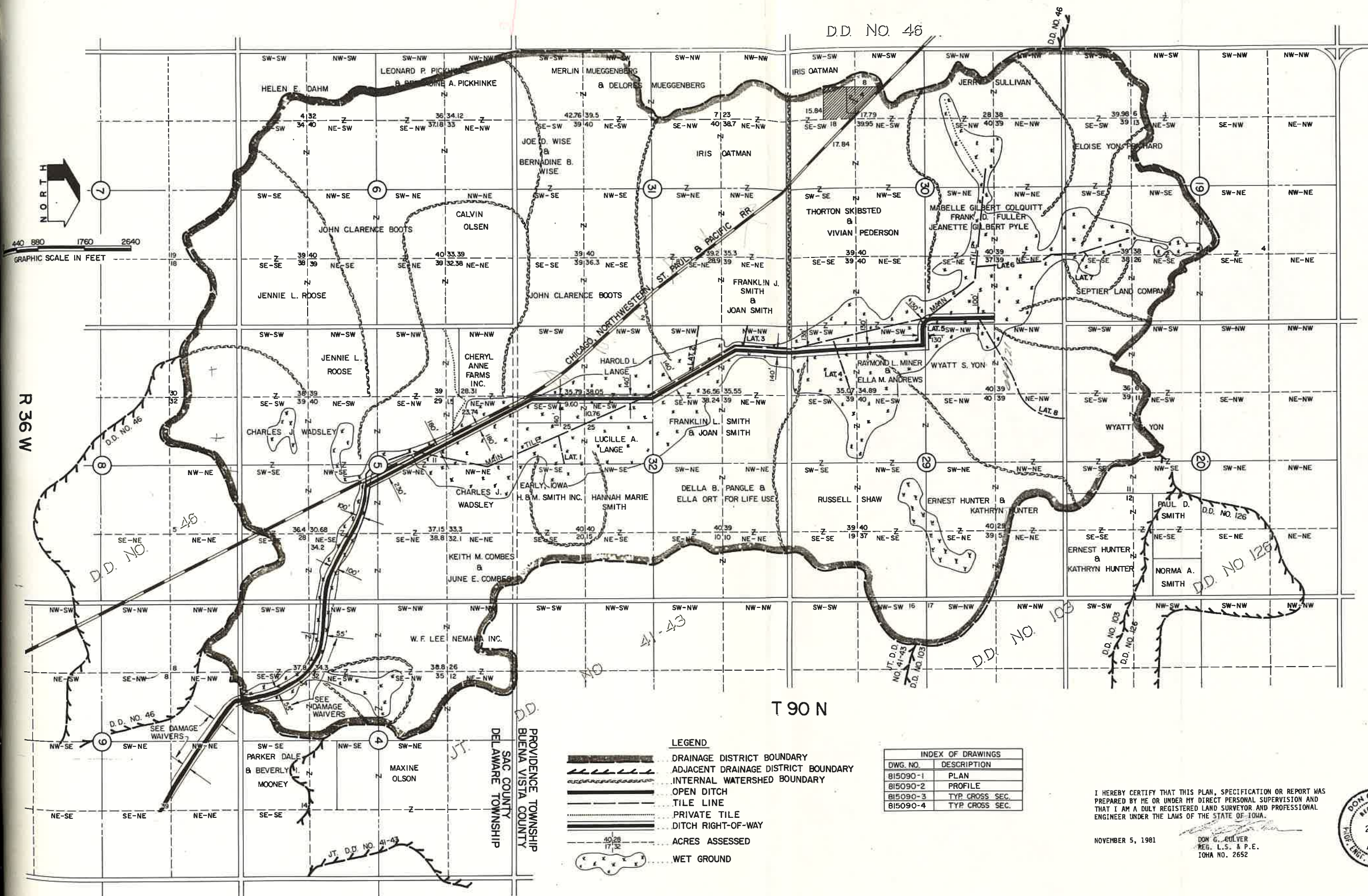


R 36 W

T 89 N

T 90 N

- LEGEND**
- DRAINAGE DISTRICT BOUNDARY
 - ADJACENT DRAINAGE DISTRICT BOUNDARY
 - INTERNAL WATERSHED BOUNDARY
 - OPEN DITCH
 - TILE LINE
 - PRIVATE TILE
 - DITCH RIGHT-OF-WAY
 - ACRES ASSESSED
 - WET GROUND

INDEX OF DRAWINGS	
DWG. NO.	DESCRIPTION
815090-1	PLAN
815090-2	PROFILE
815090-3	TYP. CROSS SEC.
815090-4	TYP. CROSS SEC.

