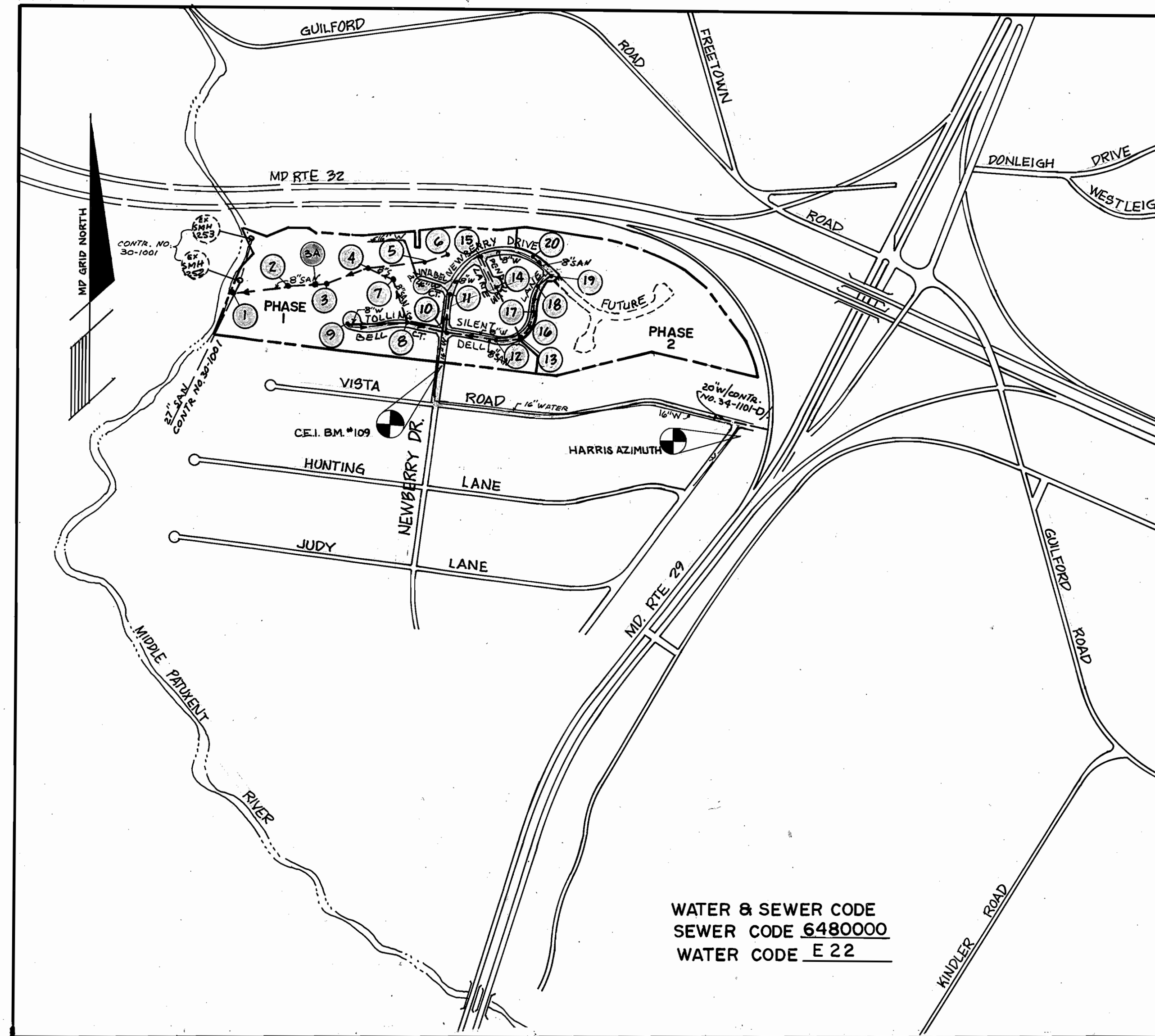


GENERAL NOTES

- 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 1'. 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 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 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 SERVICES - 561-2585
  - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND 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 COUNTY 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. (SEE NO. 24)
- 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 STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.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 WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.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.
- ALL SINGLE W.H.C.'S SHALL BE 3/4" ALL DOUBLE W.H.C.'S SHALL BE 1" UNLESS OTHERWISE NOTED.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING UNLESS NOTED ON PLANS.
- PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
- ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE EXISTING ZONING OF THE SITE IS: NEW TOWN
- THE SITE SHOWN HEREON IS OWNED BY HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION AND RECORDED AMONG THE LANDS RECORD IN LIBER 1525 FOLIO 122
- ALL DRAINAGE AND UTILITY EASEMENTS SHOWN HEREON ARE INTENDED TO HAVE AN ADDITIONAL 10' WIDE CONSTRUCTION STRIP PARALLEL TO EACH EASEMENT LINE.
- ALL SANITARY SEWER MANHOLES ARE TO BE STANDARD MANHOLES PER HOWARD COUNTY DETAIL NO. S1.31 UNLESS OTHERWISE NOTED HEREON.
- ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH A WWA SPECIFICATION C-153 DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.



WATER & SEWER CODE  
SEWER CODE 6480000  
WATER CODE E 22

VICINITY MAP  
SCALE: 1"=600'

# CONTRACT NO. 34-1810-D

## VILLAGE OF HICKORY RIDGE

### SECTION 6 AREA 1

### LOTS 1 THRU 61

### HOWARD COUNTY, MD.

### DEPARTMENT OF PUBLIC WORKS

CONSTRUCTION SEQUENCE  
SEDIMENT CONTROL PROCEDURES

- OBTAIN SEDIMENT CONTROL PERMIT (ARTICLE 15.05-3).
- CONSTRUCT CONTINUOUS SEDIMENT BARRIER FOR ALL DISTURBED AREAS NOT PROTECTED BY SEDIMENT TRAPS.
- CLEAR, GRUB & STRIP AS REQUIRED TO PROTECT STREAM FROM EROSION OF STORED TOPSOIL. SEPARATE TOPSOIL FROM SUBSOIL.
- CONSTRUCT PIPELINE.
- ALL EXCAVATED MATERIAL SHALL BE STOCKPILED ON HIGH SIDE OF TRENCH.
- RESTORE EROSION CONTROL STRUCTURES DISTURBED BY SEWER CONSTRUCTION.
- STABILIZE DISTURBED AREAS AS CONSTRUCTION PROGRESSES WITH TEMPORARY SEEDING & MULCHING (OR PERMANENT RESTORATION).
- COMPLETE PERMANENT RESTORATION WILL BE IN ACCORDANCE WITH ROAD CONSTRUCTION PLANS.
- ALL SEDIMENT CONTROL DEVICES SHALL REMAIN IN SERVICE UNTIL REMOVAL IS APPROVED BY THE S.C.S. INSPECTOR.
- RESTORATION (TEMPORARY OR PERMANENT) OF AN AREA BETWEEN MANHOLES SHALL FOLLOW WITHIN ONE WEEK OF PIPE LAYING IN THAT AREA.

BENCH MARKS

CEI BENCHMARK #109 ELEV. 341.64  
TOP OF P.K. NAIL NORTHEAST 270'± FROM INTERSECTION OF VISTA RD. AND NEWBERRY DR. 16' FROM NORTHWEST CURB.

HOWARD CO. BENCHMARK #2340007 ELEV. 399.66  
HARRIS AZIMUTH (MONUMENT SET IN CONCRETE) AT SOUTHEAST CORNER OF VISTA RD. AND LONGVIEW RD. 50' FROM CURB OF VISTA RD. 15' FROM CURB OF LONGVIEW RD.

FOR LOCATION OF BENCH MARKS SEE DRAWINGS.

