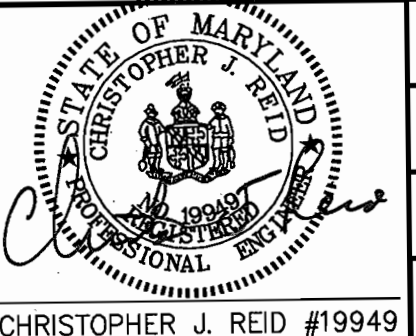


PLAN
SCALE: 1" = 50'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
PHRA
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282



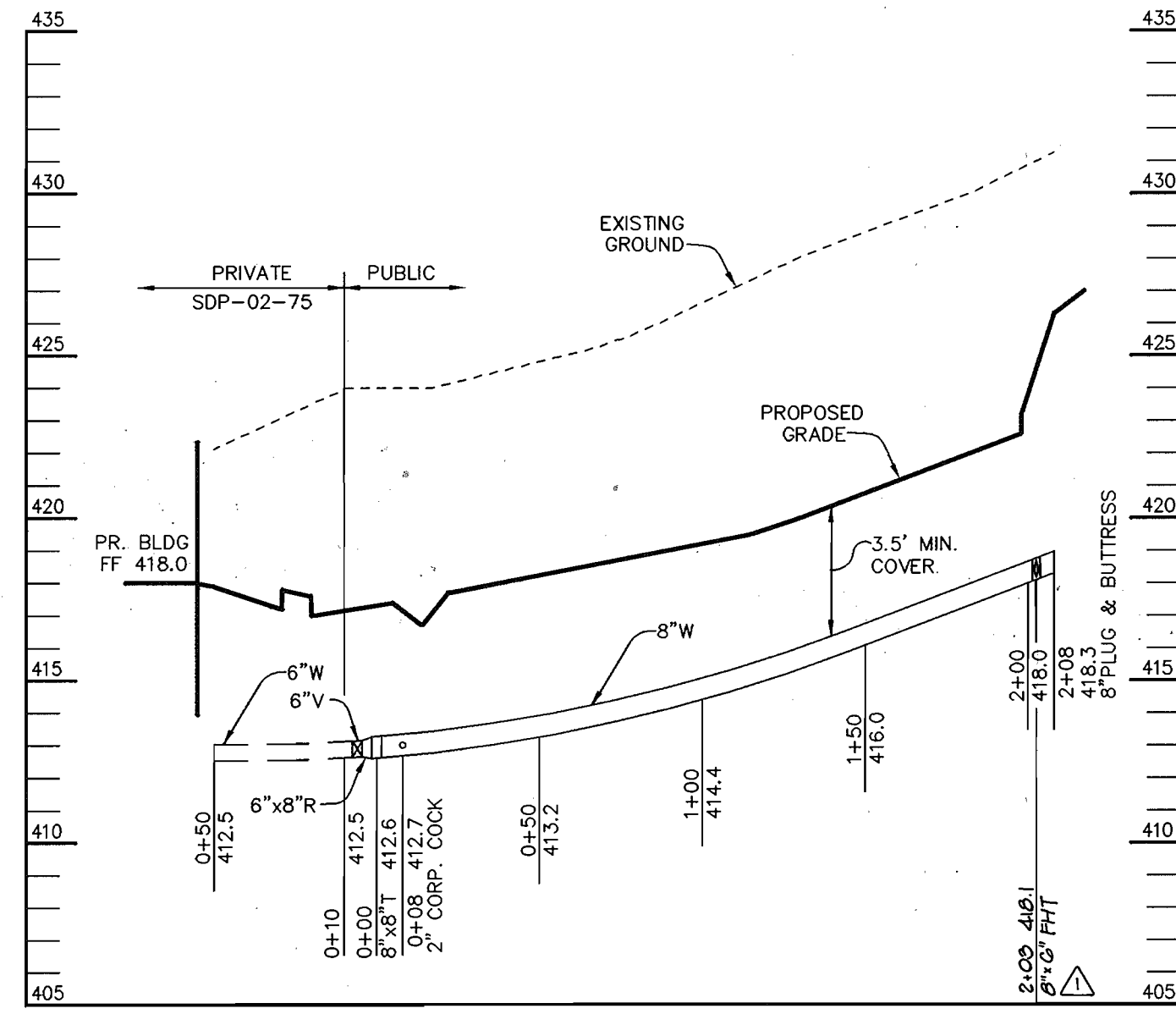
DES:	C.J.R.				
DRN:	DAM				
CHK:	C.J.R.				
DATE:	7/22/02				
BY:	NO.	REVISION	DATE		
UAD		ADDED FIRE HYDRANT FOR FUTURE CHURCH	11-10-05		

