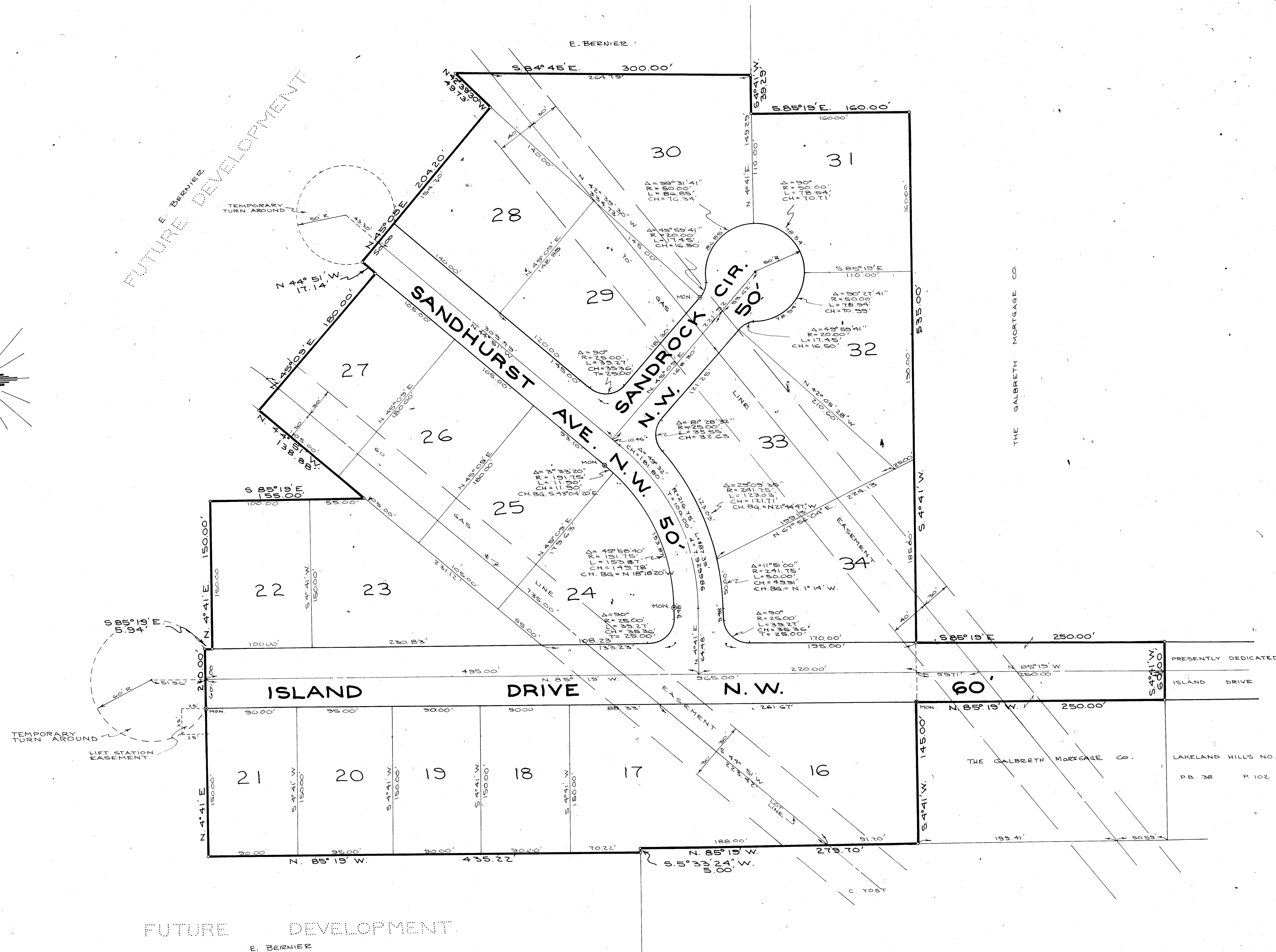
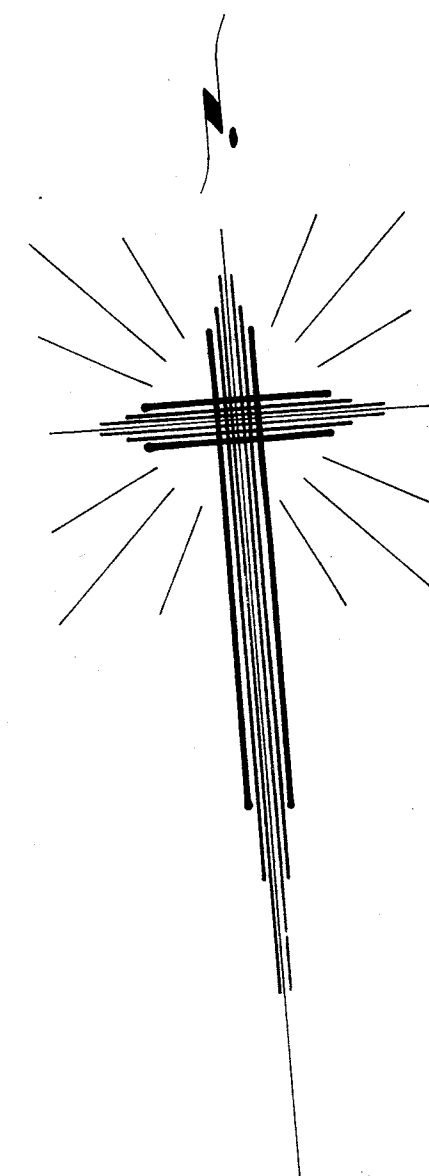




