

**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 TOP SOIL. SEPARATE TOP SOIL 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 F-86-183 & GP-86-61
- 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 PIPELAYING IN THAT AREA.

CONTRACT NO. 24-1500-D DORSEY HALL PARCEL "A" HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

GENERAL NOTES

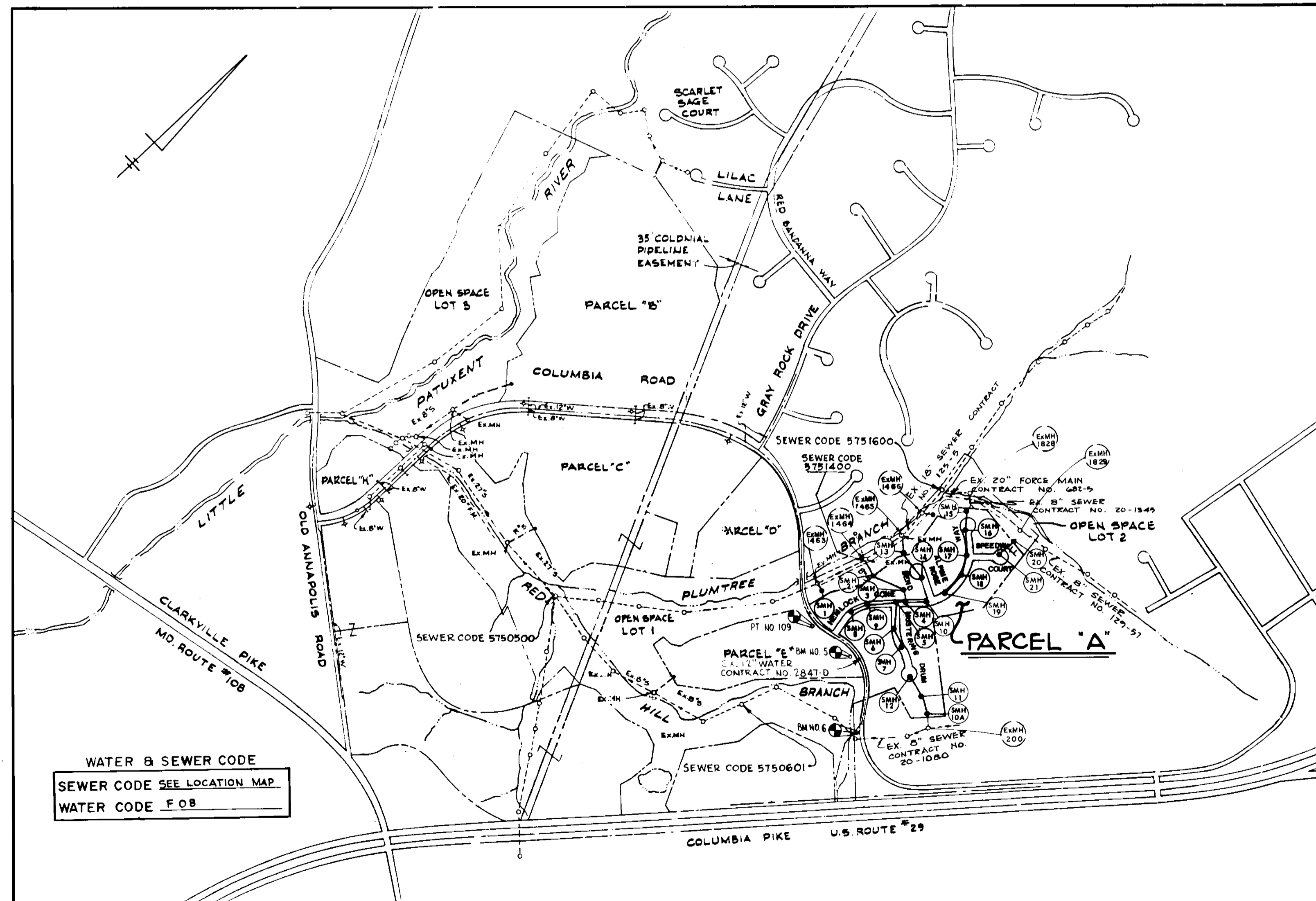
- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL 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 6". 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 - 792-2366
- 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.
- ALL WATER MAINS TO BE D.I.P. 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 OF 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.F. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G.5.52 WHERE WATERTIGHT MANHOLE FRAME AND COVERS USED. SET TOP OF FRAME 1'-0" 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 COPPER WATER HOUSE CONNECTIONS SHALL UTILIZE FLARED FITTINGS.

Bench Marks

CEI TBM TRAVERSE POINT NO. 109
REBAR W/X-CUT ELEV. 351.31

CEI TBM NO. 6 ELEV. 344.05
X-CUT ON S.E. FLANGE BOLT OF FIRE HYDRANT
SOUTH SIDE OF OLD COLUMBIA RD. STA. 264+40 -
20' LT.

CEI TBM NO. 5 ELEV. 362.99
X-CUT ON S.E. FLANGE BOLT OF FIRE HYDRANT
SOUTH SIDE OF OLD COLUMBIA RD. STA. 271+71 -
25' LT.



DRAINAGE AREA		LITTLE PATUXENT RIVER 128 Pumping Station
No. of S.H.C.'s		65
No. of W.H.C.'s		65
Type of Lots		Single Family
No. of Lots		65

QUANTITIES			
ITEM	BID	AS-BUILT	MATERIAL / SUPPLIER
8" Sewer L.F.	3,797	3,550	PIPE MANUFACTURING COMPANY
Manholes Ea.	23	23	ATLANTIC MANHOLE
8" Water L.F.	1,423	1,370	PIPE MANUFACTURING COMPANY
6" Water L.F.	1,729	1,729	PIPE MANUFACTURING COMPANY
8" Valves Ea.	2	2	VALVE MANUFACTURING COMPANY
6" Valves Ea.	8	8	VALVE MANUFACTURING COMPANY
12"x8" Tapping Sleeve & Valve	1	1	VALVE MANUFACTURING COMPANY
Fire Hydrant Ea.	5	5	HYDRANT MANUFACTURING COMPANY
1 1/2" Drains For Watermains Ea.	4	4	DRAIN MANUFACTURING COMPANY
W.H.C. L.F.	1,518	1,518	W.H.C. MANUFACTURING COMPANY
S.H.C. L.F.	1,578	1,578	S.H.C. MANUFACTURING COMPANY
20" STEEL CASING L.F.	46	40	STEEL CASING MANUFACTURING COMPANY

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE STANDARD SPECIFICATIONS, AND ROAD CONSTRUCTION PLAN F-86-183

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Margaret Ann... 7/17/86
SIGNATURE DATE

S.O. SOIL CONSERVATION SERVICE

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

APPROVED:

Wes... 7/17/86
SIGNATURE DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Wes... 9-1-86
DIRECTOR OF PUBLIC WORKS DATE

Wes... 7-25-86
CHIEF - BUREAU OF UTILITIES DATE

Wes... 7-21-86
CHIEF - LAND DEVELOPMENT DIVISION DATE

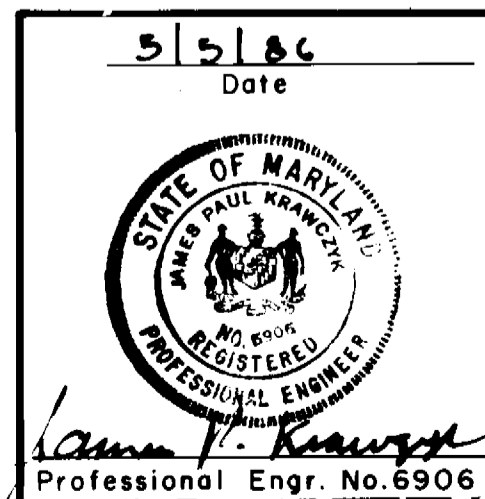
CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

