

SHEET INDEX	
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2	PLAN OF WATER MAINS
3	WATER PROFILES

WATER EXTENSIONS

B. VON PARIS FACILITY

SECTION 1 PARCEL Q-1

CORRIDOR INDUSTRIAL PARK

6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 44-3583-D

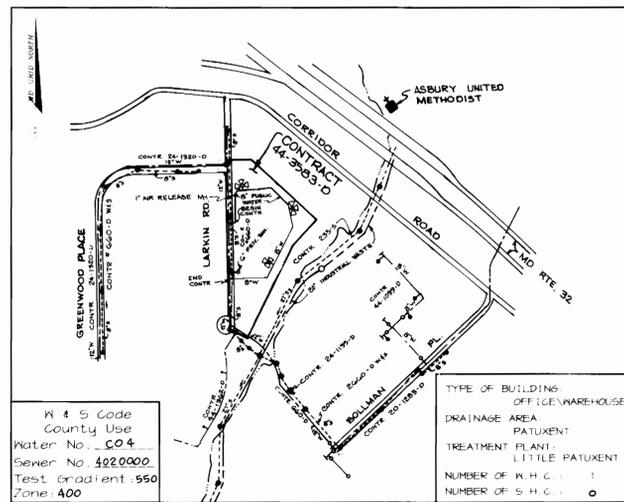
GENERAL NOTES

- 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. data.
- 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. 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.
- 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.
- Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

State Highway Administration	531-5533
Baltimore Gas & Electric Co. Contractor Services	850-4620
Baltimore Gas & Electric Co. Underground Damage Control	787-4068
Miss Utility	1-800-257-7777
Colonial Pipeline Co.	785-1340
Bureau of Utilities, Howard County Department of Public Works	313-4900
- 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. Payment for such removal shall be included in the unit price bid for construction of the main.
- All water mains to be D.I.P. Class 52 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 restrained and buttressed with concrete in accordance with Standard Details. 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.
- All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
- 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 M.T. in plan and profile shall have watertight frame and covers. Standard Detail 65-52. Where watertight manhole frame and cover 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.
- Manholes can be either brick or precast concrete structures.
- Contractor is solely responsible for construction means, methods, techniques, sequences, procedures, and safety precautions and programs.
- The fire hydrant shall be installed as per standard detail W-111.
- Fire hydrants will be located 3' FROM BACK OF CURB unless otherwise noted.
- For sprinkler systems, all townhomes or multi-family dwelling units should have a minimum of 1" connection with a 3/4" meter.
- 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.

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS BUILT		MANUFACTURER / SUPPLIER
		QUANTITIES	TYPE	
8" WATER	1456 LF	1456 LF	CL-52 DIP	U.S. Pipe / BRS
6" WATER	48 LF	48 LF	CL-52 DIP	U.S. Pipe / BRS
8" 1/8" HB	6 EA	6 EA		U.S. Pipe / BRS
8" 1/16 BEND	4 EA	4 EA		U.S. Pipe / BRS
8" VALVES	3 EA	4 EA		U.S. Pipe / BRS
8" X 6" T	3 EA	3 EA		U.S. Pipe / BRS
8" X 8" T	1 EA	1 EA		U.S. Pipe / BRS
6" VALVES	3 EA	3 EA		U.S. Pipe / BRS
FIRE HYDRANTS	3 EA	3 EA		U.S. Pipe / BRS
1" AIR RELEASE MANHOLE	1 EA	1 EA		Atlantic Conc.
12" X 8" TAP, GLEEV	1 EA	1 EA		U.S. Pipe / BRS



NAME OF UTILITY CONTRACTOR: Cherry Hill Construction, Inc.

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on SDP-97-50.

