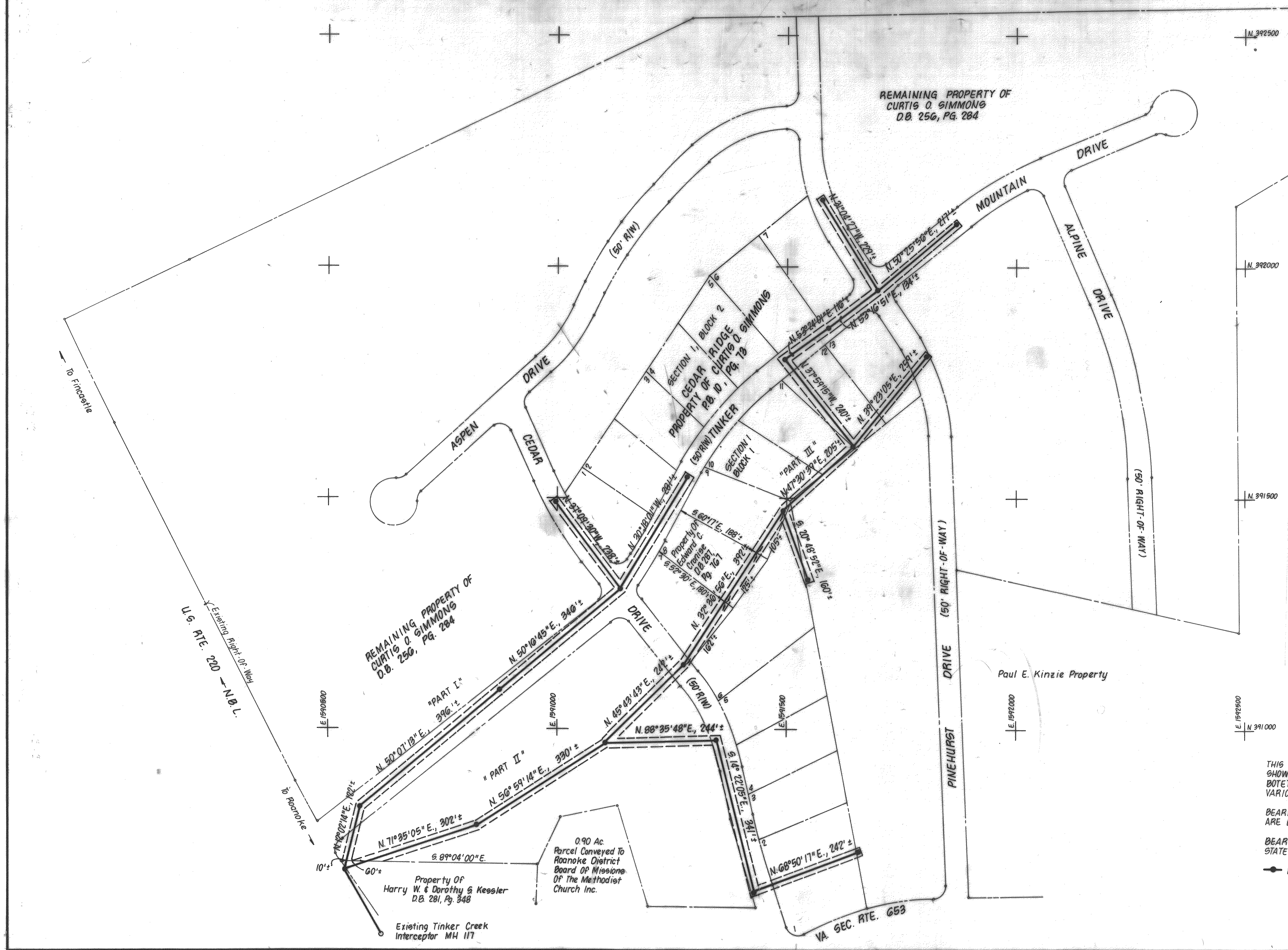

NOTE:

PLANS WERE PREPARED BASED ON:

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NOTES:

THIS PLAT DOES NOT REPRESENT AN ACTUAL FIELD SURVEY. ALL DATA SHOWN ARE COMPILED FROM EXISTING DEEDS RECORDED IN THE BOTETOURT COUNTY COURTHOUSE, FINCASTLE, VIRGINIA AND FROM VARIOUS OTHER MAPS AND SURVEYS.

BEARINGS SHOWN FOR PROPERTY LINES AND RIGHT-OF-WAY LINES ARE BASED ON PRIVATE AND STATE SURVEYS.

BEARINGS SHOWN FOR EASEMENT LINES ARE BASED ON VIRGINIA STATE PLANE COORDINATE SYSTEM.

—●— DENOTES SANITARY SEWER MANHOLE.

