

VILLAGE OF LITTLE CANADA

RAMSEY COUNTY

MINNESOTA

CO. DITCH #16

MAYOR PERRY MAKEEFF
CLERK JOSEPH CHLEBECK
TRUSTEES RICHARD ANDERSON
ROBERT DEBACE
ROBERT RUDY

INDEX

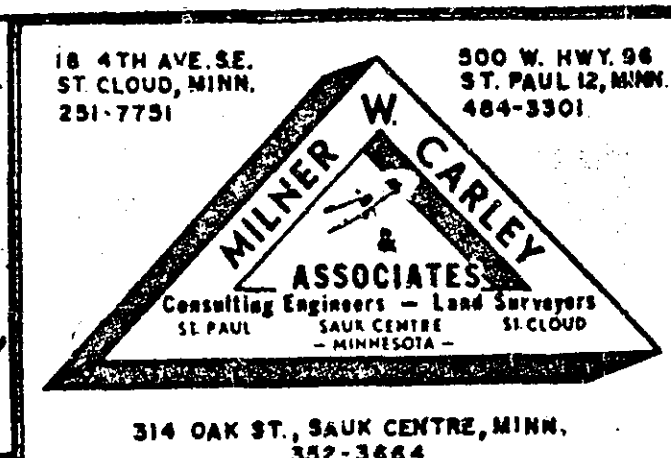
| Sheet No. | Title |
|-----------|--------------------------------|
| 1. | Title Sheet |
| 2. | Location Map |
| 3. | Typical Details |
| 4. | Typical Details |
| 5-20 | Plane, Profile & Cross Section |

TITLE SHEET

MICROFILMED
RAMSEY CO. ENGR.

I hereby certify that this plan, specification, survey, or description was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer Land Surveyor under the laws of the State of Minnesota.

Date: Nov 12, 1972
Reg. No. 3527



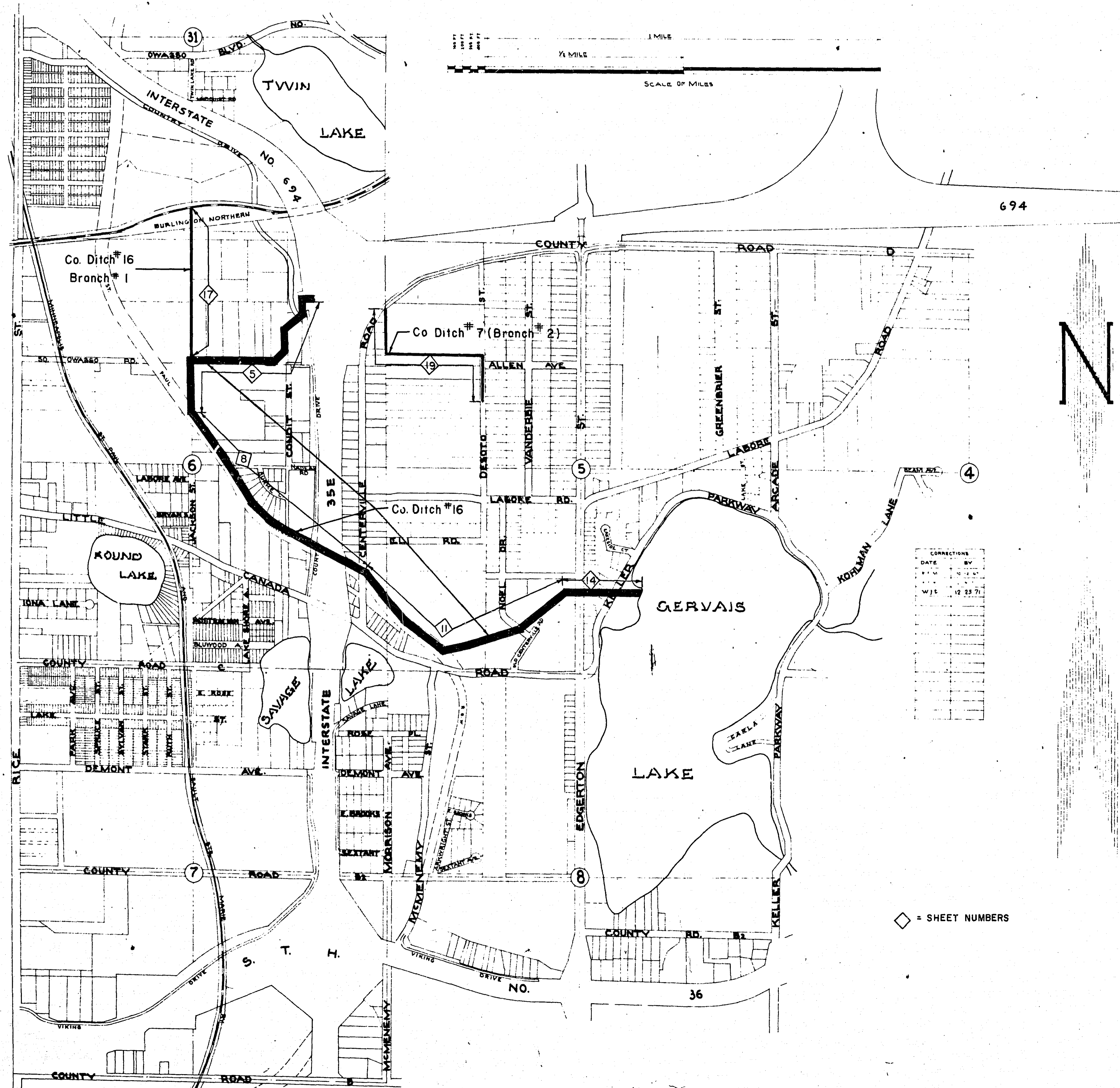
Survey By DT
Designed By G G B W W
Drawn By D G P B S C
Approved By D O C
Revisions