WASTEWATER TREATMENT	SAVAGE
TYPE OF LOTS	SINGLE FAMILY
NO. OF LOTS	59
NO. OF S.H.C.'S	59
NO. OF W.H.C.'S	59
DRAINAGE AREA	Middle Patuxent

QUANTITIES			
ITEM	ESTIMATED	AS-BUILT	MATERIAL/SUPPLIER
SEWER MANHOLE	NO. 21	21	ATLANTIC CONCRETE
AIR RELEASE MH	NO. 1	1	ATLANTIC CONCRETE
8" SEWER	L.F. 4658	3702.74 L.F.	Howards Municipal Contractors
16" WATER	L.F. 3750	3757.56 L.F.	U.S. PIPE
8" WATER	L.F. 2680	2677.27 L.F.	" "
6" WATER	L.F. 397	374.44 L.F.	" "
16" VALVE	NO. 5	5	" "
8" VALVE	NO. 7	6	" "
6" VALVE EXCLUD. (F.H. VALVES)	NO. 1	1	" "
Water H.C.	3/4" 1012 L.F. 1" 118 L.F.	347.704 L.F. 1" 676 L.F.	Muehle Co./Belair Supply
FIRE HYDRANT	NO. 11	11	U.S. PIPE
Sewer H.C.	6" 1260 L.F.	1576 L.F.	Howards Municipal Contractors Supply
4" WATER	38 L.F.	38 L.F.	Guffin/Belair Road Supply
4" VALVE	1EA	1EA	Howards/Belair Rd. Supply
4" Blow-off Valve	1EA	1EA	" " " "
6" Blow-off Valve	1EA	1EA	M.H. Lowndesdale Int. Supply
8" D.I.P. SEWER		974.45 L.F.	U.S. PIPE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE STANDARD SPECIFICATIONS, AND ROAD CONSTRUCTION PLAN F-88-199.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
 Signature: James M. Helm  
 DATE: 7/15/88

U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT APPROVED:

Signature: Stephen L. Helm  
 DATE: 7/15/88

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

Signature: James M. Helm 7/16/88  
 Signature: Stephen L. Helm 7/15/88  
 Signature: Michael A. ... 7-11-88  
 Signature: ... 7/15/88

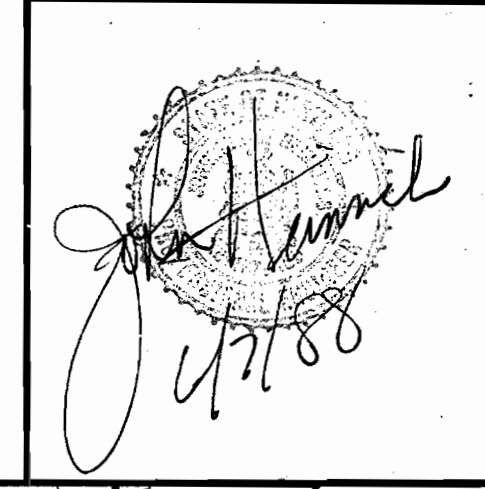
CENTURY ENGINEERING, INC.  
CONSULTING ENGINEERS - PLANNERS  
TOWSON, MARYLAND 21204  
CEI 87034

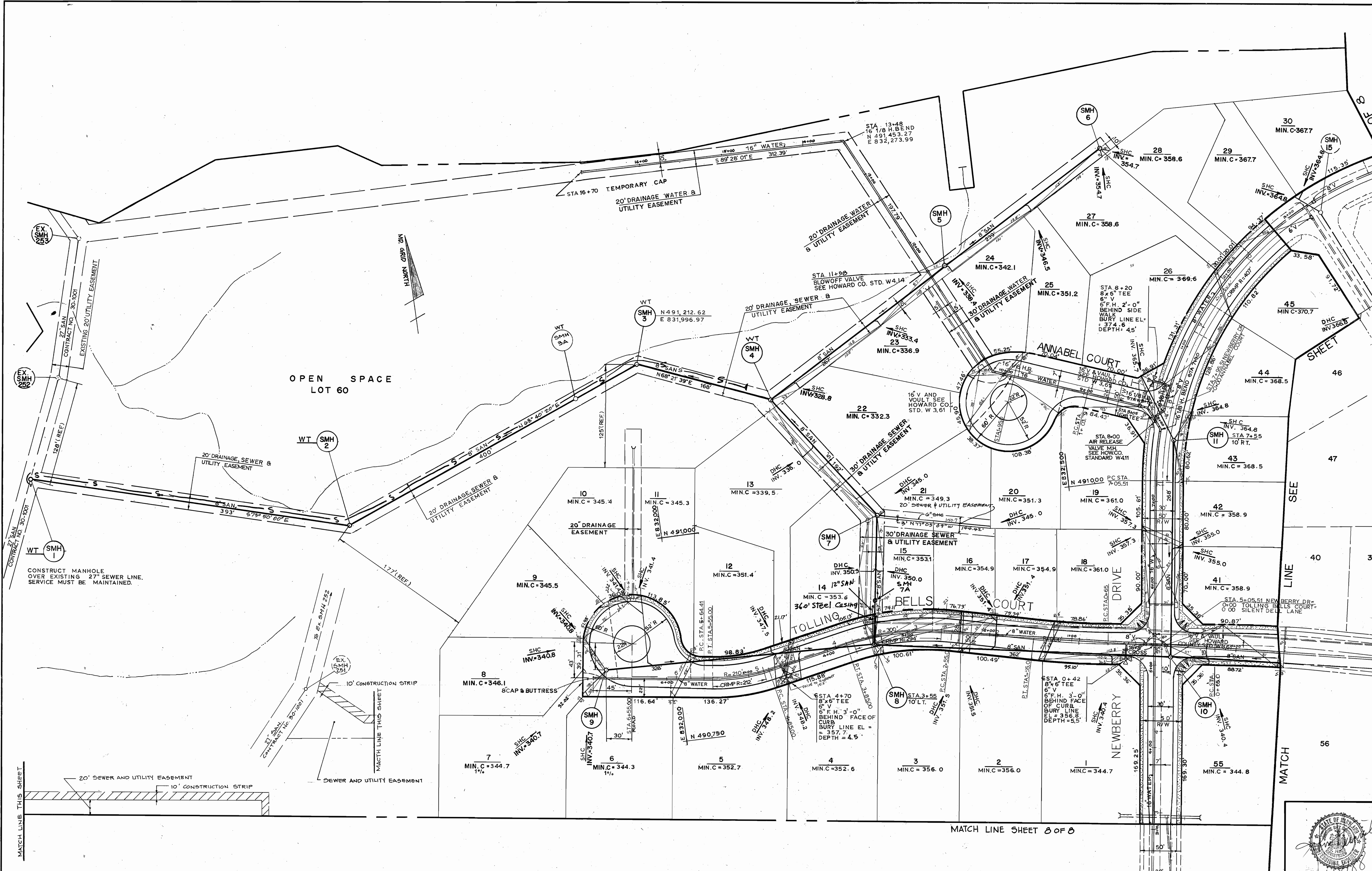
DATE	NO.	DESCRIPTION
11-21-88	2	CHANGE FH QUANTITIES TO NO. 11
10-14-88	1	CHANGE SEWER QUANTITIES TO 21 (MH)

TITLE SHEET  
WATER & SEWER MAINS

VILLAGE OF HICKORY RIDGE  
SECTION 6 AREA 1 PARCEL 45  
CONTRACT NO. 34-1810-D

DRAWING NO. 1 OF 8  
SCALE 1"=600'





DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*James M. Lewis* 7/10/88  
 DIRECTOR OF PUBLIC WORKS — DATE

*Michael A. Haines* 7/13/88  
 CHIEF - BUREAU OF UTILITIES — DATE

CENTURY ENGINEERING, INC.  
 CONSULTING ENGINEERS - PLANNERS  
 TOWSON, MARYLAND 21204 CEI 87034

DATE	NO.	DESCRIPTION
11-21-88	4	ADD SEWER & UTILITY EASEMENT
11-4-88	3	CHANGE BLOWOFF LOCATION STA. 11+58
10-14-88	2	ADD MH 3A
8-20-88	1	ADD AIR RELEASE VALVE, WL STA.