PLAN OF WATER AND
SEWER MAINS

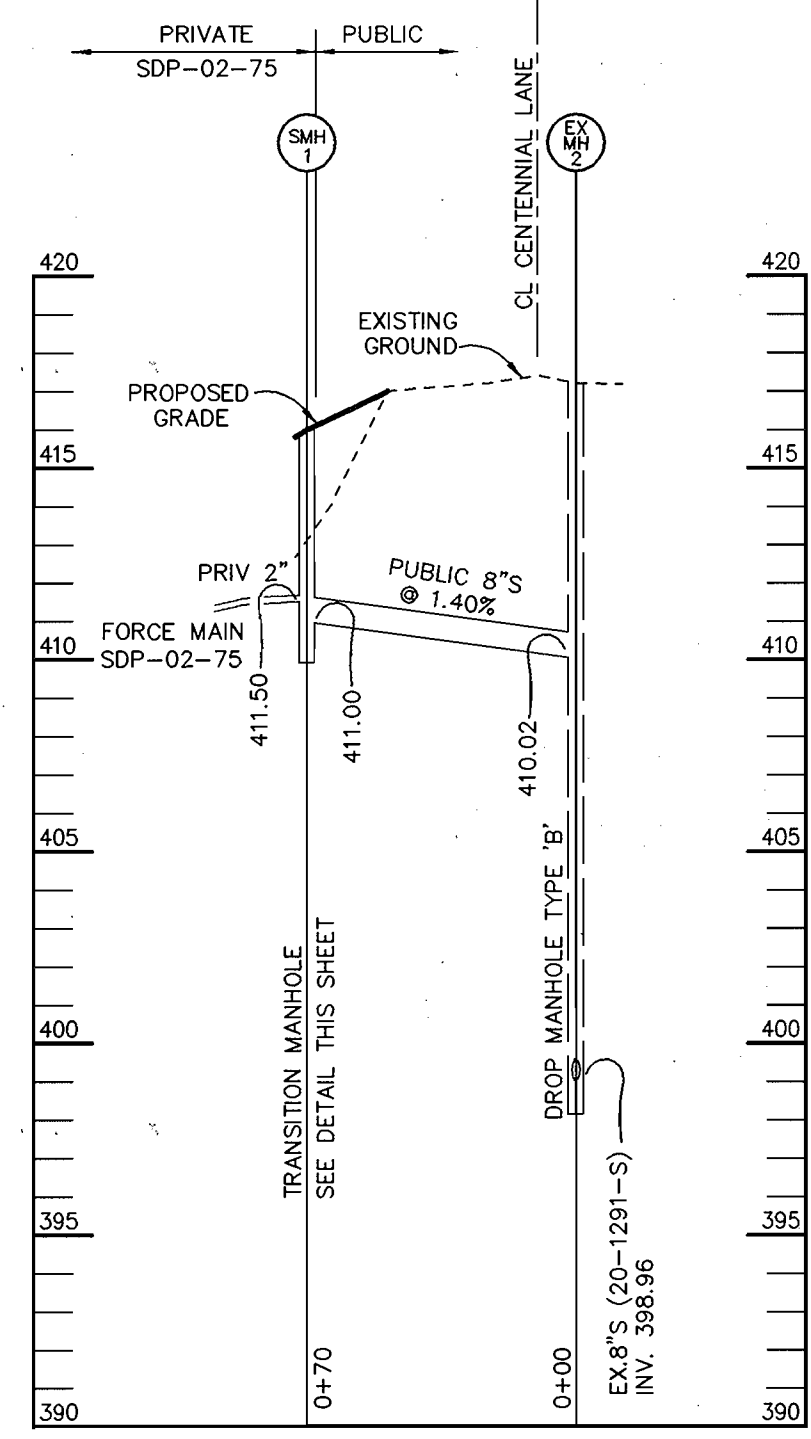
600' SCALE MAP NO. 30 BLOCK NO. 1

**SOCCER ASSOCIATION
OF COLUMBIA
PARCEL A**
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT 24-4040-D

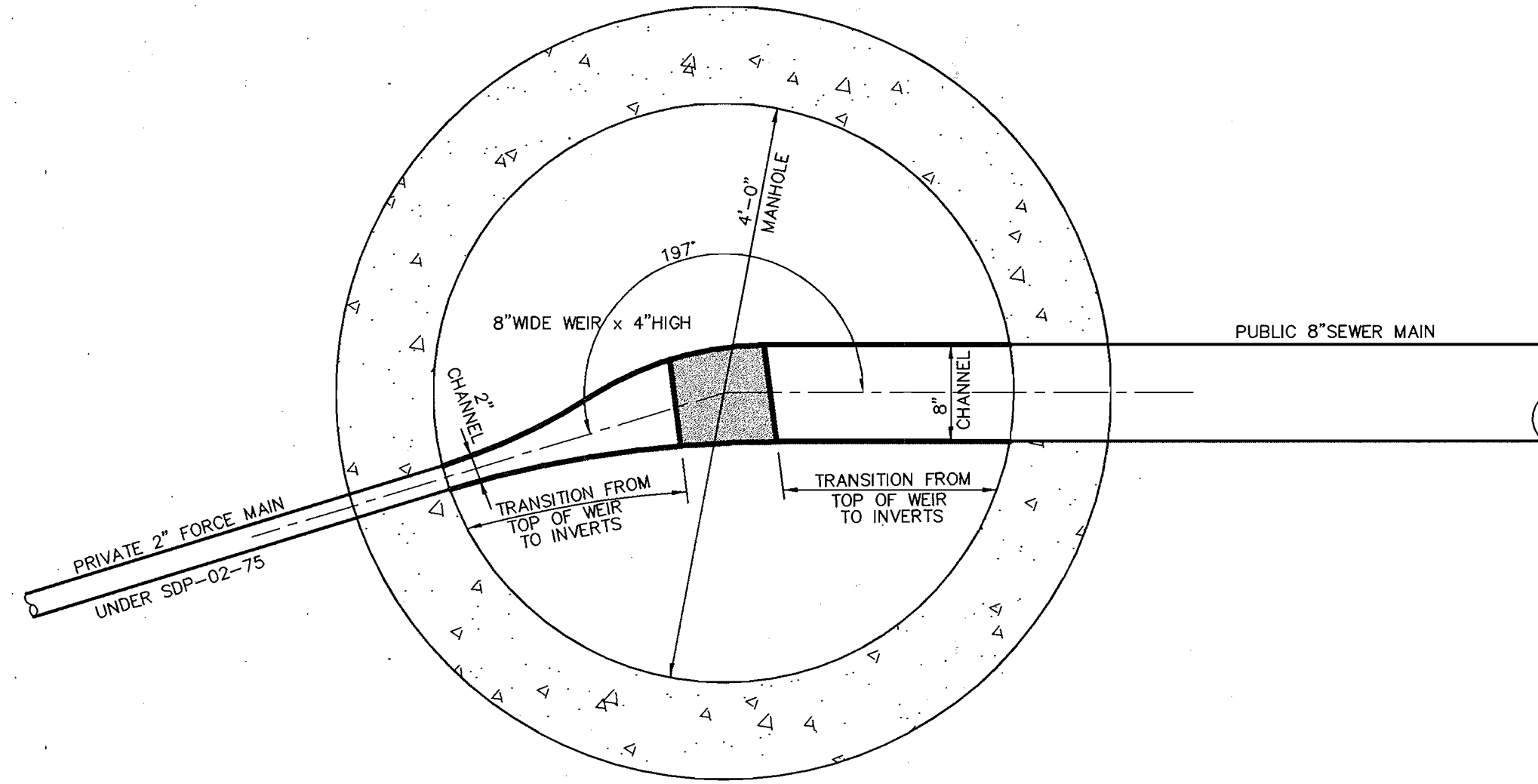
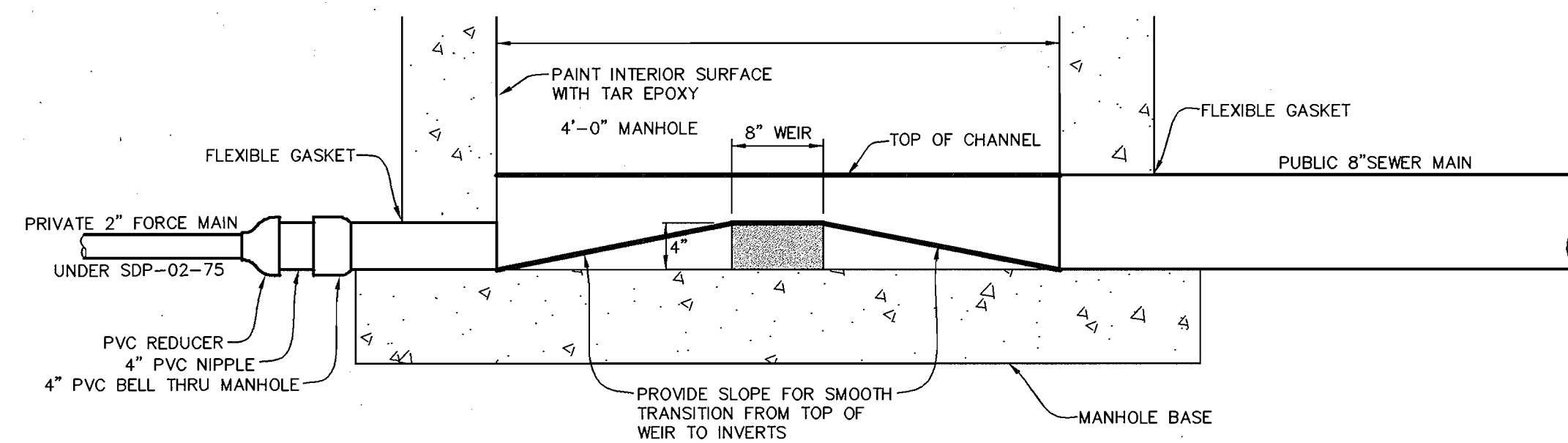
SCALE
AS
SHOWN
SHEET
2 OF 3