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 LAND SURVEYOR AND PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

NOVEMBER 5, 1981

DON G. CULVER
REG. L.S. & P.E.
IOWA NO. 2652



PROJECT 20228 J

DATE 11/81

815090-1

ASSOCIATED ENGINEERS, INC.

ARCHITECTS - ENGINEERS - LAND SURVEYORS - SOILS ENGINEERS & GEOLOGISTS - CHEMISTS - LANDSCAPE ARCHITECTS & PLANNERS

PROPOSED JOINT DRAINAGE DISTR.

BUENA VISTA-SAC COUNTY

PLAN

ARCHITECT

DGC

DESIGNER

FB

DRAWN

MR. L.

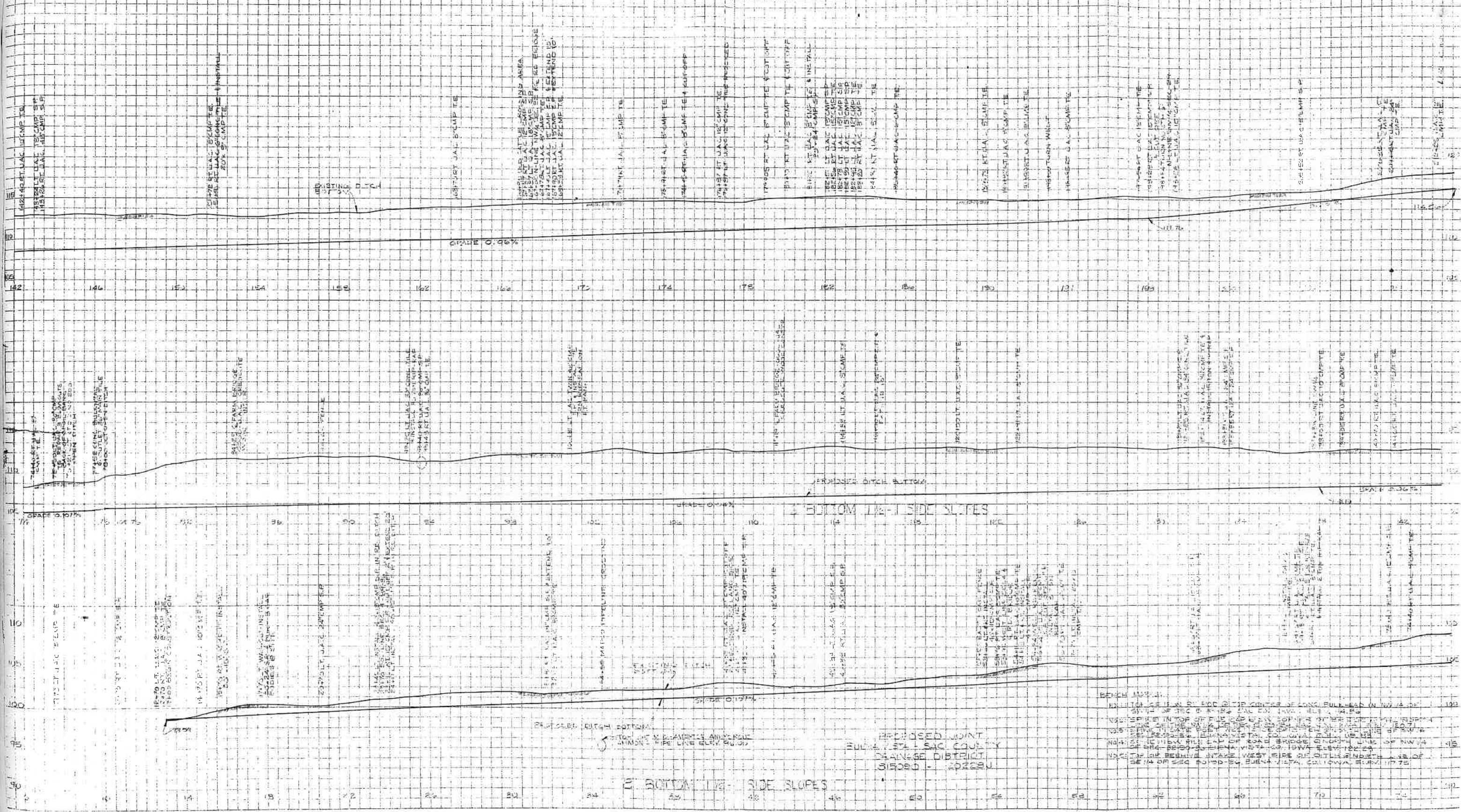
CHECKED

DGC

REVISIONS

BY

DATE



BENCH MARK
NO. 1011 SEE IN W. 1/4 SEC. 10, T. 10 N., R. 10 E., S. 10 W.
ELEVATION 1011.00
NOTE: THIS BENCH MARK IS LOCATED IN THE CORNER OF THE SECTION. IT IS A CONCRETE PILE DRIVEN INTO THE GROUND. THE ELEVATION IS MEASURED FROM THE MEAN SEA LEVEL.

