

INDEX OF DRAWINGS

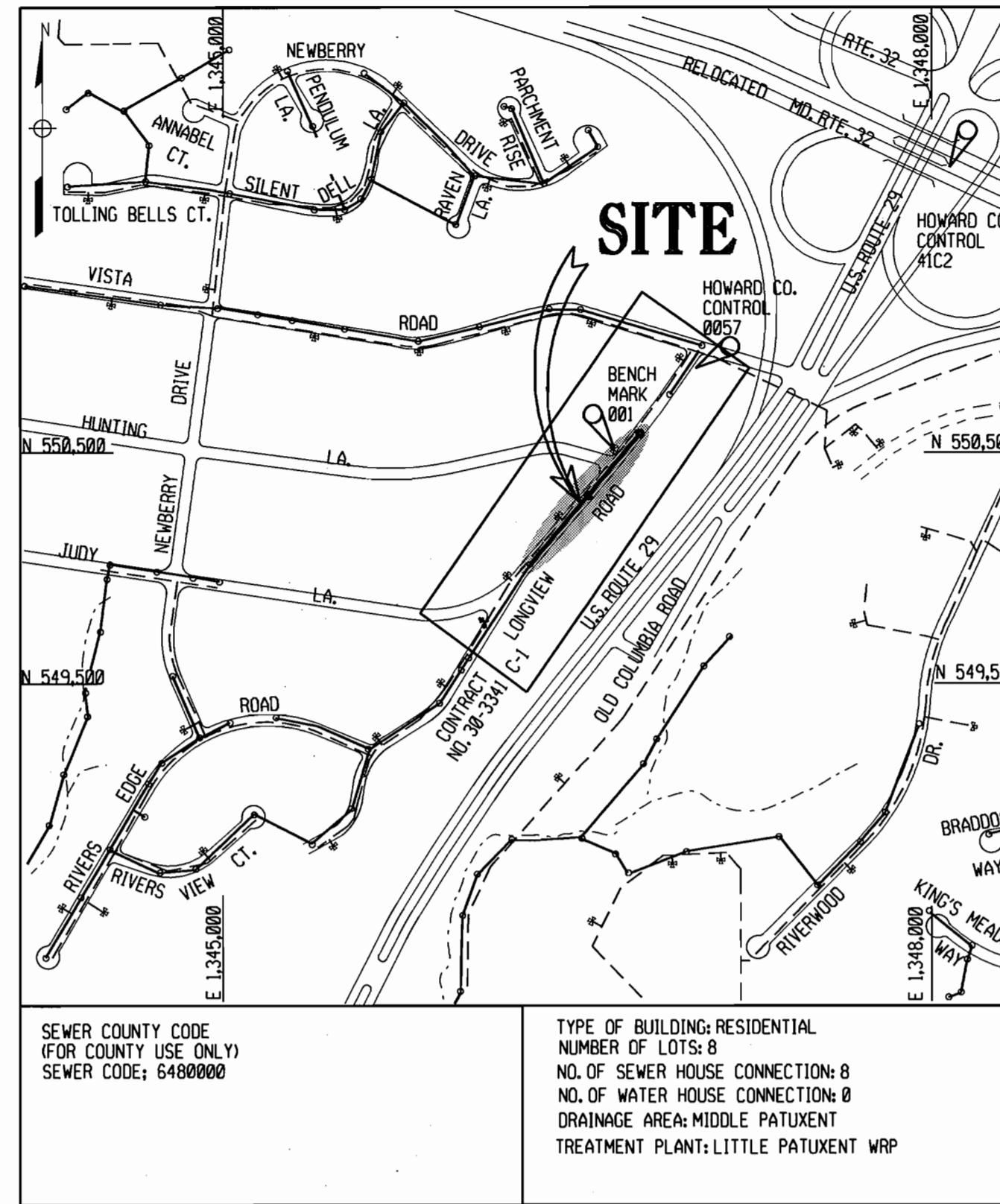
SHEET NO.	DRAWING NO.	DESCRIPTION
1	G-1	TITLE SHEET, VICINITY MAP, QUANTITIES, INDEX OF DRAWINGS AND GENERAL NOTES
2	C-1	PLAN AND PROFILE
3	SC-1	SEDIMENT CONTROL NOTES AND DETAILS

FOR SEDIMENT AND EROSION CONTROL LEGEND, SEE DRAWING SC-1.

