

SEDIMENT CONTROL NOTES

- 1) A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (592-2455).
- 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 HANSLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3) FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1; B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4) ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND MARKED SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 HANSLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. FOR PERMANENT SEEDINGS (SEC. 51) SOG (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR TWOPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 6) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 7) SITE ANALYSIS:
 - TOTAL AREA OF SITE --- ACRES
 - AREA DISTURBED --- ACRES
 - AREA TO BE ROOFED OR PAVED --- ACRES
 - AREA TO BE VEGETATIVELY STABILIZED --- ACRES
 - TOTAL CUT --- CU. YDS.
 - TOTAL FILL --- CU. YDS.
- 8) OFF-SITE WASTE/BORROW AREA LOCATION ---
- 9) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- 10) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
- 11) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY BAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL UNIFORMITY: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- 1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQUARE FT.) AND 400 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC UP TO 1000 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (15 LBS/1000 SQ. FT.).
- 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY LONGGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOG. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELLS ANCHORED STRAW.

MULCHING - APPLY 1/4 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNWETTED SMALL-DRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 216 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 3 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

QUANTITIES

ITEM	UNIT	ESTIMATE	AS-BUILT	SUPPLIER
8" SEWER	L.F.	246		
STD 4" MANHOLE	E.A.	1		
4" S.H.C.	L.F.	18		

MANHOLE STAKEOUT TABLE

MANHOLE	DISTANCE	OFFSET
MH #1	171.4003 TO 171.4002 STA 1+22	29' RT.

**SEWER HOUSE CONNECTIONS
INVERT ELEVATIONS AT PROPERTY LINE**

STATION	LOT	ELEVATIONS
BAUMAN DRIVE AT MH #1 RT.	CHRYSYAL PROP	213.26
1+54	RICHARDSON PROP	210.85

TRAVERSE DATA

HOWARD CO. B.M. N 50175.843
#266007 E 872,738.181
N 14° 19' 49" E (90.64)
H.C. TRAV. P.I. #001 N 501,088.025
E 872,715.747
N 53° 16' 40" E (460.44)
H.C. TRAV. P.I. #002 N 500,812.711
E 872,346.284
N 57° 14' 50" E (288.53)
H.C. TRAV. P.I. #003 N 500,656.611
E 872,104.025
N 73° 53' 15" E (320.15)
HOWARD CO. B.M. N 500,567.763
#266008 E 871,796.455

REFERENCE BENCH MARKS

1. HOWARD COUNTY NO. 2646007
COORDINATES: N 50175.843
E 872,738.181
ELEV: 235.592
2. HOWARD COUNTY NO. 2646008
COORDINATES: N 500,567.763
E 871,796.455
ELEV: 231.102
(SEE VICINITY)

SEQUENCE OF CONSTRUCTION (S.O.C.)

1. CONTACT HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS (301) 922-2455.
2. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS PER SECTION 219.
3. EXCAVATE AND INSTALL PROPOSED SEWER MAIN.
4. RESTORE PAVING AND EARTH TRENCHES TO THEIR ORIGINAL CONDITION AS PER HOWARD COUNTY STANDARDS.
5. FINE GRADE ALL DISTURBED AREAS AND STABILIZE WITH PERMANENT SEEDING.
6. UPON PERMISSION FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE EROSION AND SEDIMENT CONTROL DEVICES AFTER ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

RESTORATION SCHEDULE

LOCATION	DISTANCE	TYPE
EX MH #3 TO MH #1	250 L.F.	SEED & MULCH MAC. PAVING
S.H.C. TO RICHARDSON PROP	10 L.F.	SEED & MULCH
S.H.C. TO CHRYSYAL PROP	10 L.F.	SEED & MULCH