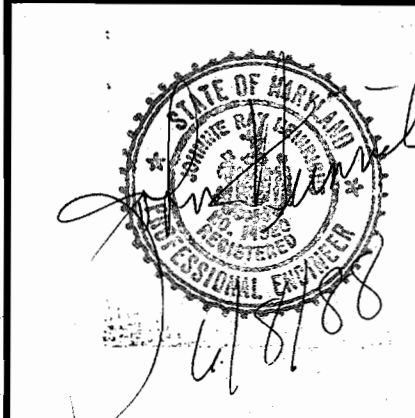
PLAN  
 WATER & SEWER MAINS

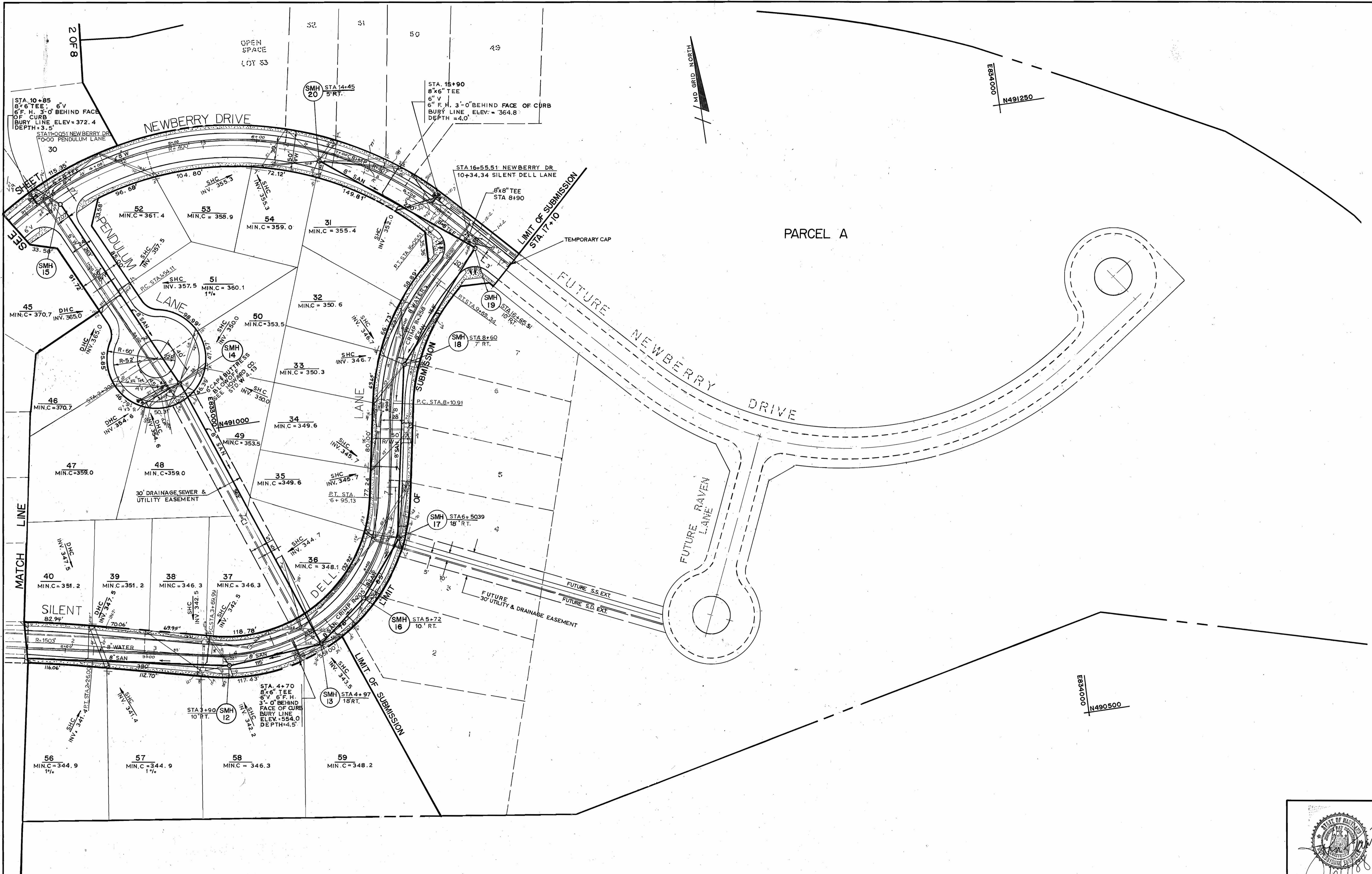
VILLAGE OF HICKORY RIDGE  
 SECTION 6 AREA 1 PARCEL 45  
 CONTRACT NO. 34-1810-D

DRAWING NO. 2 OF 8

SCALE 1" = 50'

AS PLUM 1-11-89 & 11-27-90





DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*James J. ...* 7/13/88  
 DIRECTOR OF PUBLIC WORKS — DATE