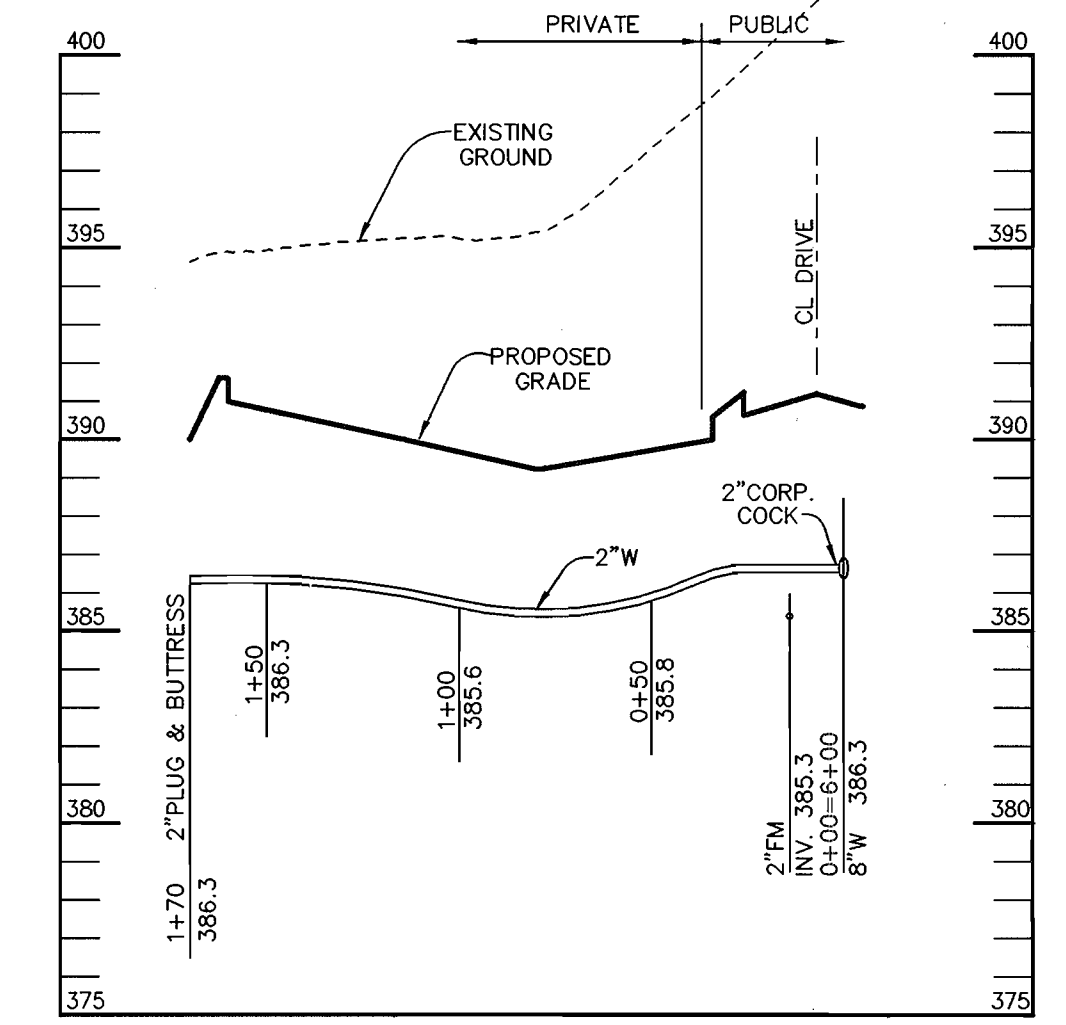
WATER PROFILE
SCALE:
HOR.-1"=50'
VERT.-1"=5'



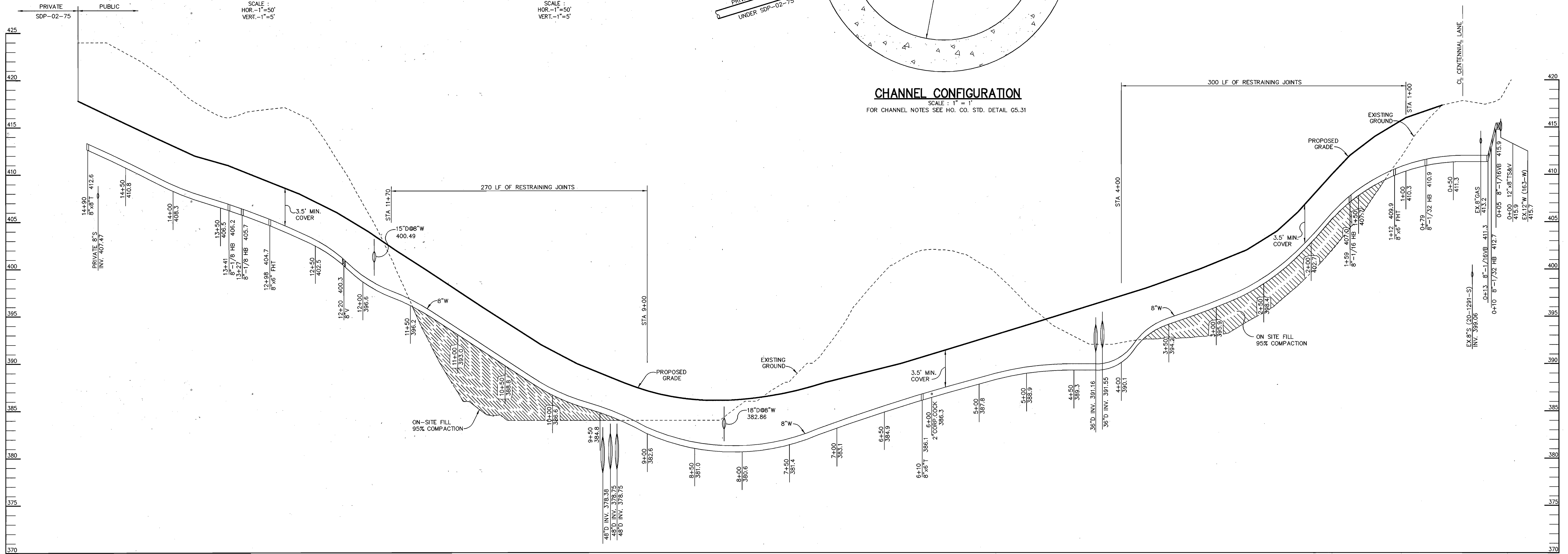
SEWER PROFILE
SCALE:
HOR.-1"=50'
VERT.-1"=5'