DATE	NO.	DESCRIPTION
10-1-7	1	STATE HEALTH DEPT COMMENTS
8-27-86	1	STATE HEALTH DEPT COMMENTS

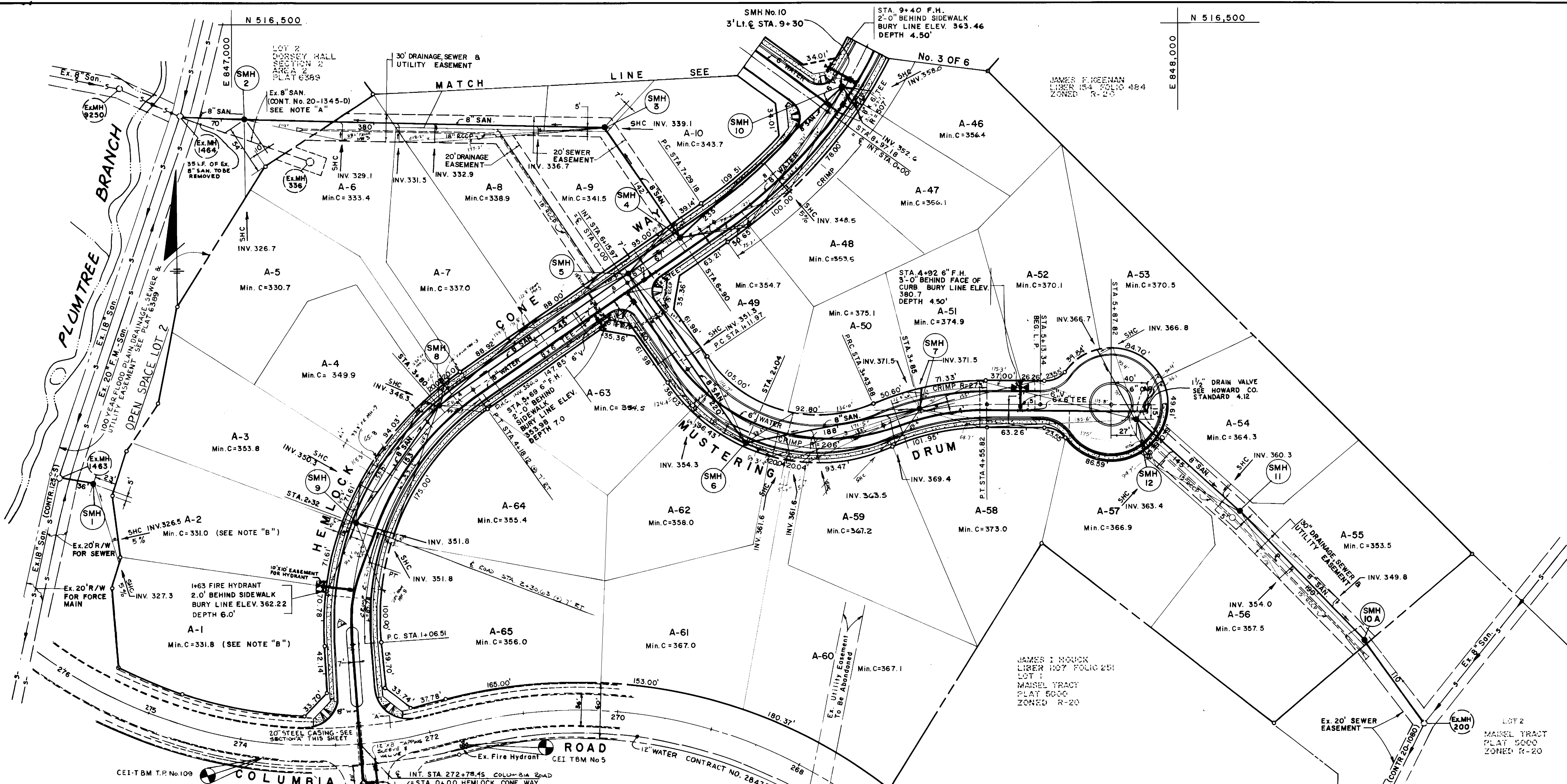
TITLE SHEET

DORSEY HALL PARCEL "A"
SECTION 2 AREA 2
ELECTION DISTRICT ?
CONTRACT No. 24-1500-D

DRAWING NO. 1 OF 6
SCALE 1"=600'



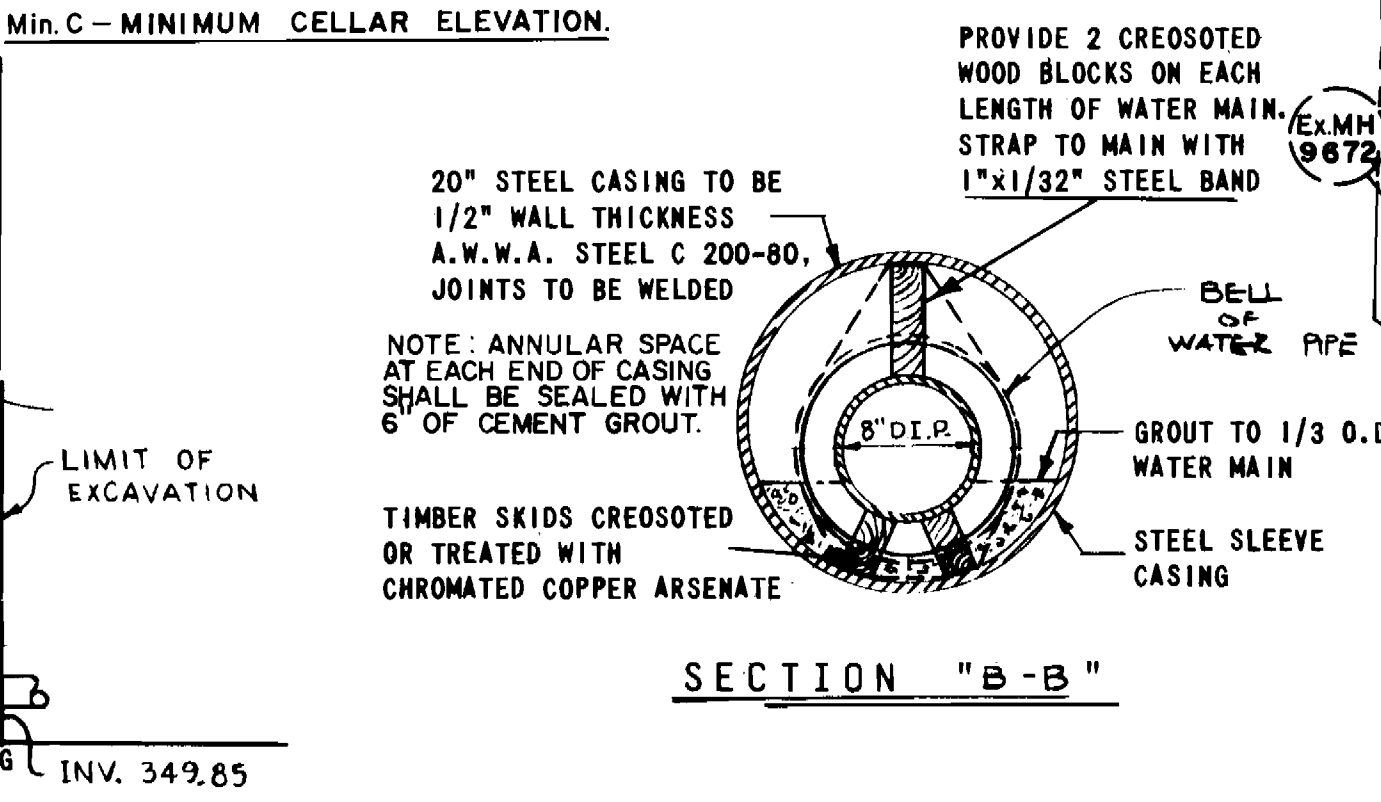
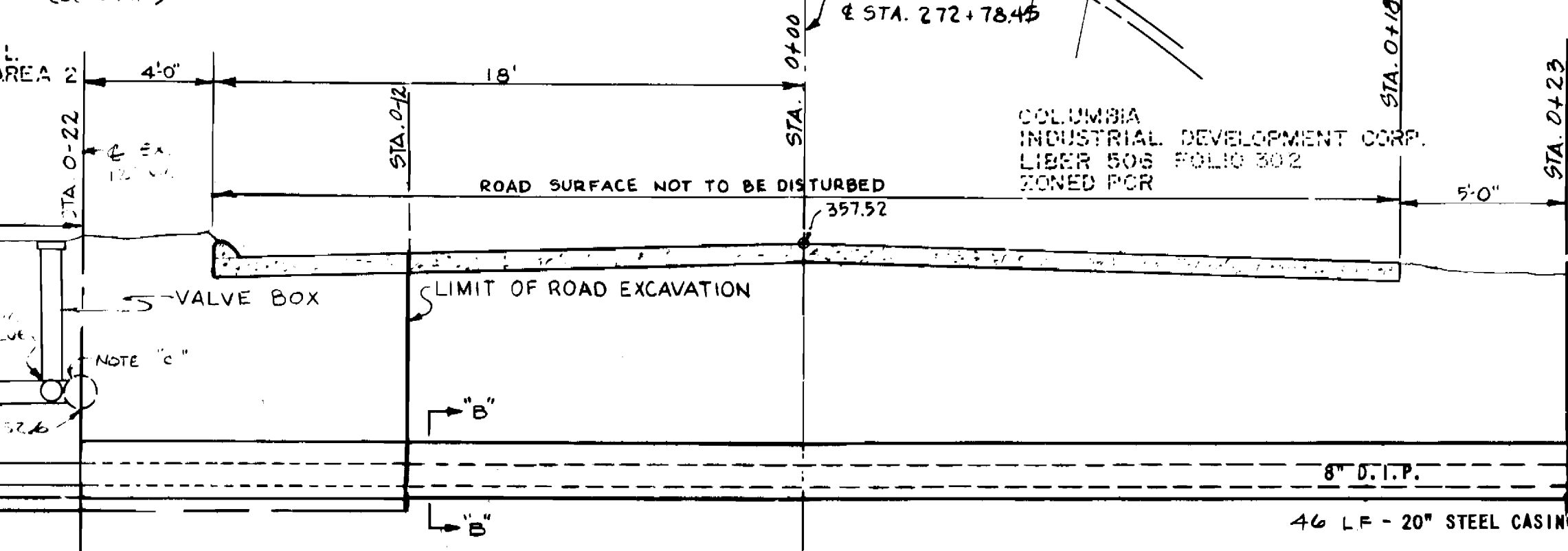
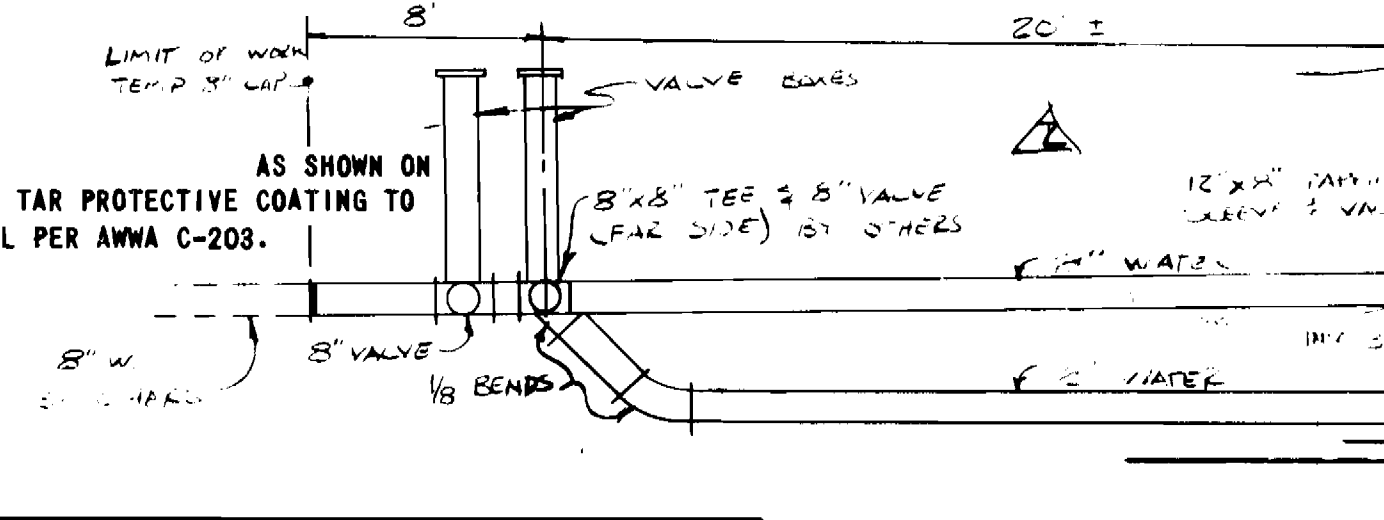
AS-BUILT