QUANTITIES

ITEM	ESTIMATED	AS-BUILT October 24, 2002		
		QUANTITIES	TYPE	SUPPLIER
8" SANITARY SEWER	850 L.F.	832 L.F.	PVC SDR-35	Belair Rd Supply
4" S.H.C.	196 L.F.	227.5 L.F.	PVC SDR-35	Belair Rd Supply
MANHOLES	3 EA.	3 EA.	Precast	Atlantic
MANHOLES- DEPTH OVER 6'	19 V.F.	17.3 V.F.		

* Includes Stackpipes & DMC Abandoned in place for #7017 Longview Rd.



VICINITY MAP

SCALE : 1" = 600'

CAPITAL PROJECT NO. S-6698
 CONTRACT NO. 30-3980
 LONGVIEW ROAD
 SEWER EXTENSION
 FIFTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

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.
- THE COORDINATES SHOWN HEREON ARE BASED UPON HOWARD COUNTY GEODETIC SURVEY CONTROL WHICH IS BASED UPON THE MARYLAND PLANE COORDINATE SYSTEM NAD 83/91 HOWARD COUNTY MONUMENTS NOS. 41C2 AND 0057 WERE USED FOR THIS PROJECT.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM NAVD 88
- ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12" CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES, IF REQUIRED.
- FOR DETAILS NOT SHOWN ON DRAWINGS, 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 SITE.
- EXISTING UTILITIES IN THE VICINITY OF PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF UTILITIES 410-313-4900
 BGE (CONTRACTOR SERVICES) 410-850-4620
 BGE (UNDERGROUND DAMAGE CONTROL) 410-291-3634
 MISS UTILITY 1-800-257-7777
 AT&T 301-865-3877
 COLONIAL PIPELINE CO. 410-549-4120
 VERIZON 1-800-446-5266
 COMCAST CABLEVISION 410-931-4680

- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT POSSIBLE.
- 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.
- NO WETLAND EXISTS WITHIN THE LIMITS OF THIS CONTRACT.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER VALVES ON THE EXISTING WATER SYSTEM. THE CONTRACTOR SHALL CONTACT HOWARD COUNTY DPW BUREAU OF UTILITIES IF OPERATION OF VALVES IS NEEDED.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT 410-313-7450 AT LEAST FIVE DAYS BEFORE OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER AND SEWER MAIN OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH THE DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL DEVICES AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH TWO FOOT CONTOUR INTERVALS PREPARED BY WHITMAN, REQUARDT AND ASSOCIATES IN APRIL 2001.
- EXISTING SEWER IS PUBLIC, CONTRACT NO. 30-3341 PROPOSED SEWER IS PUBLIC, CONTRACT NO. 30-3980 DRAINAGE AREA IS MIDDLE PATUXENT.
- CONTRACTOR TO PROTECT EXISTING PROPERTY MARKERS FROM BEING DISTURBED. IF A DISTURBANCE OCCURS, REPLACEMENT MUST BE DONE BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR EXPENSE.
- ALL PIPELINE TRENCHES ON THIS PROJECT SHALL BE BACKFILLED ACCORDING TO SECTION 1000.03.19 OF THE STANDARD SPECIFICATIONS INCLUDING THE FOLLOWING REQUIREMENTS TO FULL TRENCH COMPACTION WITHIN THE COUNTY ROAD RIGHT OF WAY: USING RASHTO SOILS TO 90% IN THE TOP TWO FEET OF THE TRENCH BELOW FINAL SUBGRADE AND 90% FROM TWO FEET BELOW FINAL SUBGRADE TO THE TOP OF THE PIPE BEDDING.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED ON DRAWINGS.
- MANHOLE LOCATED IN ROADWAY SHALL HAVE TRAFFIC BEARING MANHOLE FRAME AND COVER.
- ALL SEWER MAINS SHALL BE SDR 35 P.V.C. UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD POWER LINES. IF THE OPERATION BECOMES DANGEROUS HE SHALL CONTACT THE POWER COMPANY TO TEMPORARILY SHUT-OFF SERVICE.