R-236

SHEET 1 OF 20 SHEETS

Project No. 68-288

VILLAGE OF LITTLE CANADA MINNESOTA



LOCATION SHEET

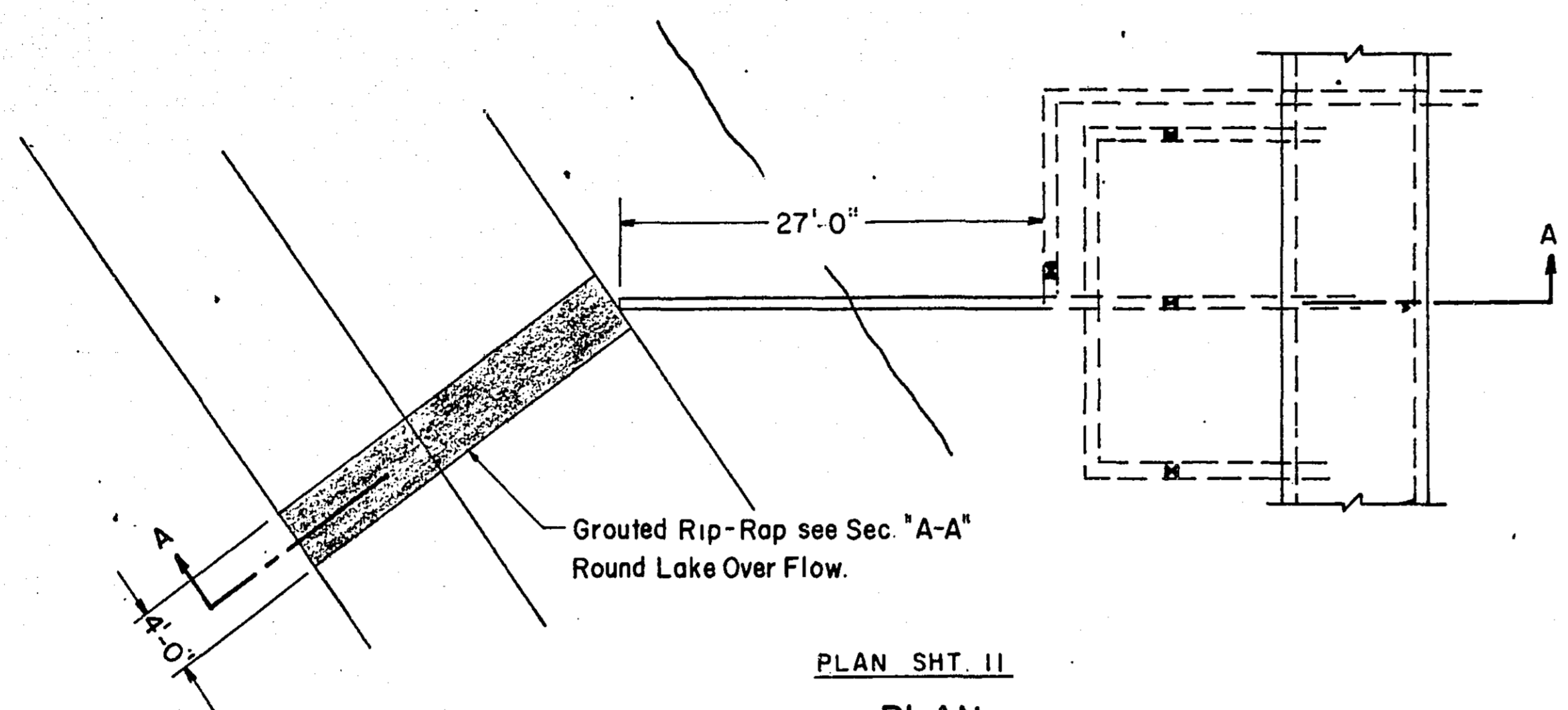
MICROFILMED
RAMSEY CO. ENGR.