COOPER AND ASSOCIATES
CONSULTING ENGINEERS AND SURVEYORS

1359 MARKET
AVENUE, NORTH
CANTON, OHIO
44714

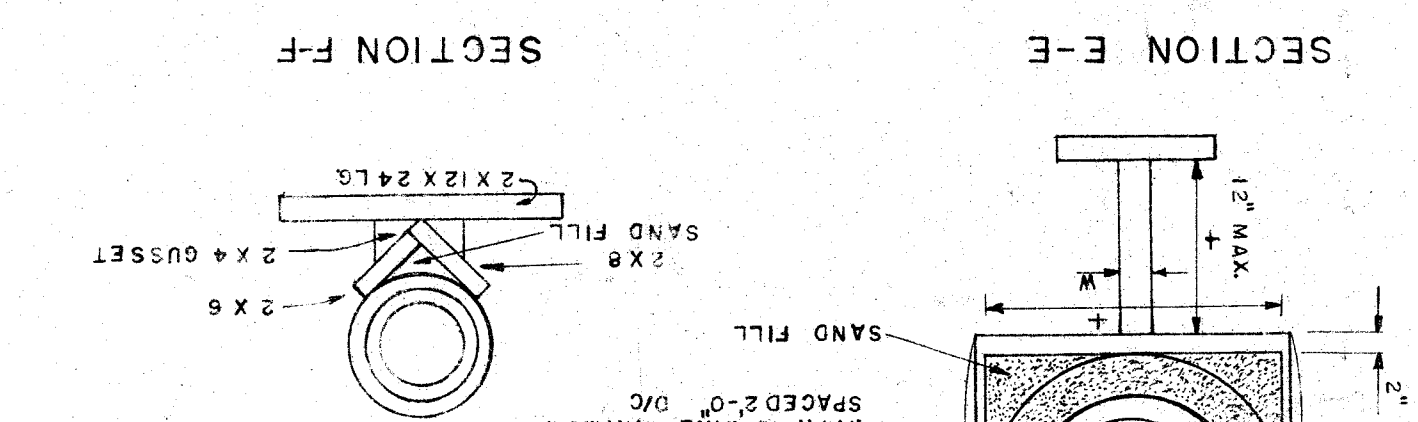
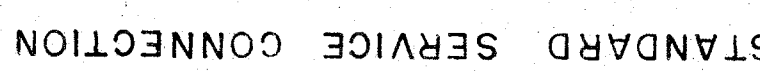
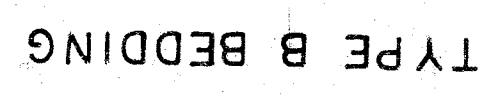
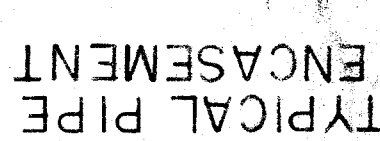
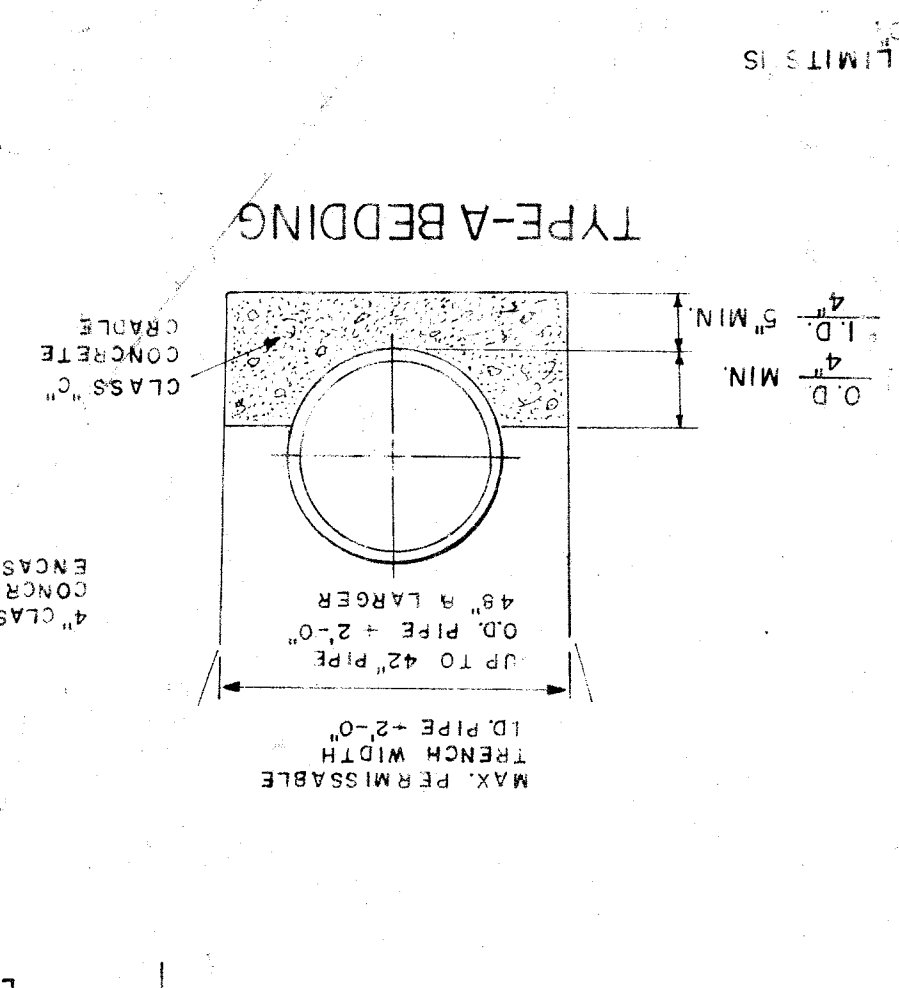
PHONE (216) 452-5731