NOTE "A"
 Ex. 8" SAN. & MH. 336 TO BE ABANDONED.
 MH. FRAME & COVER TO BE SALVAGED.
 MH. TO BE DEMOLISHED TO TWO FEET BELOW
 EX. GROUND & BACK FILLED WITH SAND.

NOTE "B"
 FOR LOTS A-1 & A-2 SLOPE OF SHC
 TO R. IS UP @ 5%.
 DIP SHALL BE USED.

NOTE "C"
 AS SHOWN ON
 PLAN, APPLY COAL TAR PROTECTIVE COATING TO
 ALL EXPOSED STEEL PER ANMA C-208.



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

[Signatures]
 DIRECTOR OF PUBLIC WORKS
 CHIEF - BUREAU OF UTILITIES

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

10-21-86
 8-27-86
 Date No. Revision Description

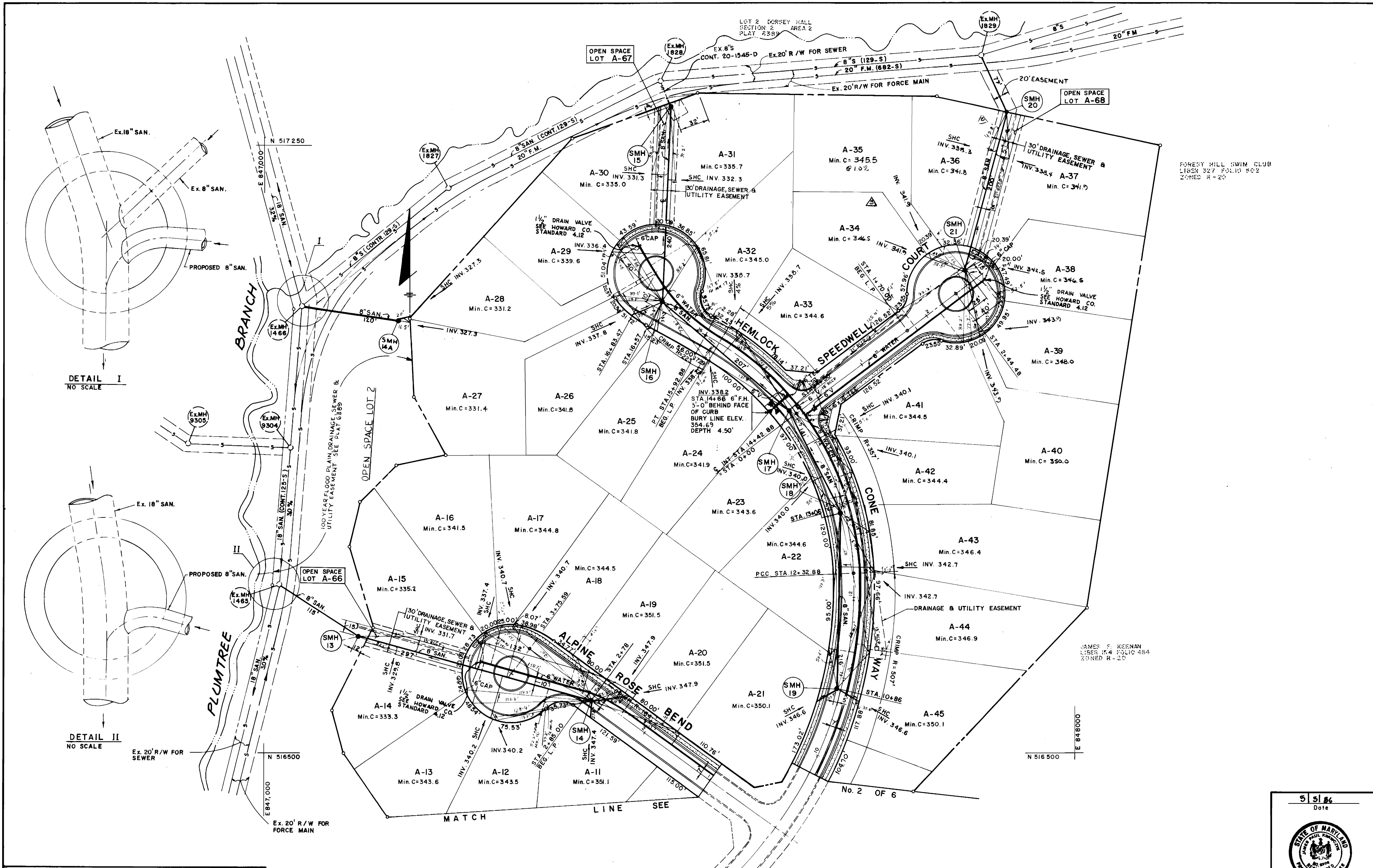
PLAN
 SEWER AND WATER MAINS

DORSEY HALL PARCEL 'A'
 SECTION 2- AREA 2
 ELECTION DISTRICT NO. 2
 CONTRACT No. 24-1500-D

DRAWING NO. 2 OF 6
 SCALE 1"=50'