MILNER W. CARLEY & ASSOCIATES
CONSULTING CIVIL ENGINEERS LAND SURVEYORS

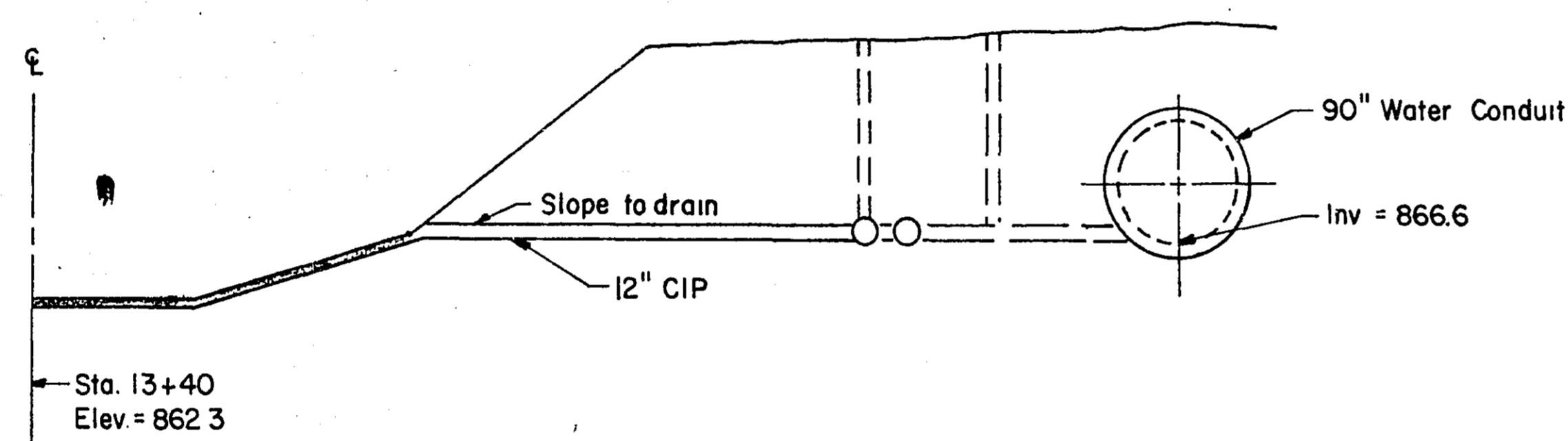
| | | |
|--|---|--|
| 500 W. HWY. 96 ST. PAUL 12, MINN. 484-3301 | 314 OAK ST. SAUK CENTRE, MINN. 352-3664 | 18 4TH AVE. S.E. ST. CLOUD, MINN. 251-7751 |
|--|---|--|

| | | | |
|---|--|---|--------------------------|
| SURVEY BY DESIGNED BY DRAWN BY APPROVED BY | D T [Signature] [Signature] [Signature] | I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota. | REVISIONS [Signature] |
| SHEET 2 OF 20 SHEETS | Date | Reg. No. | COMM. NO. |