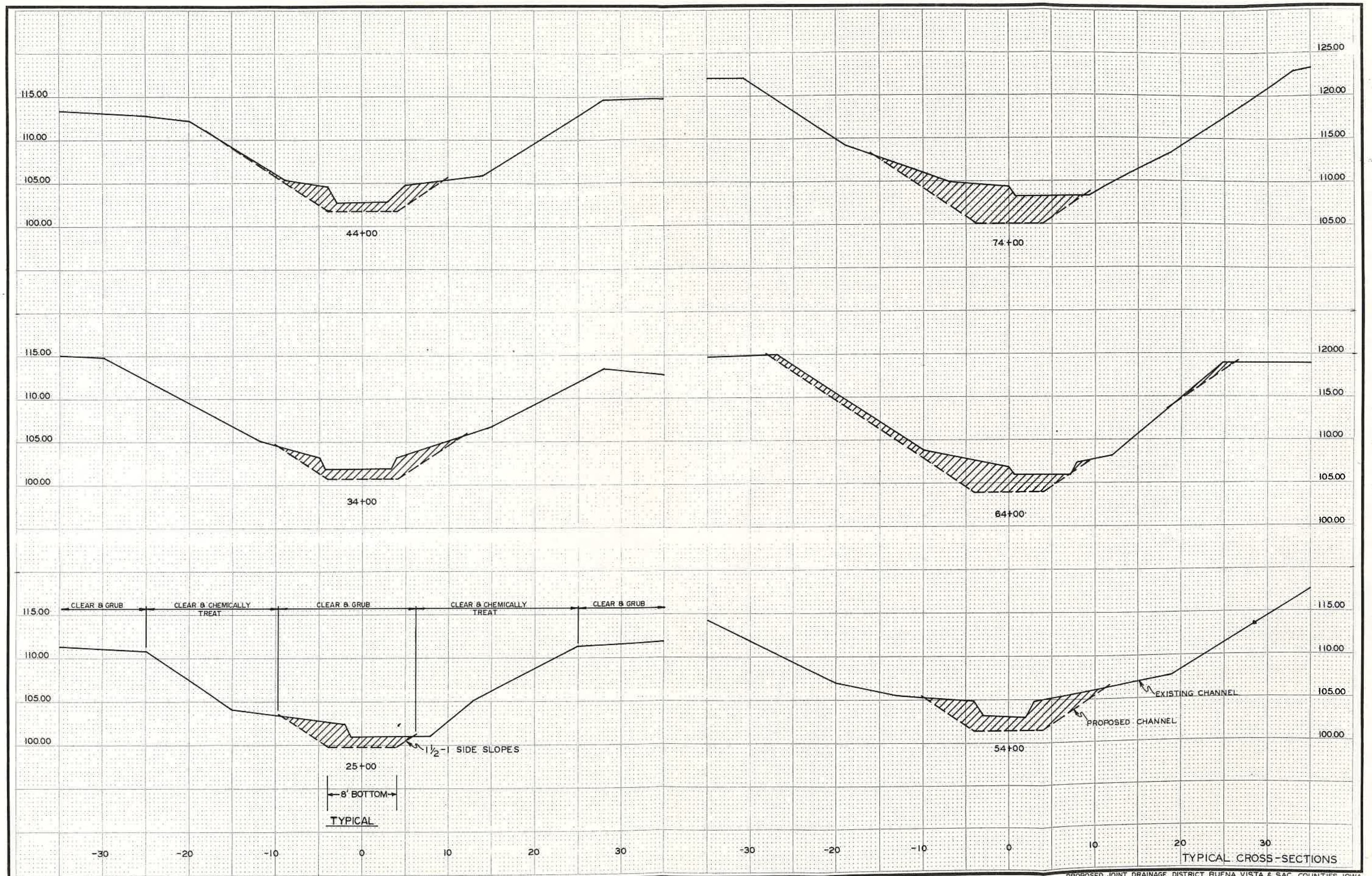
PROPOSED MOUNT
BUTTERED MOUNT
DRAINAGE DISTRICT
SUGAR CREEK

2 BOTTOM 1/2 SIDE SLOPES

PROPOSED DITCH BOTTOM

PROPOSED DITCH BOTTOM

PROPOSED DITCH BOTTOM