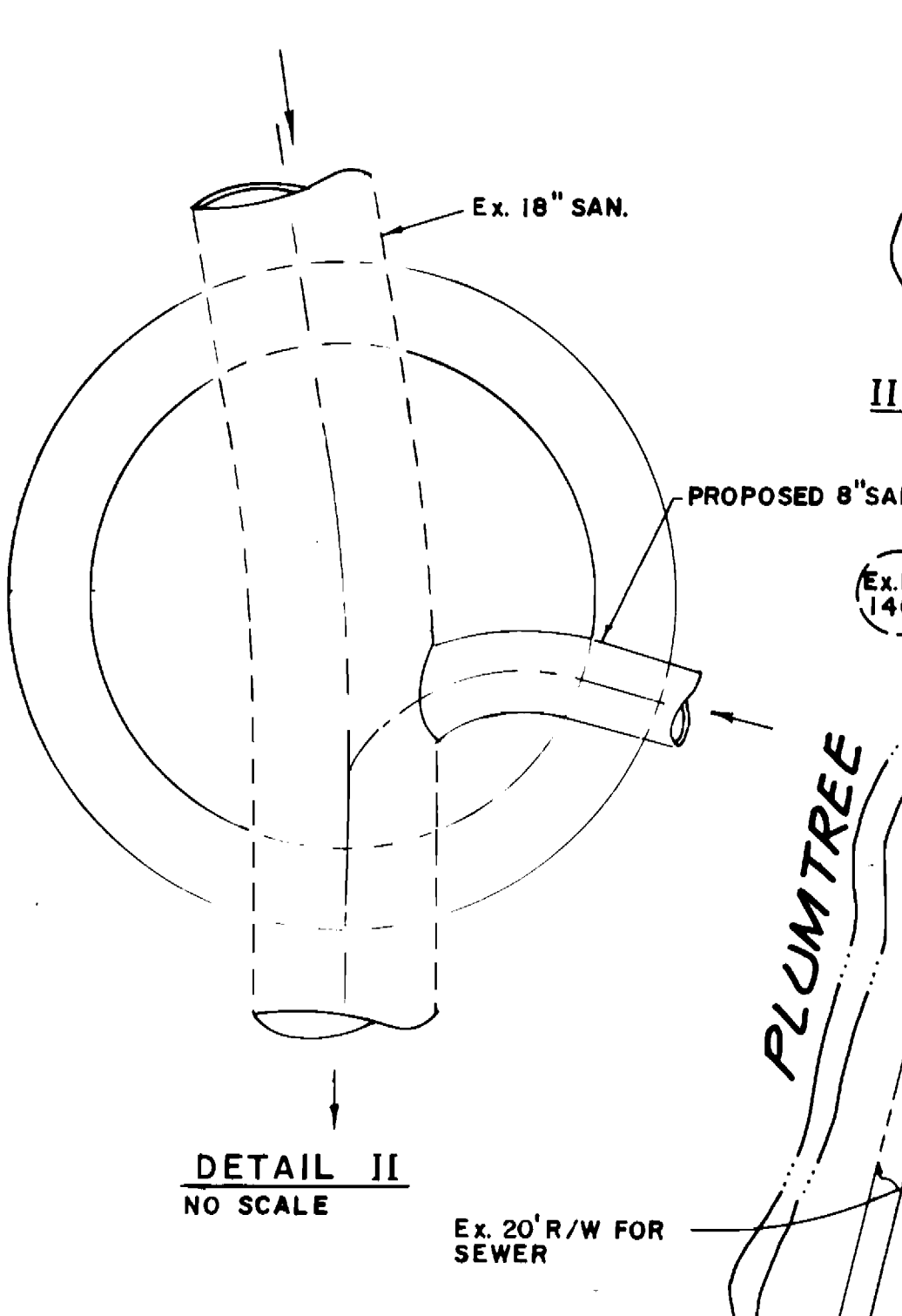
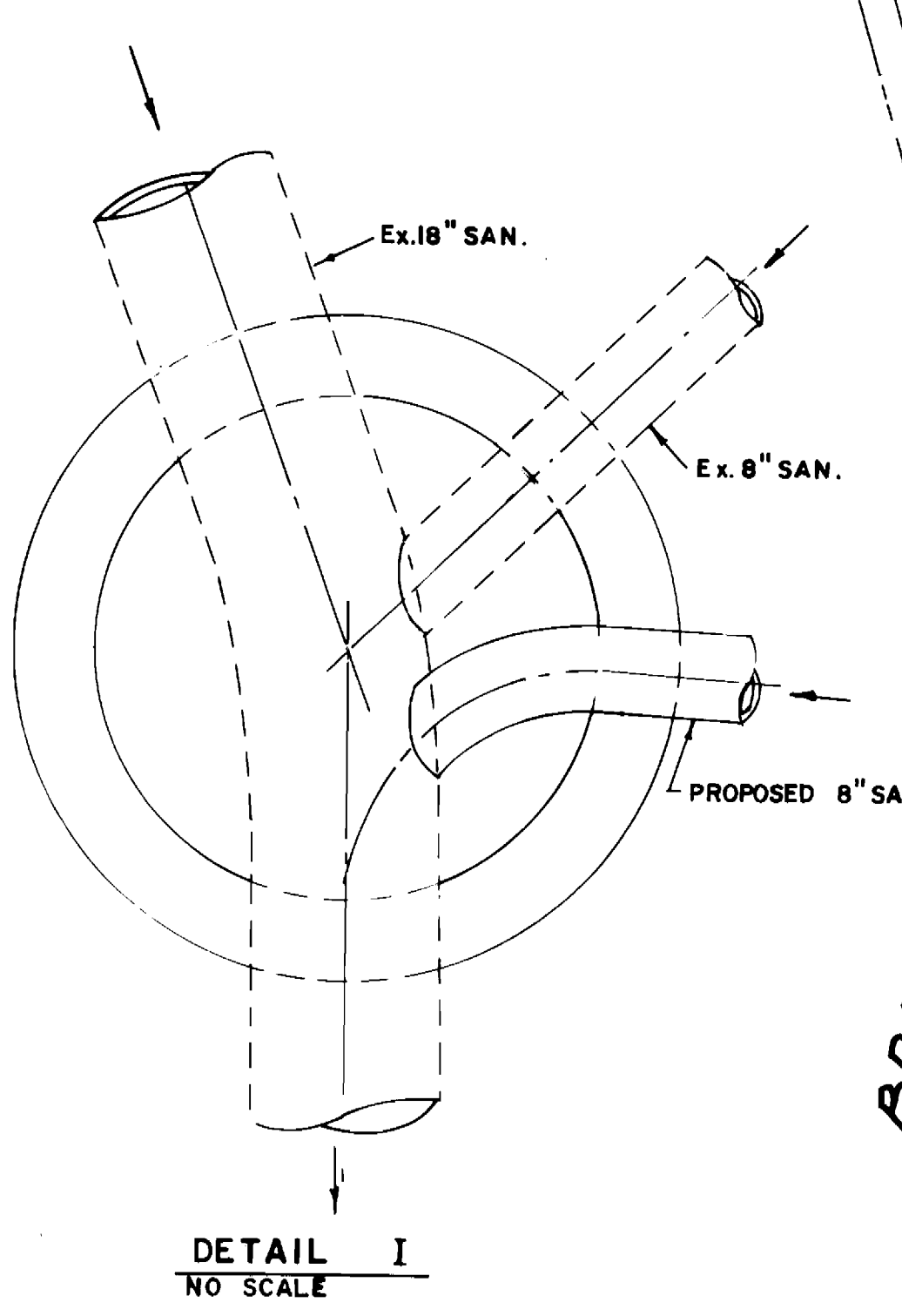
[Professional Engineer Seal]
 Professional Engr. No. 6906

AS-BUILT



FOREST HILL SWIM CLUB
LIBER 327 FOLIO 402
ZONED R-20

JAMES F. KEERNAN
LIBER 154 FOLIO 484
ZONED R-20



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James F. Keernan
DIRECTOR OF PUBLIC WORKS DATE 8-1-84

William J. Reynolds
CHIEF - BUREAU OF ENGINEERING DATE 7-25-84

Robert B. ...
CHIEF - BUREAU OF UTILITIES DATE 7-25-84

William J. Reynolds
CHIEF - LAND DEVELOPMENT DIVISION DATE 7-25-84

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

Date	No.	Revision Description
7/22/84	3	A-35 CH INV A-34 INV LOWERED
10/1/84	2	ADJUST SMH 20/21
8-27-84	1	CHANGE LOT FRONTS

