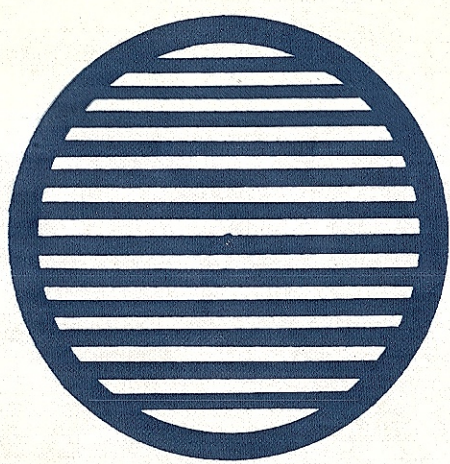
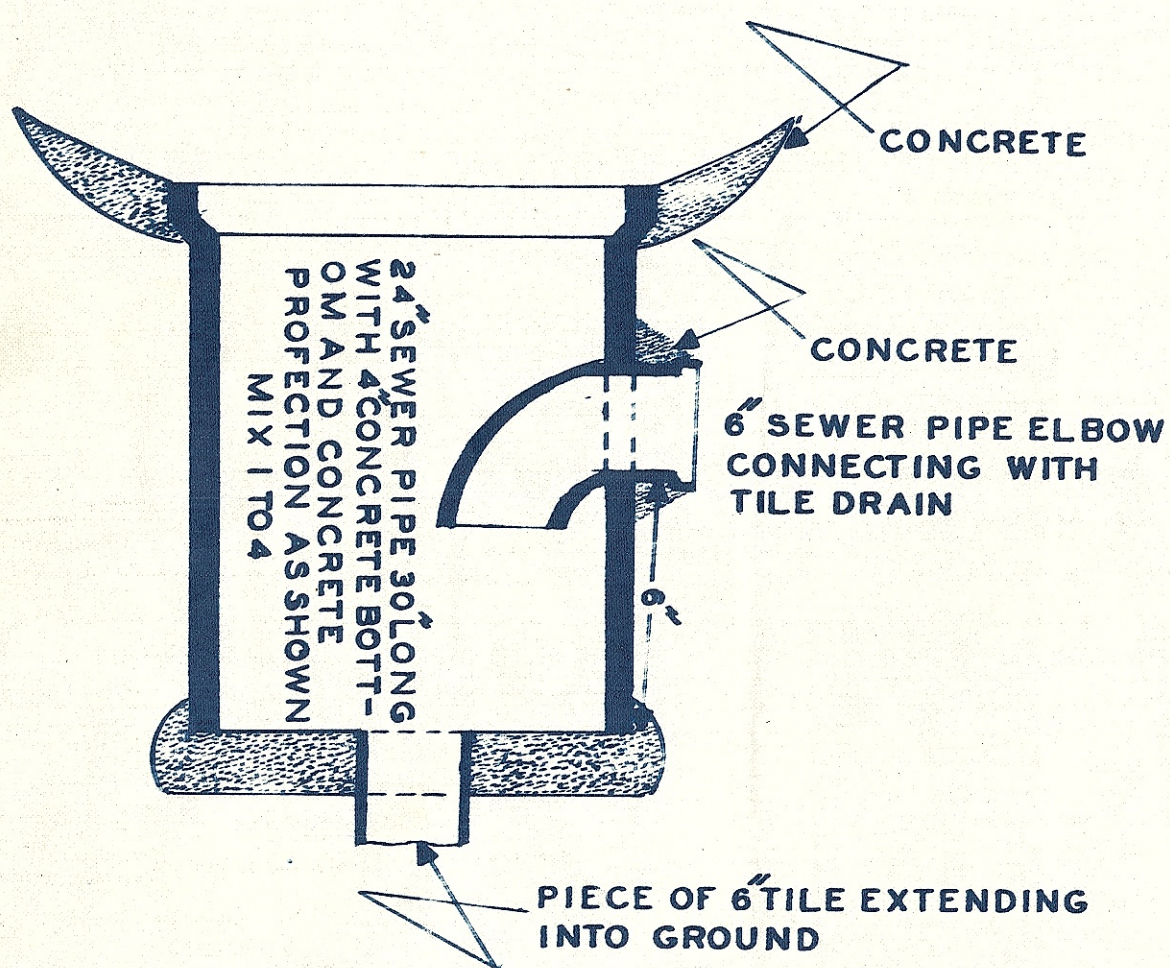




