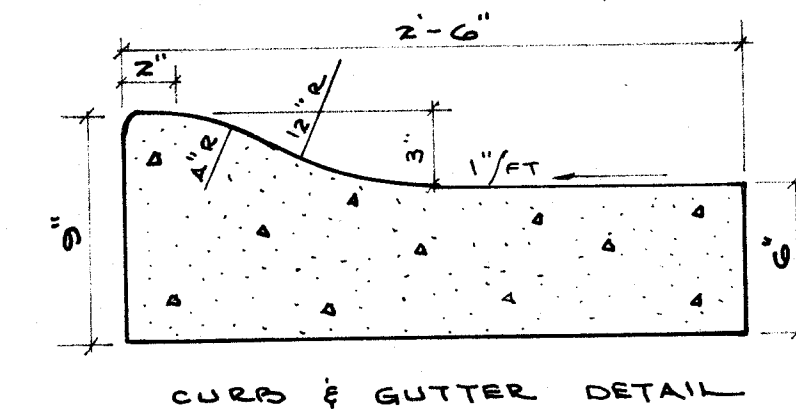
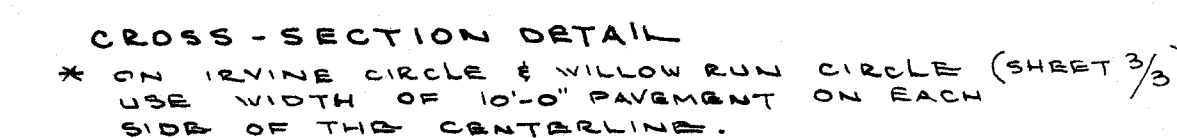
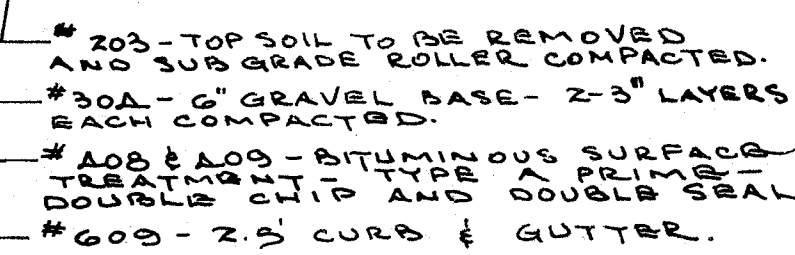




PIPE CHART						
NO	L.F.	SIZE	TYPE	GRADE	INLET	OUTLET
1	36	12"	B	0.6%	1133.08	1132.86
2	144	12"	B	0.6%	1132.86	1132.00

CURVE DATA

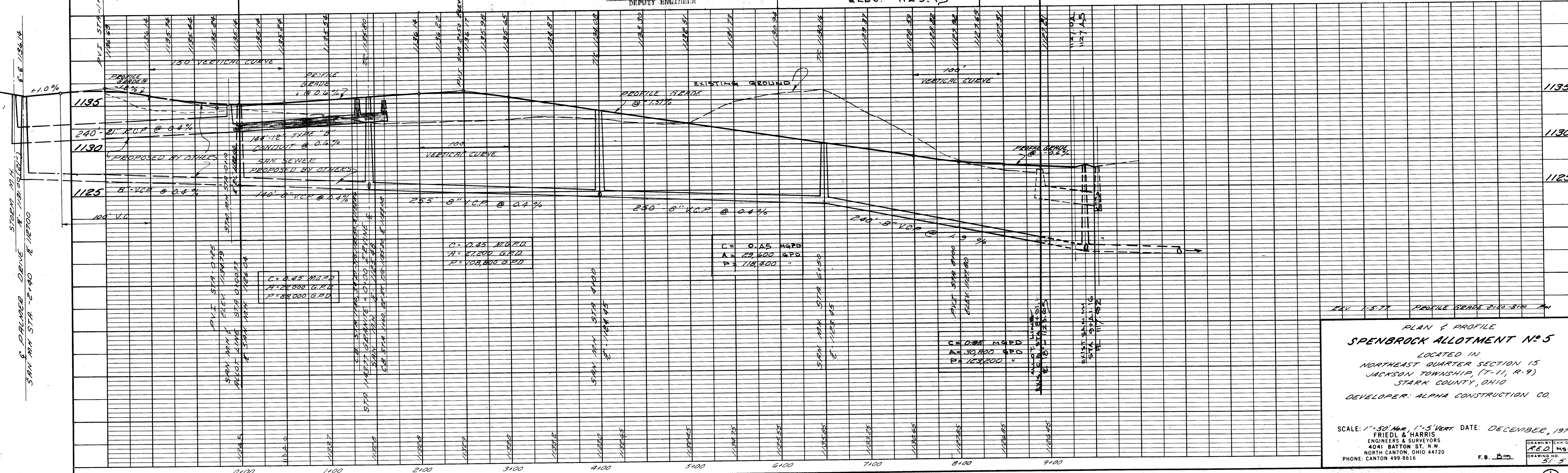
$R = 290.12'$
 $A = 204.91'$
 $C = 200.67'$
 $B_0 = N 75^{\circ} 14' 00'' E$
 $\Delta = 40^{\circ} 28' 00''$
 $T = 106.94'$

