

TYPE OF BLDG - SINGLE FAMILY DETACHED
 NUMBER OF LOTS BUILDABLE... 33
 NUMBER OF WLCS... 33
 NUMBER OF SHCS... 33
 DRAINAGE AREA... LITTLE PATUKENT

WATER AND SEWER CODE
 COUNTY CODE
 WATER CODE... C03
 SEWER CODE... 7320000

Contract No. 24-1855-D

SCALE: 1"=600'
 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.C. DATA.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT (I) 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 THE 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 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 DEPARTURES AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - C&P - 1-800-257-7777
 - STATE HIGHWAY ADMINISTRATION - 531-5533
 - BALTIMORE GAS & ELECTRIC CO. CONTRACTOR SERVICES - 850-4620
 - BALTIMORE GAS & ELECTRIC CO. UNDER GROUND DAMAGE CONTROL - 859-9004
 - BALTIMORE GAS & ELECTRIC CO. TROUBLE SHOOTING - 798-9001
 - MISSISSIPPI - 1-569-01100
 - COLONIAL PIPELINE CO. - 795-1390
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 992-2366
- TREES ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES 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 AS DIRECTED BY THE ENGINEER. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EXCAVATION AND BACKFILL.
- PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS.
- ALL WATER MAINS TO BE D.I.P. UNLESS OTHERWISE NOTED.
- TOP OF ALL WATER MAINS TO HAVE A MINIMUM OF 3' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- BLOCK ALL FITTINGS WITH CONCRETE.
- BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET TO THE 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 TO BE COMPACTED IN ACCORDANCE WITH SECTIONS 1003 AND 1004 OF THE GENERAL REQUIREMENTS FOR WATER AND SEWER.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM.
- ALL DIP FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPEC C-150 DUCTILE IRON COMPACT FITTINGS, 3'-12" FOR WATER & OTHER LIQUIDS.
- THE SERVICE CLAMPS ARE TO HAVE STAINLESS STEEL STRAPS.
- ALL SEWER MAINS SHALL BE C.S.P.X., V.C.P. OR A.C.P. CLASS 2400 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 05.52 VOLUME I. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THE CELLAR CANNOT BE SERVED.
- ALL WATER HOUSE CONNECTIONS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 12" ABOVE ALL SANITARY SLEWER CROSSINGS.
- ALL SANITARY SEWER HOUSE CONNECTIONS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 12" BELOW ALL WATER MAIN CROSSINGS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.

- SEQUENCE OF CONSTRUCTION: UTILITY CROSSING
- OBTAIN ALL REQUIRED PERMITS, APPROVALS, LICENSES FROM THE APPROPRIATE AGENCIES.
 - NOTIFY THE ENFORCEMENT DIVISION AT LEAST 5 DAYS PRIOR TO INITIATION OF CONSTRUCTION AND 5 DAYS AFTER WORK ENDS, THE ANNAPOLIS OFFICE IS (301) 974-2601
 - INSTALL PERIMETER CONTROLS AS PER WPD 31 THE PERIMETER CONTROLS SHALL CONSIST OF STRAW BALE DIKES AND OR SILT FENCING.
 - INSTALL THE UTILITY APPROACHES TO THE STREAM.
 - OVERTE THE STREAM (REFERENCE WPD 21 OF 23)
 - DEWATER THE CONSTRUCTION AREA. ALL DEWATERING DISCHARGES SHALL BE DIVERTED TO A DEWATERING BASIN AS PER WPD 11 BEFORE RE-ENTERING THE STREAM.
 - STABILIZE THE DISTURBED BANKS USING FILTER FABRIC AND RIP RAP OR GABIONS. RIP RAP MUST BE SIZED AND INSTALLED AS PER WPD 31. GABIONS MUST BE INSTALLED AS PER WPD 23
 - REMOVE THE DIVERSIONS FROM UPSTREAM TO DOWNSTREAM.
 - STABILIZE ALL DISTURBED AREAS.
 - REMOVE PERIMETER CONTROLS.

ITEM	ESTIMATE	AS BUILT	SUPPLIER
2" WATER	150 LF	115 LF	A & P WATER
6" VALVES	2 EA	17.2 LF	A & P WATER
12" VALVES	3 EA	7.5	A & P WATER
FIRE HYDRANTS	1 EA	1	A & P WATER
1" W.H.C.	249 LF	25 LF	A & P WATER
2" W.H.C.	324 LF	55.3 LF	BEAR AND SUPPLY
4" W.H.C.	19.7 LF	2.7	BEAR AND SUPPLY
MANHOLES	20 EA	20	BEAR AND SUPPLY
6" S.H.C.	44 LF	74.4 LF	BEAR AND SUPPLY
8" D.I.P.	302 LF	20.5 LF	A & P WATER

HOWARD SOIL CONSERVATION DISTRICT:
 REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT
 AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION SERVICE DATE