CHANNEL CONFIGURATION
SCALE: 1" = 1'
FOR CHANNEL NOTES SEE HO. CO. STD. DETAIL G5.31



WATER PROFILE
SCALE:
HOR.-1"=50'
VERT.-1"=5'



WATER PROFILE
SCALE:
HOR.-1"=50'
VERT.-1"=5'

DEPARTMENT OF PUBLIC WORKS
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DES:	C.J.R.				
DRN:	DAM				
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DATE:	7/22/02				
BY:					
NO.:					
REVISION:					
DATE:					

**PROFILES OF
WATER AND SEWER EXTENSIONS**

**SOCCER ASSOCIATION
OF COLUMBIA
PARCEL A**
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT 24-4040-D

SCALE
AS
SHOWN

SHEET
3 OF 3

SHEET INDEX	
1	TITLE SHEET
2	PLAN OF WATER AND SEWER EXTENSIONS
3	PROFILES OF WATER AND SEWER EXTENSIONS


WATER AND SEWER EXTENSION SOCCER ASSOCIATION OF COLUMBIA 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-4040-D

BENCHMARKS

BENCHMARK #1
HOWARD COUNTY SURVEY CONTROL
STATION: 30AA
N 573,670.208 E 1,349,816.541
ELEVATION: 384.632
CONCRETE MONUMENT ON EAST SIDE
OF CENTENNIAL LANE 25' WEST OF
CENTENNIAL PARK TENNIS COURTS.

BENCHMARK #2
HOWARD COUNTY SURVEY CONTROL
STATION: 30DC
N 571,937.689 E 1,349,597.163
ELEVATION: 422.112
CONCRETE MONUMENT WITHIN MEDIAN
OF CENTENNIAL LANE 500' NORTH
OF ROUTE 108.

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 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 88.
- 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 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 Detail 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 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.
- 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)	410-850-4820
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 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.

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
8" WATER	1698 LF	1701 LF	DIP	US PIPE & FOUNDRY
6" WATER	△ 112 LF	72 LF	"	"
8" VALVES	2 EA	2 EA	RSEV	KENNEDY
6" VALVES	△ 9 EA	5 EA	"	"
FIRE HYDRANTS	△ 4 EA	4 EA	"	"
12" X 8" TS&V	1 EA	1 EA	STAINLESS STEEL	FORD TAPPING SLEEVE KENNEDY
2" WATER	47 LF	35.3 LF	COPPER	HOWELL METAL
2" OUTSIDE METER	2 EA	2 EA	BRASS & COPPER	BRASS - FORD COPPER - HOWELL
8" SEWER	70 LF	70 LF	PVC	DIAMOND PLASTIC
DROP MANHOLES TYPE B	1 EA	1 EA	CONCRETE	
4' MANHOLE	1 EA	1 EA	PRECAST	AMERICAST

NAME OF UTILITY CONTRACTOR :