APPROVED BY THE STARK COUNTY SANITARY ENGINEER THIS _____ DAY
OR _____, 1975.

~~STARK COUNTY SANITARY ENGINEER~~

BY: DEPUTY ENGINEER

BENCH MARK -
TOP BOLT ON WEST SIDE OF
N. CONC. POST N. OF GASWELL.
ELEV. 1129.15



PLAN & PROFILE
SPENBROCK ALLOTMENT N^o 5
LOCATED IN
NORTHEAST QUARTER SECTION 15
JACKSON TOWNSHIP, (T-11, R-9)
STARK COUNTY, OHIO
DEVELOPER: ALPHA CONSTRUCTION CO.

SCALE: 1"=50' HOR., 1"=5' VERT. DATE: DECEMBER, 1977

FRIEDL & HARRIS
ENGINEERS & SURVEYORS
4041 BATTON ST. N.W.
NORTH CANTON, OHIO 44720
PHONE: CANTON 499-8616

DRAWN BY	CHK'D
R.E.D.	MS
DRAWING NO.	
51-5	

F.B. 89

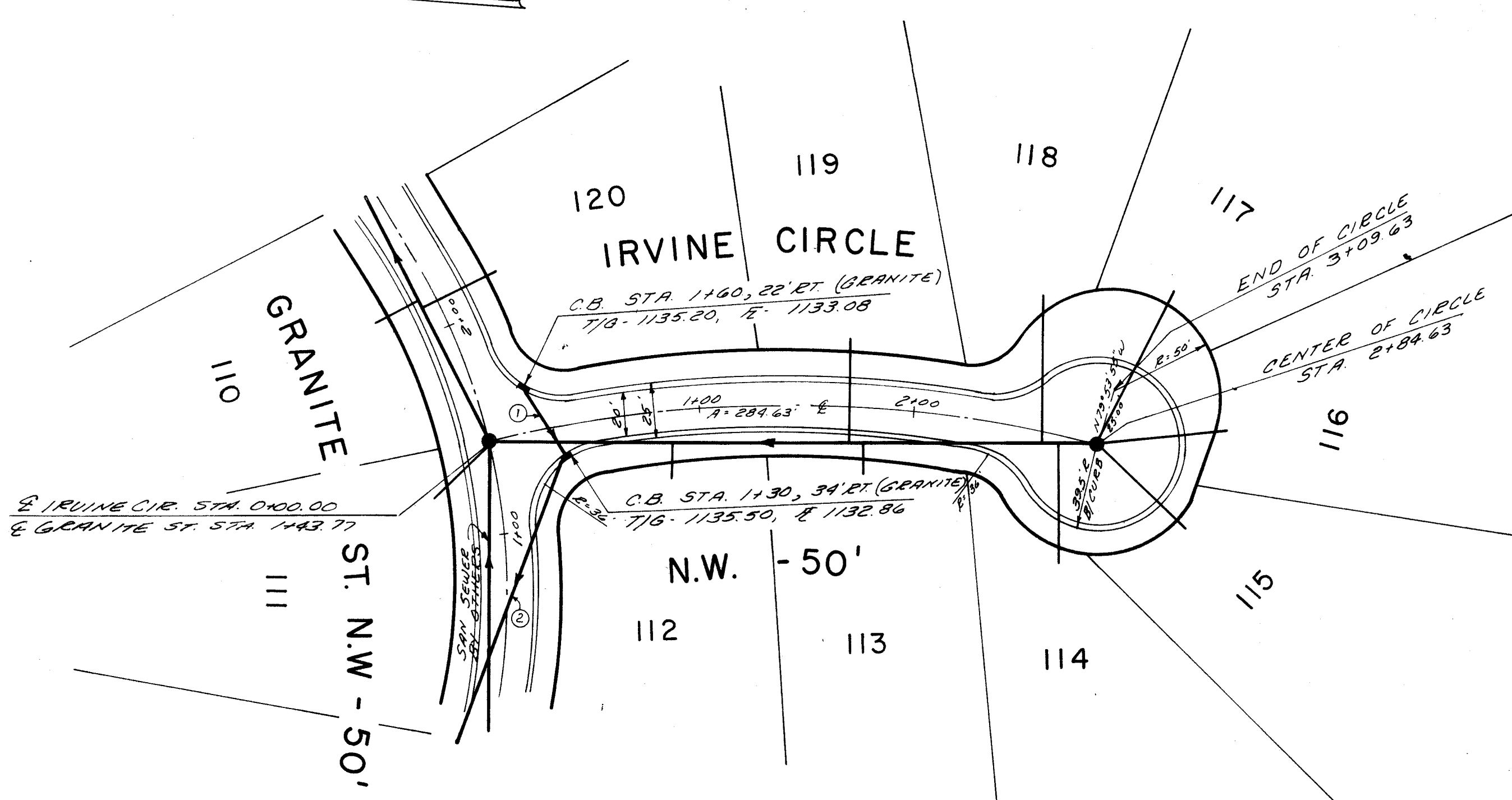
GRANITE ST. STA. 0.00.77 TO 8 91.16

PLAN	SURVEYED	DATE
	NOTED	BY
	NOTE BOOK	ALIGNED CHECKED
	RT. OF WAY CHECKED	

PROFILE	SURVEYED	DATE
	NOTED	BY
	NOTE BOOK	ALIGNED CHECKED
	STRUCTURE NOTATIONS CHECKED	

APPROVED BY THE MASSILLON CITY ENGINEER THIS _____ DAY OF _____ 19____
 MASSILLON CITY ENGINEER

APPROVED BY THE STARK COUNTY SANITARY ENGINEER THIS _____ DAY OF _____ 1975.
 STARK COUNTY SANITARY ENGINEER
 BY: _____ DEPUTY ENGINEER