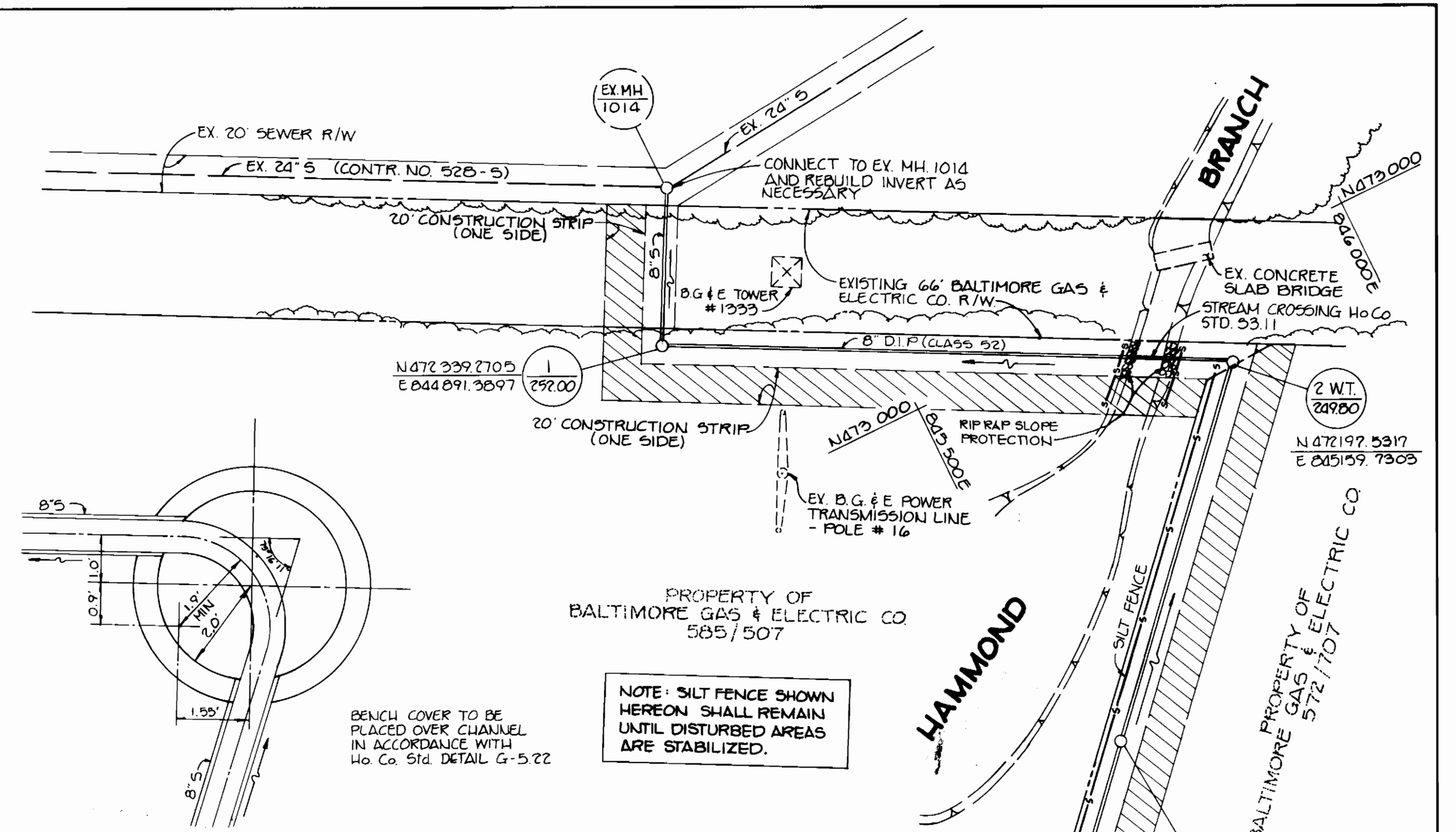
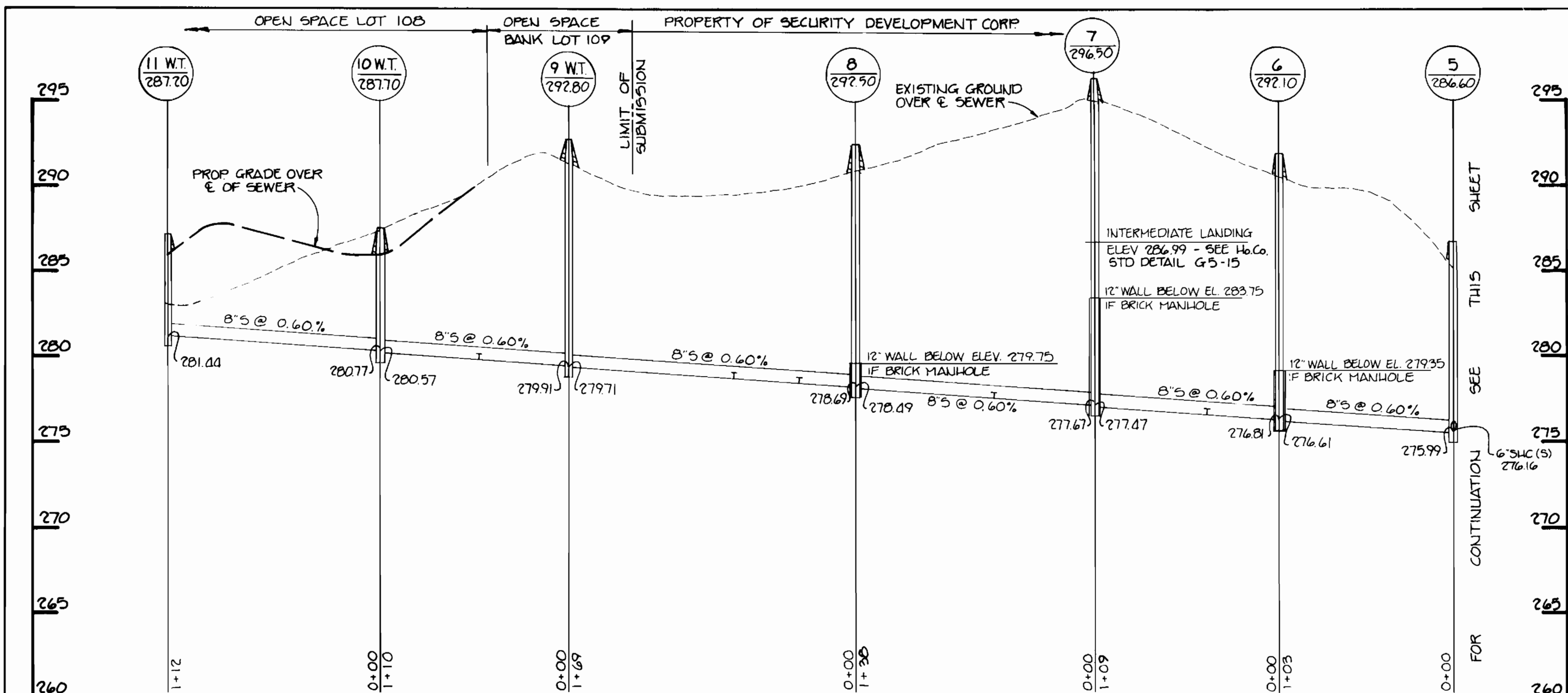
THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Stalin L. G. G. G. 12/22/88
 HOWARD SOIL CONSERVATION DISTRICT DATE