Designed:	CFA
Drafted:	CFA
Checked:	DJR
Approved:	DJR

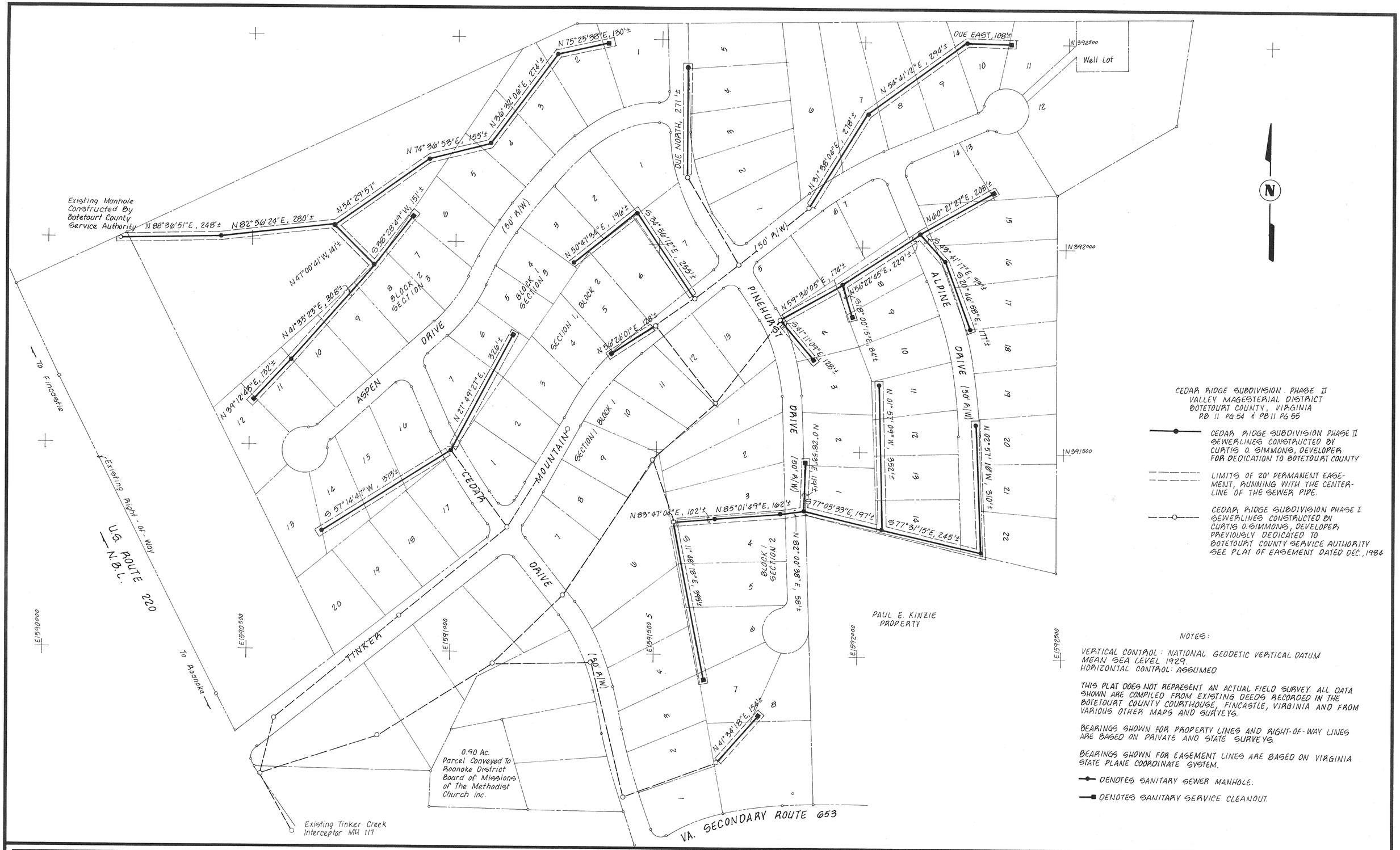
Clean Water Engineers, Inc.

Fincastle, Virginia

PLAT OF EASEMENT
FOR CEDAR RIDGE
BOTETOURT COUNTY, VIRGINIA

COMMONWEALTH OF VIRGINIA — DAVID J. RIGBY — David J. Rigby — CERTIFIED PROFESSIONAL ENGINEER

Sheet:	1 of 1
Scale:	1" = 100'
Date:	DEC. 1984
Project:	8207



CEDAR RIDGE SUBDIVISION. PHASE II
VALLEY MAGESTERIAL DISTRICT
BOTETOURT COUNTY, VIRGINIA
PB. 11 PG 54 & PB 11 PG 55

CEDAR RIDGE SUBDIVISION PHASE II SEWERLINES CONSTRUCTED BY CURTIS O. SIMMONS, DEVELOPER FOR DEDICATION TO BOTETOURT COUNTY

LIMITS OF 20' PERMANENT EASEMENT, RUNNING WITH THE CENTER-LINE OF THE SEWER PIPE.

CEDAR RIDGE SUBDIVISION PHASE I SEWERLINES CONSTRUCTED BY CURTIS O. SIMMONS, DEVELOPER, PREVIOUSLY DEDICATED TO BOTETOURT COUNTY SERVICE AUTHORITY SEE PLAT OF EASEMENT DATED DEC., 1984

NOTES:

VERTICAL CONTROL: NATIONAL GEODETIC VERTICAL DATUM MEAN SEA LEVEL 1929.
HORIZONTAL CONTROL: ASSUMED

THIS PLAT DOES NOT REPRESENT AN ACTUAL FIELD SURVEY. ALL DATA SHOWN ARE COMPILED FROM EXISTING DEEDS RECORDED IN THE BOTETOURT COUNTY COURTHOUSE, FINCASTLE, VIRGINIA AND FROM VARIOUS OTHER MAPS AND SURVEYS.

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DENOTES SANITARY SEWER MANHOLE.

DENOTES SANITARY SERVICE CLEANOUT.

CLEAN WATER ENGINEERS, INC.