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications SDP-02-75

CHECKBOX
AS-BUILT DATE

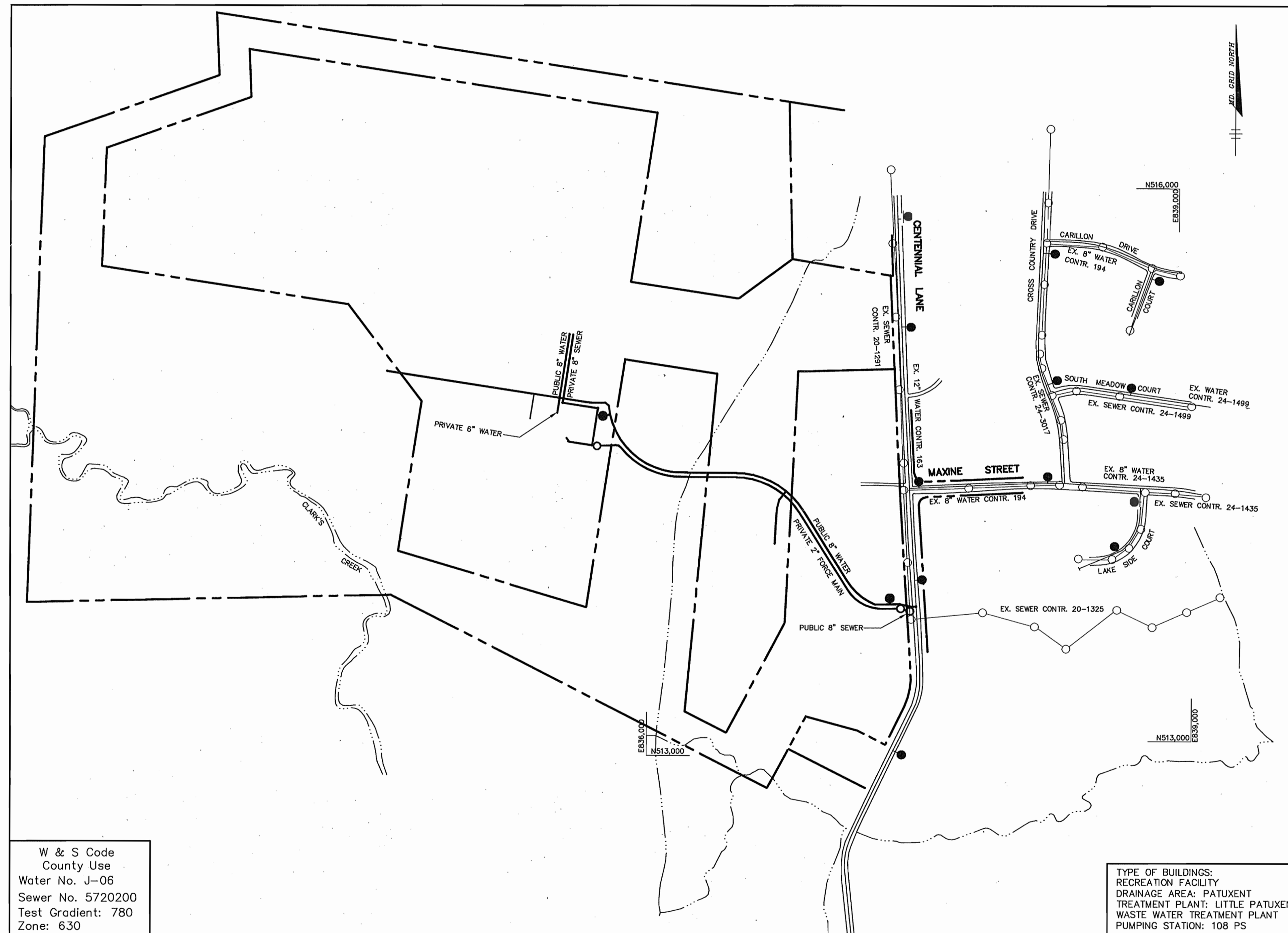
SURVEY AND DRAFTING DIVISION

Review for Howard Soil Conservation District and meets technical requirements.

[Signature] 8/5/02
NATURAL RESOURCES CONSERVATION SERVICE DATE

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

[Signature] 8/5/02
HOWARD SOIL CONSERVATION DISTRICT DATE



W & S Code
County Use
Water No. J-06
Sewer No. 5720200
Test Gradient: 780
Zone: 630

TYPE OF BUILDINGS:
RECREATION FACILITY
DRAINAGE AREA: PATUXENT
TREATMENT PLANT: LITTLE PATUXENT
WASTE WATER TREATMENT PLANT
PUMPING STATION: 108 PS

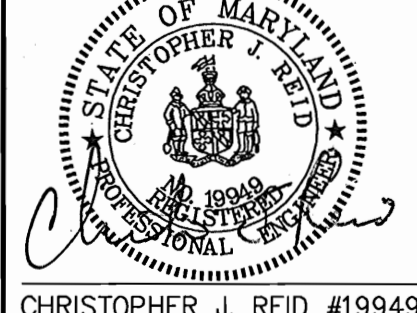
VICINITY MAP
SCALE: 1"=600'

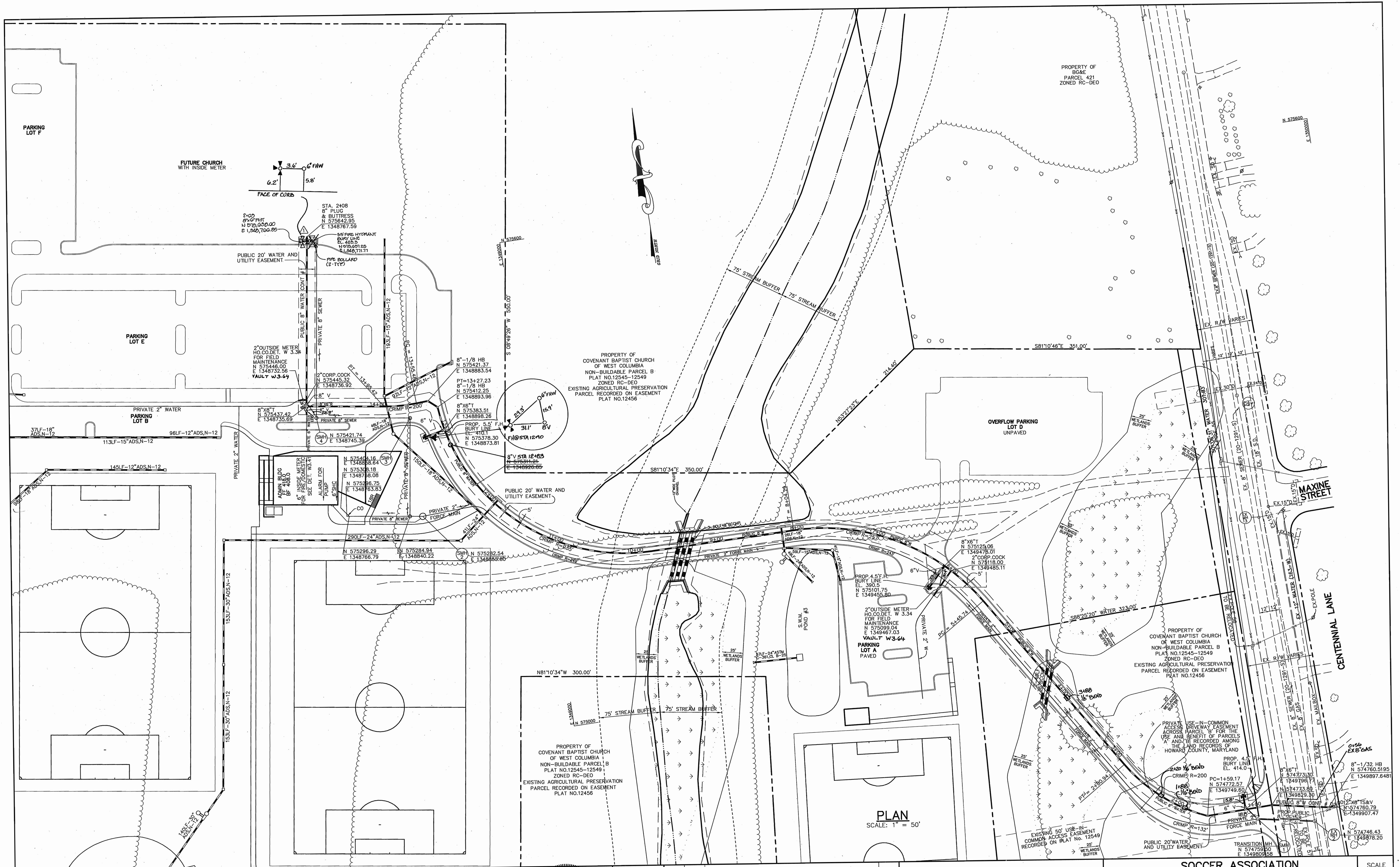
WATER NOTES

- 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 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 installed in accordance with Standard Details. The soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
- The contractor shall not operate any water main valves on the existing water system.