*...* 7-13-88  
 CHIEF - BUREAU OF ENGINEERING — DATE

*...* 7-13-88  
 CHIEF - BUREAU OF UTILITIES — DATE

*...* 7/13/88  
 CHIEF - LAND DEVELOPMENT DIVISION — DATE

CENTURY ENGINEERING, INC.  
 CONSULTING ENGINEERS - PLANNERS

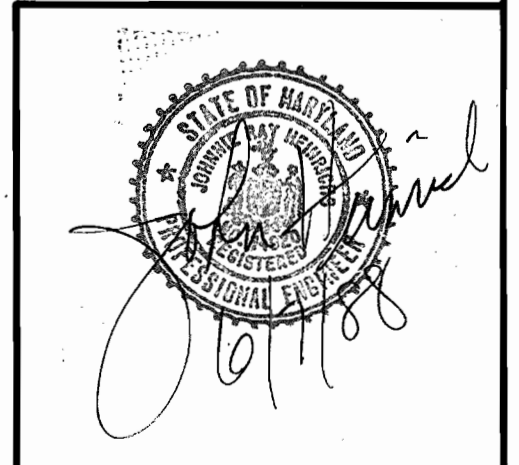
TOWSON, MARYLAND 21204 CEI 87034

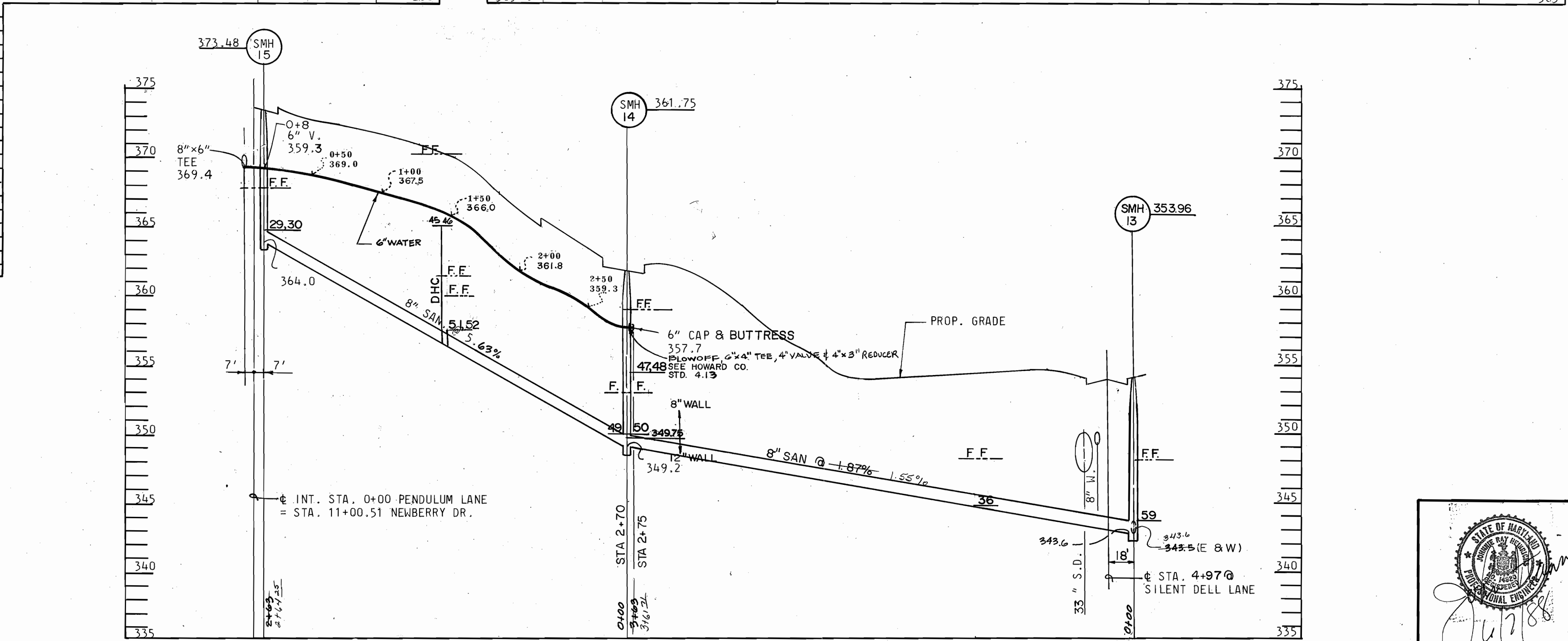
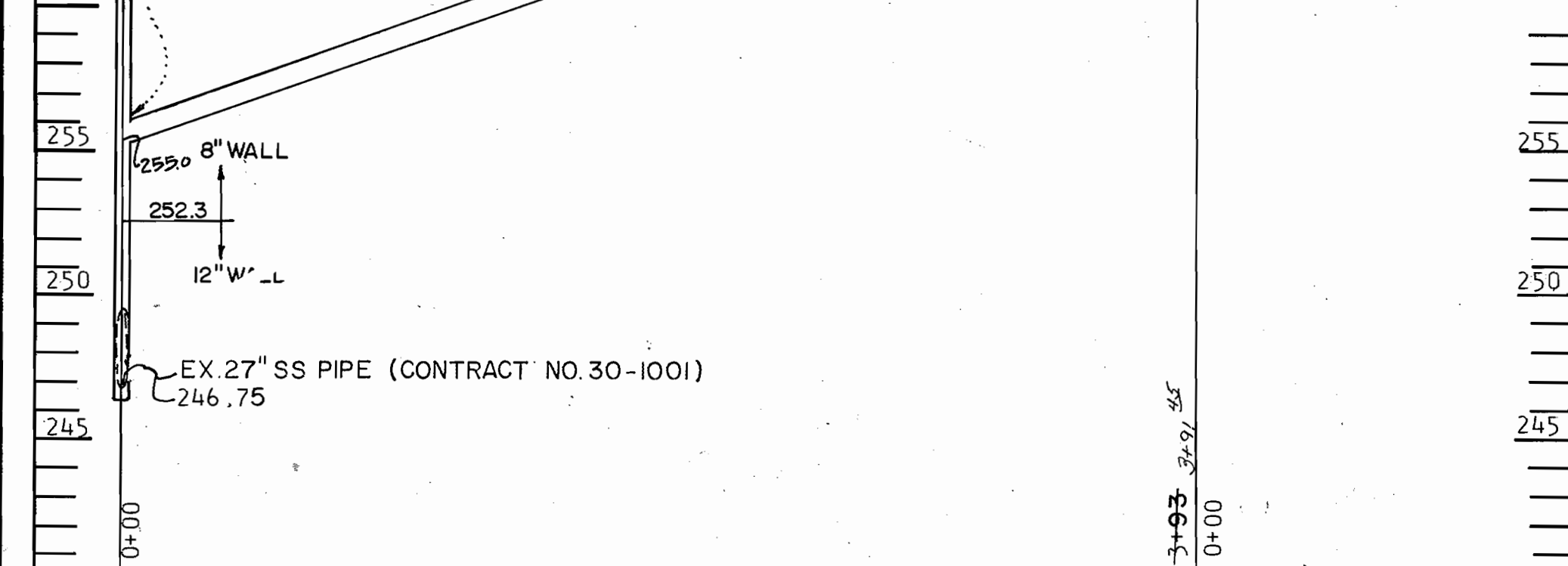
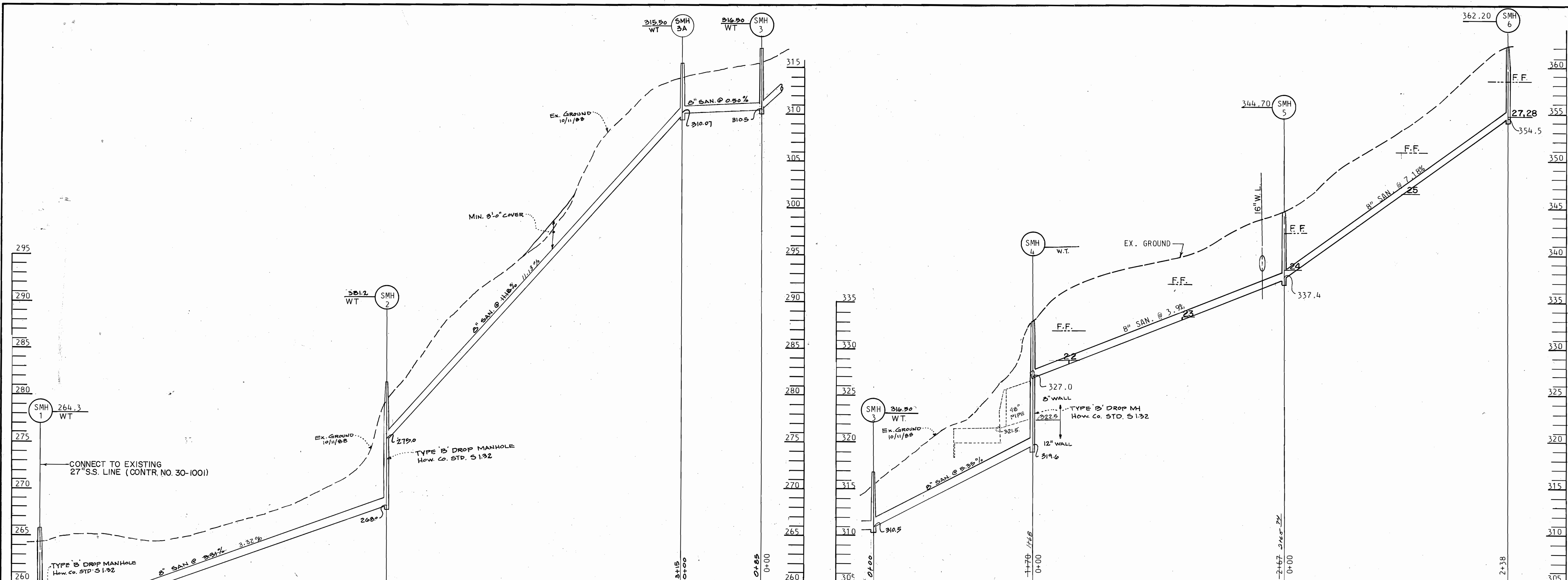
DATE	NO.	DESCRIPTION
11-21-80	2	REMOVE FH & TEE @ STA 2+07
8-20-88	1	LOT 45 & 46 CHANGE INV. ELEV.

PLAN  
 WATER & SEWER MAINS

VILLAGE OF HICKORY RIDGE  
 SECTION 6 AREA I PARCEL 45  
 CONTRACT NO. 34-1810-D

DRAWING NO. 3 OF 8  
 SCALE 1" = 50'





PROFILE PENDULUM LANE SCALE: HOR. 1"=50' VER. 1"=5'

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James M. ...* 7/10/88  
DIRECTOR OF PUBLIC WORKS — DATE

*William S. ...* 7-15-88  
CHIEF-BUREAU OF ENGINEERING — DATE

*Charles A. ...* 7-11-88  
CHIEF-BUREAU OF UTILITIES — DATE

*Small ...* 7/13/88  
CHIEF-LAND DEVELOPMENT DIVISION — DATE

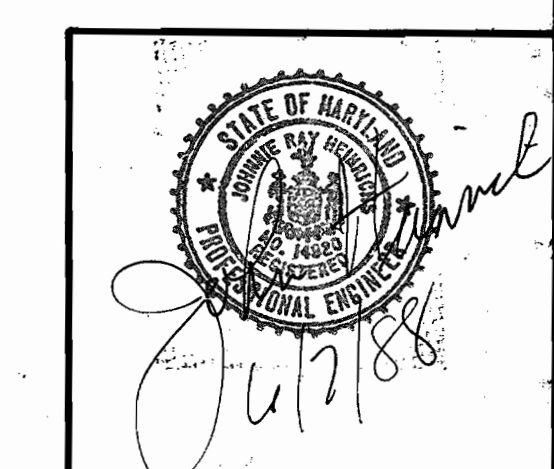
CENTURY ENGINEERING, INC.  
CONSULTING ENGINEERS · PLANNERS  
TOWSON, MARYLAND 21204 CE1 87034