BENCH MARK:
 TOP BOLT ON WEST
 SIDE OF N CONCRETE
 POST NORTH OF GAS
 WELL.
 ELEV. 1129.15

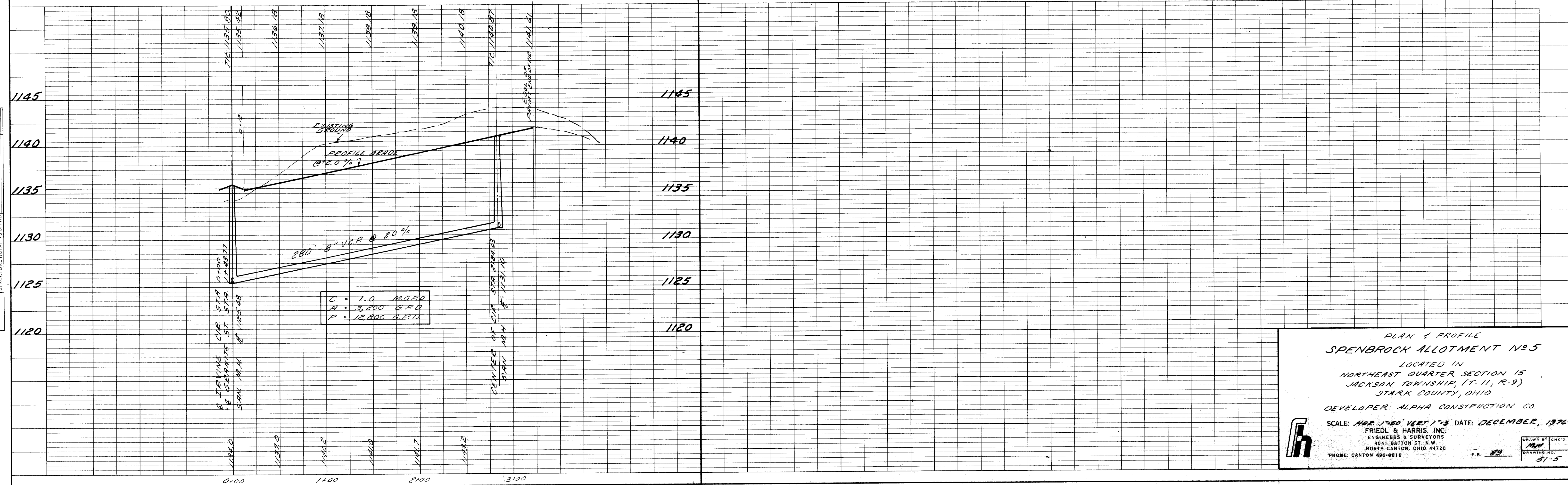
CURVE DATA
 R = 583.72
 A = 284.63
 C = 281.82
 Bc = 5 03° 52' 04" E
 Δ = 27° 56' 19"
 T = 145.21

PIPE CHART						
NO.	L.F.	SIZE	TYPE	GRADE	INLET	OUTLET
1	36	12"	B	0.4%	1133.08	1132.86
2	144	12"	B	0.4%	1132.86	1132.00

ESTIMATED QUANTITIES			
# ITEM	UNIT	QUAN	DESCRIPTION
EARTHWORK & ROAD PAVING			
203	C.Y.	3580	EXCAVATION
203	C.Y.	1950	EMBANKMENT
203	S.Y.	4,150	SUBGRADE PREPARATION
304	C.Y.	580	AGGREGATE BASE
408	S.Y.	3,450	BITUMINOUS SURFACE TREATMENT
609	L.F.	2,440	TYPE A-DOUBLE CHIP & DOUBLE SEAL
			25" CURB & GUTTER
SANITARY SEWER			
604	V.F.	38	(4) SANITARY MANHOLES (COMPLETE)
603	L.F.	1025	8" VITRIFIED CLAY PIPE
603	L.F.	850	6" " " " (LATERALS)
603	EACH	18	6"x8" WYES
DRAINAGE			
604	V.F.	5	(2) CATCH BASIN (COMPLETE)
603	V.F.	180	12" TYPE B CONDUIT