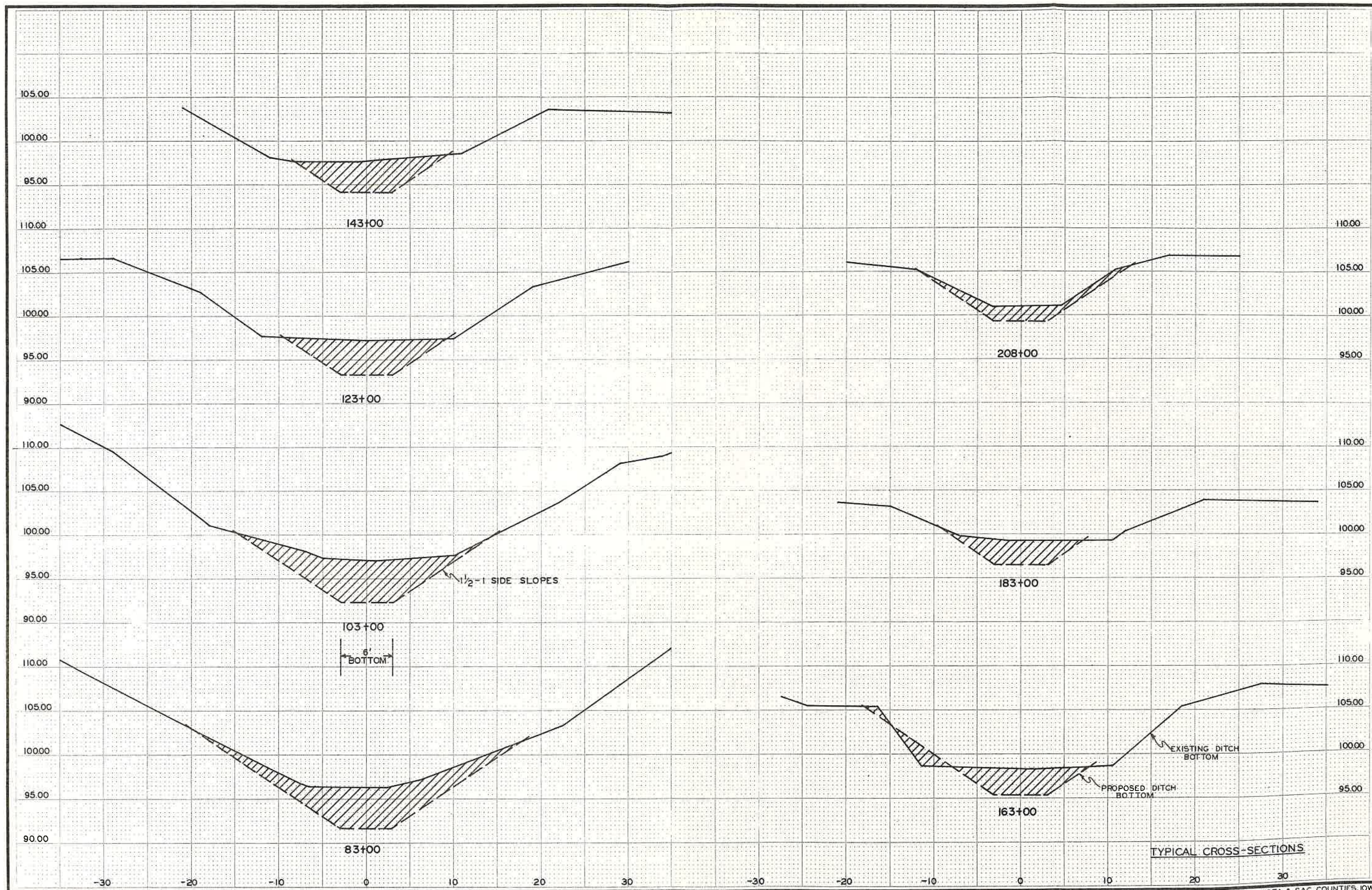
PROPOSED JOINT DRAINAGE DISTRICT BUENA VISTA & SAC COUNTIES IOWA

20228 J


OTTO & CULVER
 INCORPORATED
 ENGINEERS, ARCHITECTS, LAND SURVEYORS

DWG. NO. 815090-3

REV.