JAMES L. COOPER
J. EDWARD JUENEMANN JR.
ROBERT A. MILLER
WILLIAM J. MEOLA
WILLIAM R. COOPER

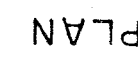
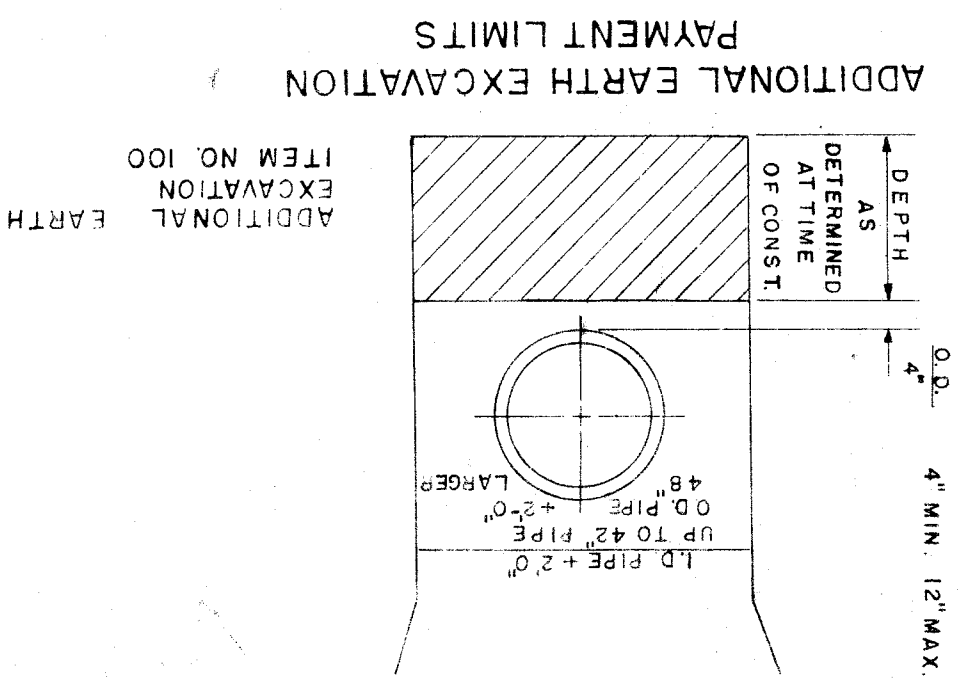
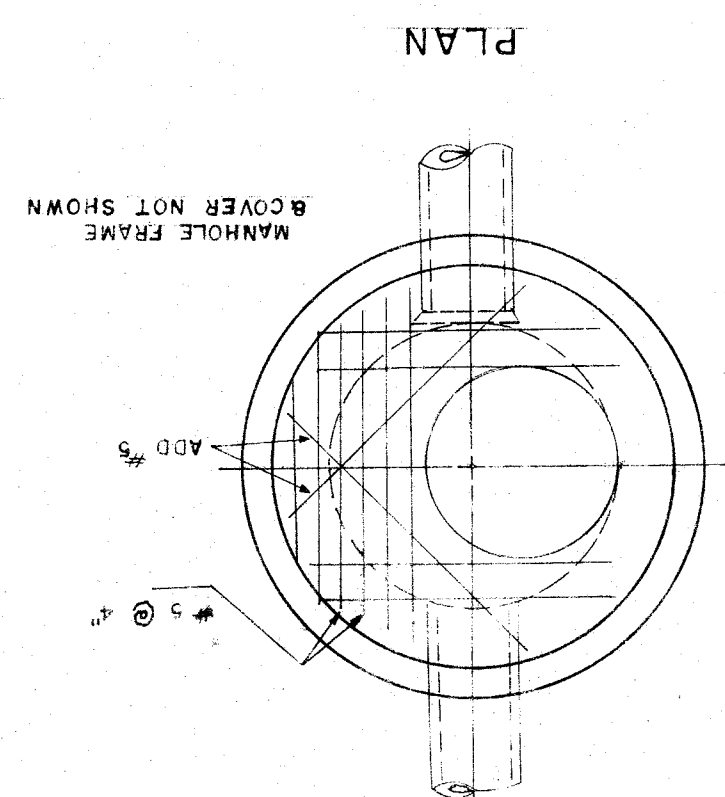
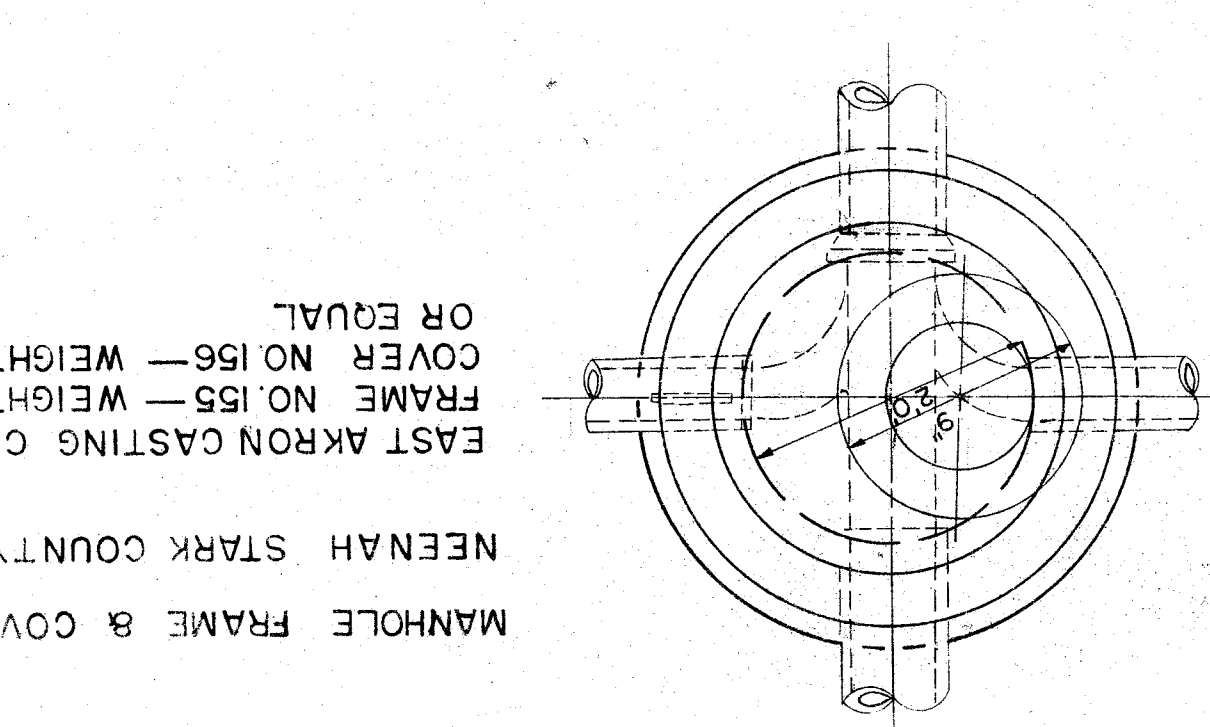
RECORD PLAT
LAKELAND HILLS NO. 2
SE. QR. SEC. 15 TWP. 11 (JACKSON) R3
STARK COUNTY, OHIO

FOR: E. BERNIER				
SURVEYED	PLATTED	FIELD BOOK	DATE	FILE
RAM	RLC	6-16	6-16	11-50
Scale 1"=50'				