* STATE OF OHIO - DEPARTMENT OF TRANSPORTATION - CONSTRUCTION & MATERIAL SPECIFICATIONS - JAN. 1, 1975

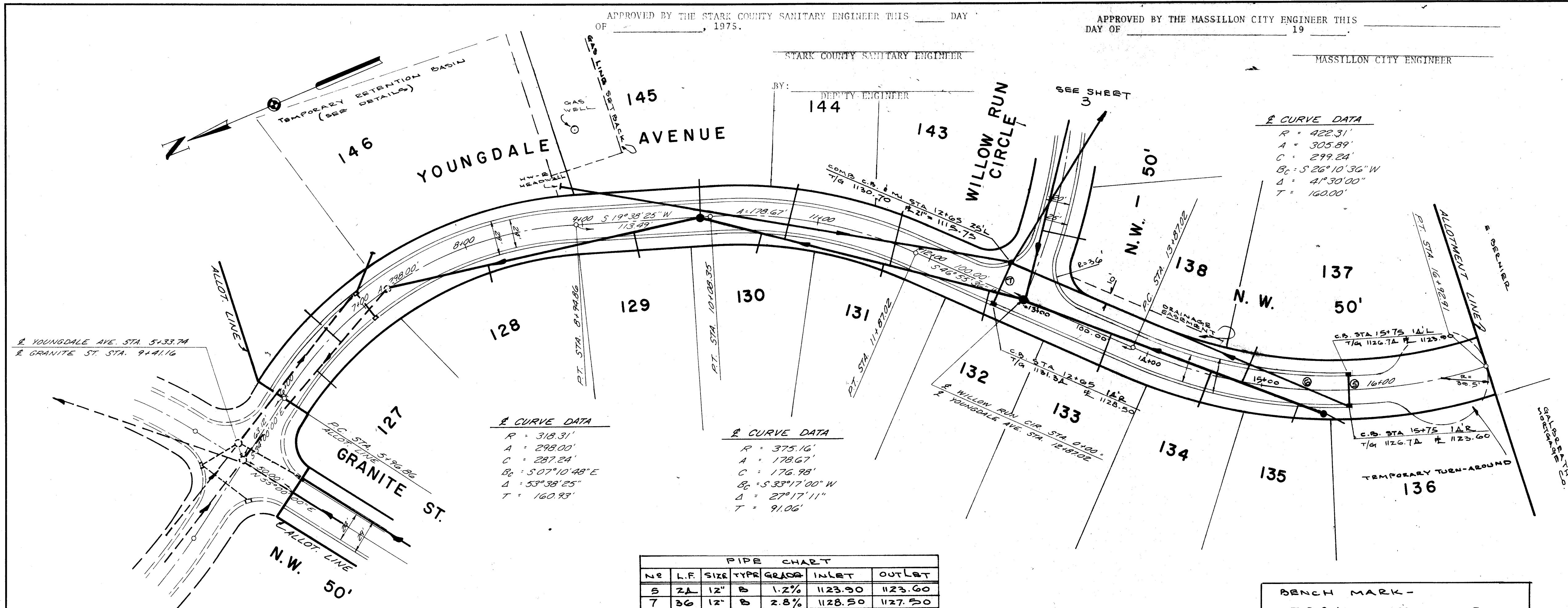
NOTE:
 ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE STRICTLY PROHIBITED.



PLAN & PROFILE
SPENBROCK ALLOTMENT No. 5
 LOCATED IN
 NORTHEAST QUARTER SECTION 15
 JACKSON TOWNSHIP, (T. 11, R. 9)
 STARK COUNTY, OHIO
 DEVELOPER: ALPHA CONSTRUCTION CO.
 SCALE: HORIZ. 1"=60' VERT. 1"=5' DATE: DECEMBER, 1976
 ENGINEERS & SURVEYORS
 4041 BATON ST. N.W.
 NORTH CANTON, OHIO 44720
 PHONE: CANTON 499-8616
 DRAWN BY: CHD
 CHECKED BY: MMH
 DATE: 11-5

PLAN	DATE	BY
NO.		

PROFILE	DATE	BY
NO.		



ESTIMATED QUANTITIES			
ITEM	UNIT	QUAN	DESCRIPTION
EARTHWORK & ROAD PAVING			
203	CY	6000	EXCAVATION
203	CY	2200	EMBANKMENT
203	SY	9100	SUBGRADE PREPARATION
30A	CY	1320	AGGREGATE BASE
40B	SY	7900	BITUMINOUS SURFACE TREATMENT
4A0B			TYPE A-DOUBLE CHIP & DOUBLE SEAL
60B	LF	1650	2.5' CURB & GUTTER

SANITARY			
60A	VF	76	(8) SANITARY MANHOLE-COMPLET
60B	LF	2025	8" VITRIFIED CLAY PIPE
60B	LF	1430	6" VCP LATERAL
60B	EACH	22	6"x8" WYES

DRAINAGE			
60A	VF	27	(2) COMB. MI F.C.B. - COMPLETE
60A	VF	15	(5) CATCH BASIN - COMPLETE
60A	VF	15	(2) STORM MI - COMPLETE
60B	LF	548	12" TYPE B CONDUIT

60B	LF	1296	21" "
60B	EACH	2	END WALL HW-2
60B	CY	11	DUMPED ROCK - TYPE C

*STATE OF OHIO-DEPT. OF TRANSPORTATION - CONSTRUCTION & MATERIAL SPECIFICATIONS - JAN. 1, 1975.

ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE STRICTLY PROHIBITED.