P.O. BOX 218
FINCASTLE, VIRGINIA 24090

P.O. BOX 3225
STAUNTON VIRGINIA, 24401

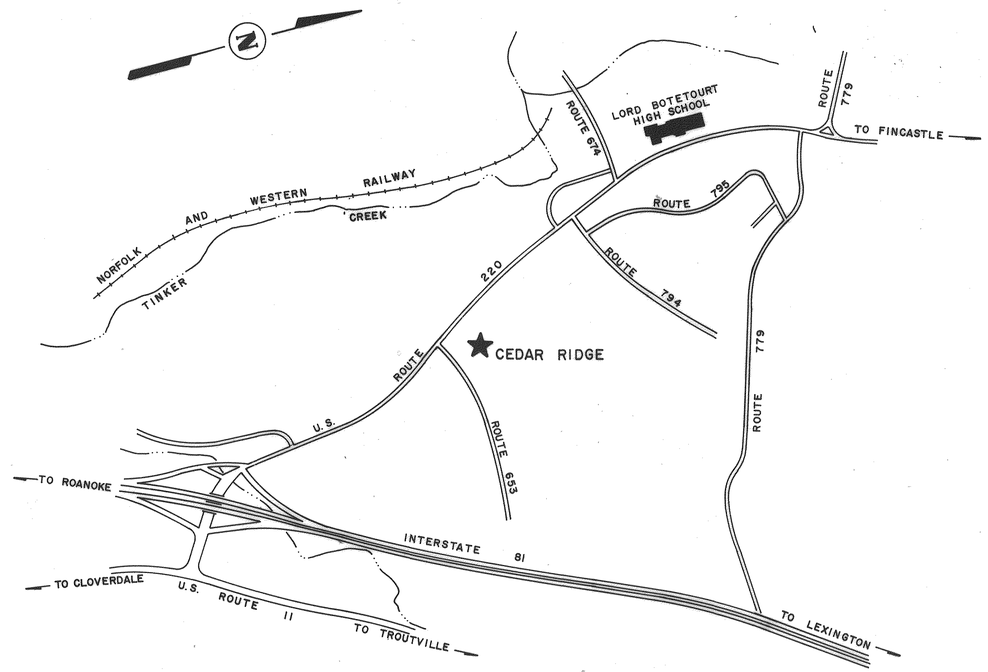
PLAT OF EASEMENT FOR CEDAR RIDGE BOTETOURT COUNTY, VIRGINIA

COMMONWEALTH OF VIRGINIA
JAMES M. DAUGHERTY, JR.
No. 014545
PROFESSIONAL ENGINEER

REVISIONS		
NO.	DATE	BY

DESIGNED: DJR	SHEET: 1 OF 1
DRAWN: TAM	SCALE: 1" = 100'
CHECKED: JMD	DATE: FEB., 1988
APPROVED: JMD	PROJECT: 8207-B

CEDAR RIDGE SEWER SYSTEM



SCALE : 1" = 800'

NOTE:

PLANS WERE PREPARED BASED ON:

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BOTETOURT COUNTY, VA

NOV. 5, 1982

CLEAN WATER ENGINEERS INC.
FINCASTLE, VIRGINIA 24090

PROJECT 8207
SHEET 1 OF 5

PAUL E. KINZIE PROPERTY

NOTES

VERTICAL CONTROL : NATIONAL GEODETIC VERTICAL DATUM MEAN SEA LEVEL 1929.
HORIZONTAL CONTROL : ASSUMED.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND SHOULD BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

EXISTING SURFACES DISTURBED BY CONTRACTOR'S WORK SHALL BE RESTORED TO THEIR PRESENT CONDITION.

CONTRACTOR SHALL PERFORM WORK IN SUCH A MANNER TO MINIMIZE EROSION OF SOILS.

DUE TO RECENT GRADING AND EXCAVATION EXISTING CONTOURS SHOWN MAY BE INACCURATE. MINOR FIELD ADJUSTMENTS TO THE SEWER SYSTEM MAY BE REQUIRED.

FOR REVISION OF BLOCK 1, SECTION 2, REFERENCE IS MADE TO PLAT OF SECTION NO. 2, CEDAR RIDGE PREPARED BY T.P. PARKER & SON, ENGINEERS & SURVEYORS, SALEM, VIRGINIA, DATED DECEMBER 10, 1984.

FOR REVISION OF BLOCK 1 AND BLOCK 2 OF SECTION 3, REFERENCE IS MADE TO PLAT OF SECTION NO. 3, CEDAR RIDGE PREPARED BY T.P. PARKER & SON, DATED SEPTEMBER 23, 1985.

PAUL E. KINZIE PROPERTY

NOTE:

PLANS WERE PREPARED BASED ON:

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Designed:	DJR
Drafted:	DJR/CFA
Checked:	JMD
Approved:	DJR

Clean Water Engineers, Inc.