SEWER NOTES

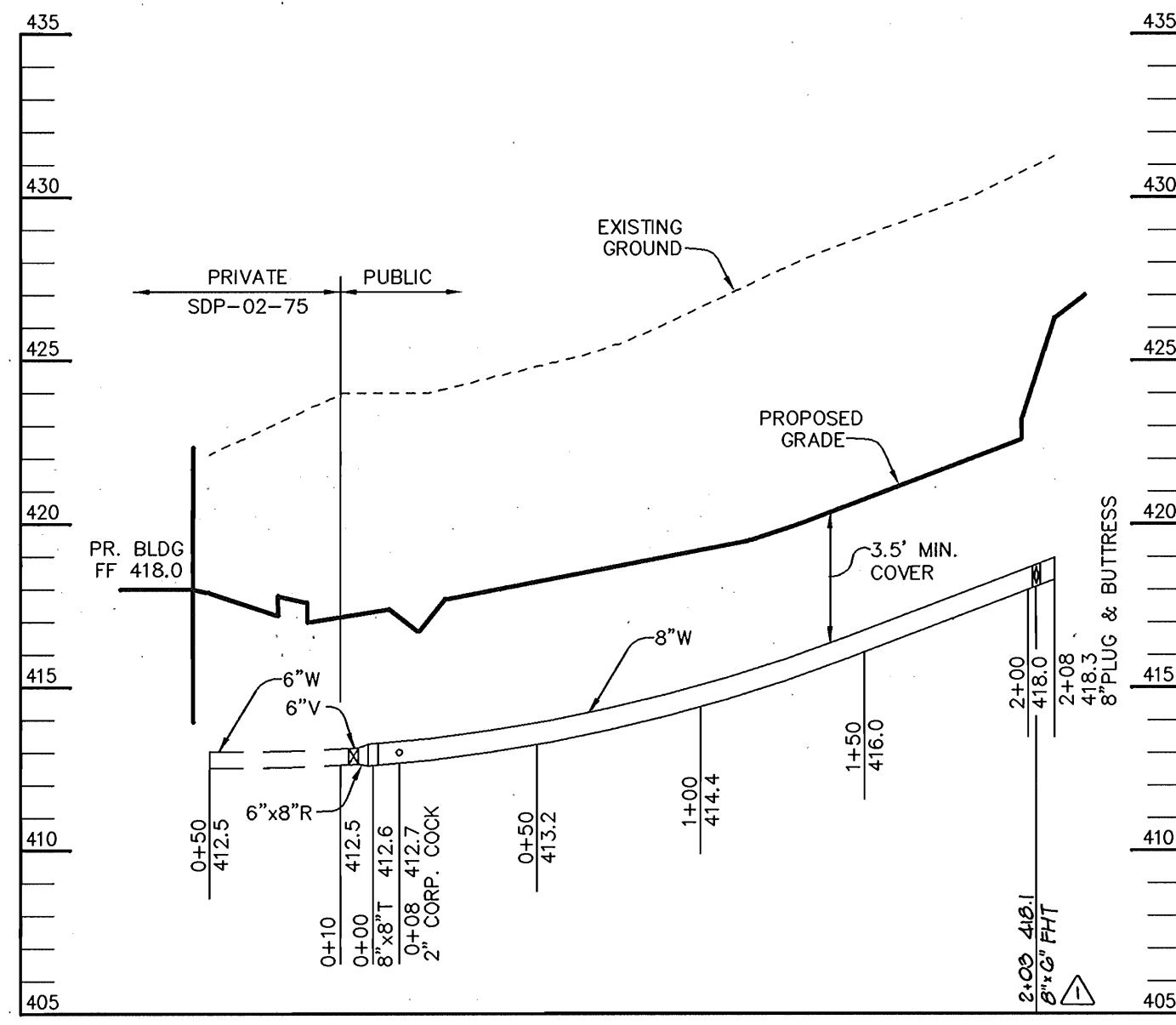
- All sewer mains shall be D.I.P. and P.V.C. unless otherwise noted.
- All manholes shall be 4'-0" inside diameter unless otherwise noted.
- Force mains shall be D.I.P. only.
- Manholes shown with 12" and 16" walls are for brick manholes only.
- Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail 05.52. Where watertight manhole frames and covers is 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 cellar cannot be served.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>[Signature]</i> 7/20/02 DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>[Signature]</i> 8/7/02 DATE	Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. PHRA 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	 DES: C.J.R. DRN: DAM CHK: C.J.R. DATE: 7/22/02	K.C.I. ASBUILT DATA SHOWN ON PLAN 7/15/04 WAD REVISED QUANTITIES 11-10-00 BY NO. REVISION DATE	TITLE SHEET 600' SCALE