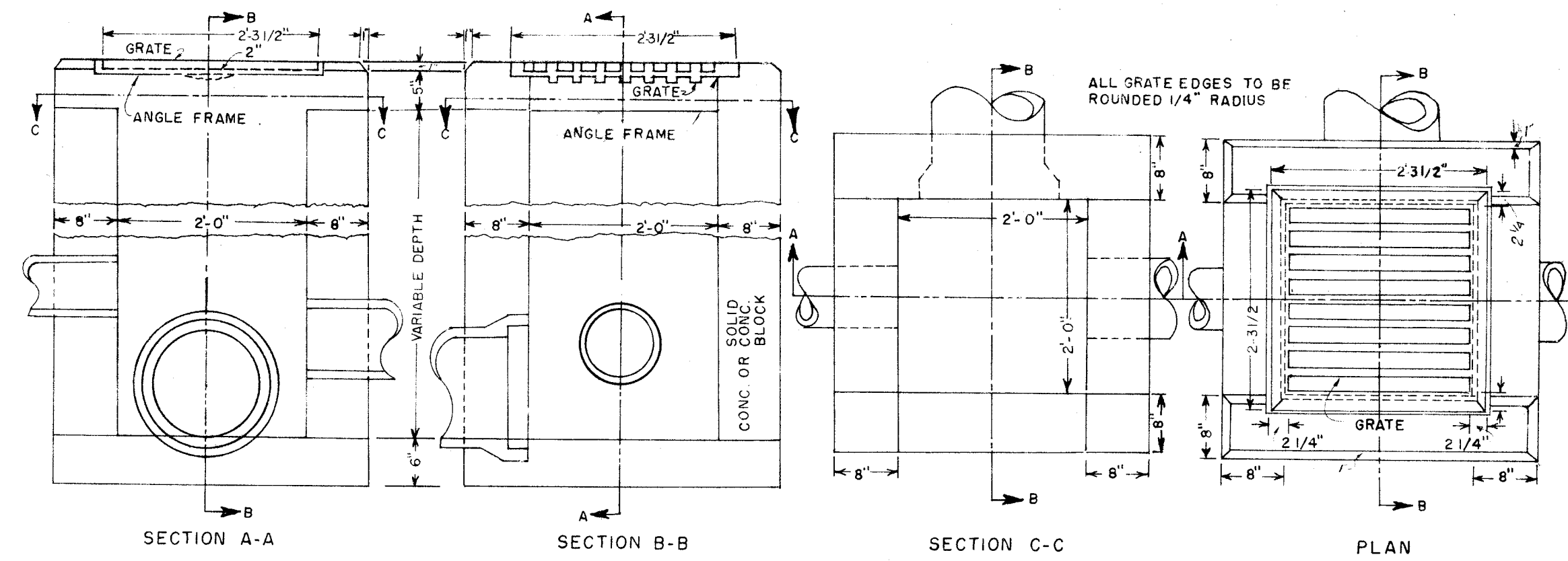
CS-121 FF50 NO 125



NOTE:
INFILTRATION RATE SHALL NOT
EXCEED 250 GAL/INDIA/MILE/DAY



STANDARD NO. 2-2-A CATCH BASIN



GRATING & FRAME SHALL MEET THE REQUIREMENTS OF ITEM 1-B. THE DESIGN SHALL BE ESSENTIALLY THE SAME AND EQUALLY AS STRONG AS THE ONE SHOWN HEREON.

WEIGHT OF GRATE, MINIMUM, 120 LBS.

WEIGHT OF FRAME, MINIMUM, 40 LBS.

CONCRETE CAST IN PLACE TO BE CLASS "C".

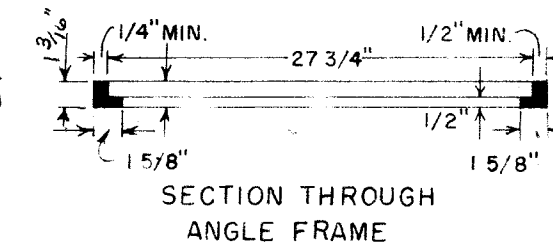
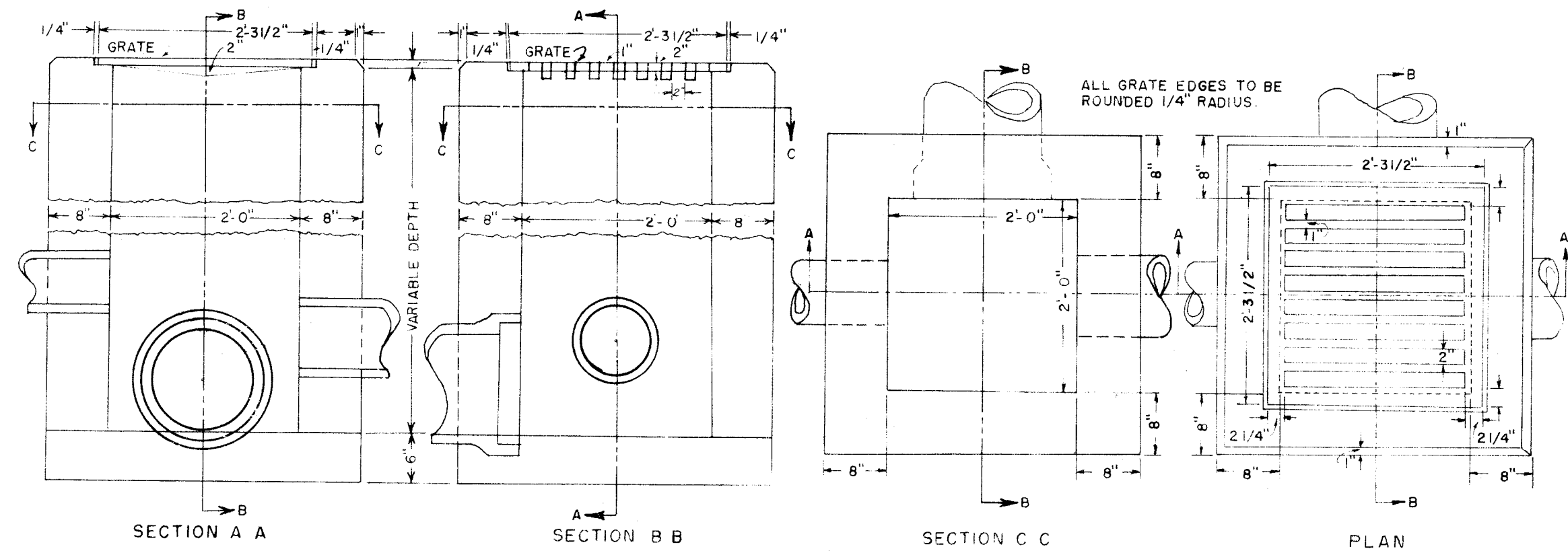
BRICK OR CONCRETE BLOCK SIDEWALLS, WHEN CAST IN PLACE OF CONCRETE, SHALL BE 8" MINIMUM IN THICKNESS WHEN BRICK OR CONCRETE BLOCKS ARE USED, THE WALLS OF THE CATCH BASIN, ABOVE THE FLOW LINE OF THE SIDE OPENING SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE.