Fincastle, Virginia

CEDAR RIDGE SEWER SYSTEM
FOR
CURTIS O. SIMMONS
BOTETOURT COUNTY, VIRGINIA

REVISED 2-24-86 CFA

"AS- BUILTS"

COMMONWEALTH OF VIRGINIA
DAVID J. RIGBY
No. 8169
CERTIFIED PROFESSIONAL ENGINEER

Sheet:	2 of 5
Scale:	1" = 100'
Date:	NOV. 5, 1982
Project:	8207

AF 31714

NOTE:

PLANS WERE PREPARED BASED ON:

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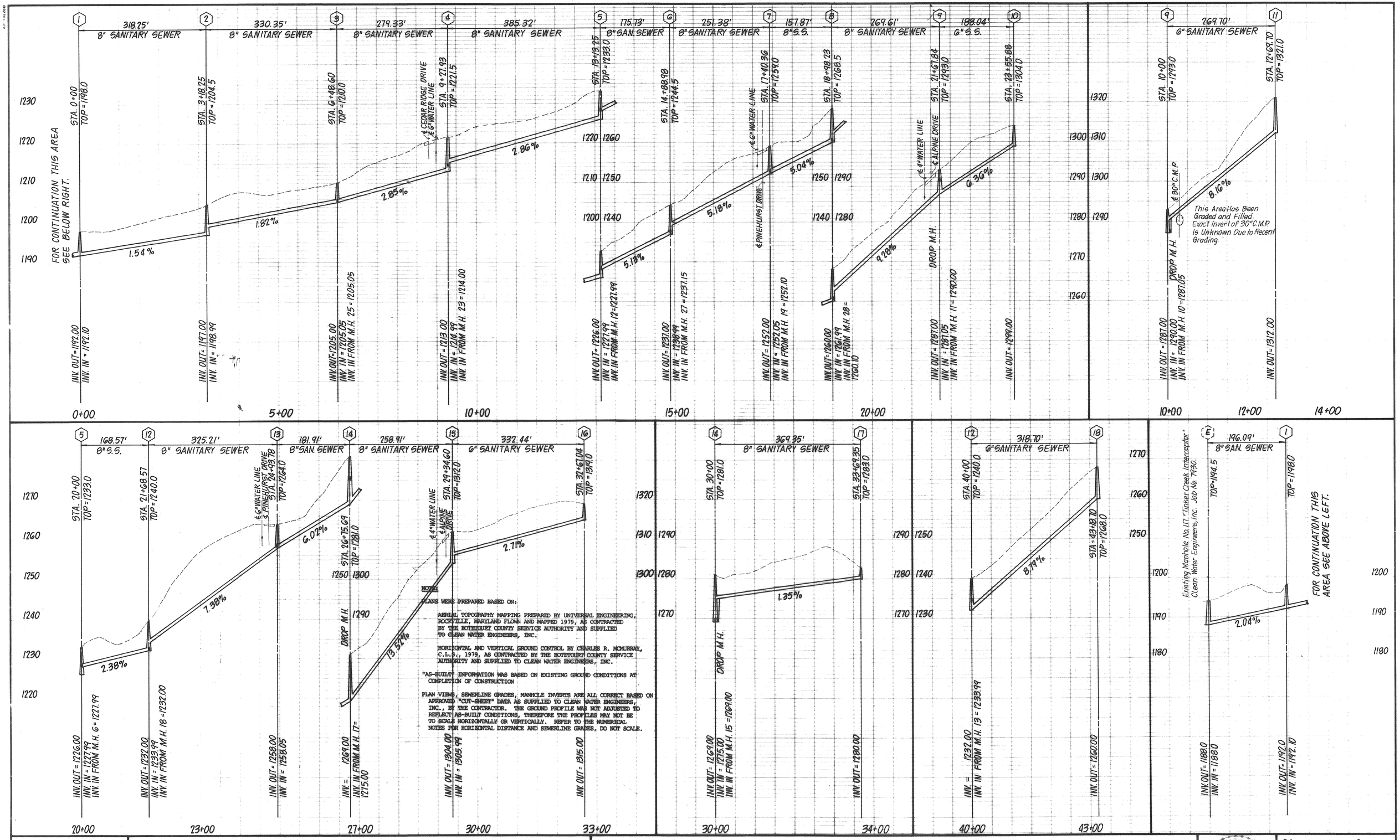
Designed: DJR	**Clean Water Engineers, Inc.**	CEDAR RIDGE SEWER SYSTEM "AS BUILTS"	Sheet: 2A of 5
Drafted: CCB	Fincastle, Virginia	FOR	Scale: 1"= 100'
Checked: CFA		CURTIS O. SIMMONS	Date: MAR. 1986
Approved: DJR		BOTETOURT COUNTY, VIRGINIA	Project: 8207



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Designed:	DJR
Drafted:	CFA
Checked:	JMD
Approved:	DJR