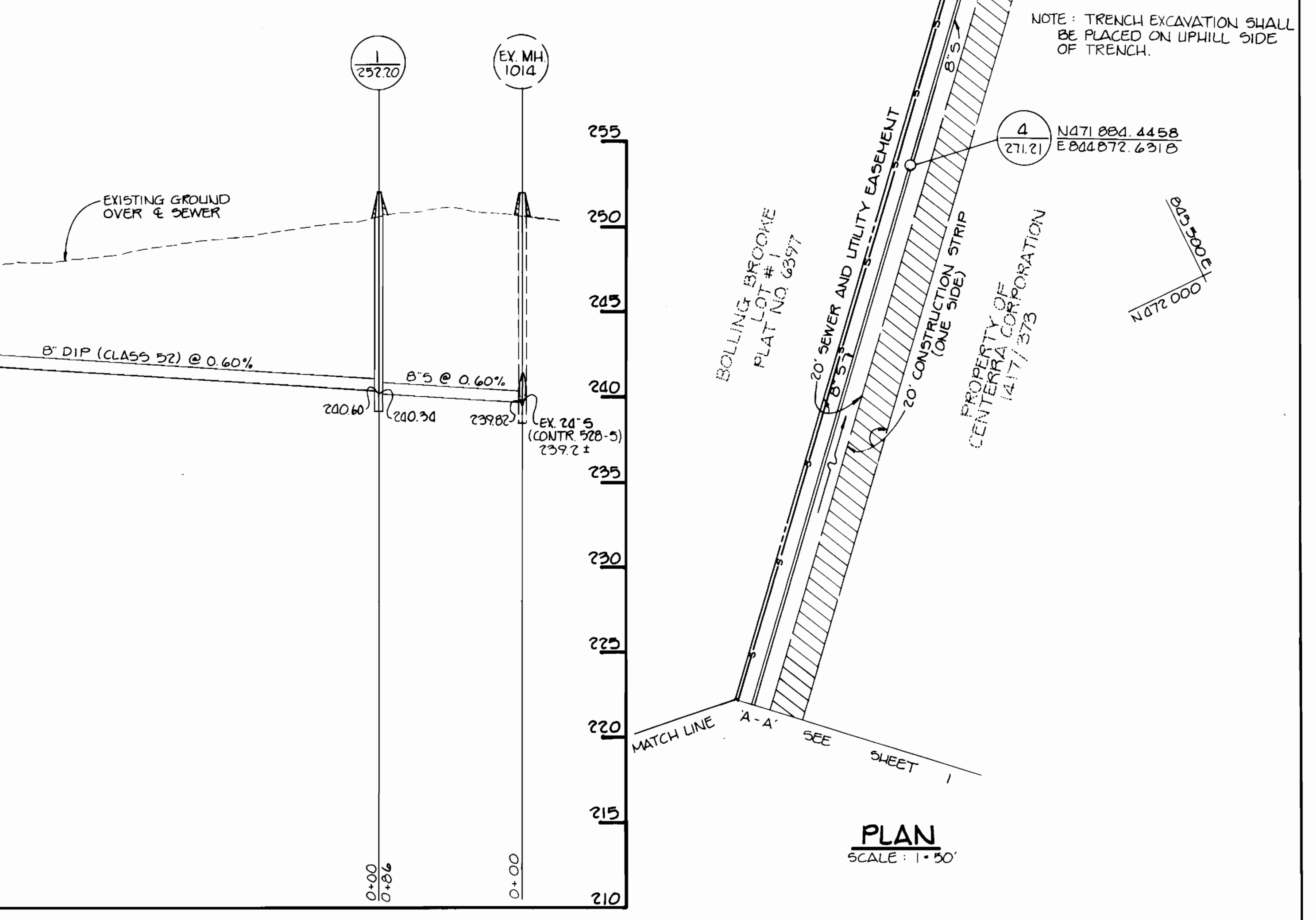
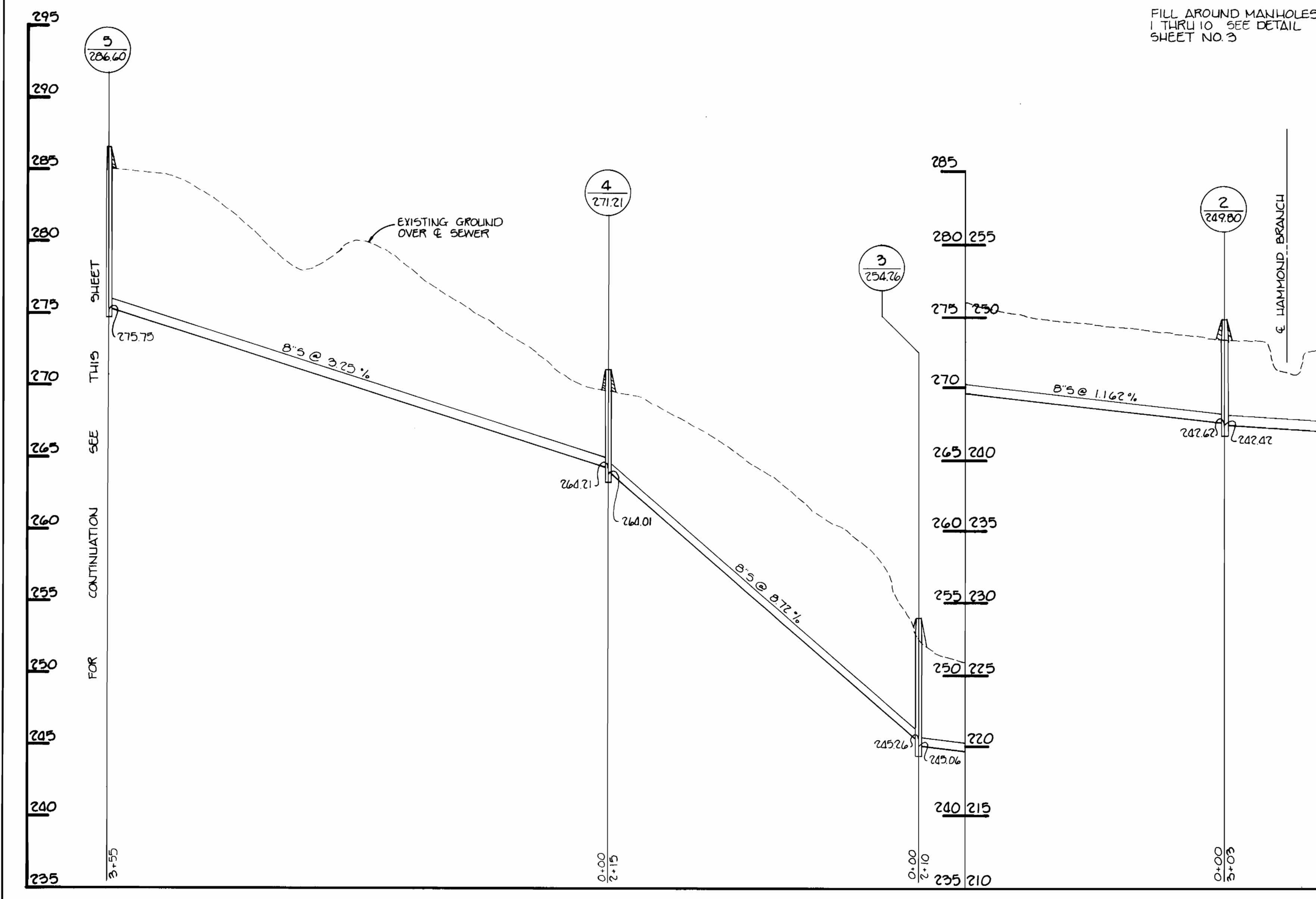
SEDIMENT CONTROL MEASURED FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER ROAD CONSTRUCTION PLANS #1-09-17