2-2-A SIDE INLETS TO BE PLACED 4 TO 6 INCHES BELOW NORMAL ELEVATION OF MEDIAN OR DITCH FLOW LINE RETURNING TO NORMAL ELEVATION SIDE OF BASIN.

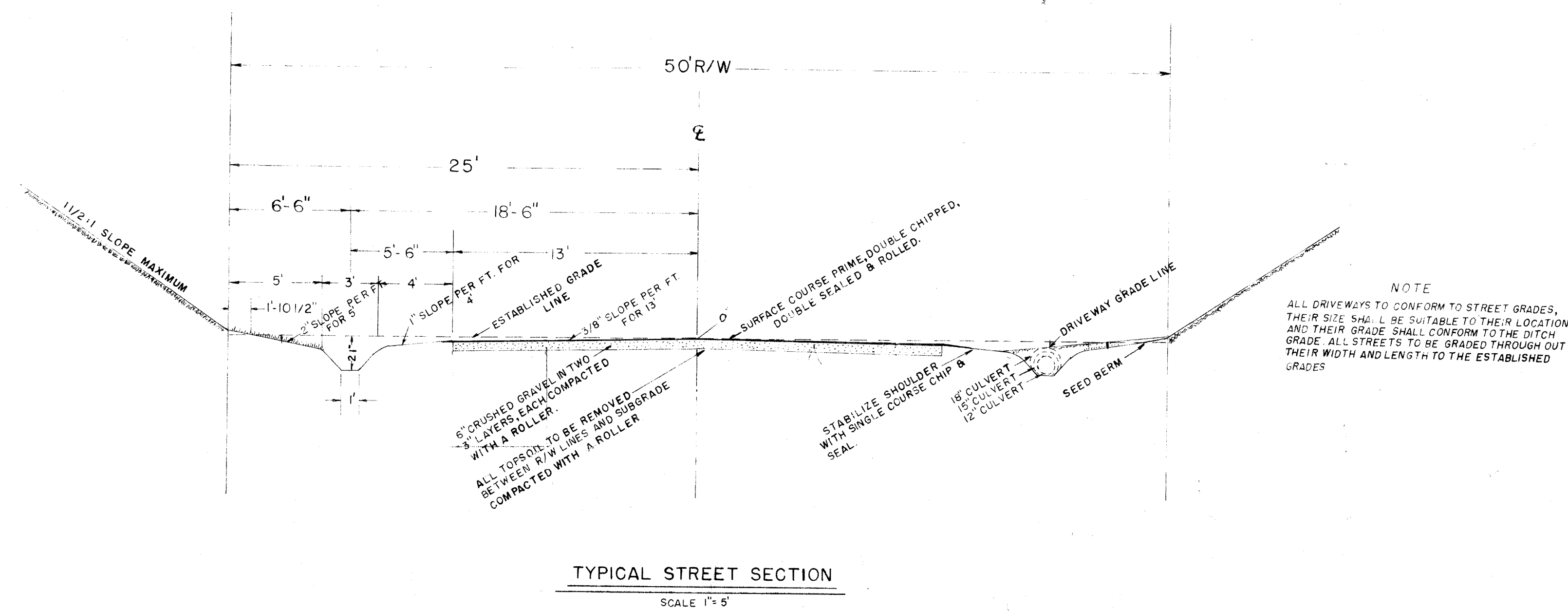
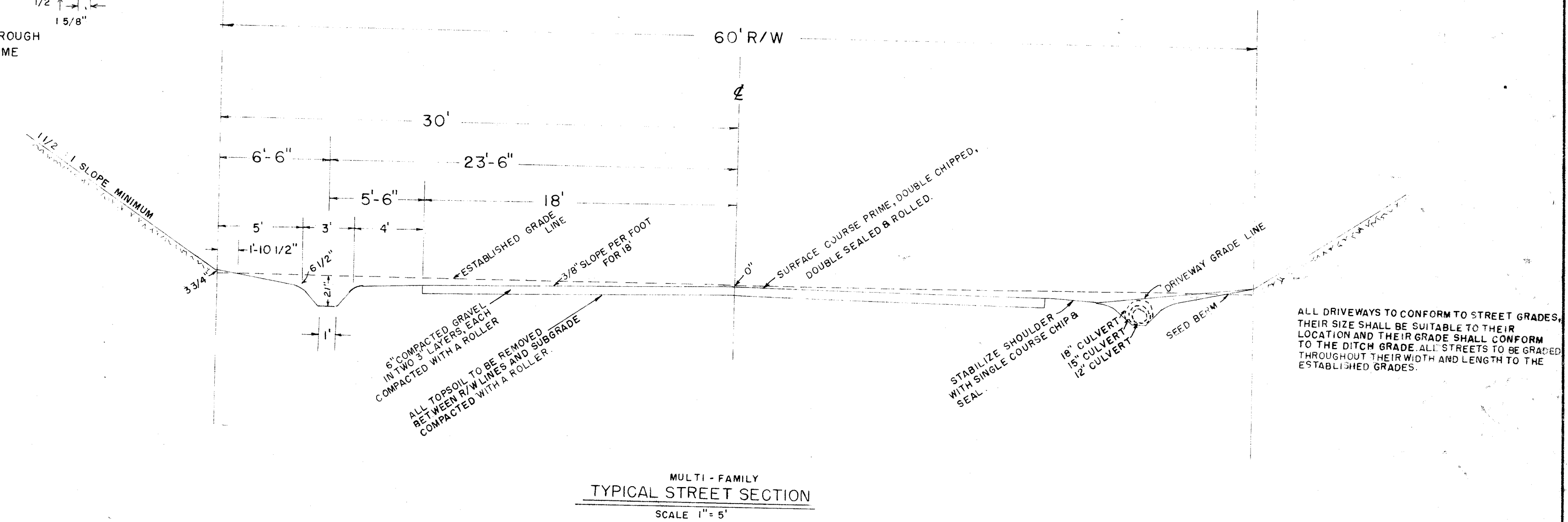
2-2-B GRATE ELEVATION TO BE PLACED 4 TO 6 INCHES BELOW NORMAL DITCH RETURNING TO NORMAL 10 FEET EACH SIDE OF BASIN.