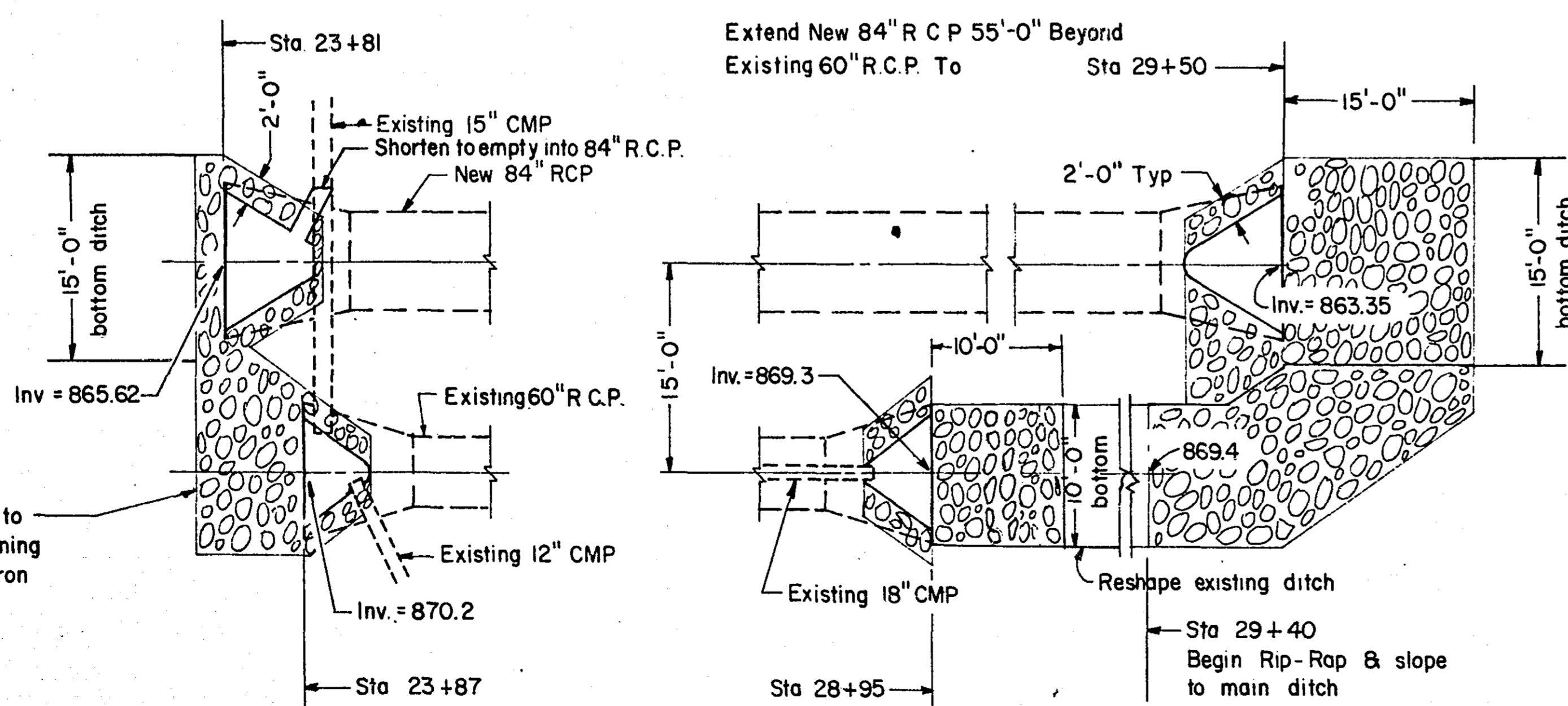
Note: Remove existing weir chamber and 72 ft existing C.I.P. Extend 12" blow-off to ditch. Rip-Rap from 12" Outlet to bottom ditch



PLAN SHT. 11
PLAN
WATER WORKS BLOW-OFF
 SCALE: 1"=10'



DETAIL
 SECTION 'A-A'
 SCALE: 1"=10'