PLAN
SEWER AND WATER MAINS

DORSEY HALL PARCEL 'A'
SECTION 2-AREA 2
CONTRACT No. 24-1500-D

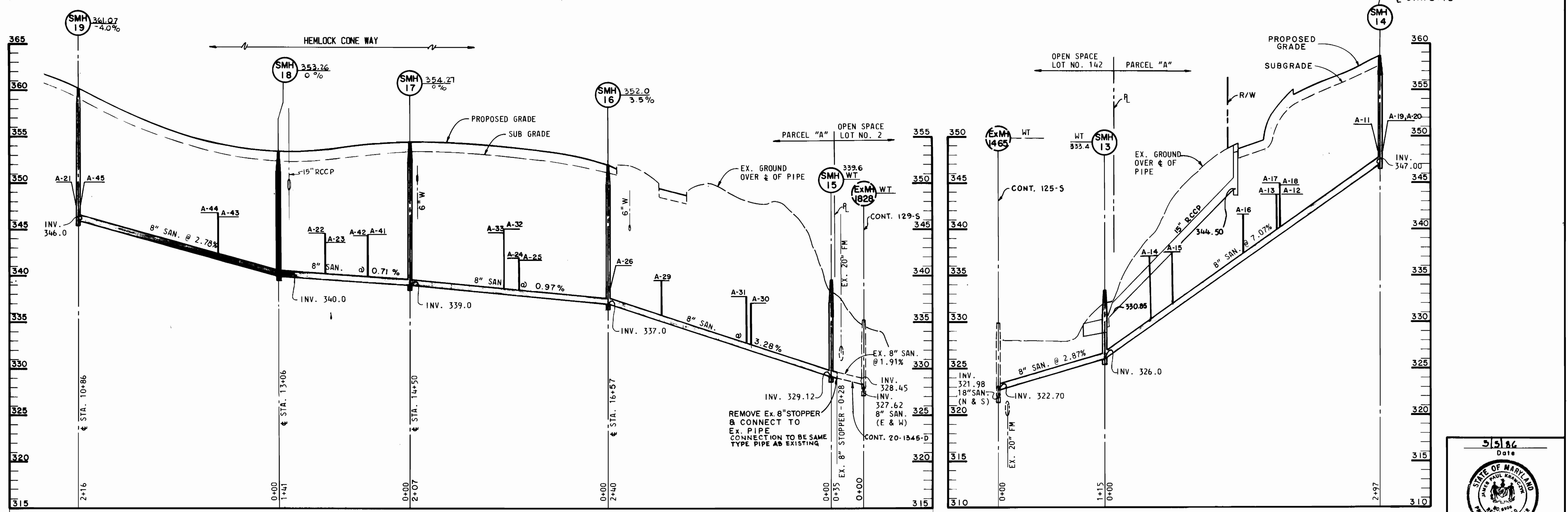
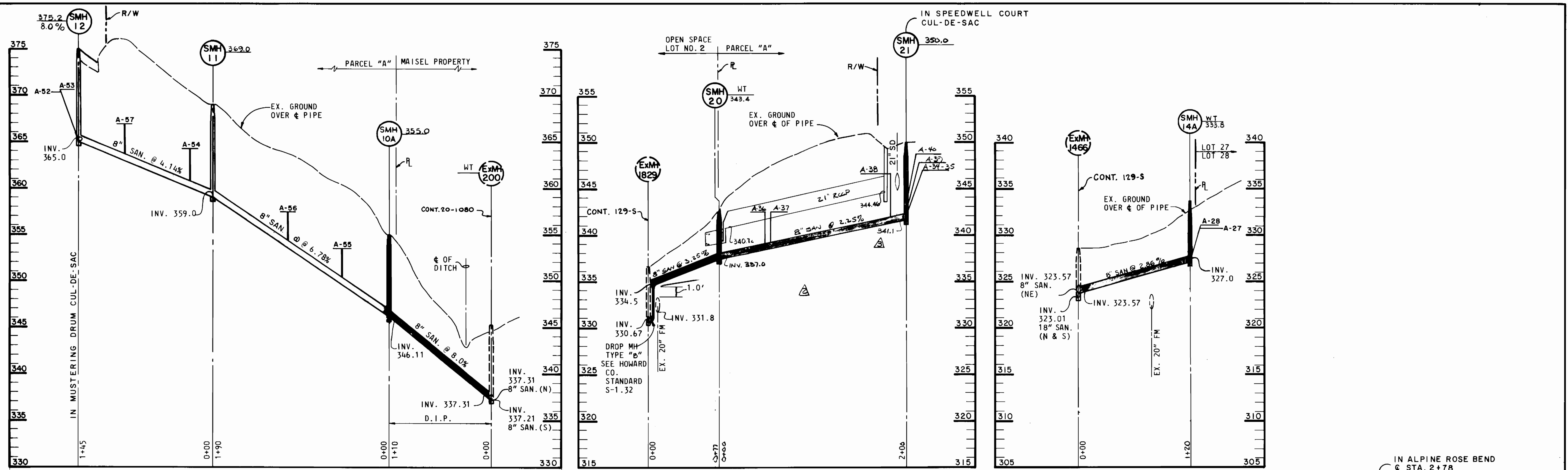
ELECTION DISTRICT No. 2

DRAWING NO. 3 OF 6
SCALE 1"=50'

5/31/84
Date

Professional Engr. No. 6906

AS-BUILT



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Director of Public Works: *[Signature]* 8-146
Chief - Bureau of Engineering: *[Signature]*
Chief - Bureau of Utilities: *[Signature]* 7-25-80
Chief - Land Development Division: *[Signature]*

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

7/22/87 3 INVERT WAS 341.5
10/6/86 2 RAISED SEWER 1829 - 21
8-27-86 1 CHANGE DROP MH TO TYPE B, MH 1829
DATE NO. REVISION DESCRIPTION