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR OF PUBLIC WORKS <i>Robert B. B. B.</i> 12-14-88 CHIEF, BUREAU OF UTILITIES DATE	TRACY, SCHULTE & ASSOCIATES INC. planning architecture engineering 8480 Baltimore National Pike Suite 418 Ellicott City, Maryland 21043 <i>Tracy</i>	DES: DAM/JH DRN: JH CHK: E.S. DATE: 11-18-88	ADD SHC BETWEEN LOTS 141 & 142 TO KING PROP. REVISED LOT NUMBERS 5/25/80	PLAN OF WATER AND SEWER MAINS KING'S WOODS SECTION 2 AREA 1 ELECTION DISTRICT NO. 6 CONTRACT NO. 24-1855-D	SCALE AS SHOWN SHEET 1 OF 3
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AS-BUILT August 29, 1988



PLAN OF CHANNEL CONFIGURATION @ MH-2
SCALE: 1" = 2'



PLAN
SCALE: 1" = 50'

PROFILES SCALE - HORIZ: 1" = 50' VERT: 1" = 5'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DIRECTOR OF PUBLIC WORKS: *James W. McLaughlin* DATE: 12-28-88
CHIEF, BUREAU OF ENGINEERING: *Robert R. Benjamin* DATE: 12-14-88

TRACY, SCHULTE & ASSOCIATES INC.
planning architecture engineering
8480 Baltimore National Pike Suite 418
Ellicott City, Maryland 21043

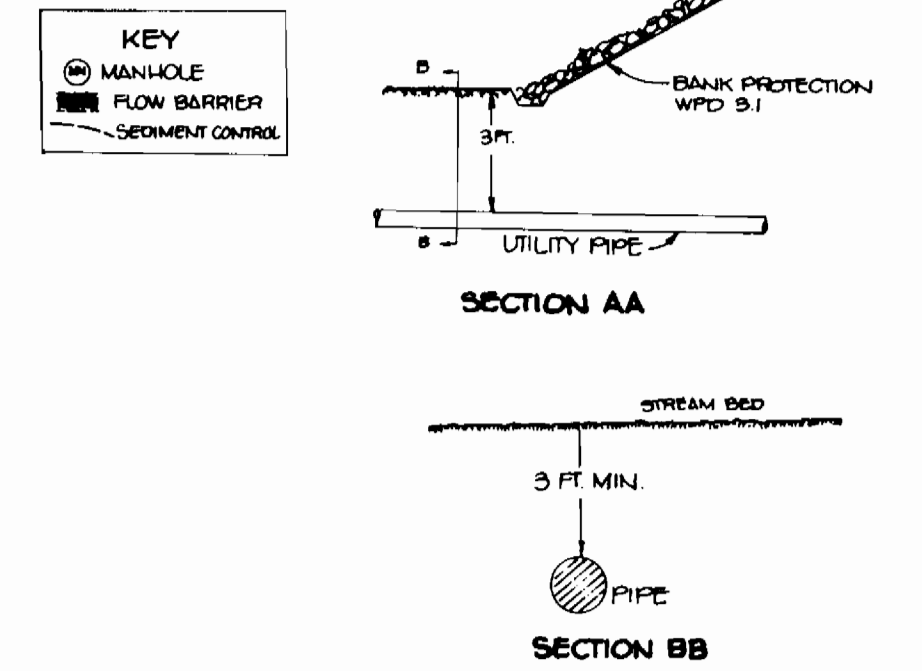
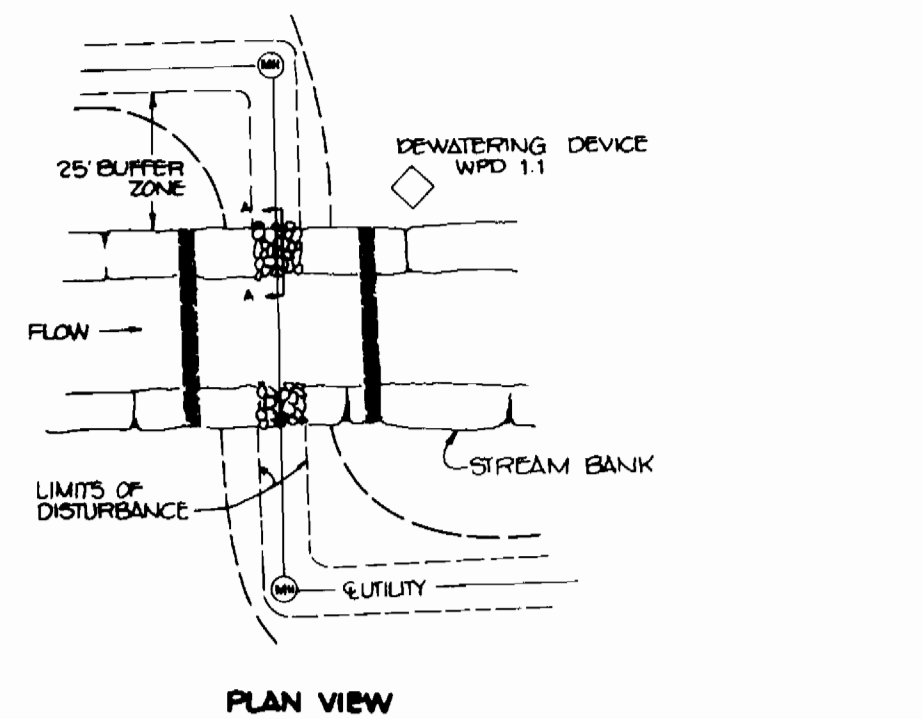
DESIGNED BY: DAM/JH
DRAWN BY: JH
CHECKED BY: [Signature]
DATE: 11-18-88