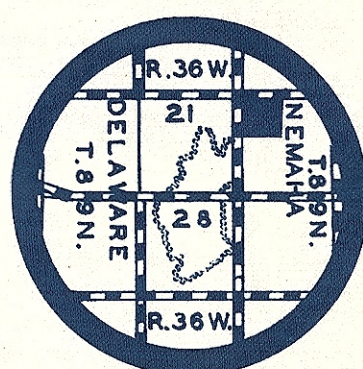
IRON TOP GRATING TO FIT TILE MAY BE CAST OR MADE OF BARS BARS SHOULD NOT BE LESS THAN 1/2" OF THICKNESS OF CAST IRON LESS THAN 3/4"

STANDARD CATCH BASIN
TO BE USED IN CONNECTION WITH REGULAR TILE DRAINS

SEC.	LOCATION	LENGTH	SIZE	AV. D.
1	MAIN	2700	20	5.74
1	"	1300	18	5.10
1	"	200	12	5.75
1	"	1500	15	5.10
1	"	500	14	4.10
1	"	500	12	4.10
1	"	500	10	4.20
1	"	300	12	4.10
1	"	270	10	4.10
1	"	130	8	4.15
1	"	300	6	4.00
1	"	900	7	4.40
1	"	500	8	4.20
1	"	417	5	4.30
1	CONCRETE BULKHEAD			
2	LAT. A	59.5	8	4.30
2	LAT. B	75.0	7	5.40
2	LAT. C	145	6	4.90
2	LAT. D	89.4	6	3.75
2	LAT. E	25.0	6	4.00
2	LAT. F	146.4	6	4.05
2	LAT. G	19.1	6	4.10
2	4 CATCH BASINS			