MAP NO. 30 BLOCK NO. 1	SOCCER ASSOCIATION OF COLUMBIA PARCEL A 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 24-4040-D	SCALE AS SHOWN SHEET 1 OF 3
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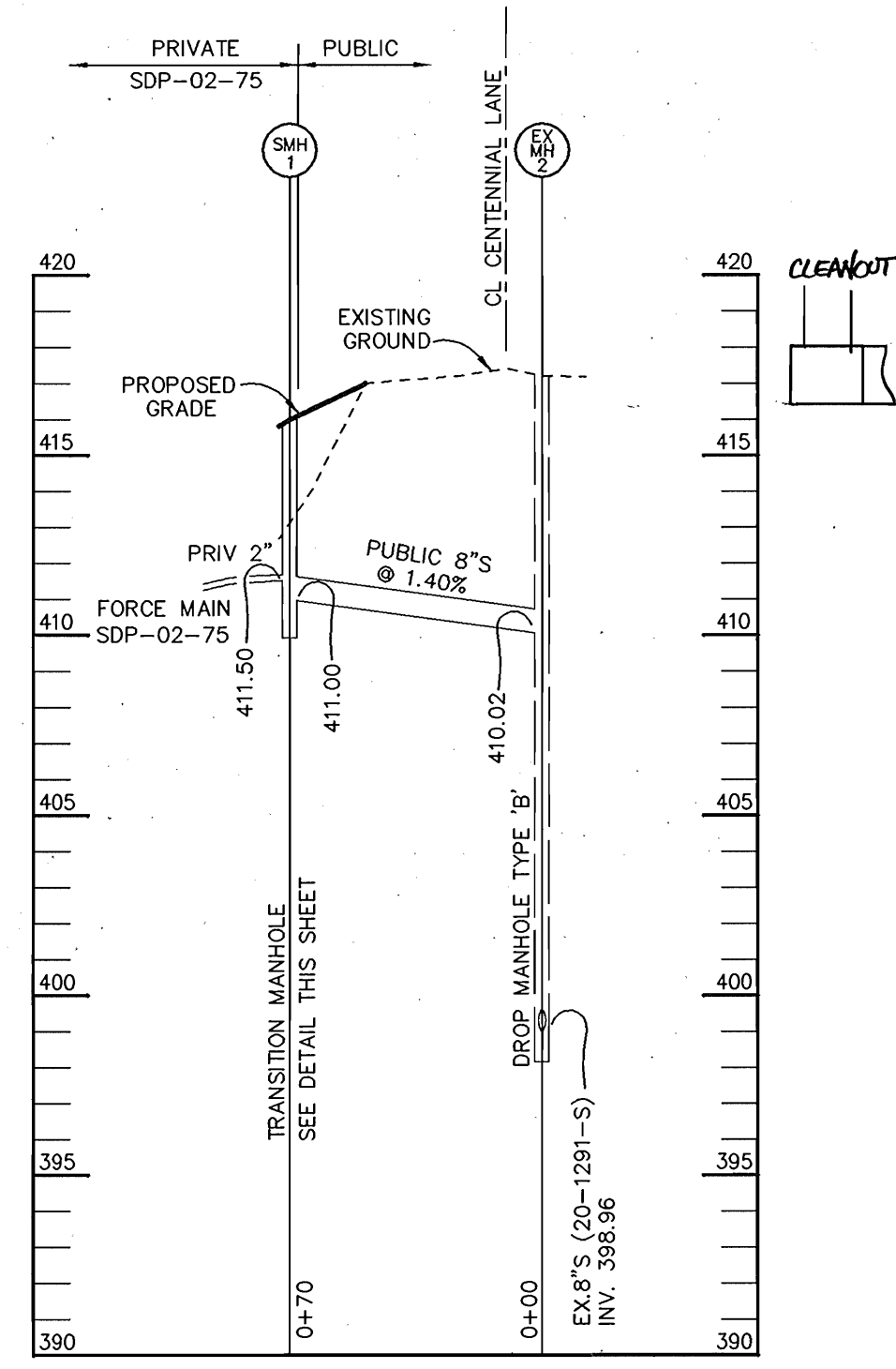
PLAN
SCALE: 1" = 50'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND 	Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects.  8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	 CHRISTOPHER J. REID #19949	DES: C.J.R. DRN: DAM CHK: C.J.R. DATE: 7/22/02 BY NO. REVISION 2 KC1 ASBUILT DATA SHOWN ON PLAN 07/16/04 1 WAD ADDED FIRE HYDRANT FOR FUTURE CHURCH 11-10-02	PLAN OF WATER AND SEWER MAINS 600' SCALE MAP NO. 30 BLOCK NO. 1	SOCCER ASSOCIATION OF COLUMBIA PARCEL A 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 24-4040-D	SCALE AS SHOWN SHEET 2 OF 3
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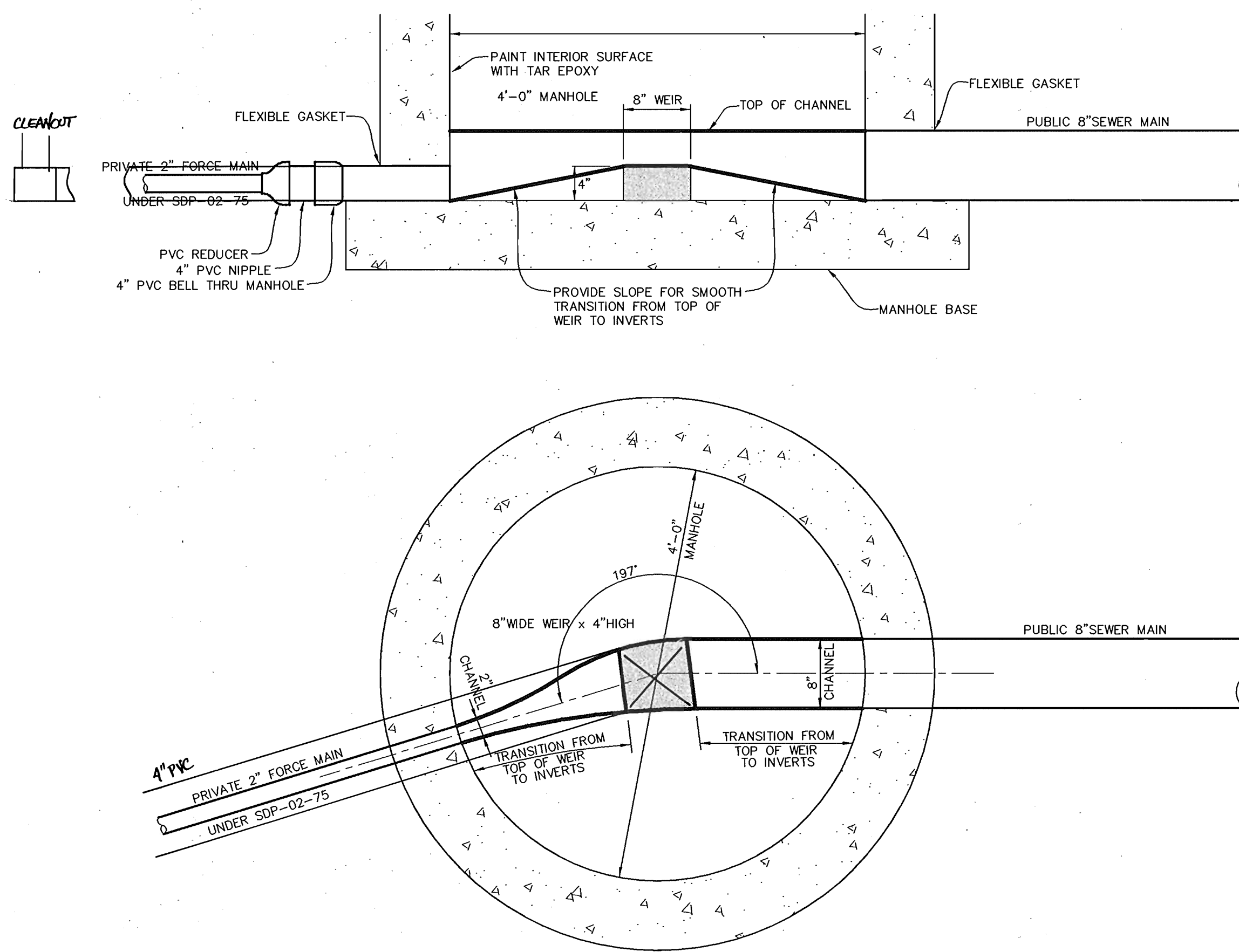
WATER PROFILE