NO.	REVISION	DATE

PLAN AND PROFILE OF OFF-SITE SEWER
600' SCALE MAP NO. 47 BLOCK NO. 22

KING'S WOODS SECTION 2, AREA I
ELECTION DISTRICT NO. 6
CONTRACT NO. 24-1855-D
SHEET 2 OF 3

AS-BUILT, AUGUST 29, 1989



DESCRIPTION:
THIS WORK SHALL CONSIST OF INSTALLING EROSION CONTROL DEVICES IN AND ADJACENT TO TEMPORARY STREAM CONSTRUCTION SUCH AS UTILITY CROSSINGS.

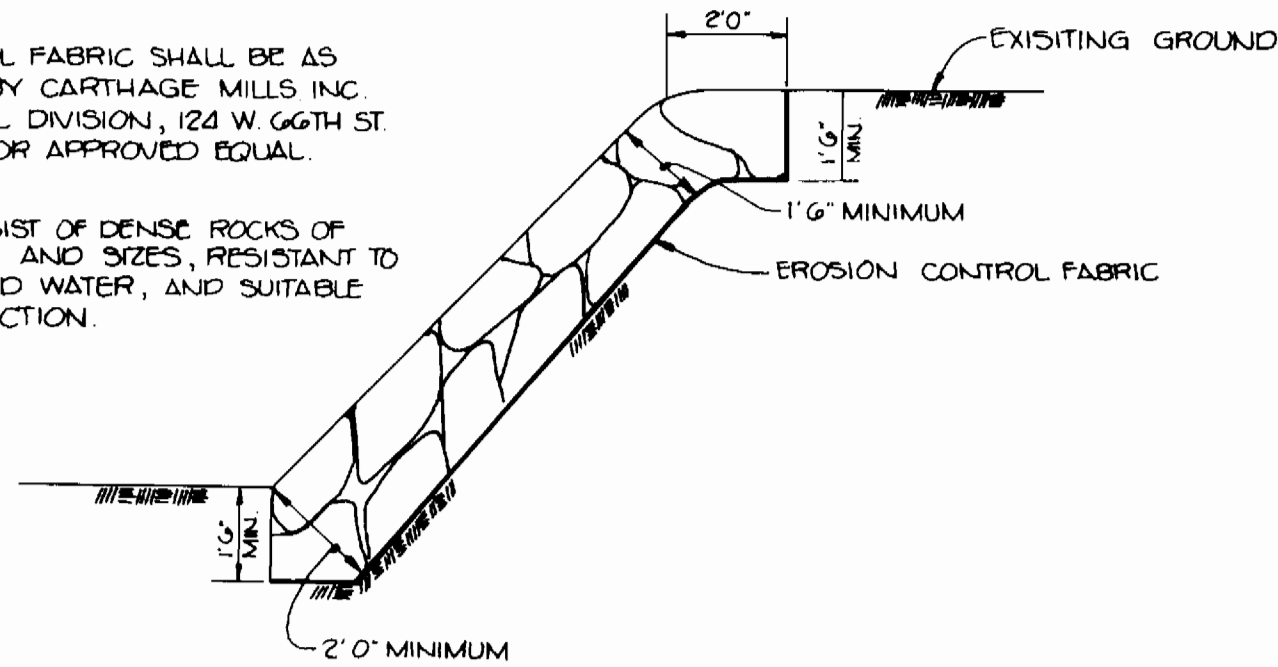
CONSTRUCTION REQUIREMENTS:

1. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF WORK.
2. THE CONTRACTOR SHALL INSURE THAT A CONTINUOUS PERIMETER CONTROL BARRIER IS IN PLACE SO AS TO MINIMIZE POLLUTANTS ENTERING THE WATER.
3. EXCAVATED TOPSOIL AND SUBSOIL SHALL BE KEPT SEPARATE AND REPLACED IN THEIR NATURAL ORDER.
4. ALL EXCAVATED MATERIALS SHALL BE PLACED ON THE UPLAND SIDE OF THE EXCAVATION.
5. ALL CONSTRUCTION SHALL TAKE PLACE DURING STREAM LOW FLOWS. THE LENGTH OF CONSTRUCTION TIME SHALL BE LIMITED TO A MAXIMUM OF 5 DAYS FOR EACH CROSSING.
6. ALL UTILITY CROSSINGS SHALL BE PLACED AT LEAST 3 FEET BENEATH THE STREAM BED UNLESS AN ALTERNATIVE SECTION IS SPECIFICALLY APPROVED BY THE ADMINISTRATION.
7. THE CONTRACTOR MAY ELECT TO CONSTRUCT THE UTILITY CROSSINGS IN TWO STAGES. IN THIS CASE, A WPD APPROVED FLOW BARRIER MAY BE CONSTRUCTED TO KEEP THE CONSTRUCTION AREA DRY.
8. SEDIMENT CONTROL DEVICES ARE TO REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED IN ACCORDANCE WITH AN APPROVED SEDIMENT AND EROSION CONTROL PLAN AND THE INSPECTION AUTHORITY APPROVES THEIR REMOVAL.