5" INLETS SHALL BE PROVIDED ON BOTH SIDES OF THE NO. 2-2-A CATCH BASIN 10' 40' AND ON UPSIDE OF CATCH BASIN GRADE PAST THE CATCH BASIN.

STANDARD NO. 2-2-B CATCH BASIN



SECTION THROUGH ANGLE FRAME



NOTE

ALL DRIVEWAYS TO CONFORM TO STREET GRADES, THEIR SIZE SHALL BE SUITABLE TO THEIR LOCATION AND THEIR GRADE SHALL CONFORM TO THE DITCH GRADE. ALL STREETS TO BE GRADED THROUGHOUT THEIR WIDTH AND LENGTH TO THE ESTABLISHED GRADES.



L.W.J. COOPER AND ASSOCIATES
CONSULTING ENGINEERS AND SURVEYORS

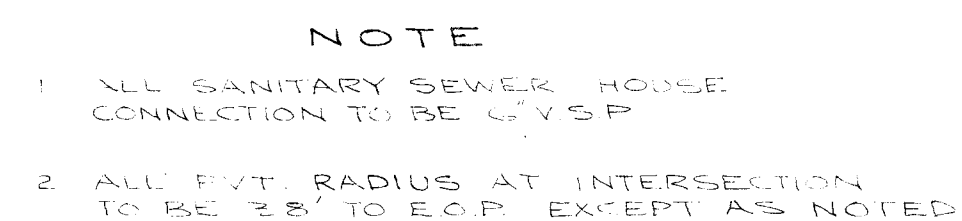
201 LINCOLN AVENUE N.W.
CANTON, OHIO 44708

PHONE (216) 452-5731
(216) 492-3303

JAMES L. COOPER
J. EDWARD JUENEMANN JR.
ROBERT A. MILLER
WILLIAM J. MEOLA

TYPICAL STREET SECTION AND CATCH BASIN DETAIL

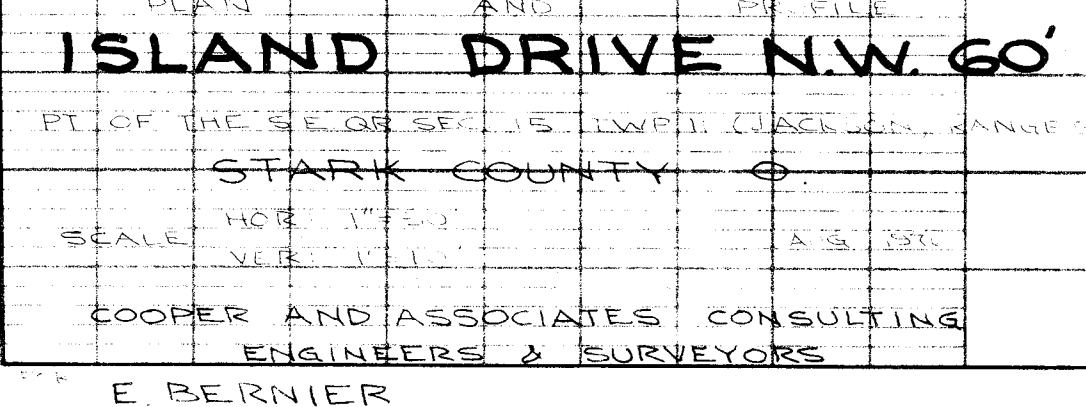
SURVEYED	PLATTED	FIELD BOOK	DATE	FILE	SCALE



APPROVED BY THE MASSILLON CITY ENG
THIS _____ DAY OF _____ 1976

MASSILLON CITY ENGINEER

B.M.
SPK. 1 UP W. SIDE P/POLF. LAKE
O-SPRINGS AND ISLAND DRIVE.
ELEV. = 1125.01



PIPE NO.	L	SIZE	KIND	RATE	INLET	OUTLET
1	20	12"	CMP	2.0%	1134.54	1134.14
2	20	12"	CMP	0.8%	1134.30	1134.14
3	35	12"	CMP	2.0%	1134.14	1133.44
4	20	12"	CMP	3.5%	1134.14	1133.44
5	20	15"	CMP	2.0%	1133.44	1133.04
6	20	15"	CMP	2.0%	1131.36	1130.96
7	20	12"	CMP	8.0%	1131.56	1130.96
8	35	15"	CMP	8.0%	1130.96	1128.06
9	20	12"	CMP	6.3%	1129.33	1128.06
10	20	15"	CMP	8.0%	1128.06	1126.46

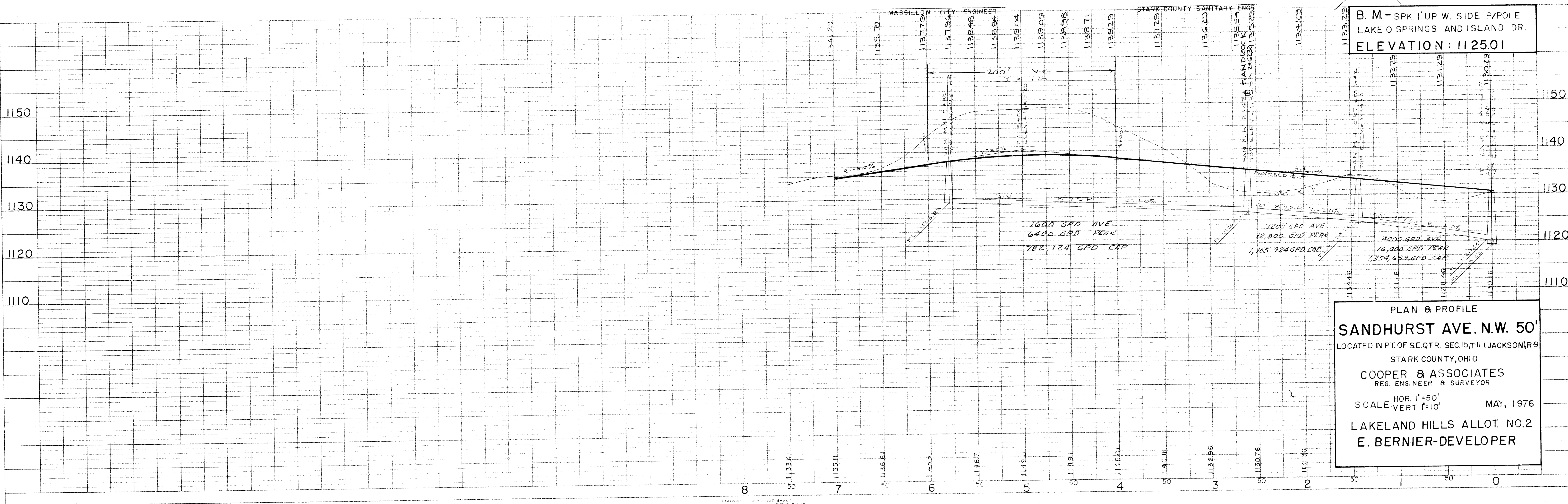
PLAN
SURVEYED
NOTE BOOK
No. 193
BY D.C. R.D.
DATE 6-76
REVISIONS
NOTED
CHECKED
BY D.C. R.D.
DATE 6-76