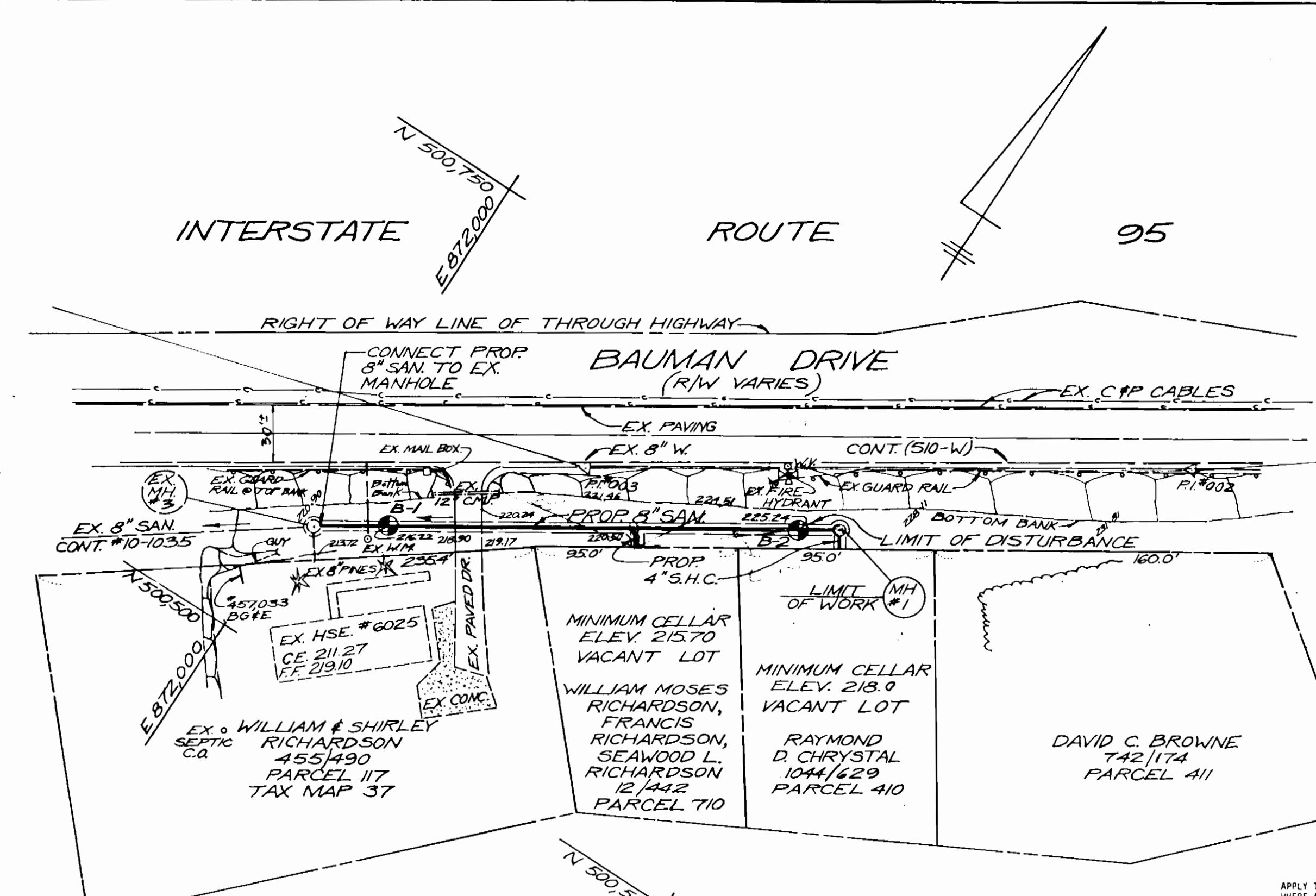
NUMBER OF LOTS-2
TYPE OF BUILDING-RESIDENTIAL
NUMBER OF S.H.C.-2
DRAINAGE AREA-PATAPSCO