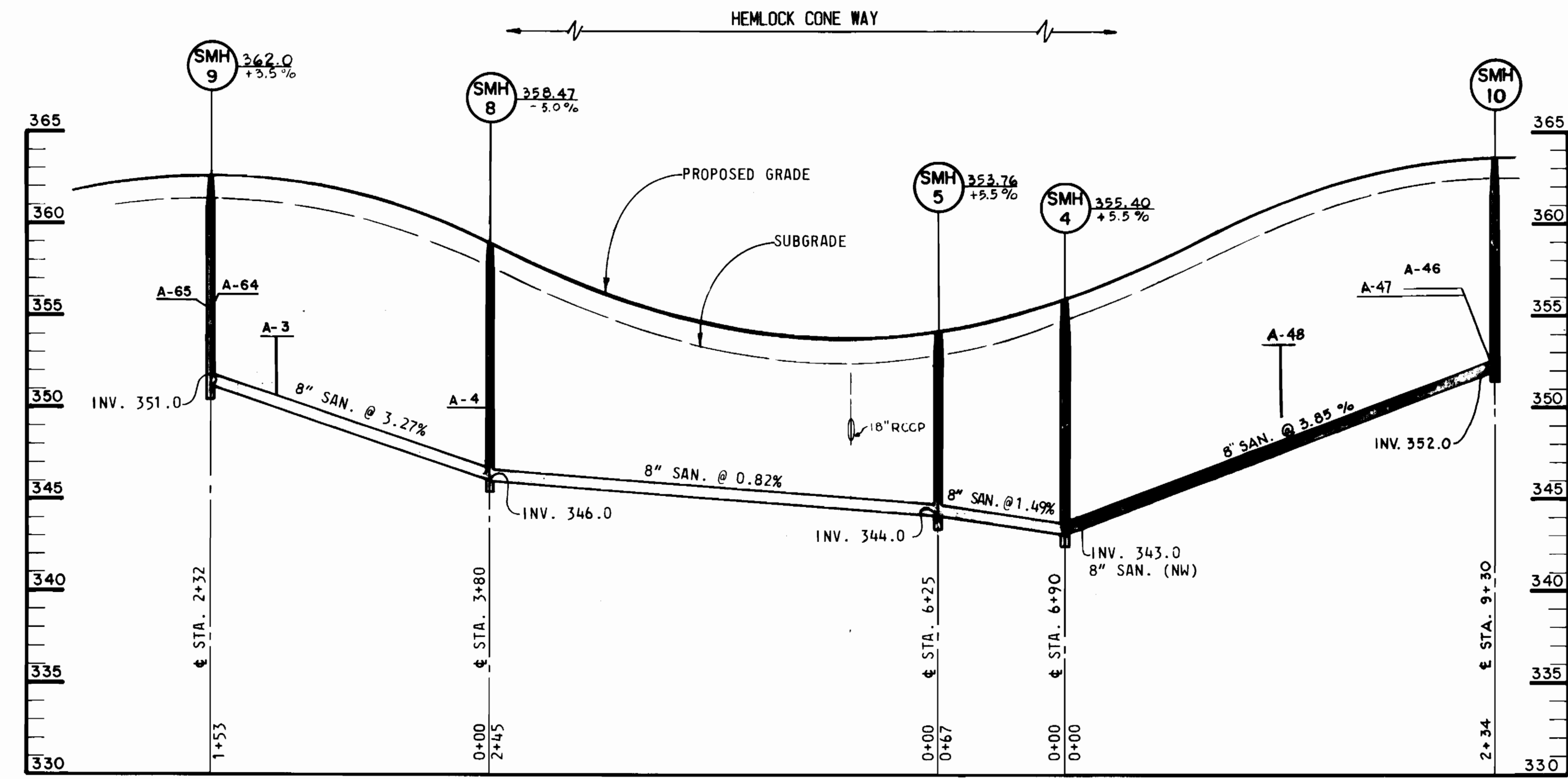
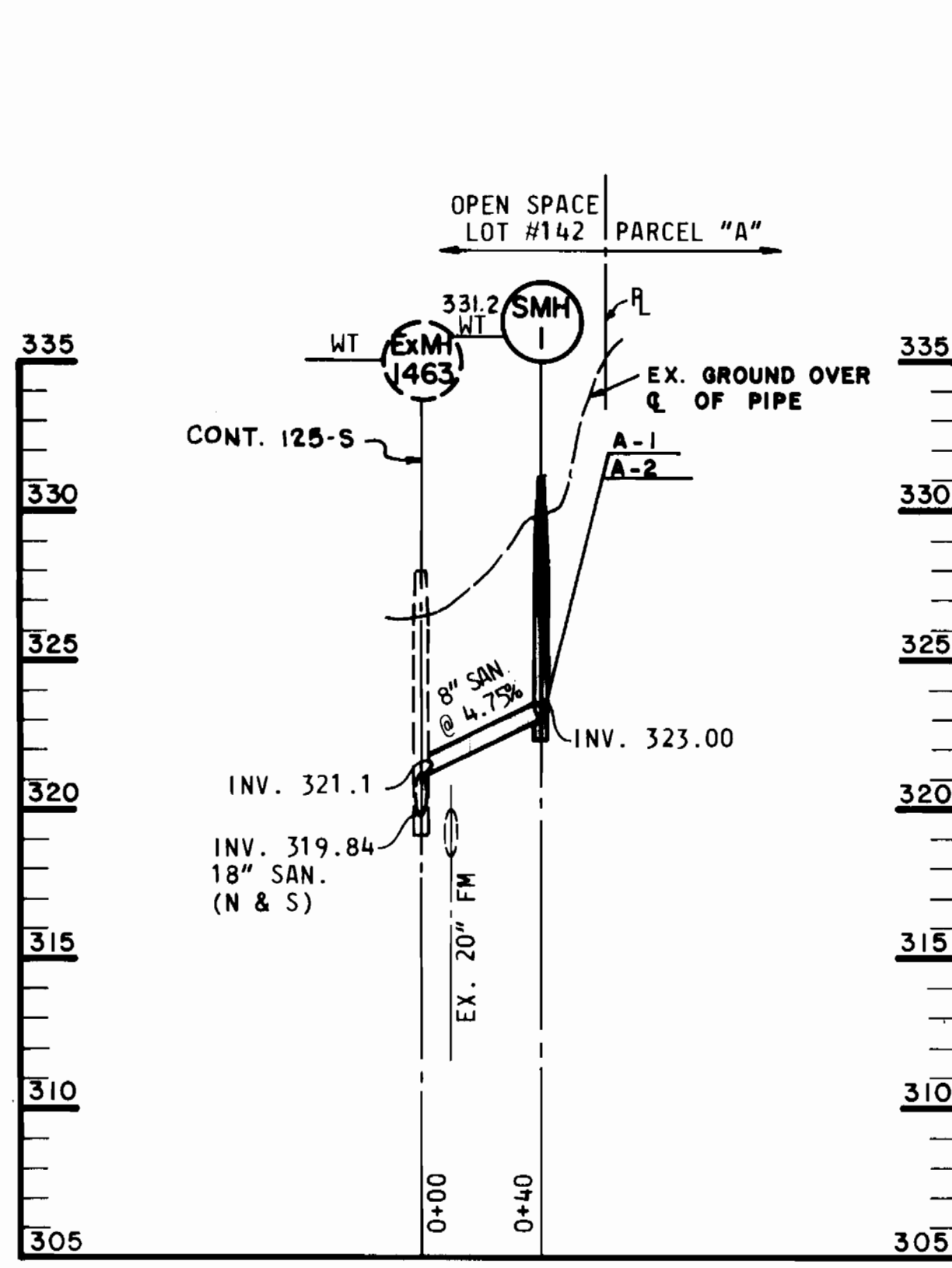
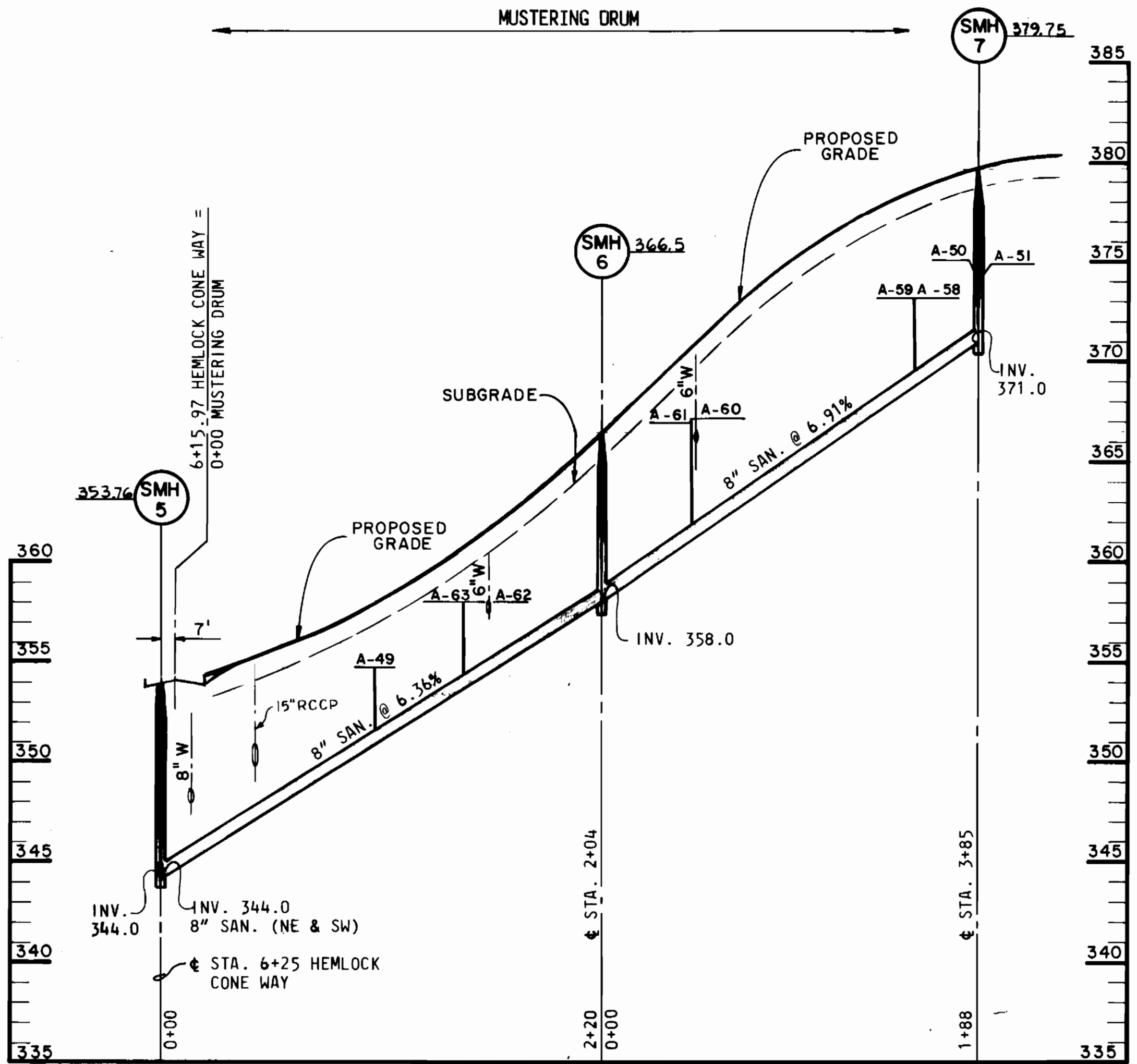
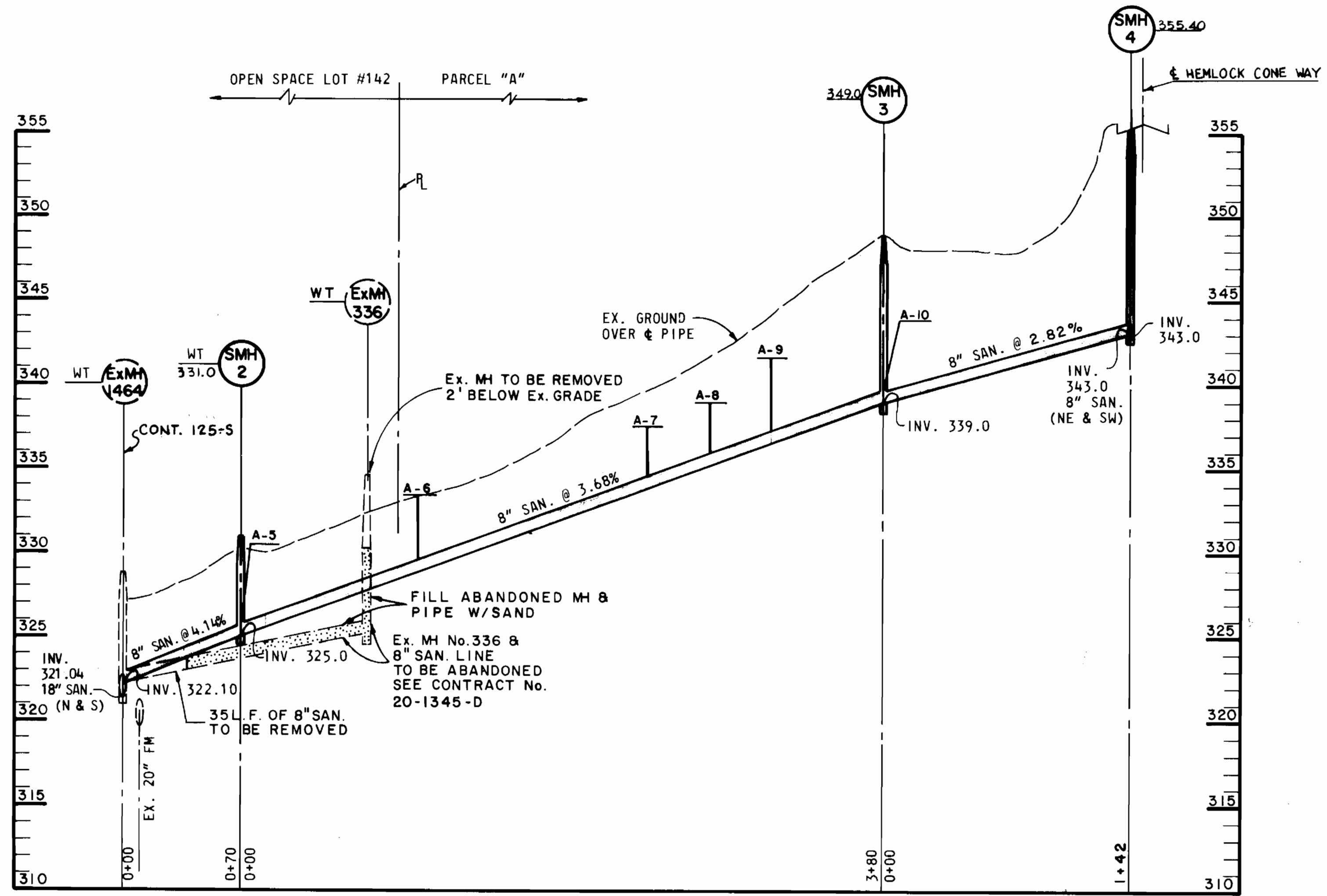
PROFILES
SEWER MAINS