B.M. NO. 001
 + CUT @ ROADSIDE FLANGE
 BOLT OF FIRE HYDRANT
 LOCATED AT NORTHWEST
 CORNER OF LONGVIEW
 ROAD AND HUNTING LANE.
 ELEV. 402.142 FT.
 N 550.447.67
 E 1.346.657.88

B.M. NO. 0057
 BRASS OR ALUMINUM DISC
 LOCATED APPROX. 15' EAST
 OF EAST EDGE ROAD OF
 LONGVIEW ROAD, SOUTH OF
 INTERSECTION WITH VISTA RD.
 4.8' FROM G&E POLE 15577
 AND 57' NORTHWEST FROM
 NORTHWEST CORNER OF
 1 STY. BRICK DWLG.
 ELEV. 398.92 FT.
 N 550835.217
 E 1347017.693

NEW	LEGEND	EXISTING
---	UTILITY EASEMENT LINE	---
---	PROPERTY LINE- R/W LINE	---
---	TRAFFIC, PROPERTY SIGN	---
---	UTILITY POLE & GUY WIRE	---
---	LIGHT POLE	---
---	BANK/SLOPE	---
---	FENCE	---
---	TREE/TREE LINE/CONIFEROUS	---
---	HEDGE, BUSH	---
---	CONTOUR	---
---	PIPELINE CURVE P.I./ TRAV. P.I.	---
---	SEWER MANHOLE	---
---	SEWER LINE	---
---	SEWER CLEAN-OUT	---
---	WATER VALVE	---
---	WATER METER	---
---	FIRE HYDRANT	---
---	LIMITS OF DISTURBANCE	---
---	WATER	---
---	GAS	---
---	UNDERGROUND TELE. CABLE	---
---	TELE. PEDESTAL	---
---	TEST PIT	---
---	SOIL BORING	---
---	BENCHMARK	---
---	IRON PIN/IRON PIPE	---
---	CONCRETE MONUMENT	---
---	STONE	---
---	STORM DRAIN MANHOLE	---
---	YARD LAMP	---
---	CABLE TV	---
---	CABLE TV PEDESTAL	---
---	TRANSFORMER	---
---	AIR CONDITION	---
---	MAIL BOX	---
---	SIGN	---

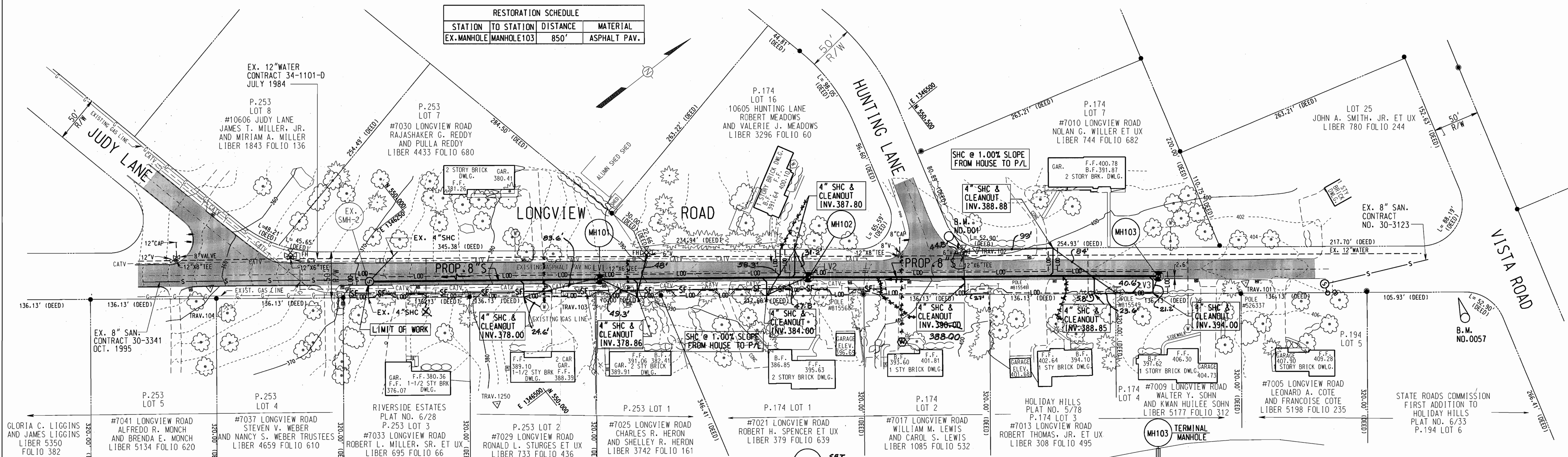
BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.
 [Signature] 2/14/02
 DATE