SEWER CODE FOR COUNTY USE ONLY
SEWER NO. 2152215

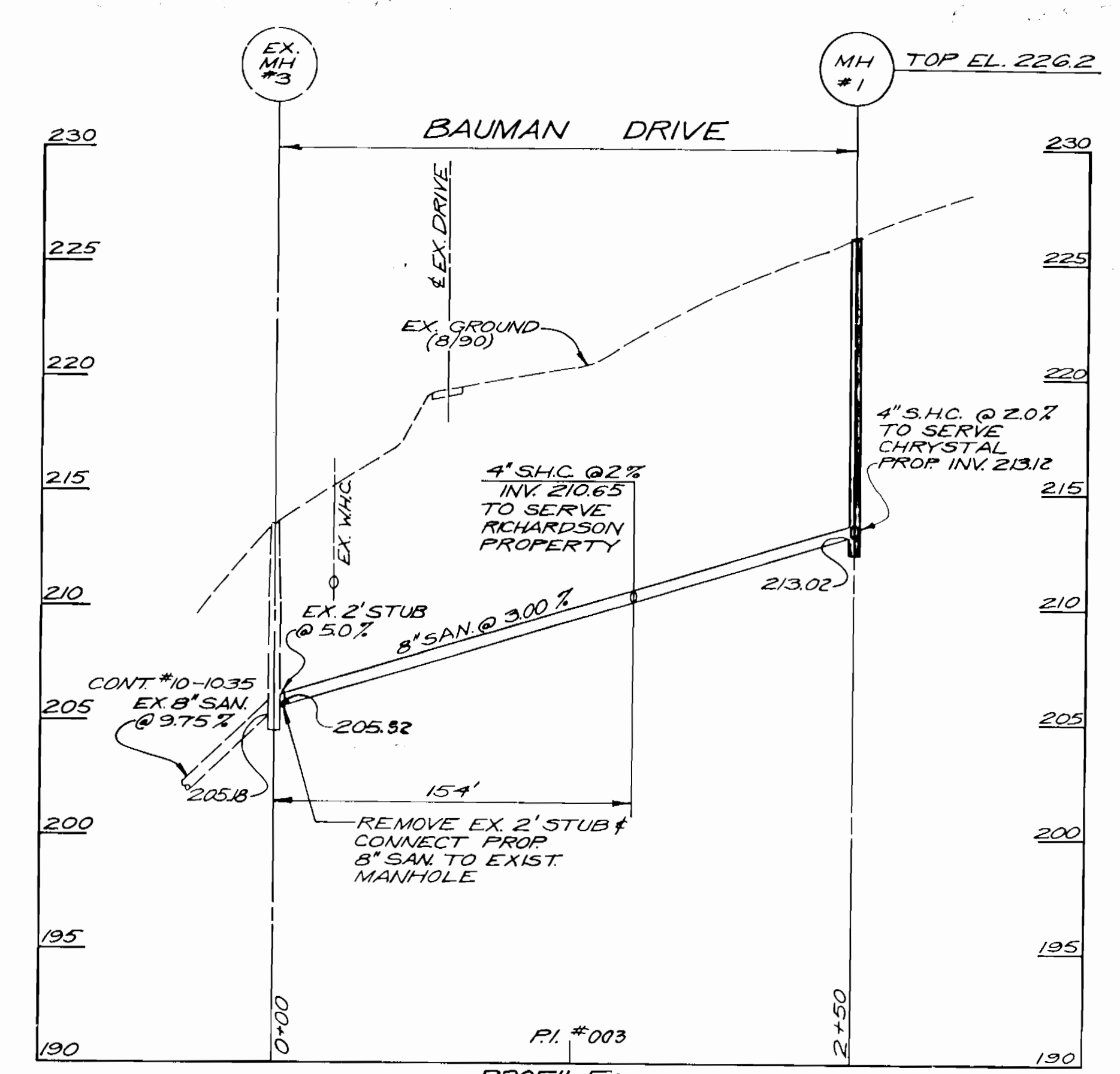
VICINITY MAP
SCALE 1"=600'