DORSEY HALL PARCEL 'A'
SECTION 2-AREA 2
ELECTION DISTRICT NO. 2
CONTRACT NO. 24-1500-D

5/5/86
Date

STATE OF MARYLAND
JAMES P. KENNEDY
Professional Engr. No. 6906

DRAWING NO. 4
OF 6
SCALE 1"=50' Horiz.
1"=5' Vert.



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Mary E. Neuman 8-1-76
 DIRECTOR OF PUBLIC WORKS - DATE

Rita B. Smith 7-25-86
 CHIEF - BUREAU OF UTILITIES - DATE

Richard S. Smith
 CHIEF - BUREAU OF ENGINEERING - DATE

Richard S. Smith
 CHIEF - LAND DEVELOPMENT DIVISION - DATE

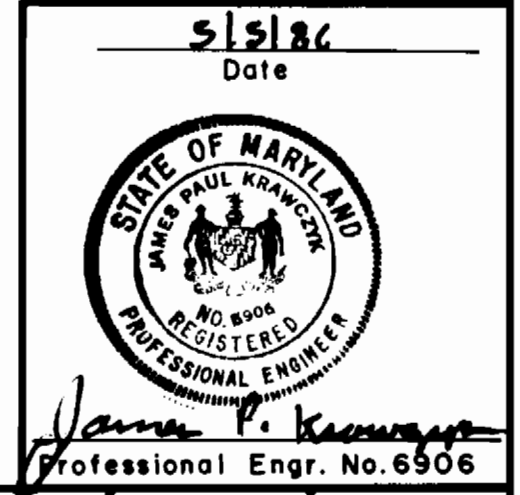
CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21204

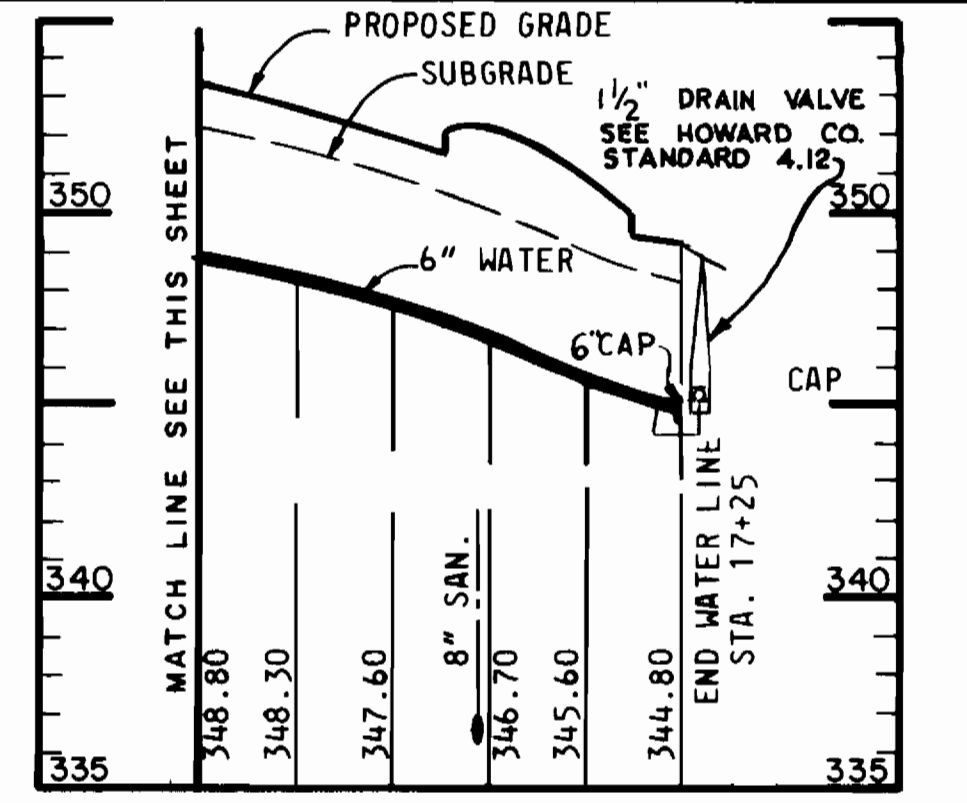
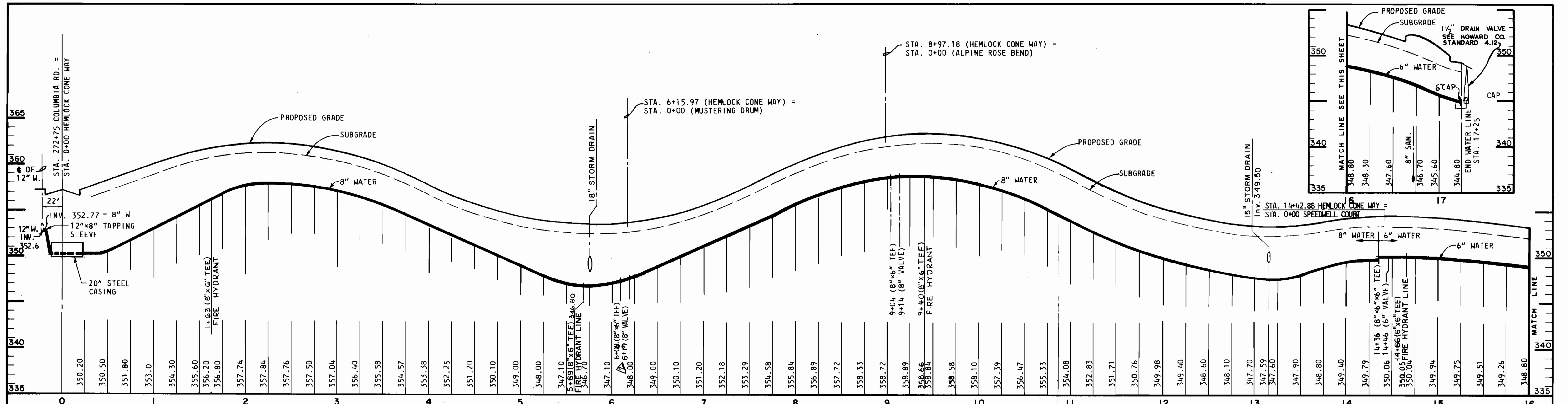
DATE	No.	DESCRIPTION
8-27-86	1	LOWER 8" W SERVICE TO LOTS A114