THESE PLANS HAVE BEEN REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
 [Signature] 2/12/02
 [Signature] 2/14/02
 [Signature] 2/14/02
 DATE

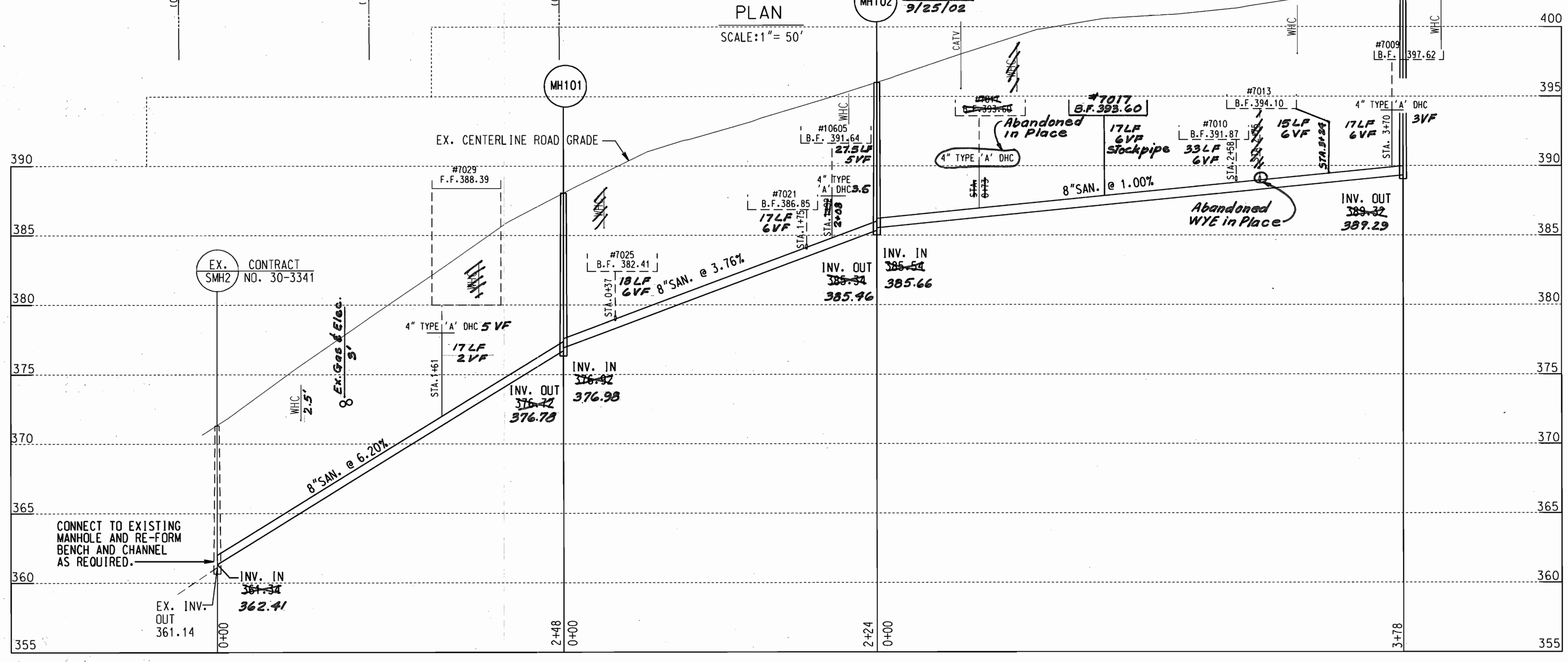
BY THE ENGINEER:
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 [Signature] 11/4/01
 DATE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND. [Signature] 2/14/02 DATE	PREPARED BY: WR&A Whitman, Requardt and Associates, LLP. 2315 ST. PAUL ST. BALTIMORE, MD. 21218 410-235-3450	DES: WRD/EJM DRN: EJM CHK: WRD DATE: 5-11-01	TITLE SHEET	LONGVIEW ROAD SEWER EXTENSION CAPITAL PROJECT S-6698 CONTRACT NO. 30-3980 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 1 OF 3
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RESTORATION SCHEDULE			
STATION	TO STATION	DISTANCE	MATERIAL
EX. MANHOLE	MANHOLE 103	850'	ASPHALT PAV.