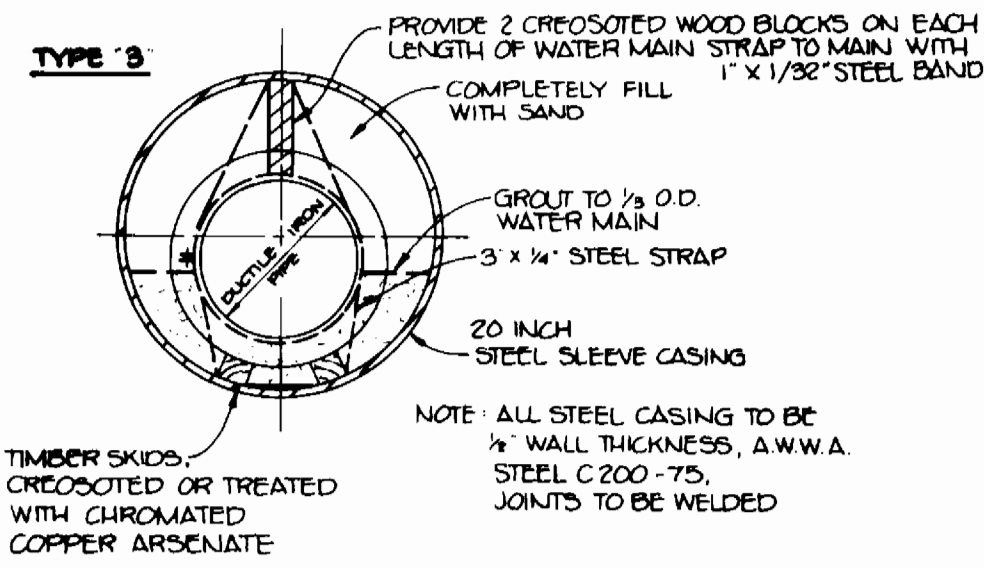
UTILITY CROSSING DETAIL
NO SCALE

NOTE:
EROSION CONTROL FABRIC SHALL BE AS MANUFACTURED BY CARTHAGE MILLS INC. EROSION CONTROL DIVISION, 124 W 60TH ST CINCINNATI, OHIO OR APPROVED EQUAL.

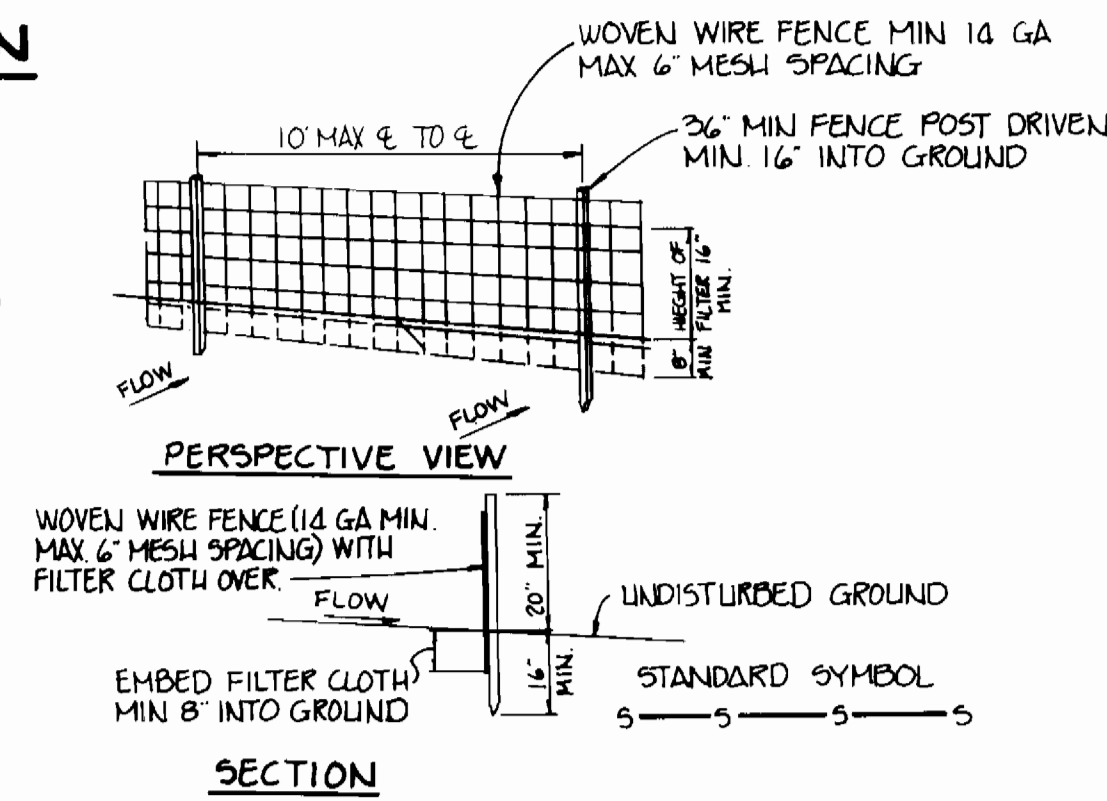
RIP RAP TO CONSIST OF DENSE ROCKS OF RANDOM SHAPES AND SIZES, RESISTANT TO ACTION OF AIR AND WATER, AND SUITABLE FOR BANK PROTECTION.