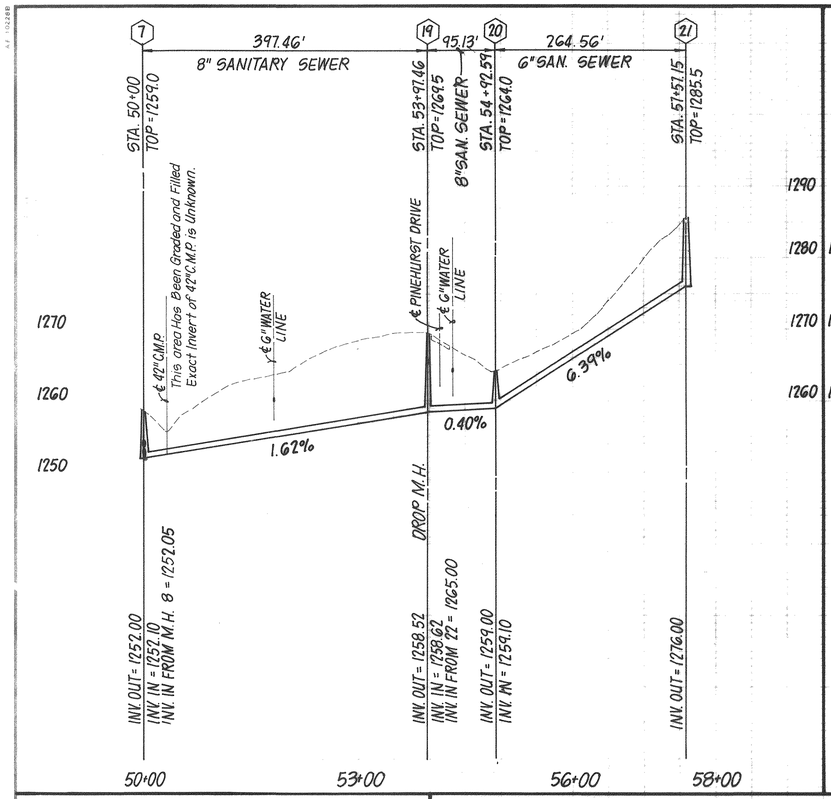
Clean Water Engineers, Inc.

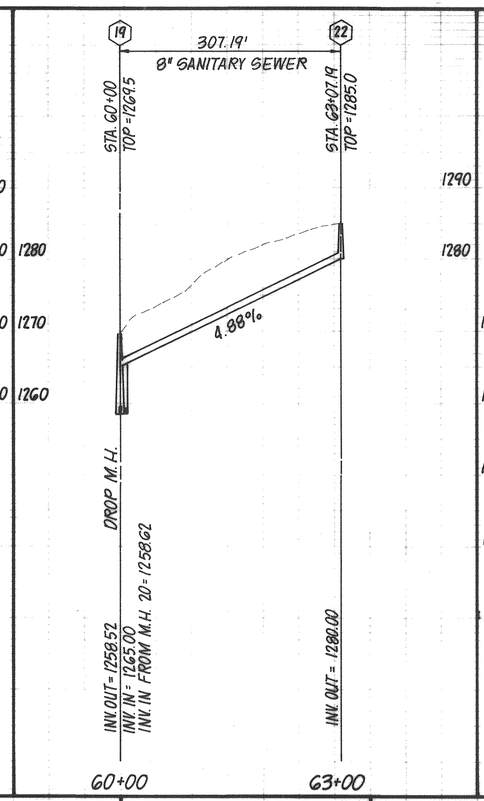
Fincastle, Virginia

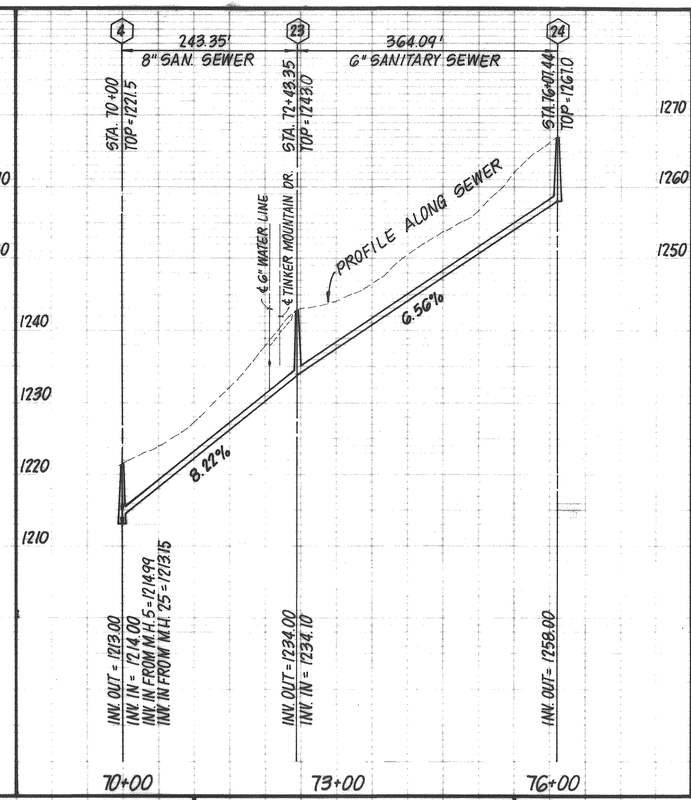
CEDAR RIDGE SEWER SYSTEM
FOR
CURTIS O. SIMMONS
BOTETOURT COUNTY, VIRGINIA

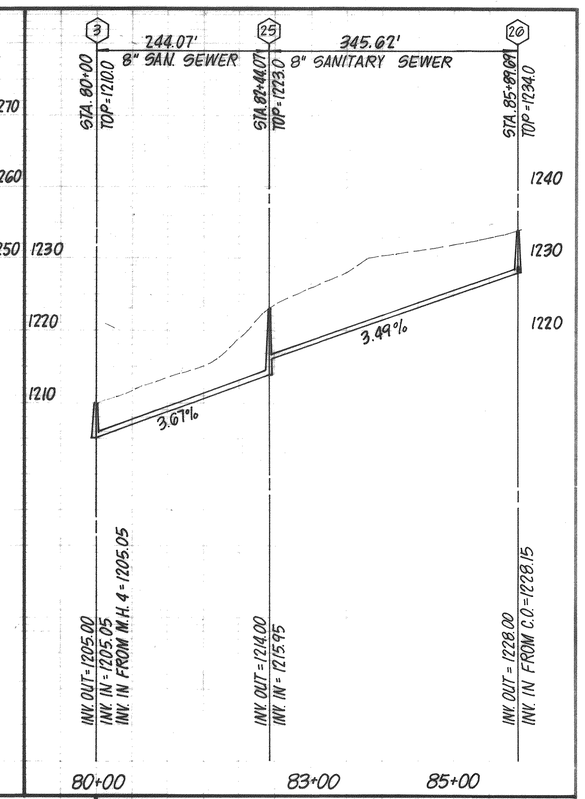
COMMONWEALTH OF VIRGINIA — David J. Rigby