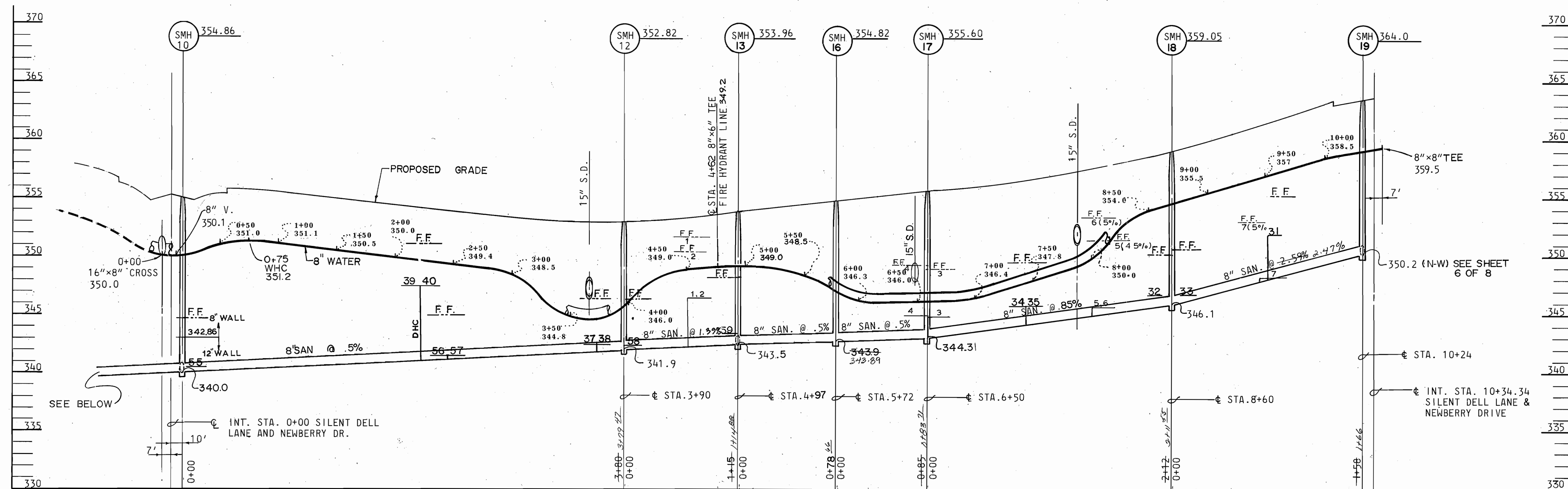
DATE	NO.	DESCRIPTION
11-21-88	3	CHANGE MH 4 TO DROP MH, LOWER SAN. BOTTOM, MH 2 & 3
10-14-88	2	CHANGE GR. LINE, SLOPE OF PIPES TOP ELEV. MH 2, 3 & ADD MH 5A.
8-25-88	1	LOT 25 TO BE L. TRAP WL CHANGE SLOPE SAN. LINE

PROFILES  
WATER & SEWER MAINS

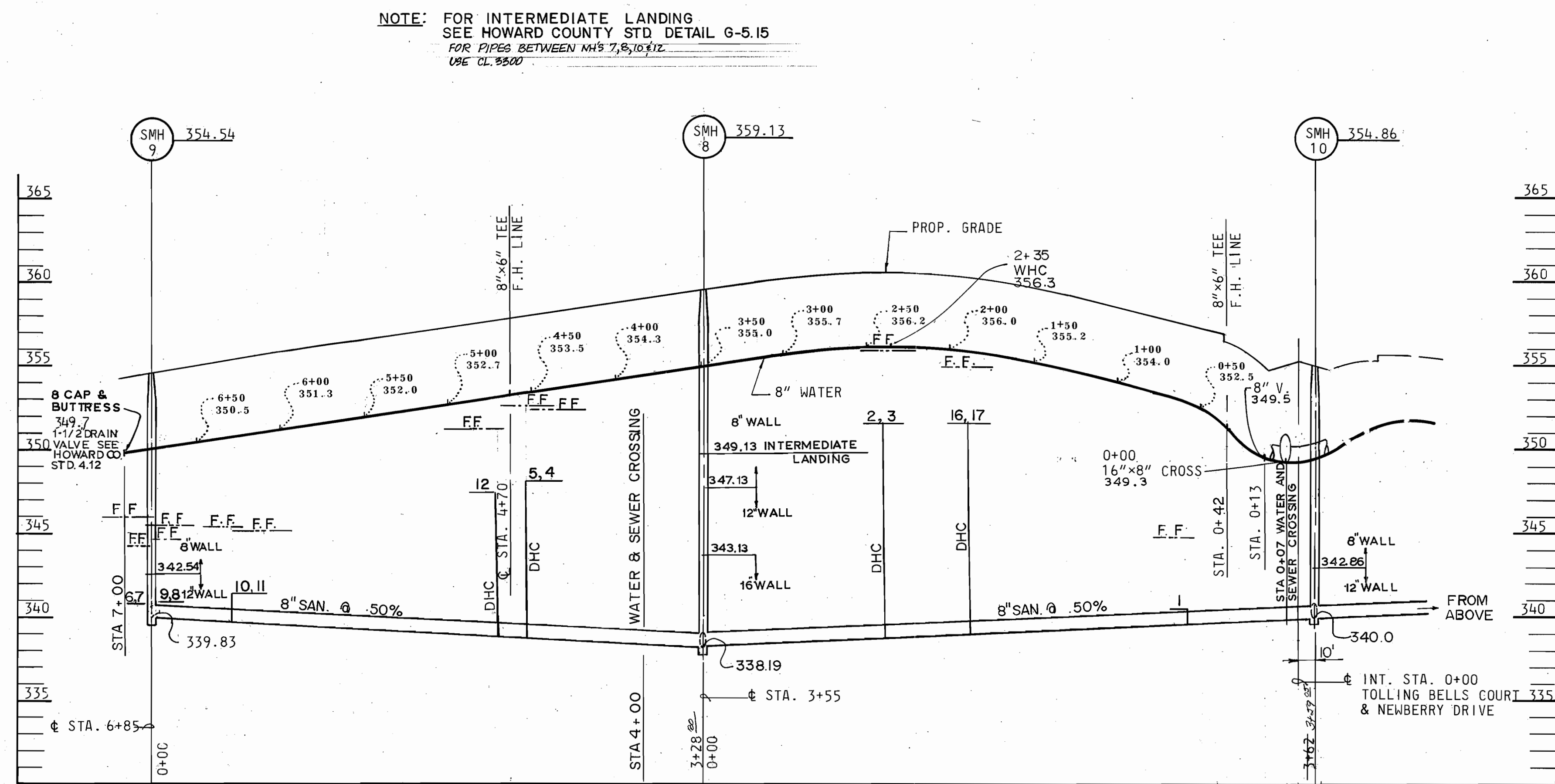
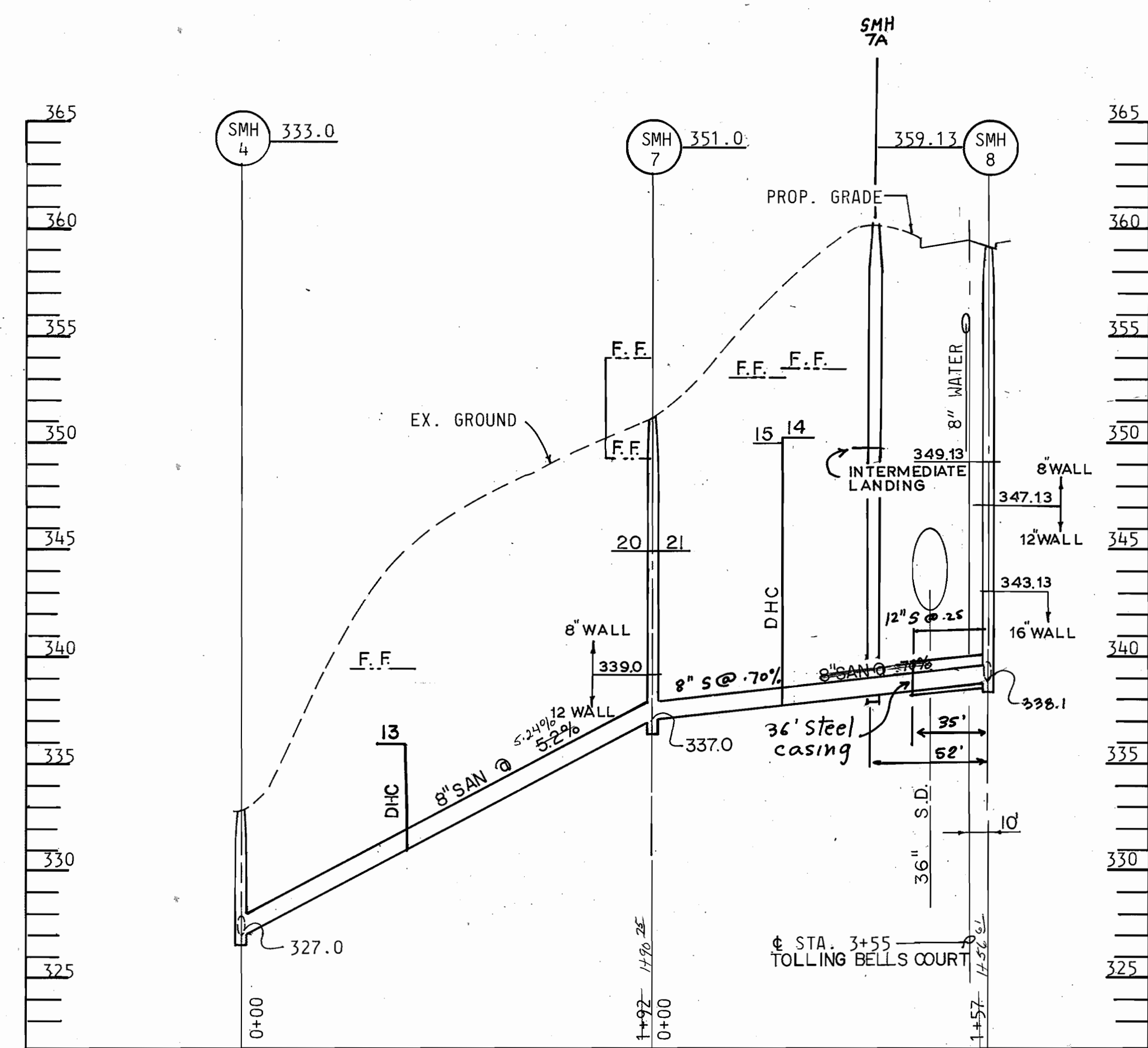
VILLAGE OF HICKORY RIDGE  
SECTION 6 AREA I PARCEL 45  
CONTRACT NO. 34-1810-D