PROFILES
 SEWER MAINS

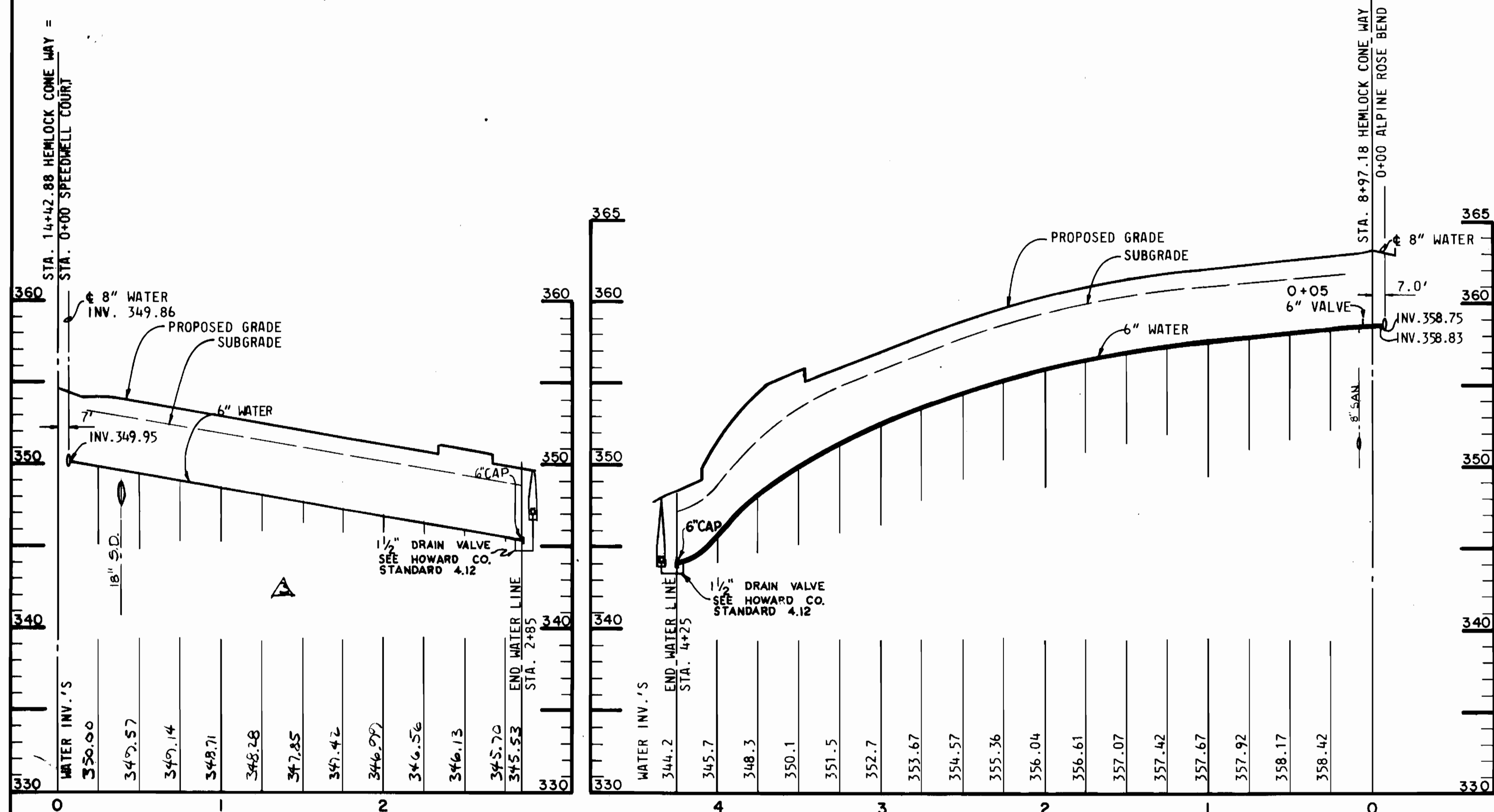
DORSEY HALL PARCEL 'A'
 SECTION 2-AREA 2
 ELECTION DISTRICT NO. 2
 CONTRACT No. 24-1500-D

DRAWING NO. 5 OF 6
 SCALE 1" = 50' Horiz. 1" = 5' Vert.

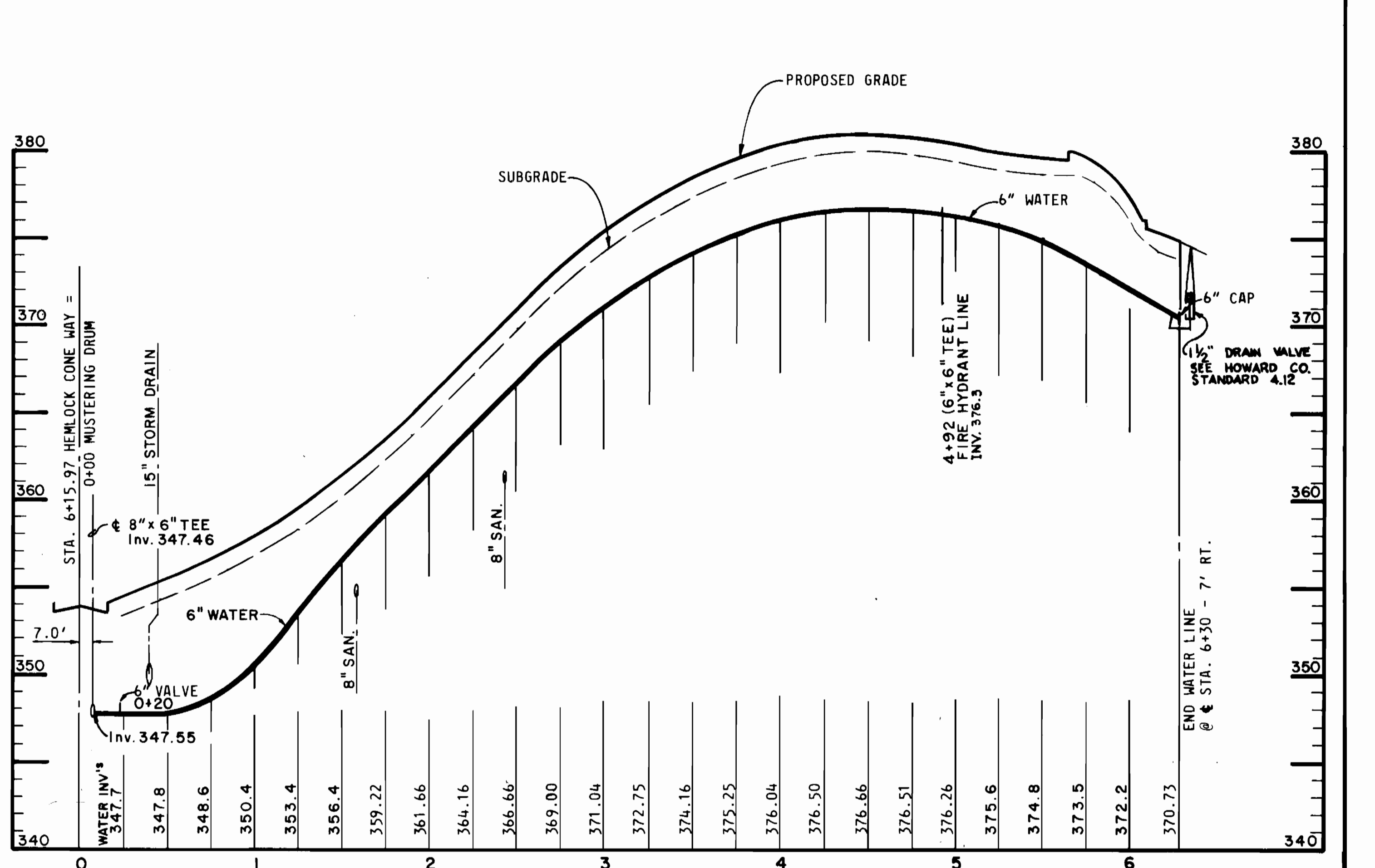




HEMLOCK CONE WAY



SPEEDWELL COURT



MUSTERING DRUM

ALPINE ROSE BEND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works
 Chief - Bureau of Engineering
 Chief - Bureau of Utilities
 Chief - Land Development Division

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

DATE	NO	DESCRIPTION
10/2/86	3	CONTRACT SPECIFICATIONS
9-5-86	2	CHG. STA.
8-27-86	1	MOVE 18" S.D. ON SPEEDWELL CT

PROFILES
 WATER MAINS

DORSEY HALL PARCEL 'A'
 SECTION 2-AREA 2
 ELECTION DISTRICT No. 2
 CONTRACT No. 24-1300-D

DRAWING NO. 6 OF 6
 SCALE 1" = 50' Horiz. 1" = 5' Vert.
 AS-BUILT