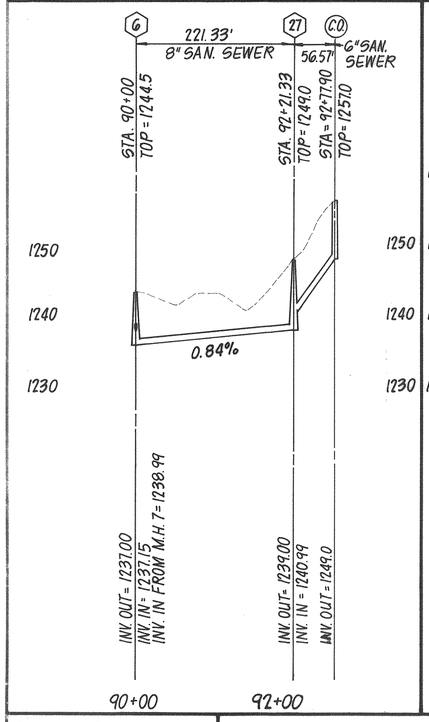
Sheet:	3 of 5
Scale:	1" = 100' HORIZ. 10' VERT.
Date:	NOV. 5, 1982
Project:	8207

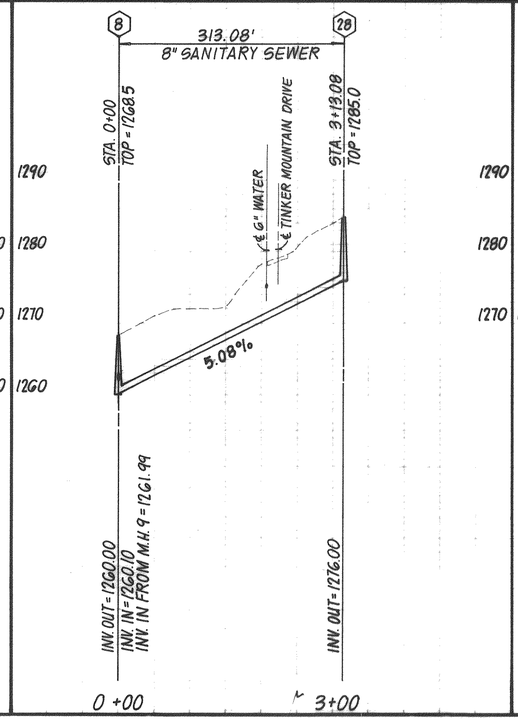


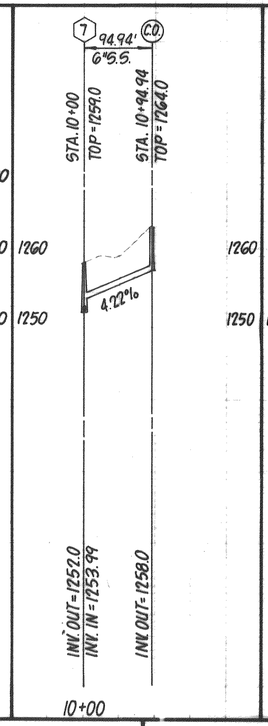


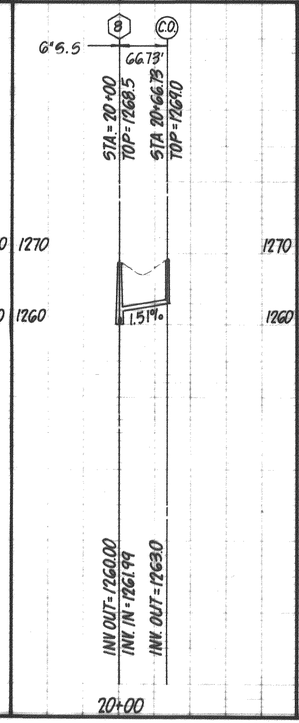


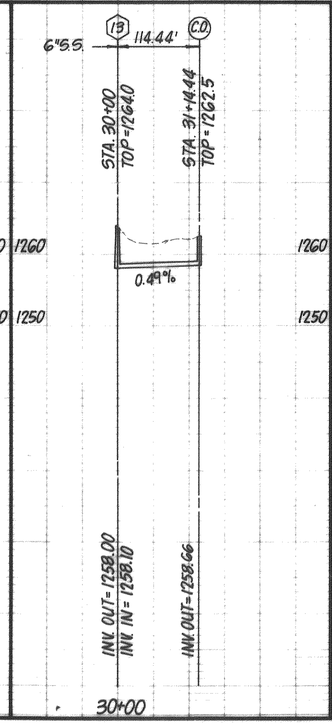


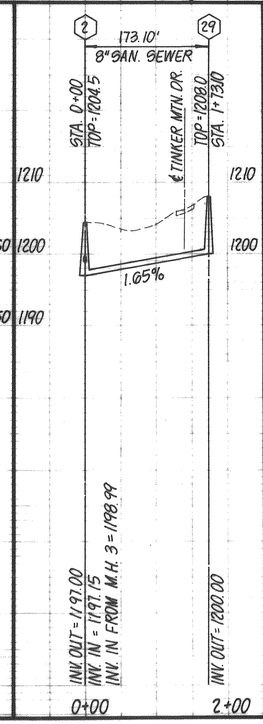


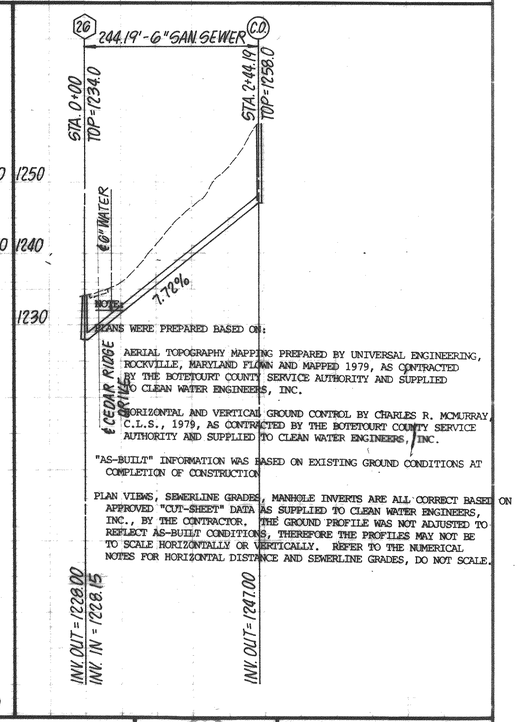












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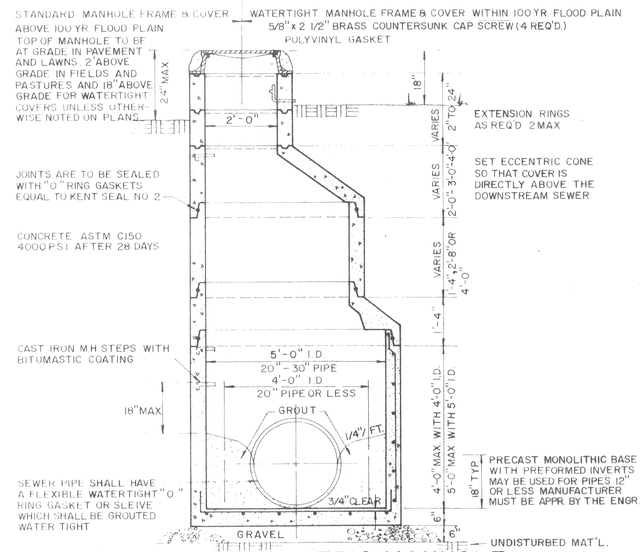
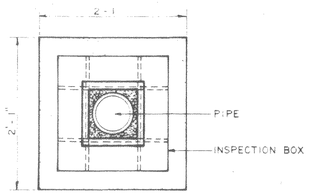
Designed: DJR	**Clean Water Engineers, Inc.**	CEDAR RIDGE SEWER SYSTEM FOR CURTIS O. SIMMONS BOTETOURT COUNTY, VIRGINIA	Sheet: 4 of 5
