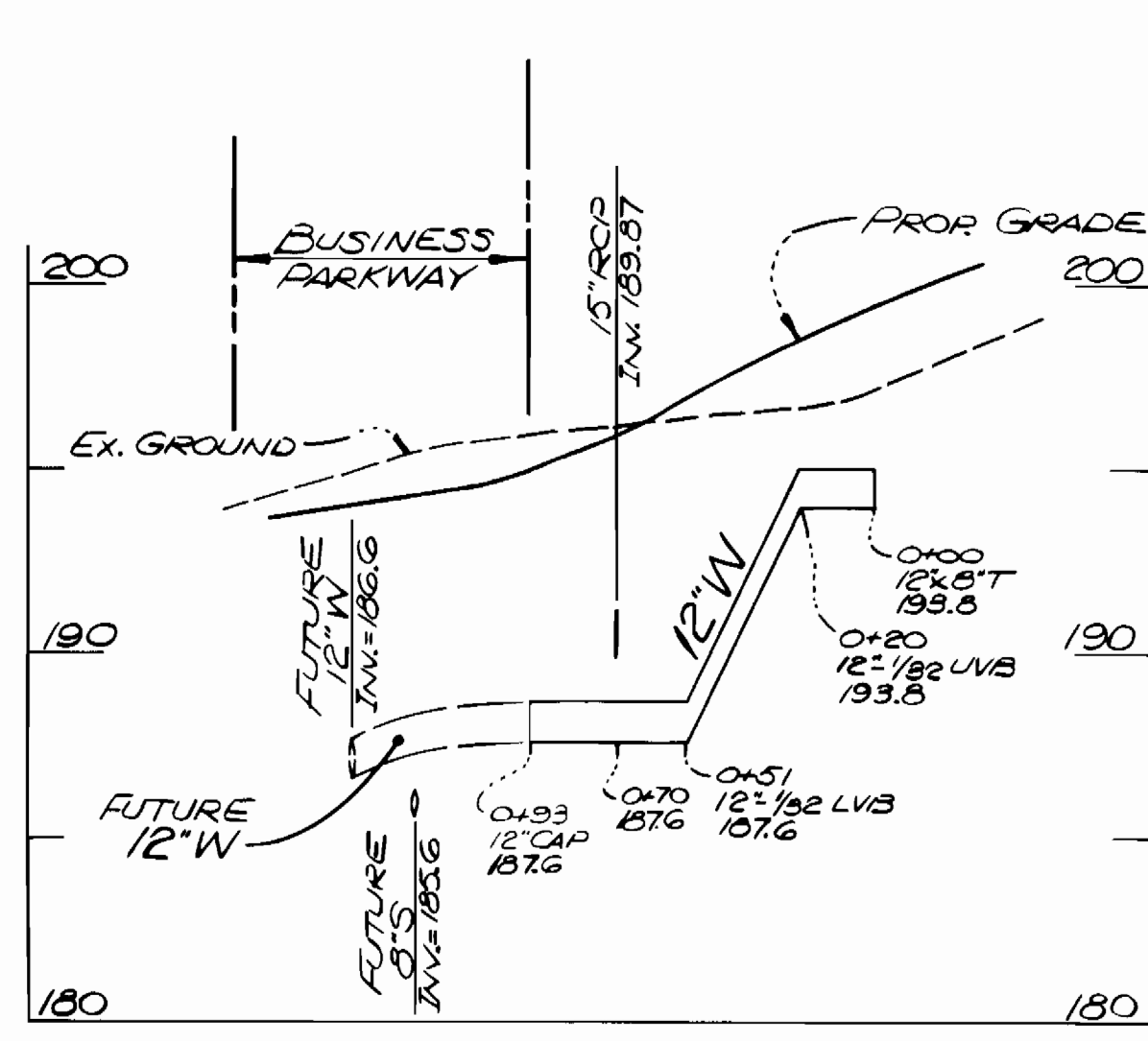
* SEE "SPECIAL BACKFILL AT MANHOLES"
(H.C.D.W. STD. G.S.41)



8" WATER MAIN BETWEEN BUILDINGS 'B-1' & 'B-2'



PROFILE SCALE: HORIZ. 1"=50'
VERT. 1"=5'



FOR CONTINUATION, SEE THIS SHEET.

REVIEWED FOR HOWARD S.C.D.
AND MEETS TECHNICAL REQUIREMENTS.
John W. Miller 8-10-89
DATE
S.O. SOIL CONSERVATION SERVICE

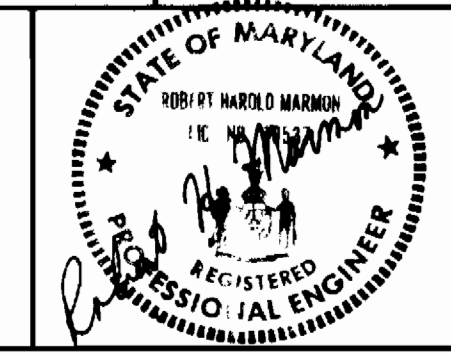
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
John W. Miller 8/9/89
DATE
HOWARD S.C.D.

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, AND SITE PLAN SDP-89-69
DATE

BEFORE BEGINNING CONSTRUCTION, CONTACT "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
James J. Smith 8-4-89
DATE
DIRECTOR OF PUBLIC WORKS
Robert J. Brainerd 8-4-89
DATE
CHIEF, BUREAU OF UTILITIES

ENGINEERS-ARCHITECTS-PLANNERS-SCIENTISTS
SURVEYORS-PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
BALTIMORE, MARYLAND 21204
(301) 296-4100



DES: JDP	Gfo	ADDED BY PLUG TO PROFILE AS SHOWN ON PLAN	9/8/89
DRN: JDP/um			
CHK: RHM			
DATE: SEPT, 89	BY	NO.	REVISIONS

PLAN FOR WATER MAIN AND SEWER EXTENSION
600' SCALE MAP NO. 37 & 43
BLOCK NO. 22 & 5

MEADOWRIDGE BUSINESS PARK
TAX MAPS 37 & 43 L.304/F.470 PARCEL 362
CONTRACT #14-1880-D
FIRST ELECTION DISTRICT
HOWARD CO., MARYLAND

SCALE AS SHOWN
SHEET 5 of 5