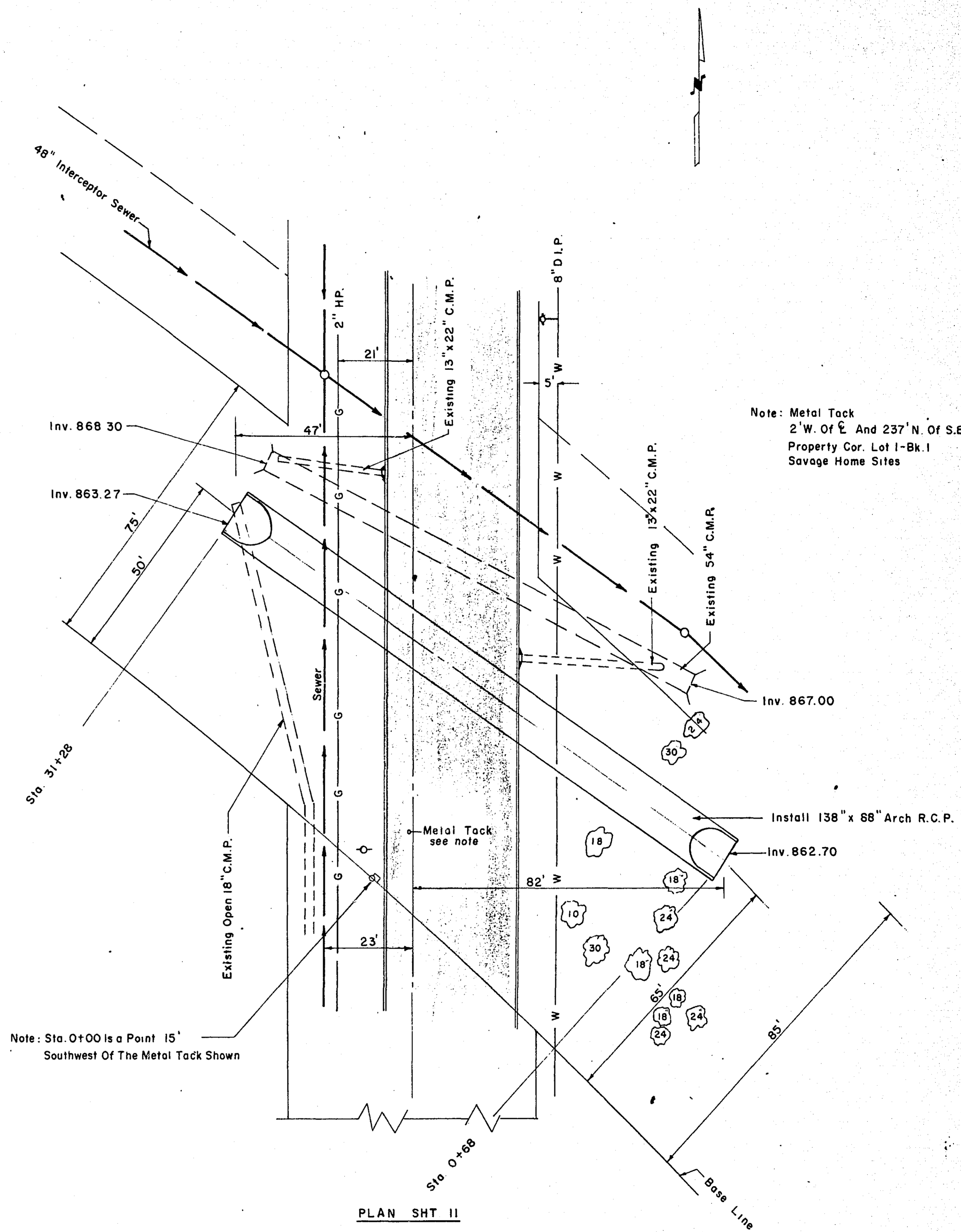


Note: Place Rip-Rap to prevent undermining of 60" RCP apron

INLET

OUTLET

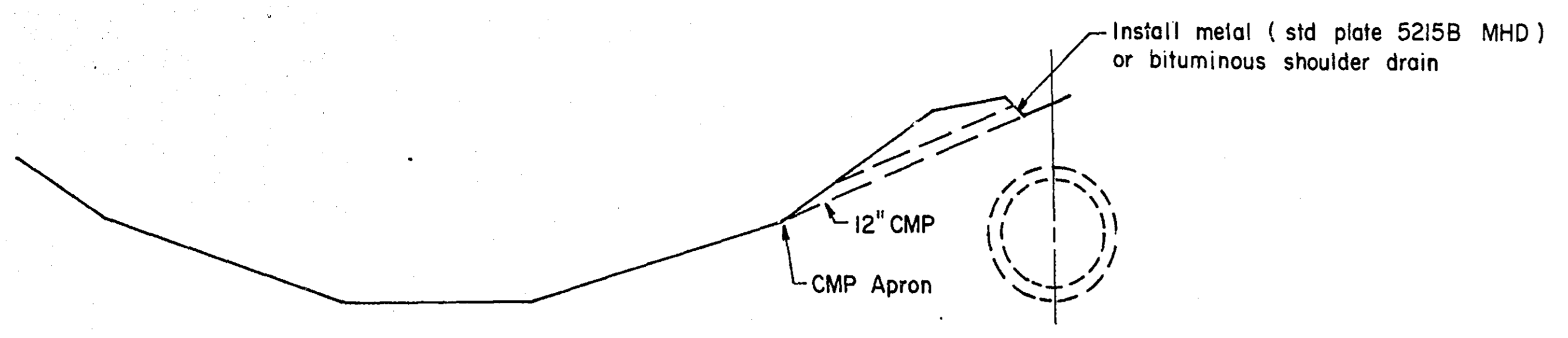
PLAN SHT. 8
PLAN
CULVERT DETAIL
 HIGHWAY 35 E
 SCALE: 1"=10'