Drafted: CFA	Fincastle, Virginia		Scale: 1" = 100' HORIZ. 10' VERT.
Checked: JMD			Date: NOV. 5, 1982
Approved: DJR			Project: 8207

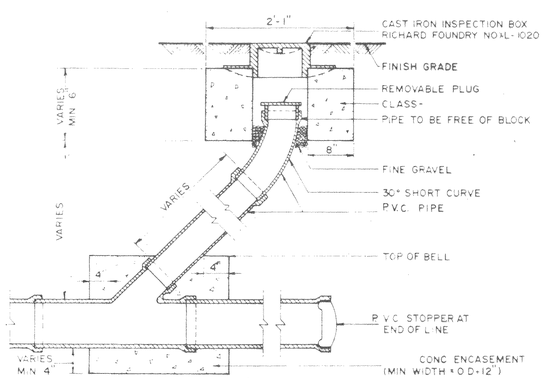
David J. Rigby



PRECAST ECCENTRIC MANHOLE

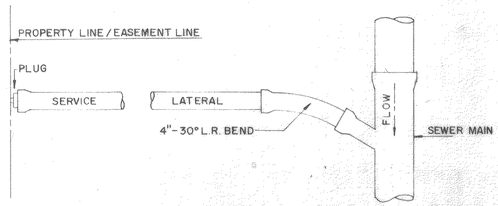


PLAN

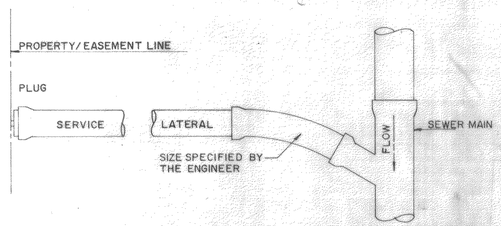


SECTION

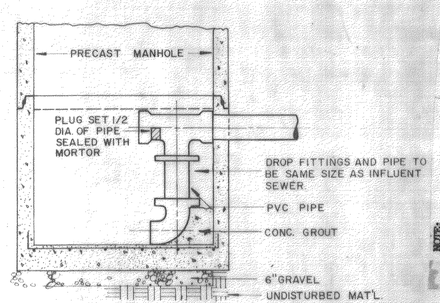
CLEANOUT



RESIDENTIAL SERVICE CONNECTION



COMMERCIAL SERVICE CONNECTION



DROP CONSTRUCTION IS TO BE USED AT EVERY LOCATION WHERE THE INFLUENT INVERT IS GREATER THAN 2'-0" ABOVE THE EFFLUENT SEWER INVERT.