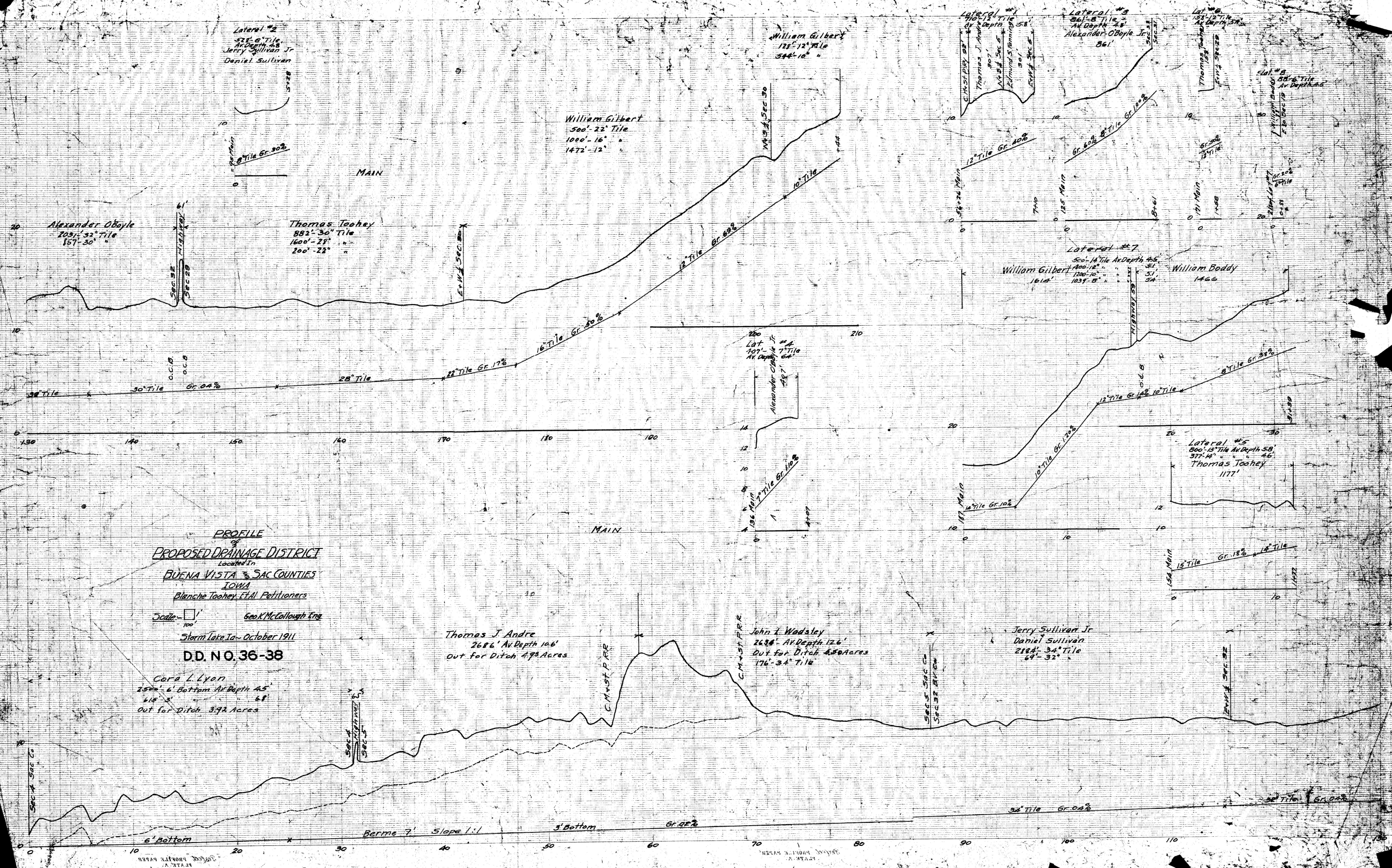


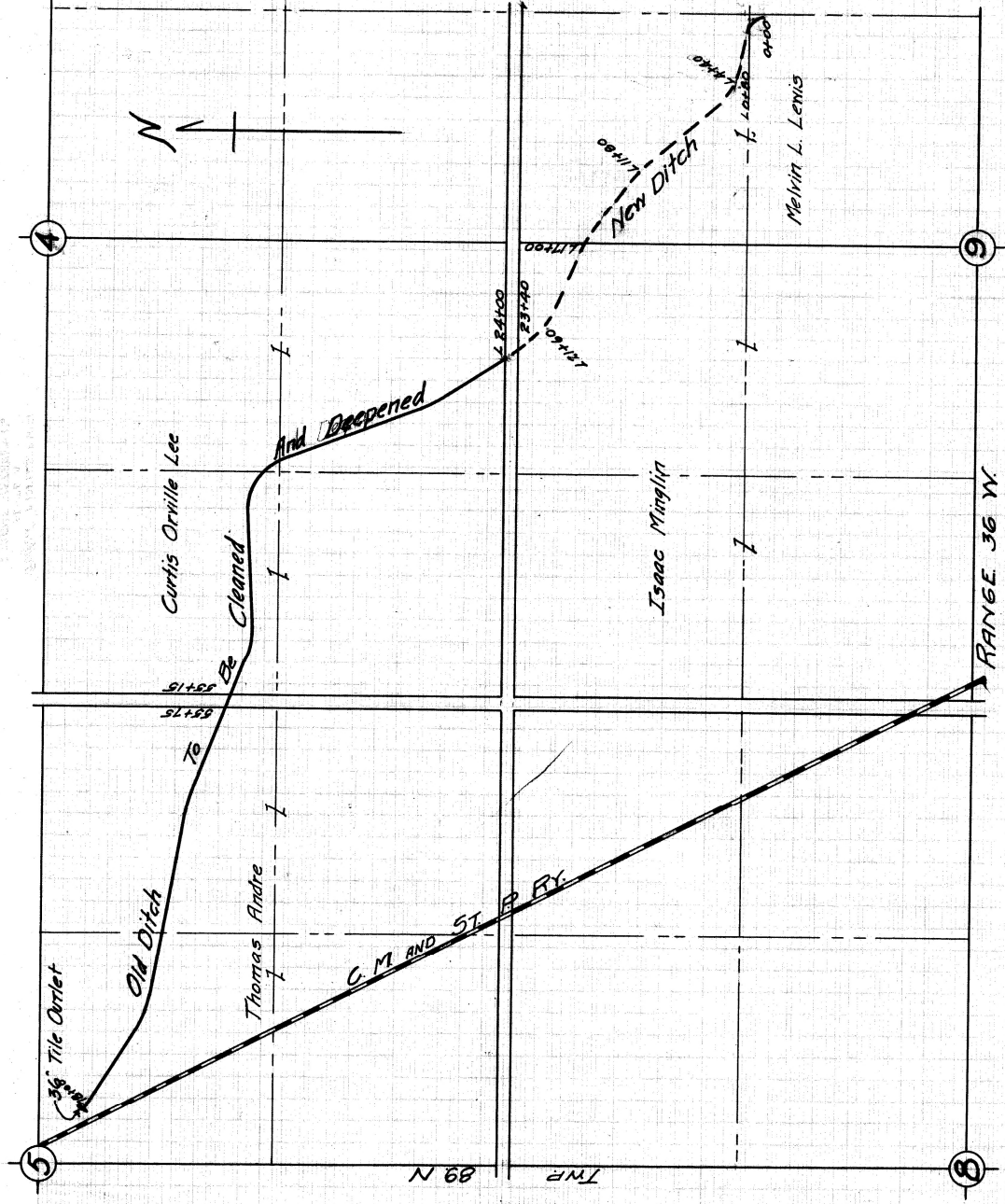