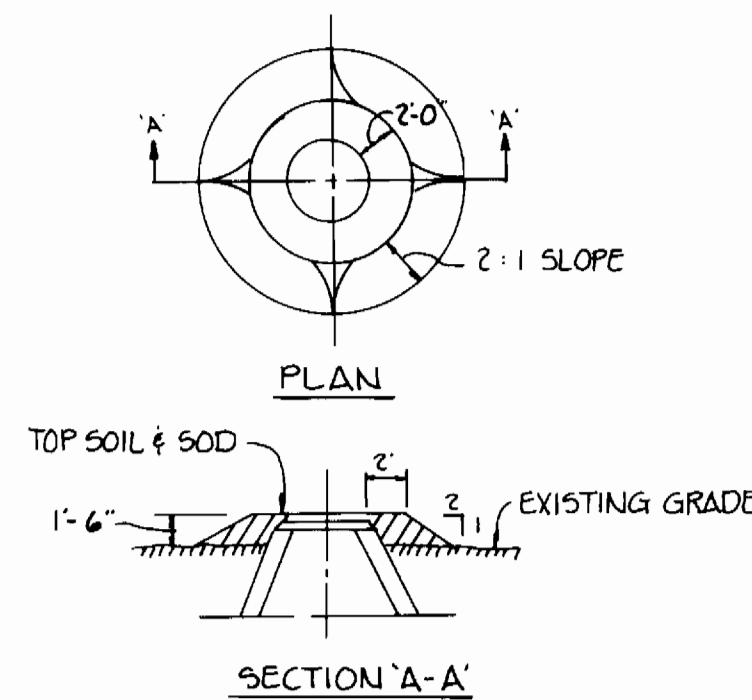
SLOPE PROTECTION
NO SCALE



BORE AND JACK DETAIL
NO SCALE



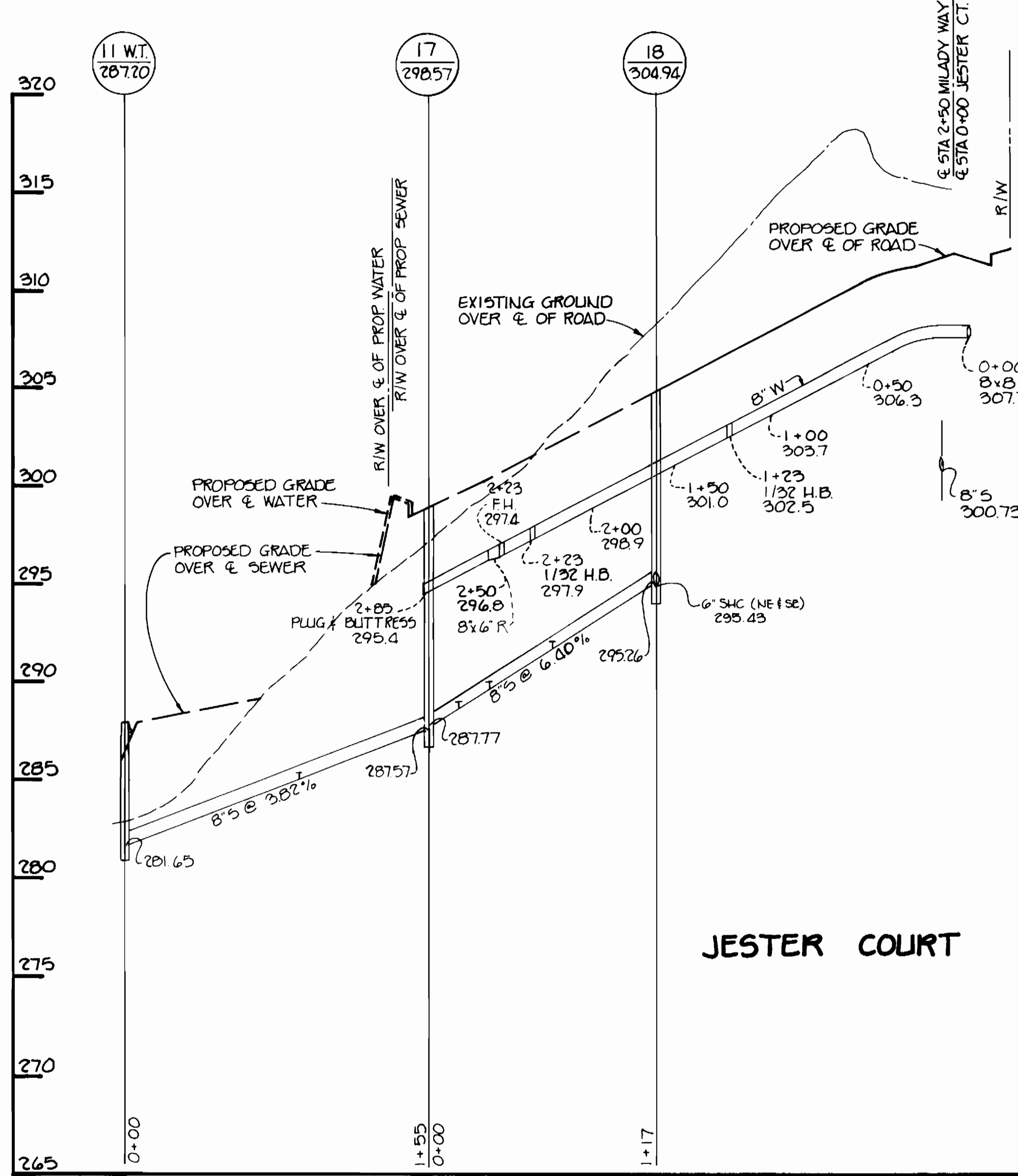
SILT FENCE DETAIL
NO SCALE



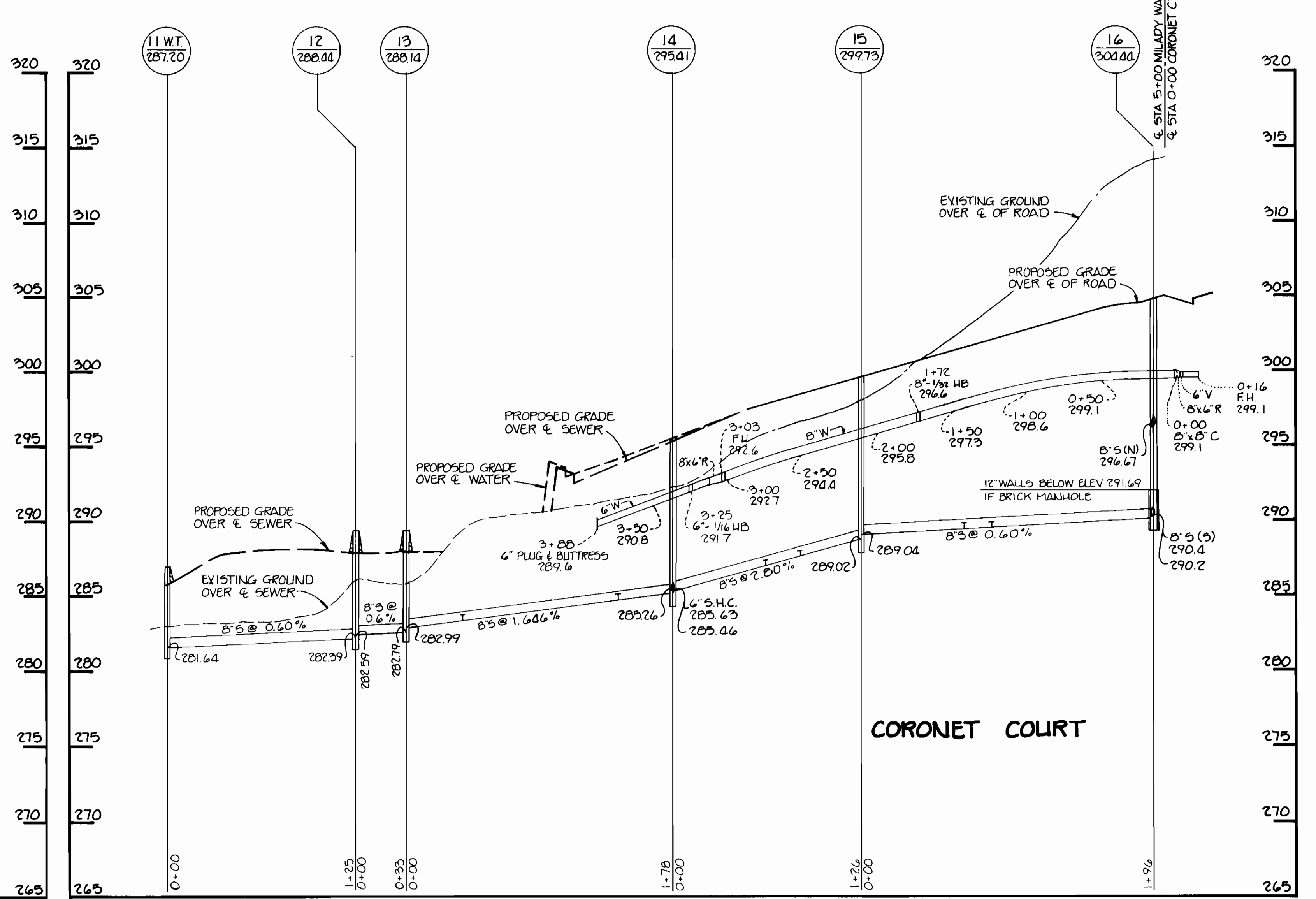
NOTES

- 1) ALL MANHOLE FRAME AND COVERS SHALL BE FLUSH WITH GRADE EXCEPT WHEN SHOWN ON PROFILE TO BE SET HIGHER THAN GRADE.
- 2) MANHOLE FRAME AND COVERS TO BE SET HIGHER THAN GRADE SHALL BE SET IN ACCORDANCE WITH THIS DETAIL.
- 3) MANHOLE FRAME AND COVERS TO BE SET HIGHER THAN 1'-6\"/>