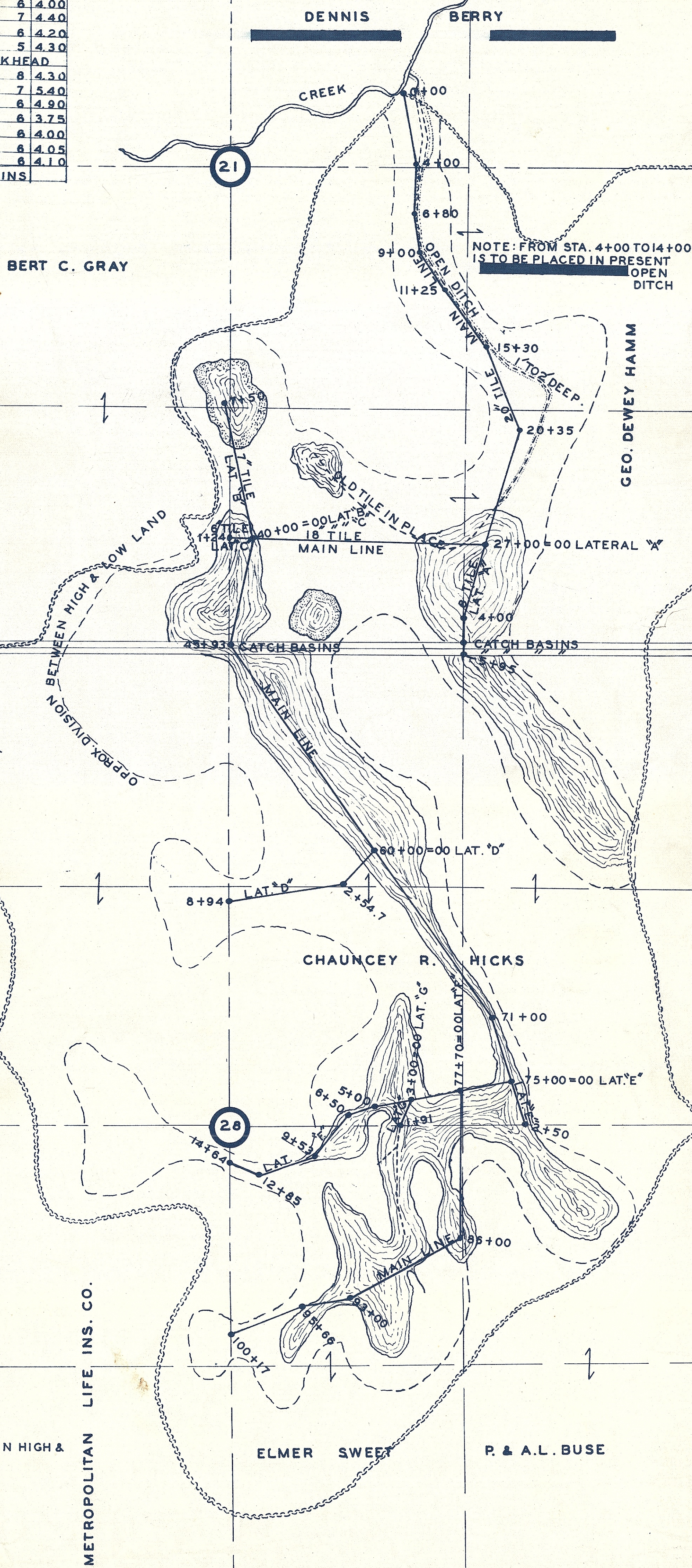


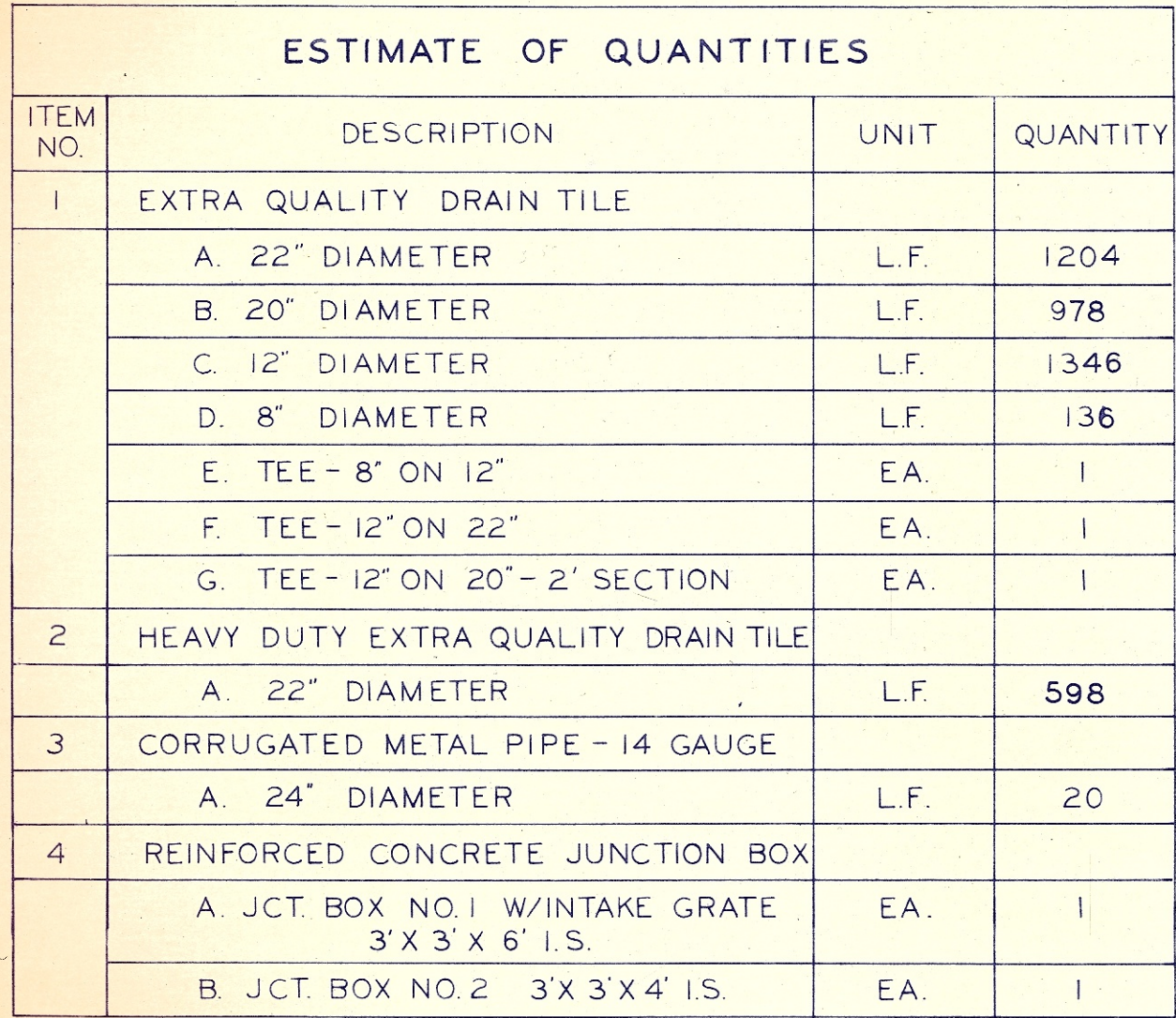
SCALE 1" = 400 FT.