PROPOSED JOINT DRAINAGE DISTRICT BUENA VISTA & SAC COUNTIES, IOWA

20228J

OTTO & CULVER
815090-4

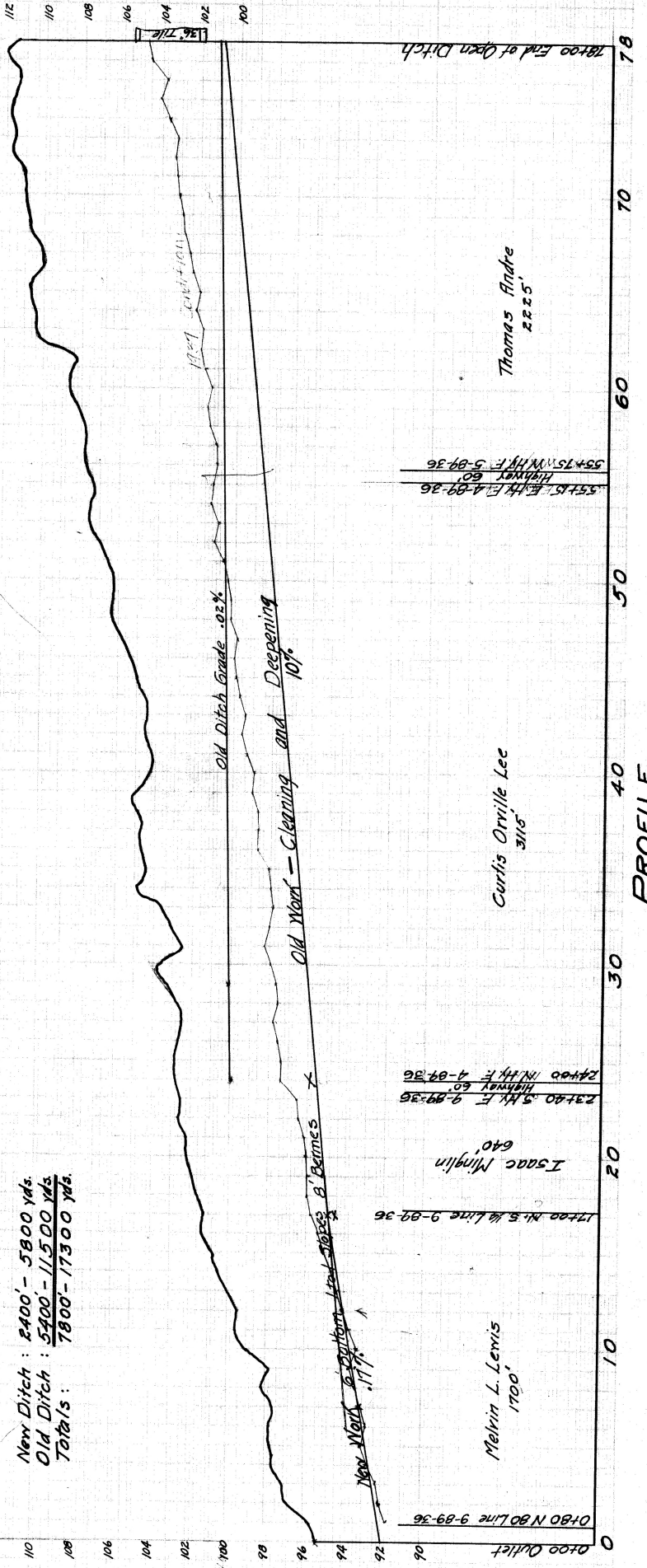
REV.