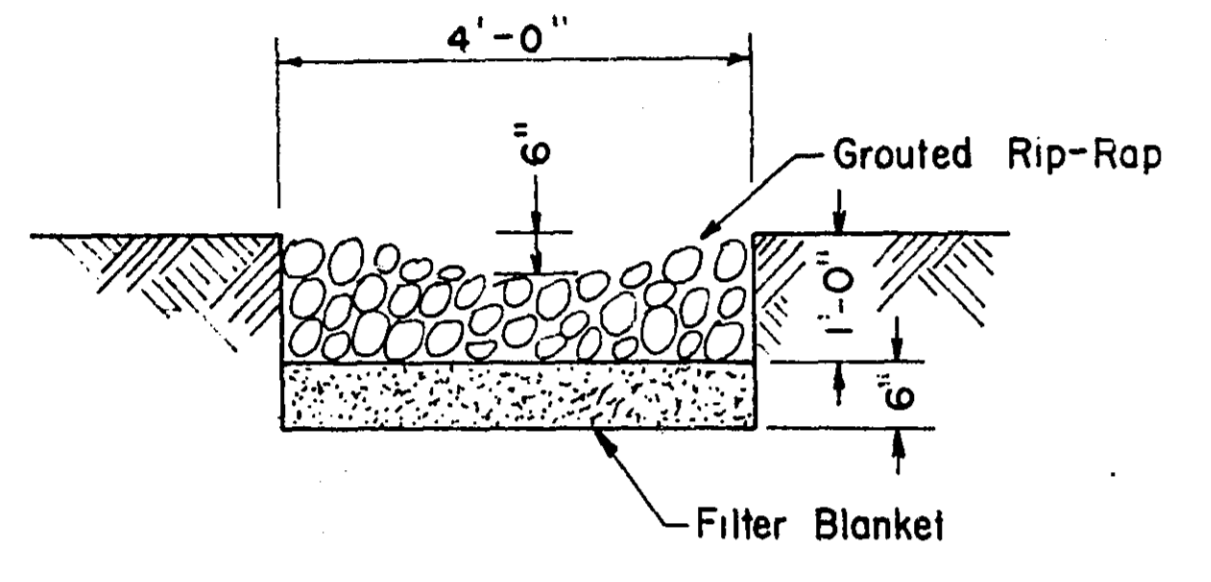
Note: Metal Tack
 2' W. Of \bar{C} And 237' N. Of S.E.
 Property Cor. Lot 1-Bk. 1
 Savage Home Sites

PLAN SHT. 11
CULVERT DETAIL
 CENTERVILLE RD
 Scale 1"=20'

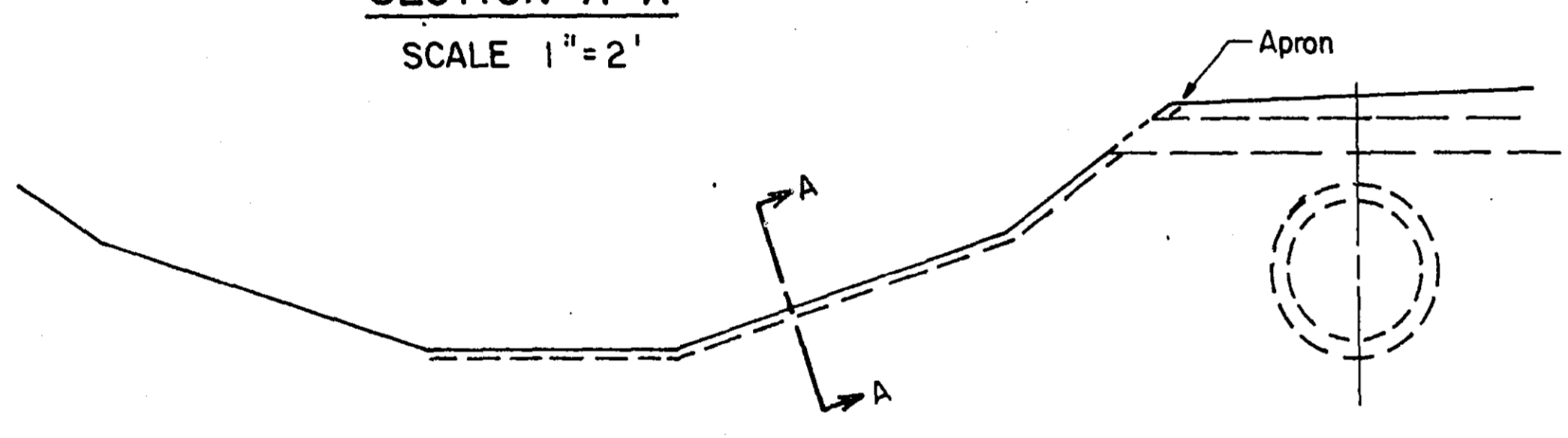
| | | | |
|---|--|---|---------------------------------------|
| DETAIL SHEET | | MICROFILMED RAMSEY CO. ENGR. | |
| Thereby certify that this plan, specification, survey, or description was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer <input type="checkbox"/> Land Surveyor <input type="checkbox"/> under the laws of the State of Minnesota. | 18 4TH AVE. SE. ST. CLOUD, MINN. 231-7751 | 800 W. HWY. 56 ST. PAUL, MINN. 484-3301 | |
| | | | |
| | Survey By D.T. Designed By Drawn By Approved By Revisions | 12236 | |
| | Late Reg. No. | SHEET 3 OF 20 SHEETS | Project No. 68-288 CO. DITCH No 16 |