DROP CONSTRUCTION AT STANDARD MANHOLE

NOTE:

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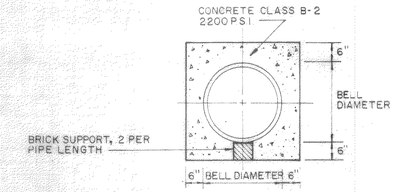
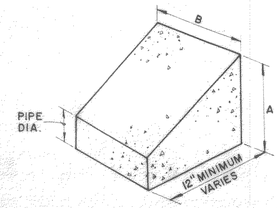
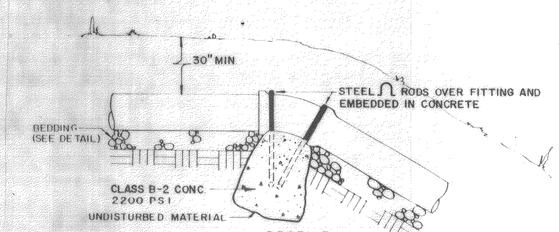


CONCRETE ENCASED PIPE



THRUST BLOCK SIZES

PIPE	TEE, CROSS, 90°		45°, WYE		22 1/2°	
DIAMETER	A	B	A	B	A	B
4"	12"	12"	12"	12"	12"	12"
6"	"	"	"	"	"	"
8"	15"	24"	"	18"	"	"
10"	18"	"	18"	"	"	18"
12"	24"	30"	"	24"	18"	"



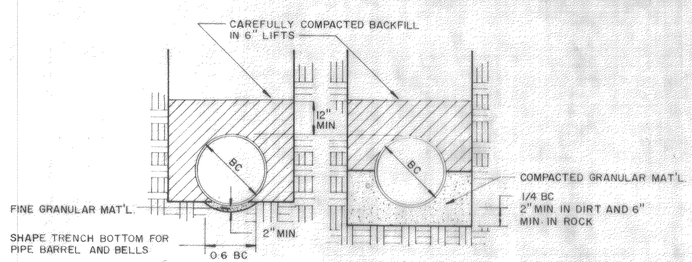
PROFILE

FITTING SIZE	ROD SIZE	NO. OF RODS	EMBEDMENT
4" - 6" - 8"	No. 4	2	24"
10" - 12"	" 6	"	"

FITTING SIZE	VOLUME OF THRUST BLOCK IN CUBIC YARDS			
	90°	45°	22 1/2°	11 1/4°
4	0.25	0.15	0.1	0.1
6	0.5	0.35	0.25	0.2
8	0.9	0.65	0.5	0.35
10	1.4	1.0	0.8	0.55
12	2.0	1.4	1.0	0.7

1. KEEP CONC CLEAR OF JOINT AND JOINT ACCESSORIES.
2. THRUST BLOCKS FOR VERTICAL UP BENDS SHALL BE THE SAME VOLUME AS FOR HORIZONTAL BENDS.

VERTICAL THRUST BLOCK DETAIL



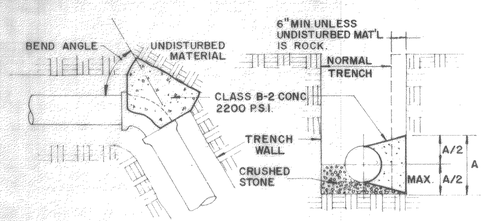
SHAPED BOTTOM W/ TAMPED BACKFILL

COMPACTED GRANULAR BEDDING TO BE USED W/ FLEXIBLE PIPE

THE CONTRACTOR SHALL CHOOSE ONE OF THESE METHODS OF PIPE BEDDING UNLESS OTHERWISE DIRECTED BY THE ENGINEER

BEDDING DETAIL

FIRST CLASS — CLASS B BEDDING



PLAN SECTION

NOTES:

1. AREA OF THRUST BLOCK BASED ON 1500 P.S.F. LATERAL BEARING PRESSURE AND A TEST PRESSURE WITHIN PIPE OF 150 P.S.I., VELOCITY OF 10 F.P.S.
2. THRUST BLOCKS ARE REQUIRED AT ALL BENDS OF MORE THAN 10°.
3. BEARING SURFACE OF THRUST BLOCKS MUST BE NORMAL TO RESULTANT THRUST OF BEND AND BEAR ON SUITABLE UNDISTURBED MATERIAL.
4. KEEP CONCRETE CLEAR OF JOINT AND JOINT ACCESSORIES.

HORIZONTAL THRUST BLOCK DETAIL

Designed: DJR	**Clean Water Engineers, Inc.**	SEWER DETAILS	David J Rigby	Sheet: 5 of 5
Drafted: CFA	Fincastle, Virginia	CEDAR RIDGE SEWER SYSTEM		Scale: NONE
Checked: JMD		FOR		Date: NOV. 5, 1982
Approved: DJR		CURTIS O. SIMMONS		Project: 8207