PROFILE
SURVEYED
NOTE BOOK
No. 193
BY D.C. R.D.
DATE 6-76
REVISIONS
NOTED
CHECKED
BY D.C. R.D.
DATE 6-76

E. BERNIER
FOR FUTURE DEVELOPMENT

APPROVED BY THE MASSILLON CITY ENGINEER
THIS DAY OF 1976.

APPROVED BY THE STARK COUNTY SANITARY
ENGR. THIS DAY OF 1976.



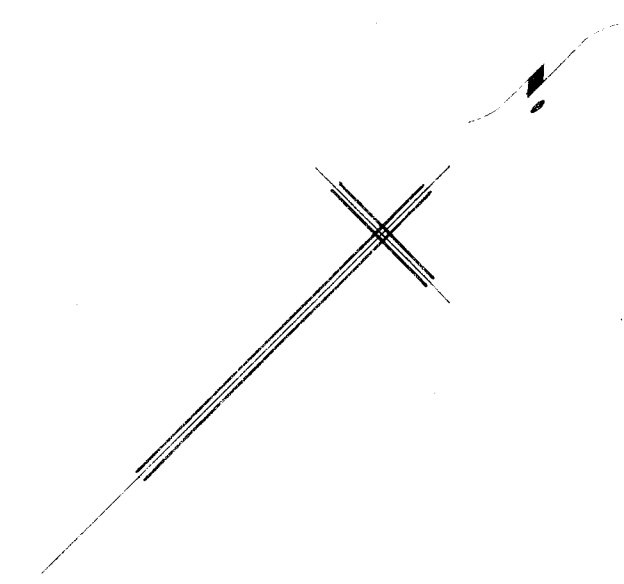
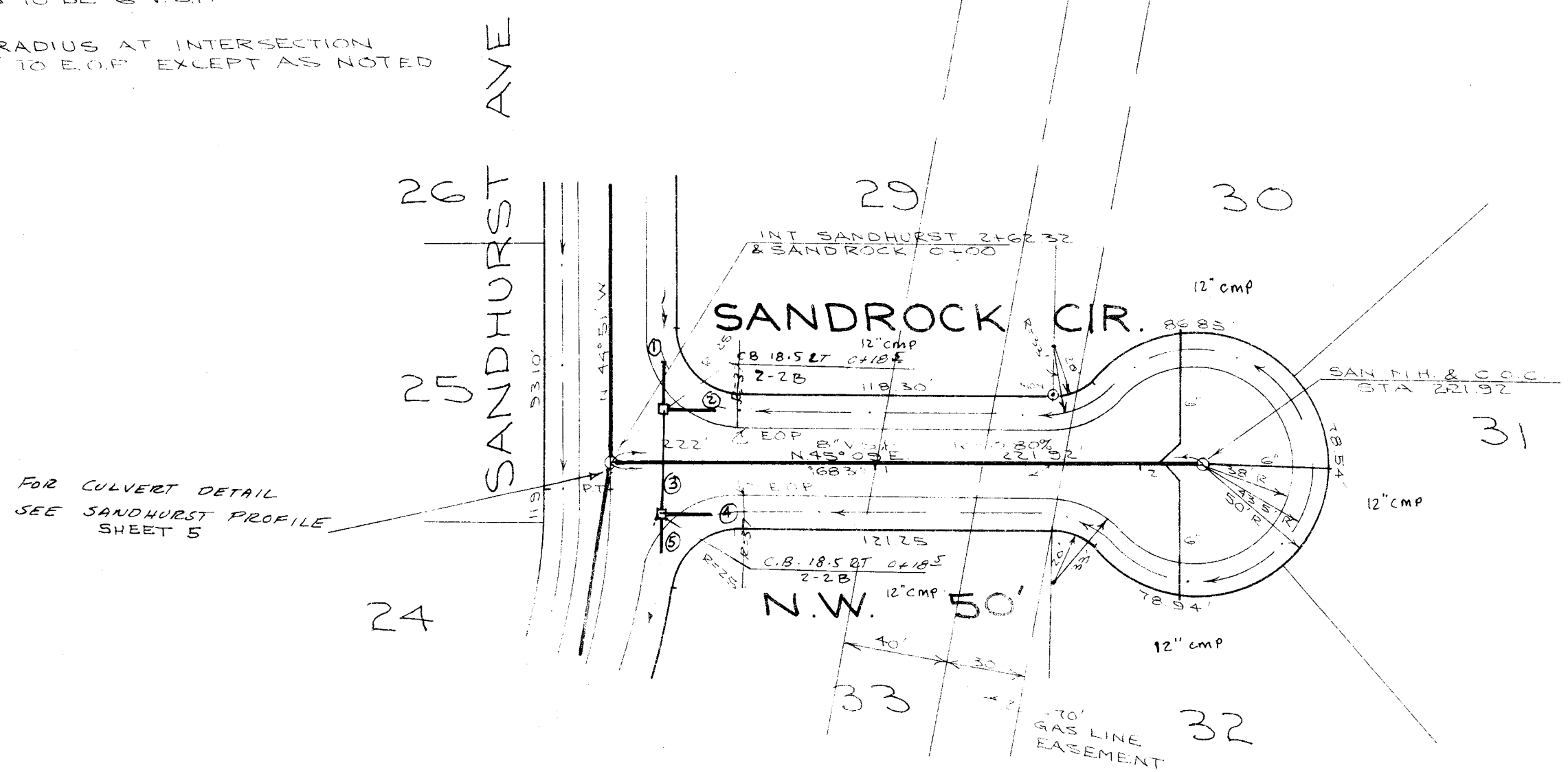
B. M. - SPK. 1' UP W. SIDE P/POLE
LAKE O SPRINGS AND ISLAND DR.
ELEVATION: 1125.01