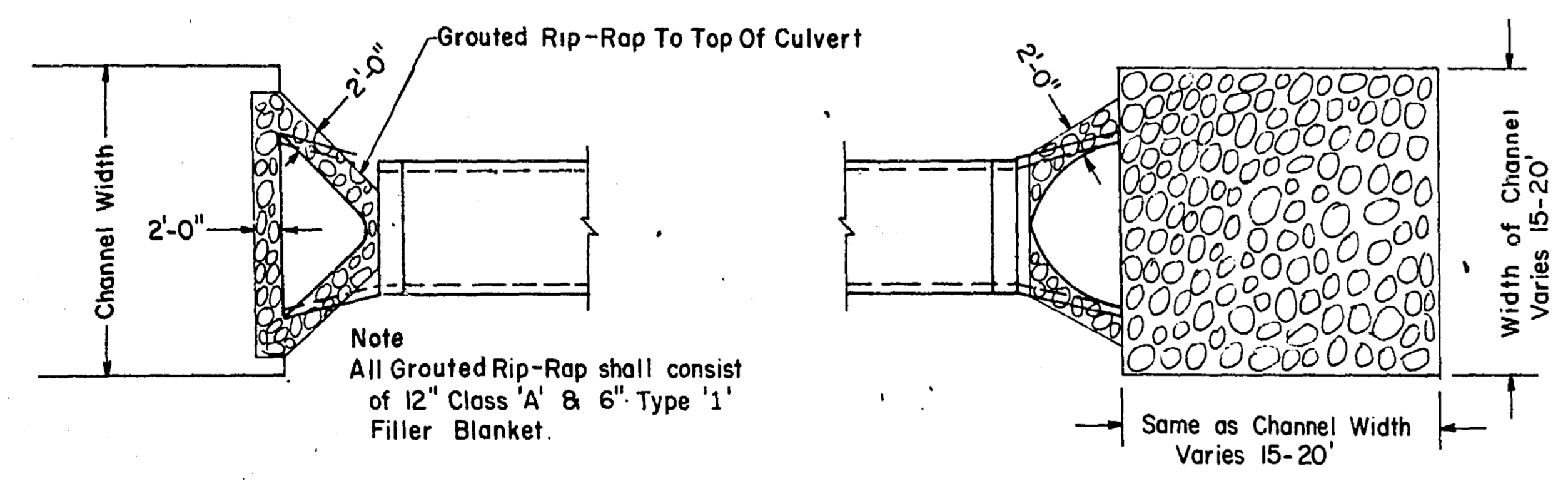
TYPICAL DETAIL
W.W. DRAINAGE CULVERT
 SCALE 1" = 10'



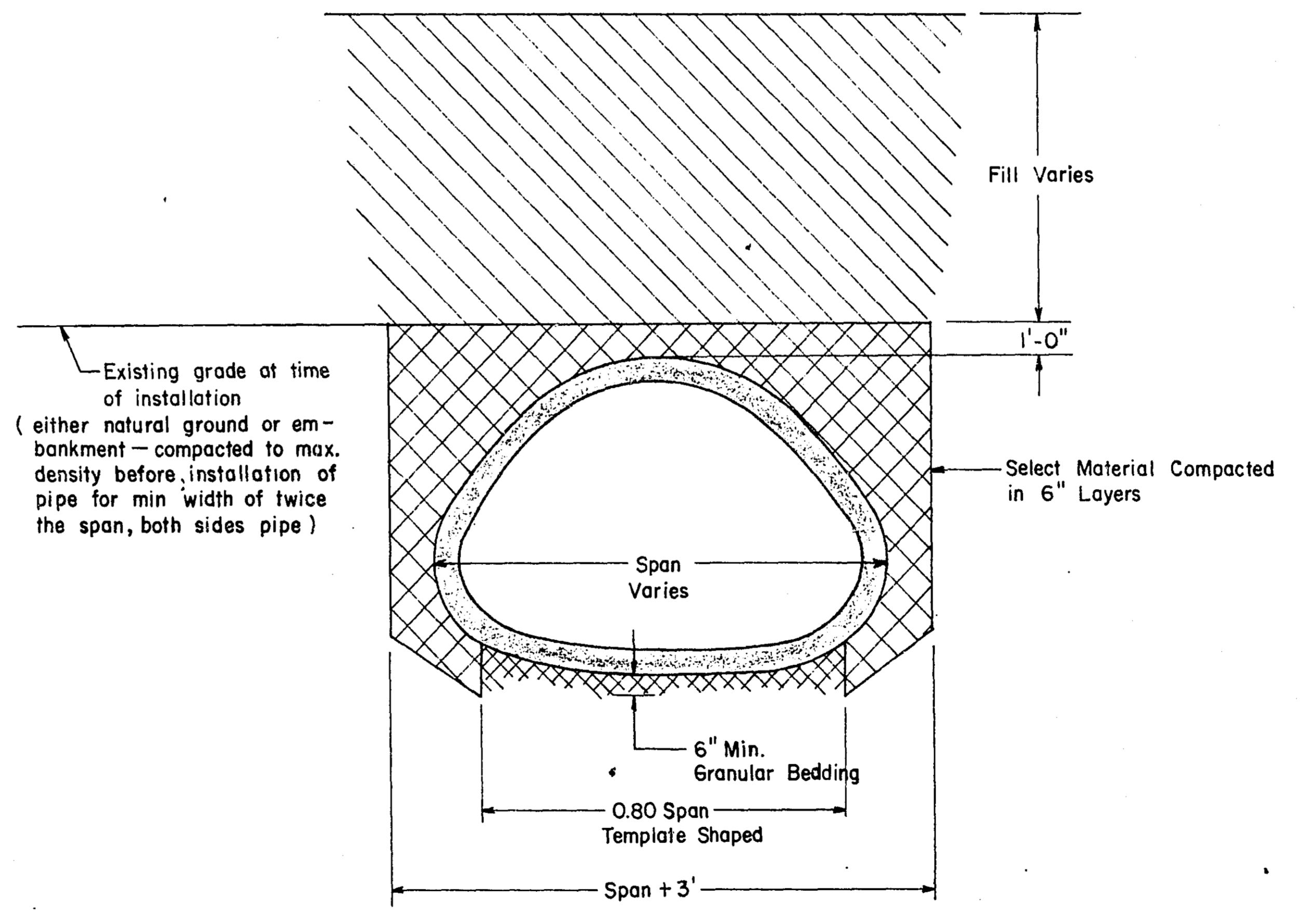
SECTION 'A-A'
 SCALE 1" = 2'