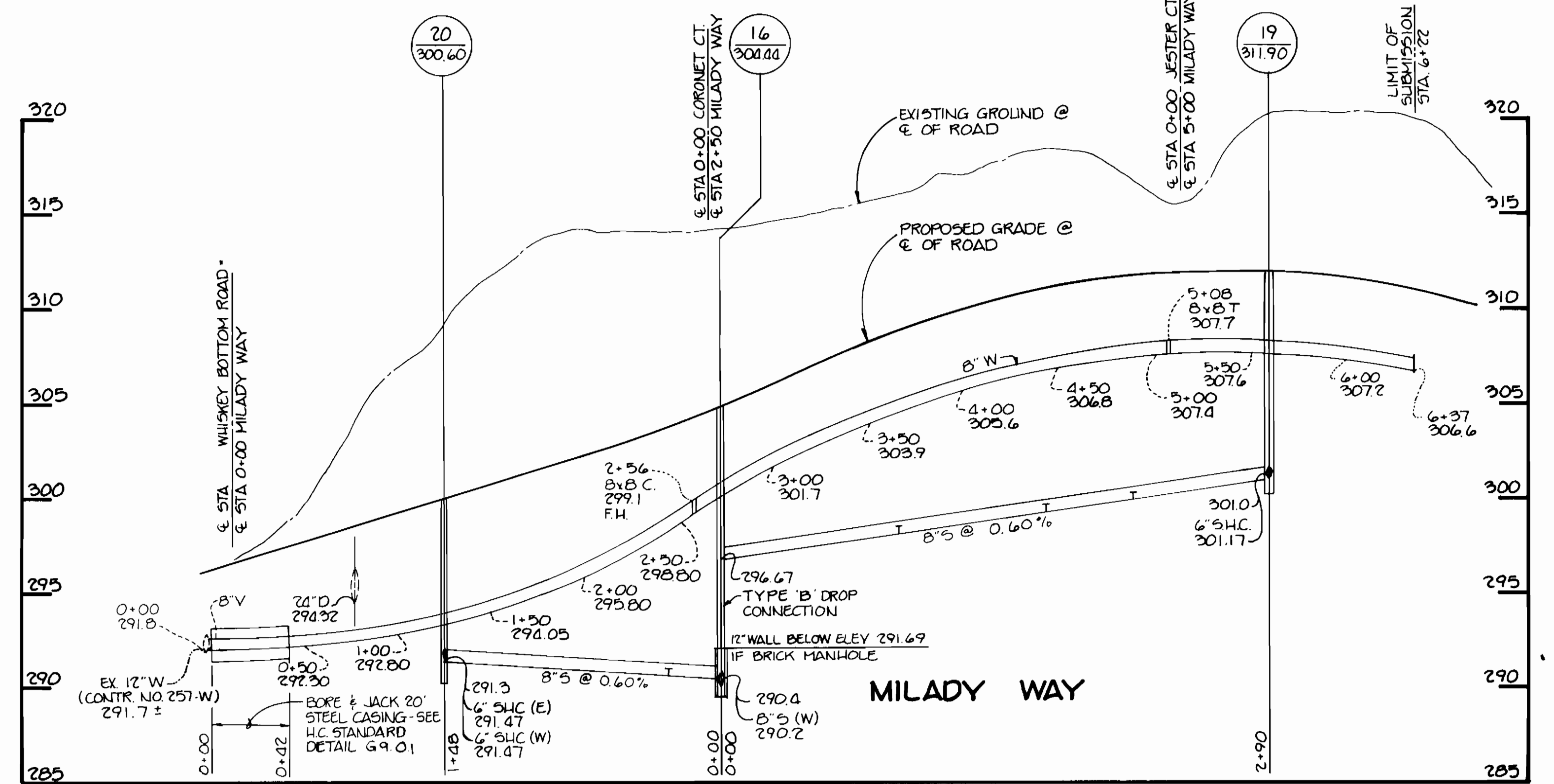
FILL AROUND MANHOLES 1-11
NO SCALE



JESTER COURT



CORONET COURT



MILADY WAY

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

TRACY, SCHULTE
& ASSOCIATES INC.
planning architecture engineering
8480 Baltimore National Pike Suite 418
Ellicott City, Maryland 21043

DES: DAM/JH			
DRN: JH			
CHK:			
DATE: 11-18-88	BY: NO.	REVISION:	DATE: 600 SCALE MAP NO. 47 BLOCK NO. 22

PROFILES

KING S WOODS
SECTION 2, AREA 1
ELECTION DISTRICT NO. 6
CONTRACT NO. 24-1855-D

SCALE AS SHOWN
SHEET 3 OF 3