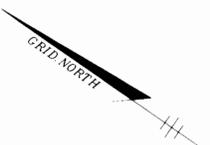
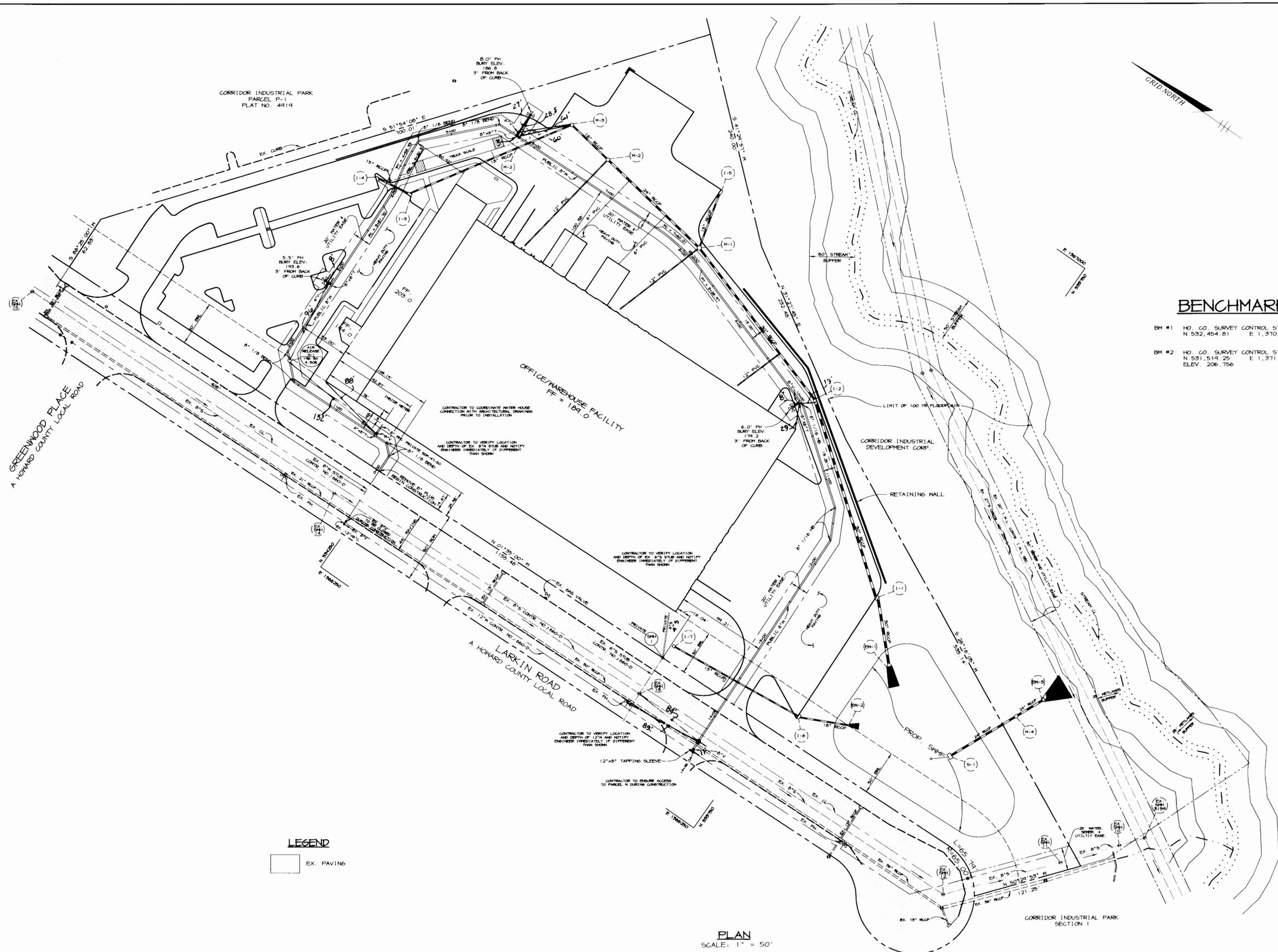
Review for Howard Soil Conservation District and meets technical requirements.