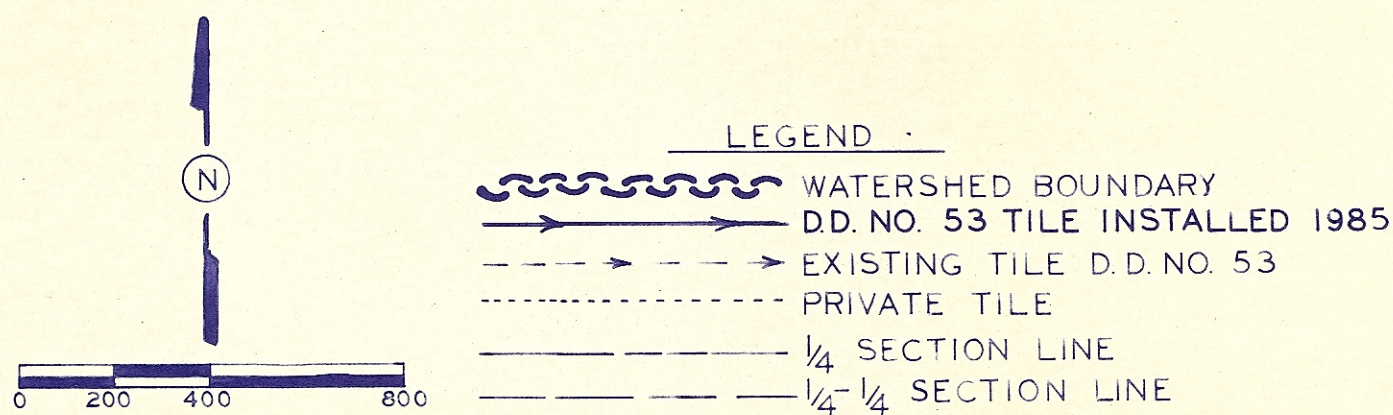
LEGEND

- SWAMP
- WET LAND
- OPPROX. DIVISION BETWEEN HIGH & LOW LAND
- BOUNDARY LINE
- PROPOSED NEW TILE
- OLD TILE IN PLACE





TILE LINES, CROSSED AND TIED INTO NEW MAIN TILE LINE					
STA.	SIZE	SILT	FLOW	GROUND TO TOP	OTHER NOTES
5+05	5" CLAY	1 1/2"	SW TO NE	3 1/2'	
5+27	6" CLAY	0	E-SE TO W-NW	4'	
5+48	8" CLAY	5 1/4"	S TO N	4'	HOOKEED IN AT 5+60
6+12	8" CLAY	4"	S TO N	4 1/2'	HOOKEED IN AT 6+42
9+00	8" CLAY	4"	S-SE TO N-NW	5'	PARALLEL 3' RT. - NOT HOOKEED IN
11+60	6" CONC.	0	E TO W	4'	
14+33	4" CLAY	0	E-NE TO W-SW	3 1/2'	
16+42	8" CLAY	0	SE TO NW	5'	HOOKEED IN AT 16+52
16+51	6" CONC.	0	E TO W	5 1/2'	HOOKEED IN AT 16+50
19+01	10" CONC.	0	E TO W	5'	
21+60	8" CLAY	0	S TO N	3 1/2'	BLOCKED & TILE REMOVED 21+60 TO 22+60
22+60	8" CLAY	0	S-SW TO N-NE	3 1/2'	
24+50	7" CLAY	5"	S-SW TO N-NE	4'	
27+25	4" CLAY	1 1/2"	S TO N	3 1/2'	
27+80	6" CONC.	1 1/2"	SE TO NW	2 1/4'	
28+25	8" CONC.	1 1/2"	S-SW TO N-NE	2 1/2'	LAT-A
28+52	5" CLAY	2 3/4"	SE TO NW	2'	
29+48	5" CLAY	2 3/4"	S-SW TO N-NE	2'	
29+54	7" CLAY	3"	SW TO NE	2 1/2'	
29+60	5 1/2" CLAY	4 1/2"	NW TO SE	2 1/2'	HAD BEEN HOOKEED INTO
31+02	5" CLAY	1"	W-SW TO E-NE	2'	
36+95	5" CLAY	3"	W-NW TO E-SE	3 1/2'	
38+25	5" CLAY	0	SW TO NE	4'	



NOTE: ACRES OF PARCELS SHOWN ON
PLAT DO NOT INCLUDE ROAD R.O.W.

REV NO	DATE	BY	CHK	DESCRIPTION
REVISIONS				
RECORD DRAWING - DRAINAGE IMPROVEMENTS DRAINAGE DISTRICT NO 53 SAC COUNTY, IOWA				
				
DESIGNED BY DRAWN MH CHECKED BV APPROVED RH		DATE NOV. 1985		
DWG NO 84 - 76		SCALE AS SHOWN		
SHEET 1 OF 2				

I hereby certify that this plan, specification or report was prepared by me or under my direct personal supervision and that I am a duly Registered Professional Engineer under the laws of the state of IL IL
Date 4/17/96 Reg. No. 9936
Ronald D. Packer