MAP
Scale: 1"=500'

New Ditch : 2400' - 5800 Yds.
Old Ditch : 5400' - 11500 Yds.
Totals : 7800' - 17300 Yds.

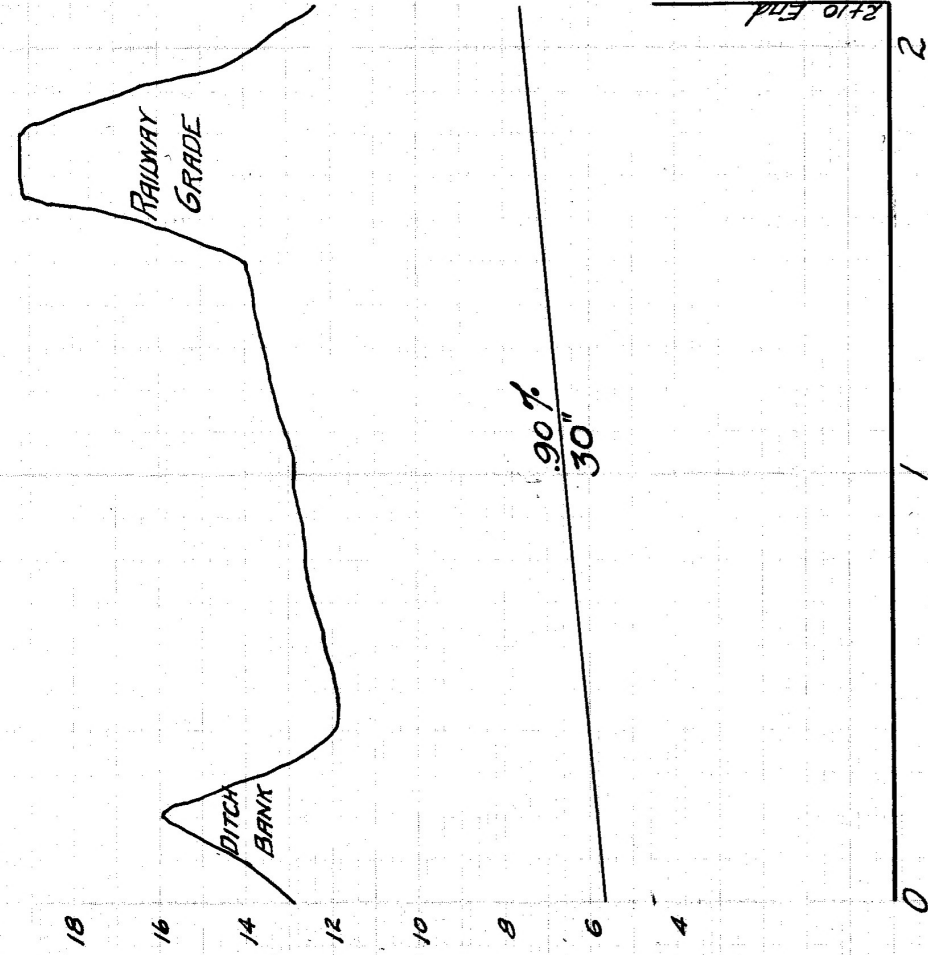


PROFILE
Scales: Hor 1"=400', Vert 1"=4'

210' - 30" TILE, AV. DEP 740 GR. DEP 1200
14 Cu Yds OF CONCRETE IN 2 BULKHEADS

Note: The tile average shown above includes the
railway embankment and nothing extra will
be paid for going under it.

This tile is located near the center of Section 5-89-36
at the upper end of the open ditch



PROFILE OF COLLECTING TILE

DRAINAGE DISTRICT

36-38

Storm Lake Ia. Dec. 1916.

A.H. Cunningham Engr.