[Signature] 3/26/97 DATE
NATURAL RESOURCES CONSERVATION SERVICE

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

[Signature] 3/16/97 DATE
HOWARD SOIL CONSERVATION DISTRICT

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>[Signature]</i> 2/28/97 CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>[Signature]</i> 3/16/97 CHIEF, DEVELOPMENT ENGINEERING DIVISION	RIEMER MUEGGE & ASSOCIATES, INC. ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING 8818 Centre Park Drive, Columbia, Maryland 21045 Tel 410.997.8900 Fax 410.997.9282 86067 WSI DMC	DES: BLW DRN: BLW CHK: C.R. DATE: 2-26-97	TITLE SHEET	SCALE AS SHOWN SHEET 1 OF 3
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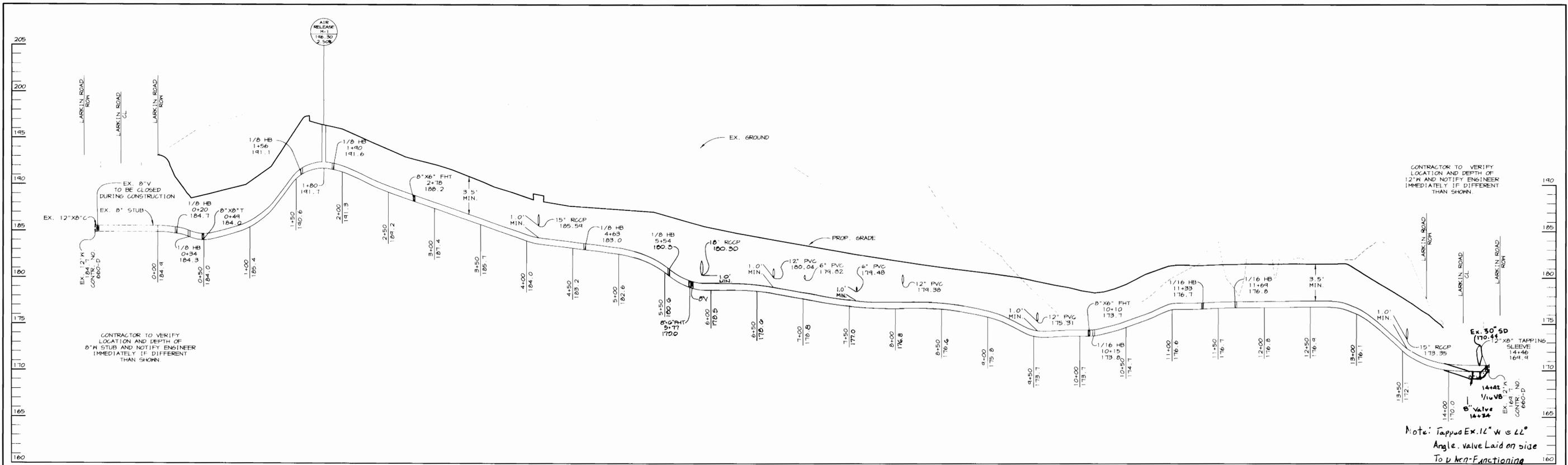
BENCHMARKS

BM #1 HO. CO. SURVEY CONTROL STATION: 486A
 N 532,454.81 E 1,370,538.04
 BM #2 HO. CO. SURVEY CONTROL STATION: 4864
 N 531,514.25 E 1,371,653.76
 ELEV. 206.756

LEGEND
 [Symbol] EX. PAVING

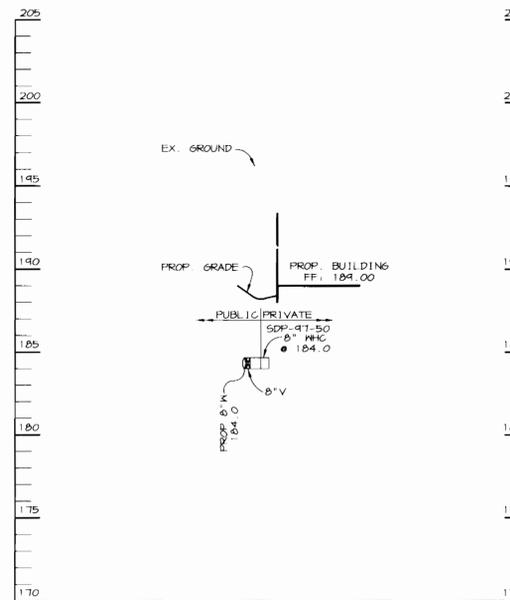
PLAN
 SCALE: 1" = 50'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Nelida A. Brown</i> 2/28/97 CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>J. Lavelle</i> 5/12/97 CHIEF, DEVELOPMENT ENGINEERING DIVISION	RIEMER MUEGGE & ASSOCIATES, INC. ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING 8818 Centre Park Drive, Columbia, Maryland 21045 tel 410.997.8900 fax 410.997.9282	DES: BLN				PLAN OF WATER MAINS	B. VON PARIS FACILITY SECTION 1 PARCEL Q-1 CORRIDOR INDUSTRIAL PARK 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 44-3583-D	SCALE AS SHOWN
			DRN: BLN						SHEET 2 OF 3
			CHK: CJR				600' SCALE MAP NO. 48.47 BLOCK NO. 13.10		
			DATE: 2/28/97	BY: NO.	REVISION	DATE		As-Quits	



WATER PROFILE

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



NHC PROFILE

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

RIEMER MUEGGE & ASSOCIATES, INC.
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8818 Centre Park Drive, Columbia, Maryland 21045
tel 410.997.8900 fax 410.997.9282
96087 RES.DWG

J. Parekh
JAYKANT D. PAREKH # 19148

DES:	BLW				
DRN:	BLW				
CHK:	CJR				
DATE:	2-26-97	BY:	NO.	REVISION:	DATE:

WATER PROFILES

600' SCALE MAP NO. 46.47 BLOCK NO. 13.18

B. VON PARIS FACILITY
SECTION I PARCEL Q-1
CORRIDOR INDUSTRIAL PARK
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT 44-3583-D

SCALE
AS
SHOWN

SHEET
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