PLAN
SCALE: 1" = 50'



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

CONTROL SCHEDULE AND BENCH MARKS				
NUMBER	DESCRIPTION	NORTH	EAST	ELEV.
TRAV. 101	REBAR & CAP	550.666.98	1,346.873.30	403.93
TRAV. 102	REBAR & CAP	550.460.01	1,346.665.19	399.86
TRAV. 103	REBAR & CAP	550.096.29	1,346.434.99	386.82
TRAV. 104	REBAR & CAP	549.785.31	1,346.189.18	359.50

MANHOLE SCHEDULE			
NUMBER	NORTH	EAST	TOP ELEV.*
101	550.120.70	1,346.440.35	387.67
102	550.298.34	1,346.576.81	395.92
103	550.596.55	1,346.809.19	403.33

TOP ELEV.* - REPRESENTS ALSO TOP OF SOIL BORINGS FOR MH101-LV1, FOR MH102-LV2, AND FOR MH103-LV3.

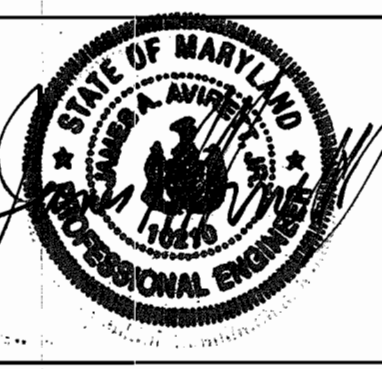
NOTE: PROVIDE BEDDING OF NO. 57 STONE FROM 6 INCHES BELOW PIPE INVERT TO 6 INCHES ABOVE PIPE CROWN FOR ALL PVC SEWER PIPE.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND.

[Signature] DATE 2-15-02
DIRECTOR OF PUBLIC WORKS

[Signature] DATE 2-14-02
CHIEF, UTILITY DESIGN DIVISION

PREPARED BY:
WR&A
Whitman, Reardon and Associates, LLP
2315 St. Paul St.
Baltimore, Md. 21218
410-235-3450



DES: WRD/EJM	
DRN: EJM	
CHK: WRD	
DATE: 5-11-01	
BY NO.	REVISION

PLAN AND PROFILE

600' SCALE MAP NO. 41 BLOCK NO. 6

LONGVIEW ROAD SEWER EXTENSION
CAPITAL PROJECT S-6698
CONTRACT NO. 30-3980
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

C-1

SCALE AS SHOWN

SHEET 2 OF 3