PLAN & PROFILE
SANDHURST AVE. N.W. 50'
LOCATED IN PT. OF SE. QTR. SEC. 15, T. 11 (JACKSON), R. 9
STARK COUNTY, OHIO
COOPER & ASSOCIATES
REG. ENGINEER & SURVEYOR
SCALE: HOR. 1"=50'
VERT. 1"=10'
MAY, 1976
LAKELAND HILLS ALLOT. NO. 2
E. BERNIER-DEVELOPER

PLAN
NO. 153
SANDHURST & SANDROCK CIRC.
STARK COUNTY, MISSISSIPPI

NOTE

- 1. ALL SANITARY SEWER HOUSE CONNECTION TO BE 6" V.S.P.
- 2. ALL P.V.T. RADIUS AT INTERSECTION TO BE 38' TO E.O.P. EXCEPT AS NOTED

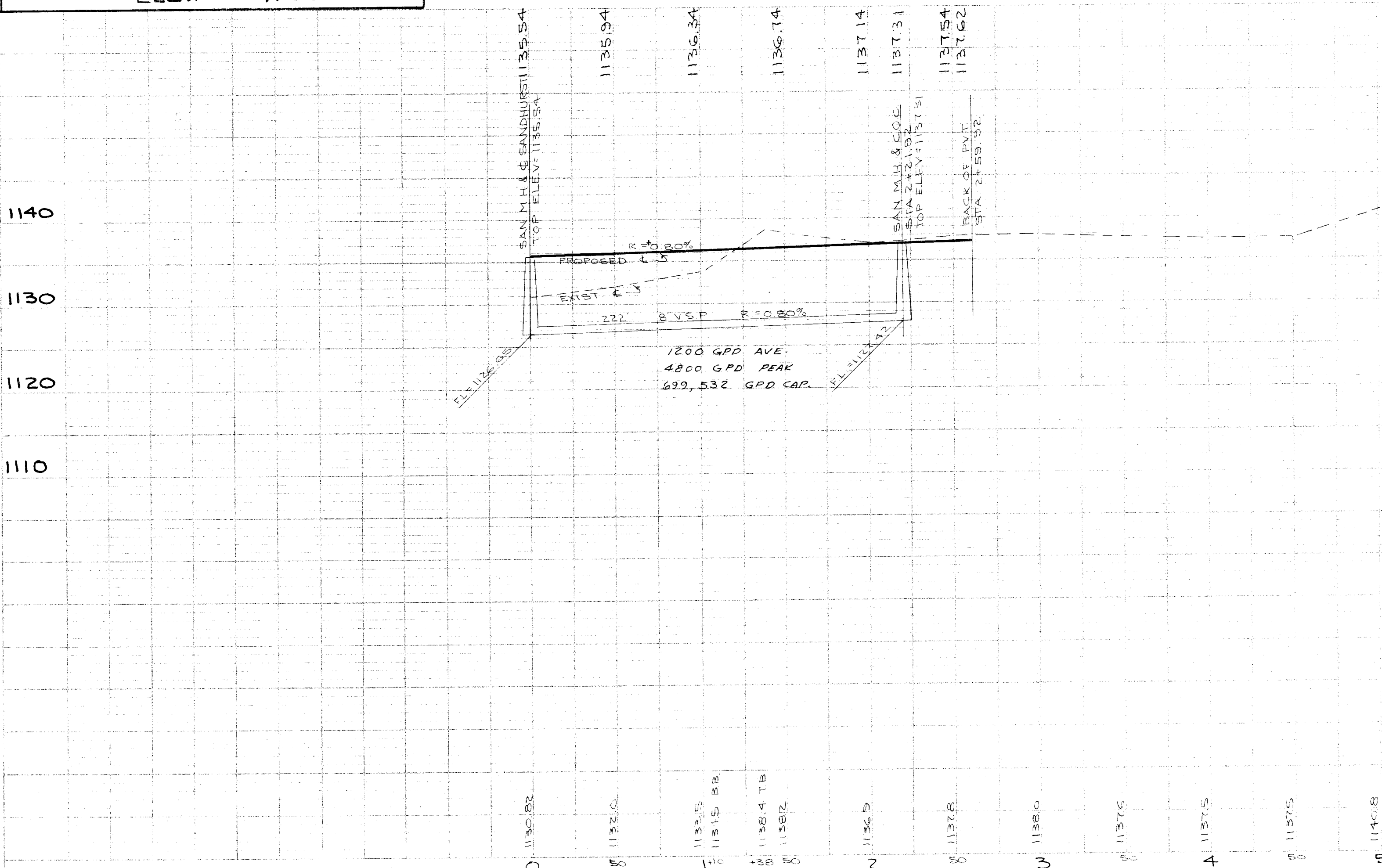


B.M.
SPK 1 UP W. SIDE P/POLE LAKE-
J-SPRINGS AND ISLAND DRIVE.
ELEV. = 1123.01

APPROVED BY THE MASSILLON CITY ENGINEER
THIS DAY OF 1976
MASSILLON CITY ENGINEER

APPROVED BY THE STARK COUNTY SANITARY ENGINEER
THIS DAY OF 1976
STARK COUNTY SANITARY ENGINEER

PROFILE
NO. 153
SANDHURST & SANDROCK CIRC.
STARK COUNTY, MISSISSIPPI



PLAN AND PROFILE
SANDROCK CIR N.W. 50'
PT. OF THE SE. COR. OF TWP. 11 (JACKSON) RANGE 9
STARK COUNTY, MISSISSIPPI
SCALE: HOR. 1"=50' VER. 1"=10' AUG. 1976
COOPER AND ASSOCIATES CONSULTING
ENGINEERS & SURVEYORS
FOR E. BERNIER