DRAWING NO. 4 OF 8  
SCALE 1"=5' V 1"=50' H





SILENT DELL LANE



NOTE: FOR INTERMEDIATE LANDING  
SEE HOWARD COUNTY STD. DETAIL G-5.15  
FOR PIPES BETWEEN M/S 7, 8, 10, 11, 12  
USE CL. 3300

TOLLING BELLS COURT

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

James J. Lewis 7/1/88 DIRECTOR OF PUBLIC WORKS - DATE  
Richard A. Mainelli 7/1/88 CHIEF - BUREAU OF UTILITIES - DATE  
William S. R. Day 7-15-88 CHIEF - BUREAU OF ENGINEERING - DATE  
Paul J. Saper 7/13/88 CHIEF - LAND DEVELOPMENT DIVISION - DATE

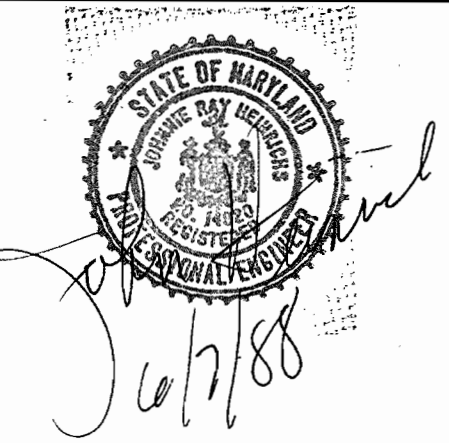
CENTURY ENGINEERING, INC.  
CONSULTING ENGINEERS - PLANNERS  
TOWSON, MARYLAND 21204 CEI 87034

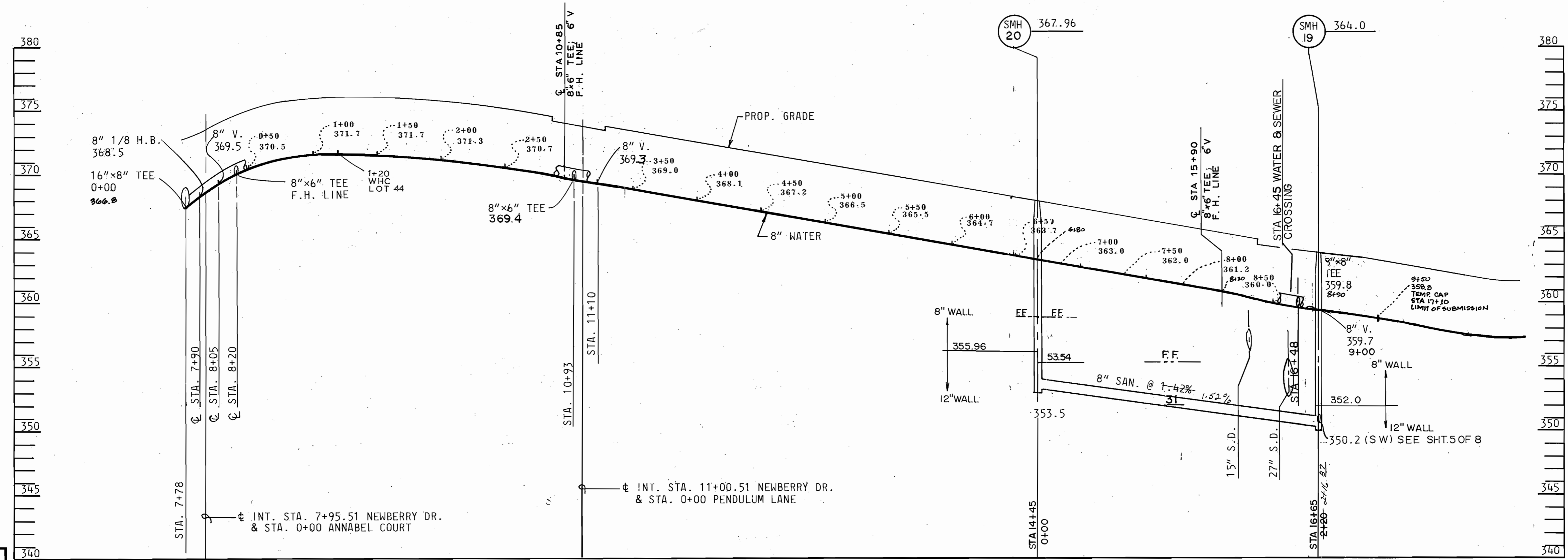
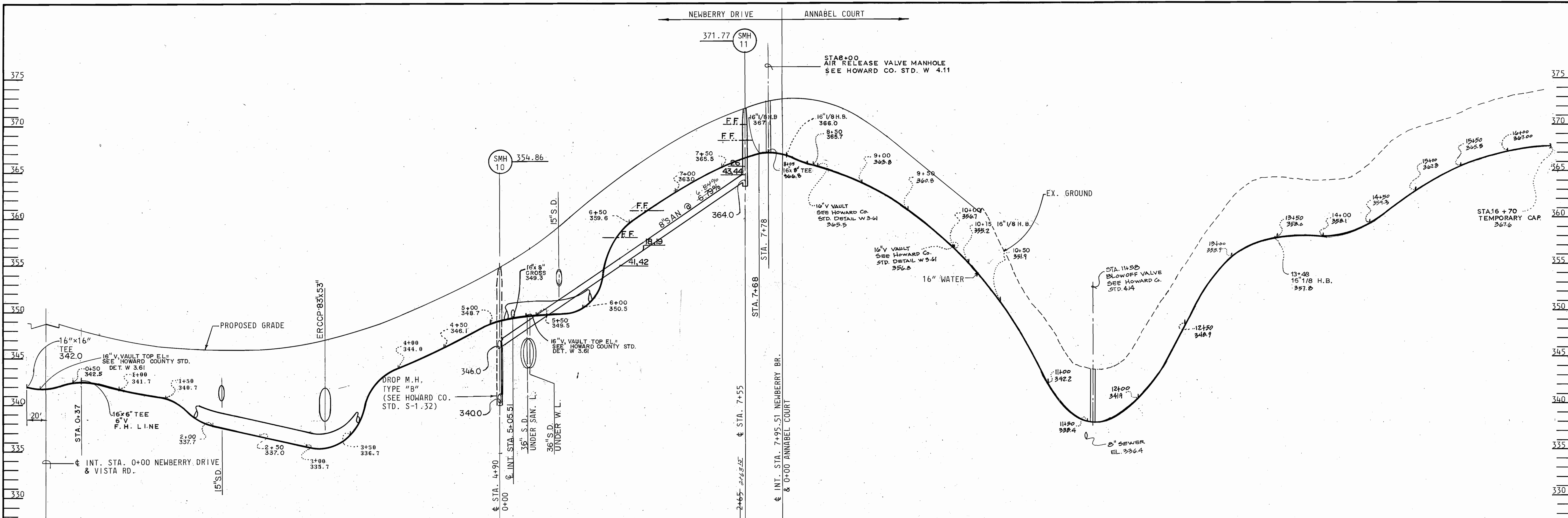
DATE	NO.	DESCRIPTION
11-21-88	2	REMOVE F.H. 4 TEE @ STA. 2+07
8-20-88	1	CORRE, SLOPES, ADD 8" V & NOTE CHANGE BL.