GENERAL NOTES

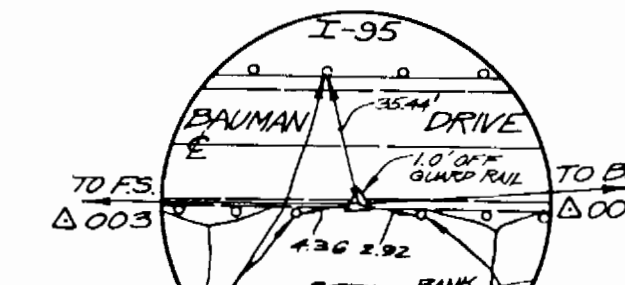
1. Approximate Location of existing mains are shown. The Contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.
2. All Horizontal Controls shown are based on Maryland State Coordinates.
3. All Vertical Controls are based on U.S.G.S. Datum.
4. All pipe elevations shown are invert elevations.
5. Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel as required.
6. For details not shown on the Drawings, And for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specification And Details For Construction. The Contractor shall have a copy of Volume IV on the job.
7. Where test pits have been made on existing utilities, they are noted by the symbol \boxtimes at location of 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 tests have not been dug shall be located by the Contractor two weeks in advance of Construction Operations at the Contractor's expense.
8. The Contractor shall notify the following utility companies or agencies at least five working days prior to starting work shown on this plan:
 - C&P Telephone Company 597-8585
 - State Highway Administration 531-5533
 - Baltimore Gas & Electric Co. Contractor Service 850-4620
 - Baltimore Gas & Electric Co. Underground Damage Control 859-9324
 - Baltimore Gas & Electric Co. Trouble Shooting 298-9001
 - MIS5 UTILITY 1-800-257-7777
 - Colonial Pipeline 795-1390
 - Bureau of Utilities, Howard County Dept. of Public Works 992-2366
9. 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.
10. Contractor shall remove trees, stumps and roots along line of excavation. Payment for such removal shall be included in the unit price for construction of the main and service connections.
11. All Sewer mains shall be C.S.P.X., R.C.S.P., V.C.P.X., or P.V.C. unless otherwise noted.
12. The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
13. All manholes shall be 4'-0" inside diameter unless otherwise noted.
14. Trench repair to be in accordance with Howard County Standards Details.
15. All work will be in accordance with Howard County Standards and Specifications for Soil Erosion and Sediment Control Section 219.
16. Length of open trench will be limited to that which can be filled and stabilized within one working day.



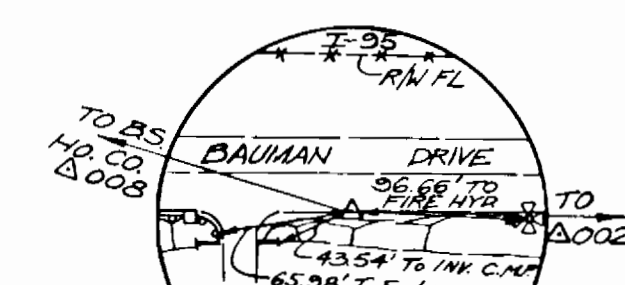
PLAN
SCALE: 1"=50'



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



HEC TRAVERSE P.I. #002



HEC TRAVERSE P.I. #003

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
EA-91-05
11-9-90
U.S. SOIL CONSERVATION SERVICE

This Construction Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.
APPROVED: [Signature]
HOWARD S.C.D. DATE: 11-14-90

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

HICKS ENGINEERING CO., INC.
ENGINEERS-SURVEYORS-PLANNERS
200 E. JOPPA ROAD SUITE 402
TOWSON MARYLAND 21204

CONTRACT NO. 10-3073
BAUMAN DRIVE SEWER EXTENSION
HOWARD COUNTY, MARYLAND
CAPITAL PROJECT S-6690
ELECTION DISTRICT 1

SCALE AS SHOWN
SHEET 1 OF 1



DES. E.A.S.	DRN. C.E.S.	CHK. K.L.Q.	DATE
			3/17/90

BY	NO.	REVISION	DATE
	1	REVISED PER HOWARD CO. COMMENTS	9-22-90

600' SCALE MAP NO. S 37.38 BLOCK NO. 7