SCALE:
HOR.-1"=50'
VERT.-1"=5'



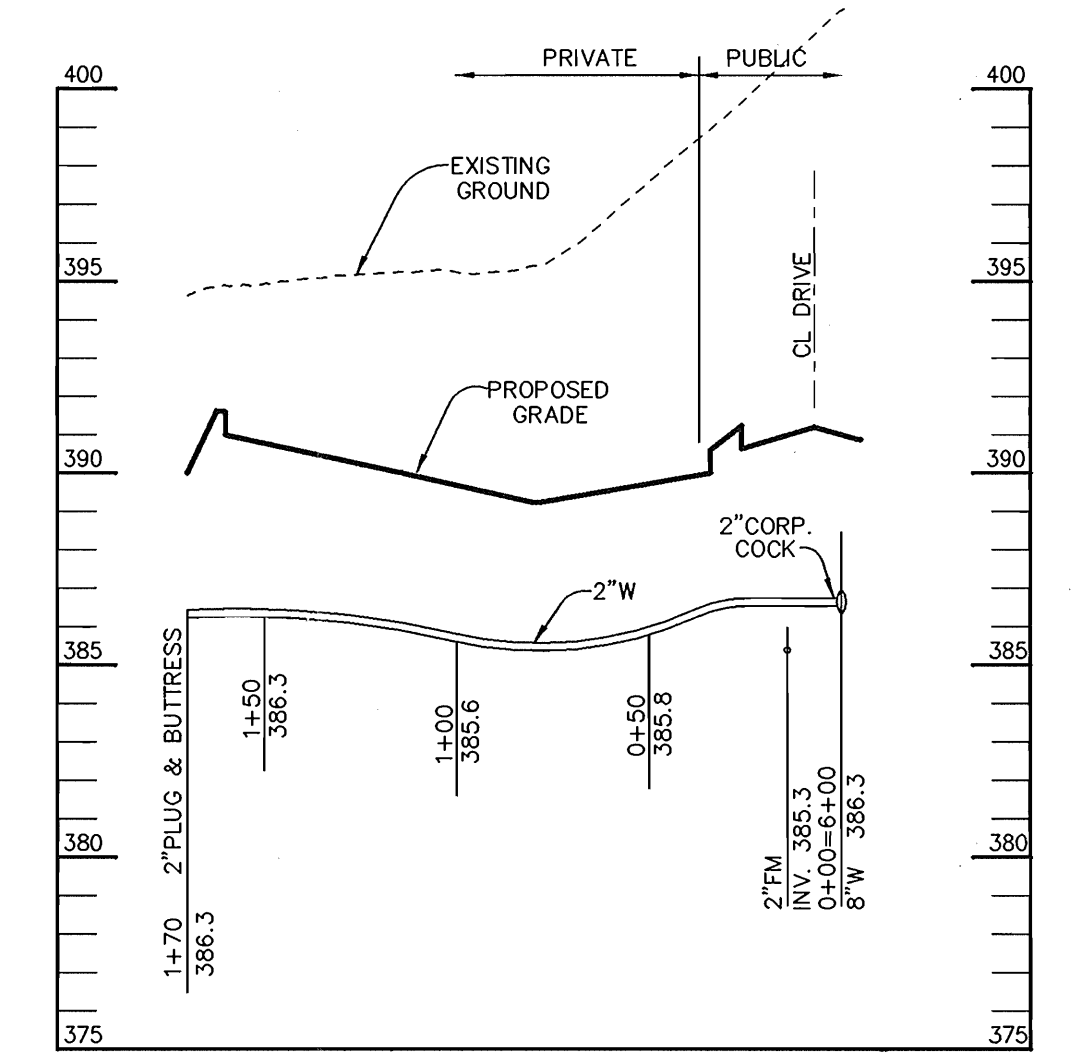
SEWER PROFILE

SCALE:
HOR.-1"=50'
VERT.-1"=5'



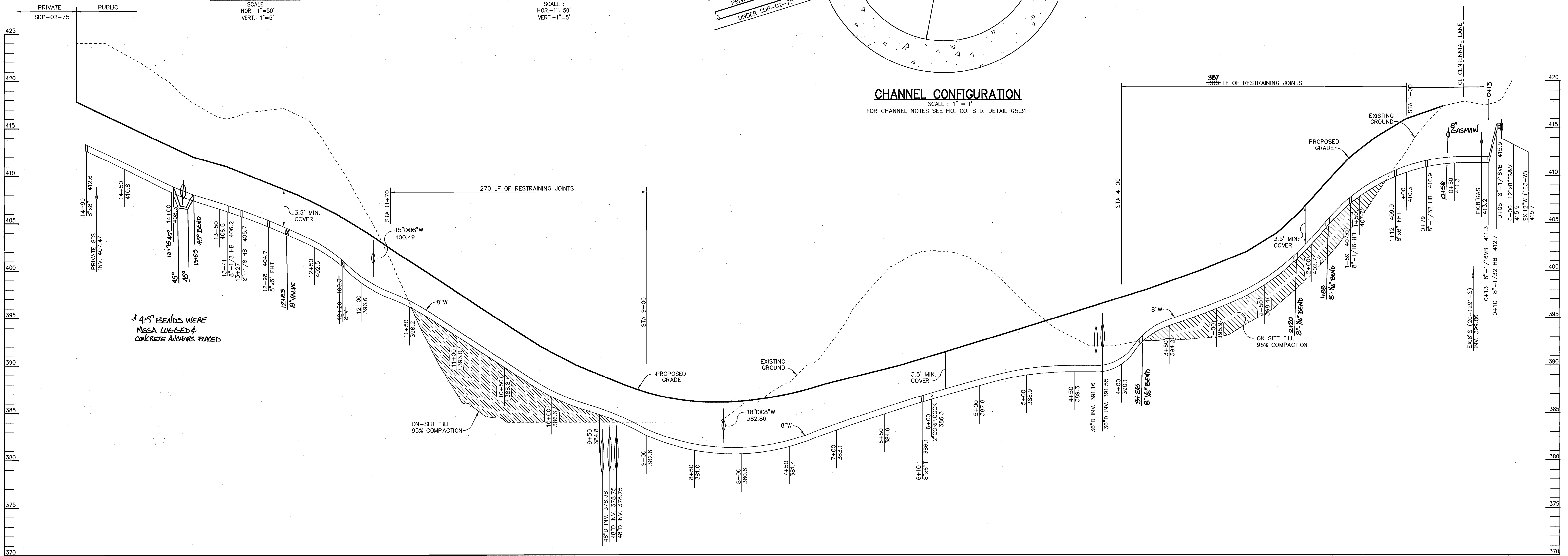
CHANNEL CONFIGURATION

SCALE: 1" = 1"
FOR CHANNEL NOTES SEE HO. CO. STD. DETAIL C5.31



WATER PROFILE

SCALE:
HOR.-1"=50'
VERT.-1"=5'



WATER PROFILE

SCALE:
HOR.-1"=50'
VERT.-1"=5'

DEPARTMENT OF PUBLIC WORKS
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T 410.997.8900
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CHRISTOPHER J. REID #19949

DES:	C.J.R.				
DRN:	DAM.				
CHK:	C.J.R.	2	K.G.I.	ASBUILT DATA SHOWN ON PLAN	9/16/04
DATE:	7/22/02				11-10-03
BY:					
NO.					
REVISION					

**PROFILES OF
WATER AND SEWER EXTENSIONS**

600' SCALE MAP NO. 30 BLOCK NO. 1

**SOCCER ASSOCIATION
OF COLUMBIA
PARCEL A**
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT 24-4040-D

SCALE
AS
SHOWN

SHEET
3 OF 3