PROFILES  
WATER & SEWER MAINS

VILLAGE OF HICKORY RIDGE  
SECTION 6 AREA I PARCEL 45  
CONTRACT NO. 34-1810-D

DRAWING NO. 5 OF 8  
SCALE 1" = 5' V  
1" = 50' H





DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James M. ...*  
DIRECTOR OF PUBLIC WORKS — DATE

*William ...*  
CHIEF - BUREAU OF ENGINEERING — DATE

*Richard ...*  
CHIEF - BUREAU OF UTILITIES — DATE

*Frank ...*  
CHIEF - LAND DEVELOPMENT DIVISION — DATE

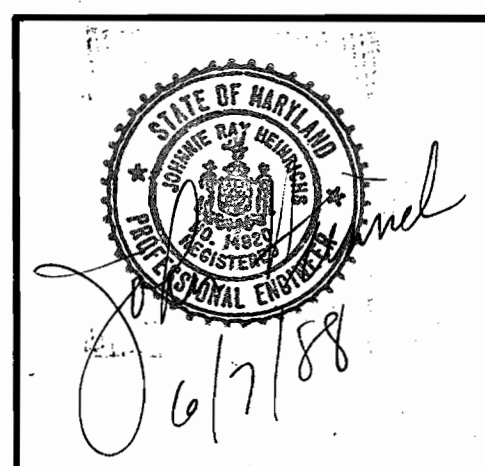
CENTURY ENGINEERING, INC.  
CONSULTING ENGINEERS - PLANNERS  
TOWSON, MARYLAND 21204 CE1 87034

DATE	NO.	DESCRIPTION
11-4-88	2	CHANGE WATER & GROUND LINE - ANNABEL CT.
8-20-88	1	CHANGE M.H. 19 (M.H. 20 LOCATION)

NEWBERRY DRIVE  
PROFILES  
WATER & SEWER MAINS

VILLAGE OF HICKORY RIDGE  
SECTION 6 AREA I PARCEL 45  
CONTRACT NO. 34-1810-D

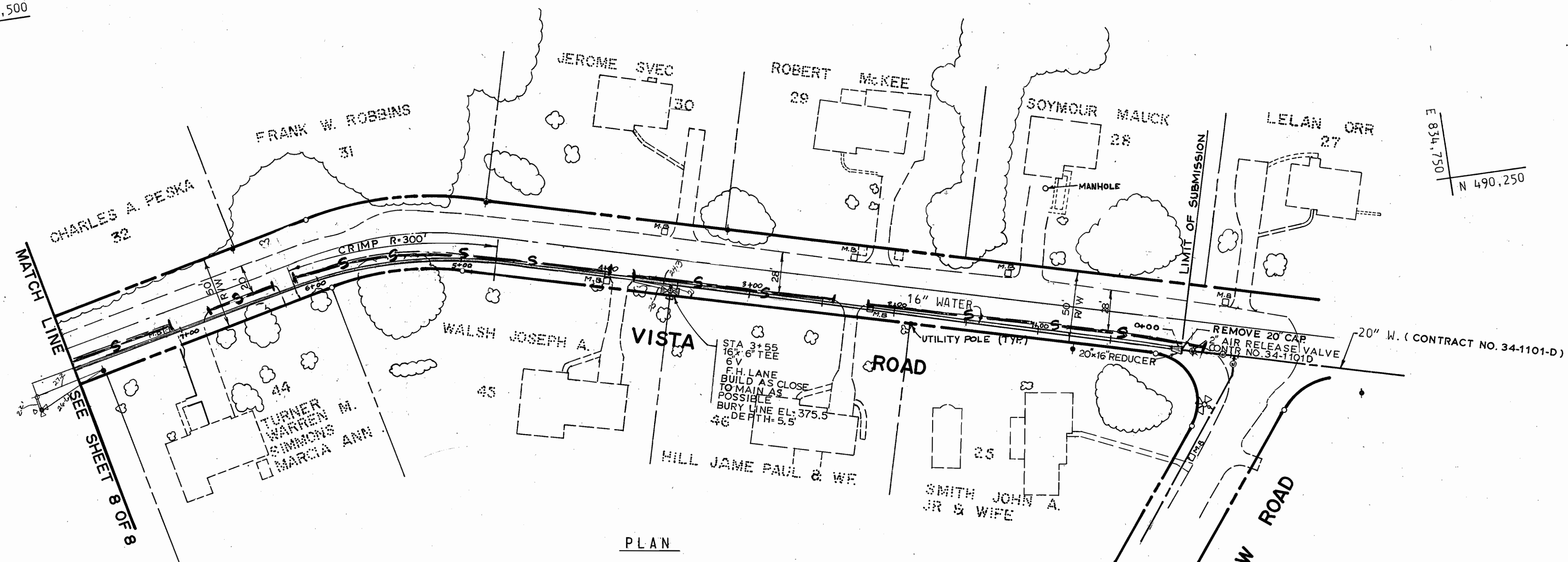
DRAWING NO. 6 OF 8  
SCALE 1" = 5' V  
1" = 50' H



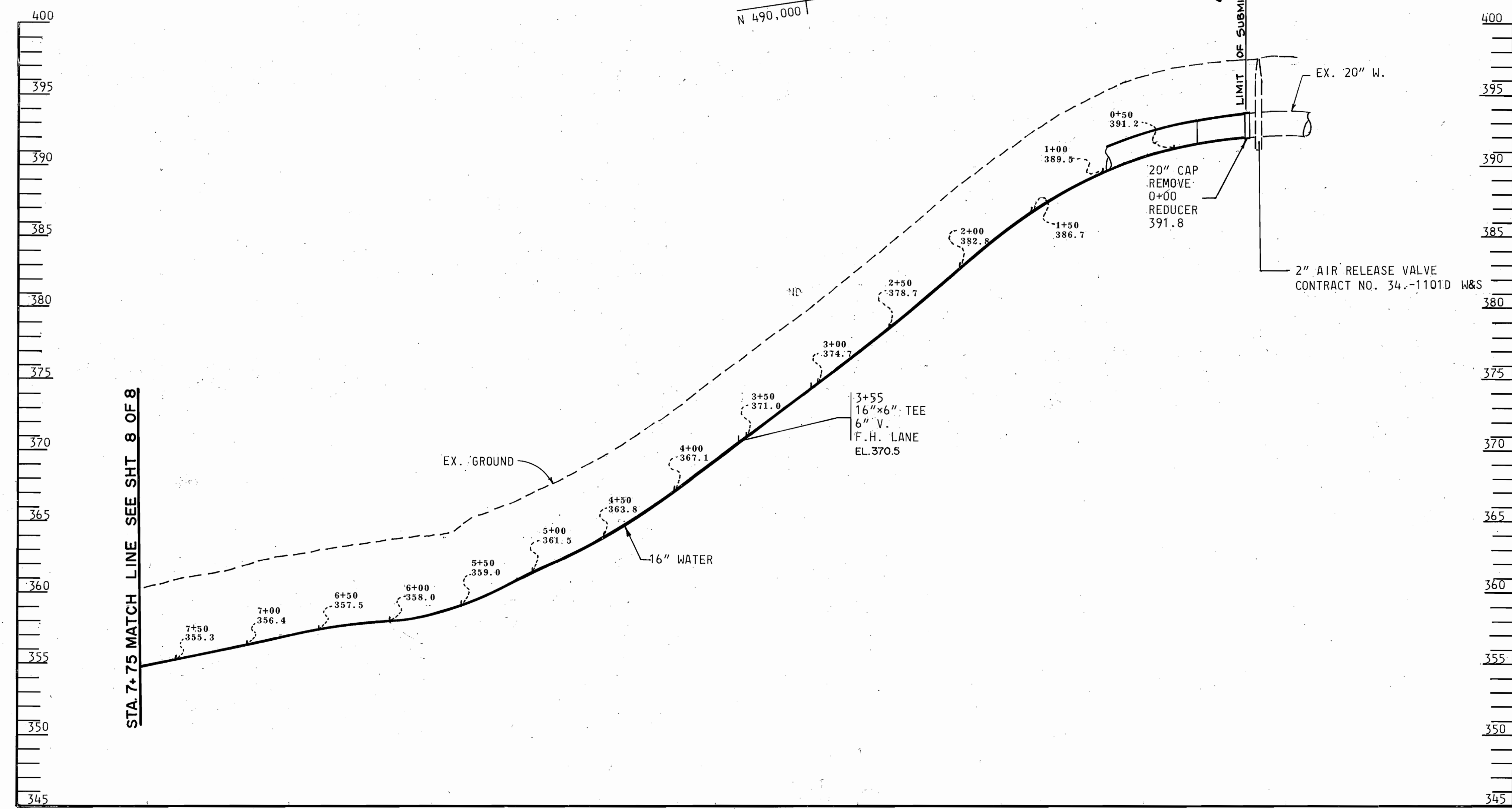
N 490,500  
E 833,750

E 834,750  
N 490,250

E 834,250  
N 490,000



PLAN  
SCALE: 1" = 50'



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

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James A. ...* 7/16/88  
DIRECTOR OF PUBLIC WORKS — DATE

*Michael A. ...* 7-11-88  
CHIEF - BUREAU OF UTILITIES — DATE

*Michael A. ...* 7-13-88  
CHIEF - BUREAU OF UTILITIES — DATE

*Michael A. ...* 7-13-88  
CHIEF - LAND DEVELOPMENT DIVISION — DATE

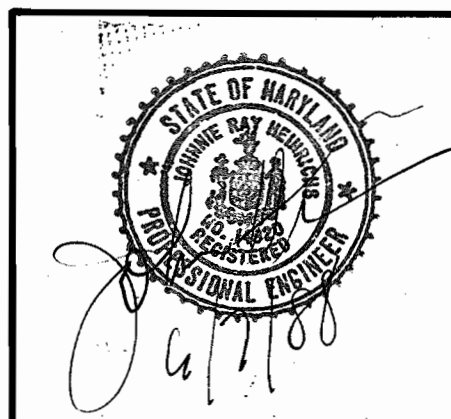
CENTURY ENGINEERING, INC.  
CONSULTING ENGINEERS - PLANNERS  
TOWSON, MARYLAND 21204  
CEI 87034

DATE	NO.	DESCRIPTION
8-26-88	1	COVER F.H. STA. & E.L. ELEV.

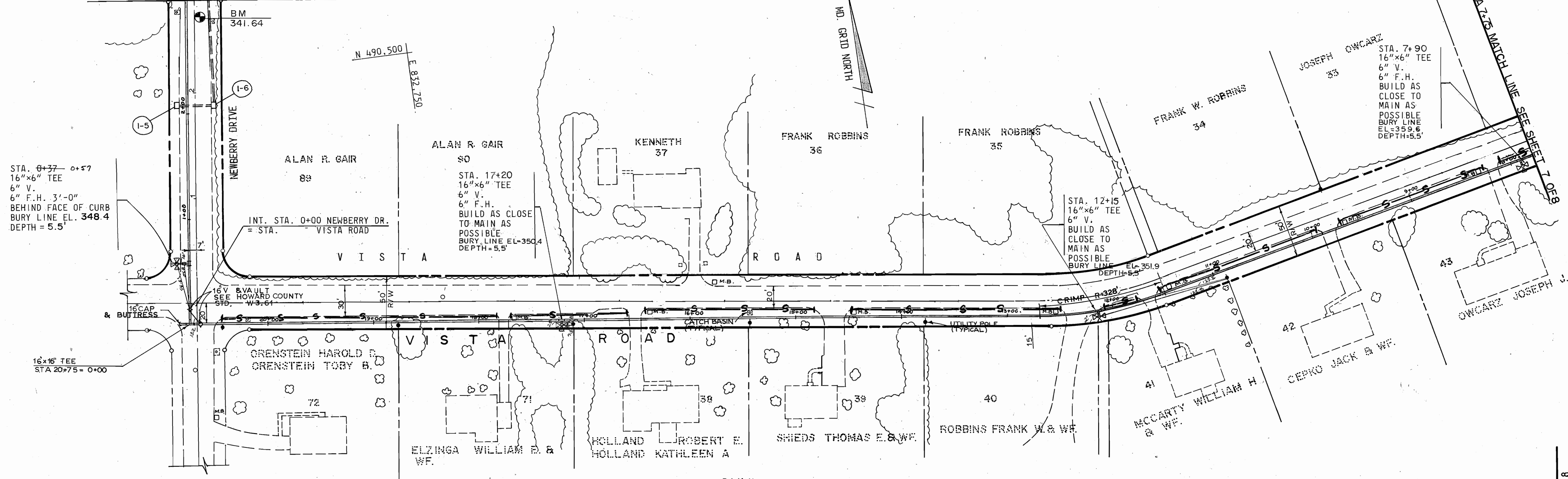
PLAN & PROFILE  
WATER & SEWER MAINS

VILLAGE OF HICKORY RIDGE  
SECTION 6 AREA 1 PARCEL 45  
CONTRACT NO. 34-1810-D

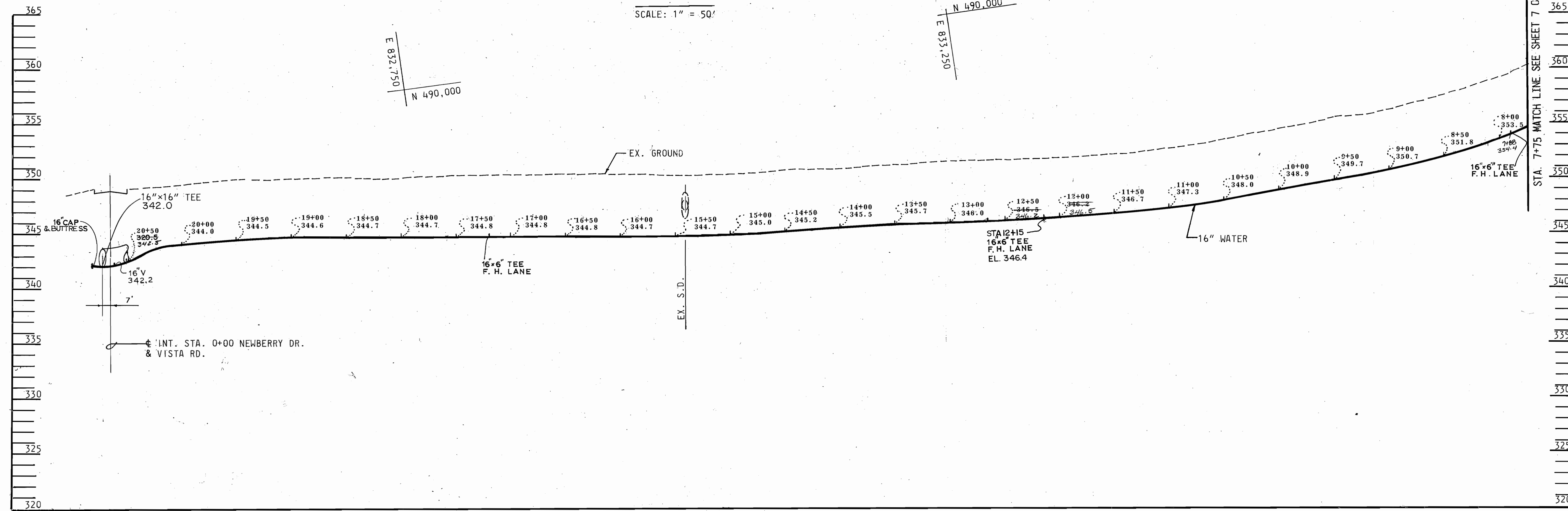
DRAWING NO. 7 OF 8  
SCALE AS SHOWN



MATCH LINE SEE SHEET 2 OF 8



PLAN  
SCALE: 1" = 50'



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

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James A. ...* 7/16/88  
DIRECTOR OF PUBLIC WORKS — DATE  
*Michael A. ...* 7/15/88  
CHIEF - BUREAU OF UTILITIES — DATE

*William S. ...* 7-15-88  
CHIEF - BUREAU OF ENGINEERING — DATE  
*James H. ...* 7/15/88  
CHIEF - LAND DEVELOPMENT DIVISION — DATE

CENTURY ENGINEERING, INC.  
CONSULTING ENGINEERS - PLANNERS  
TOWSON, MARYLAND 21204  
CEL 87034

DATE	NO.	DESCRIPTION
8-20-88	1	ADD S.D. CHANGE F.H. STA. & Q.U. REL. V.

PLAN & PROFILE  
WATER & SEWER MAINS

VILLAGE OF HICKORY RIDGE  
SECTION 6 AREA I PARCEL 45  
CONTRACT NO. 34-1810-D

DRAWING  
NO. 8  
OF 8

SCALE  
AS  
SHOWN