DETAIL
ROUND LAKE OVERFLOW
 SCALE 1" = 10'



TYPICAL DETAIL
RIP-RAP AT CULVERT
 SCALE 1" = 5'



TYPICAL DETAIL
PIPE CULVERT INSTALLATION
 NO SCALE

| | | | | |
|---|----------------------|--|---|--|
| I hereby certify that this plan, specification, survey, or description was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer or Land Surveyor under the laws of the State of Minnesota. | | 18 4TH AVE. S.E. ST. CLOUD, MINN. 231-7751 | 500 W. HWY. 98 ST. PAUL, MINN. 484-3301 | Survey By D.T. Designed By Drawn By Approved By Revisions |
| | | | | P-236 |
| Date Reg. No. | SHEET 4 OF 20 SHEETS | | Project No. 68-288 | CO. DITCH No. 16 |

MICROFILMED
 RAMSEY CO, ENGR.

PLAN
 SURVEYED
 NOTE BOOK
 ALIGNMENT CHECKED
 RT. OF WAY CHECKED
 NO. _____
 BY _____
 DATE _____

PROFILE
 SURVEYED
 NOTE BOOK
 GRADES CHECKED
 B. M. NOTED
 NO. _____
 STRUCTURE NOTATIONS CHECKED
 NO. _____
 BY _____
 DATE _____

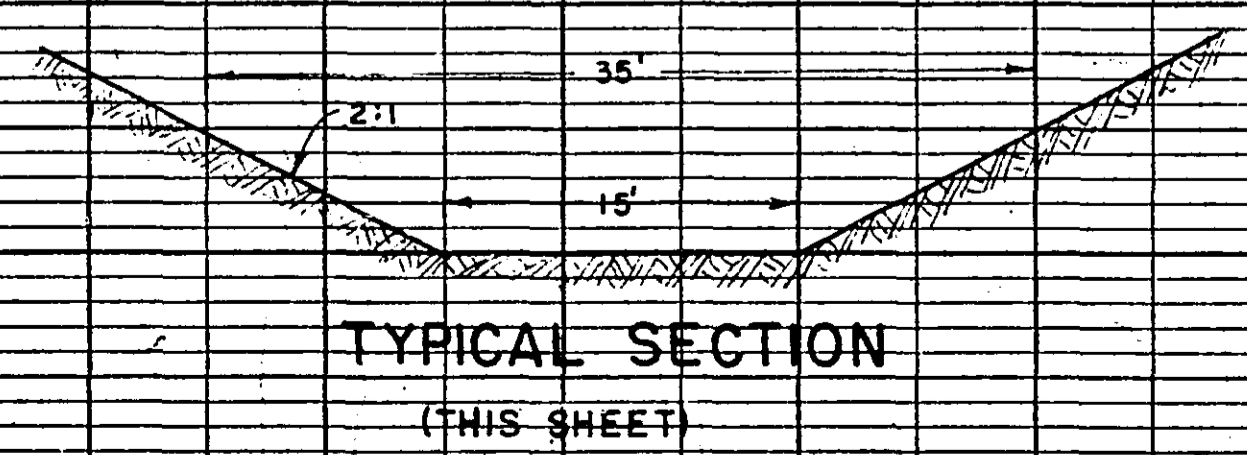
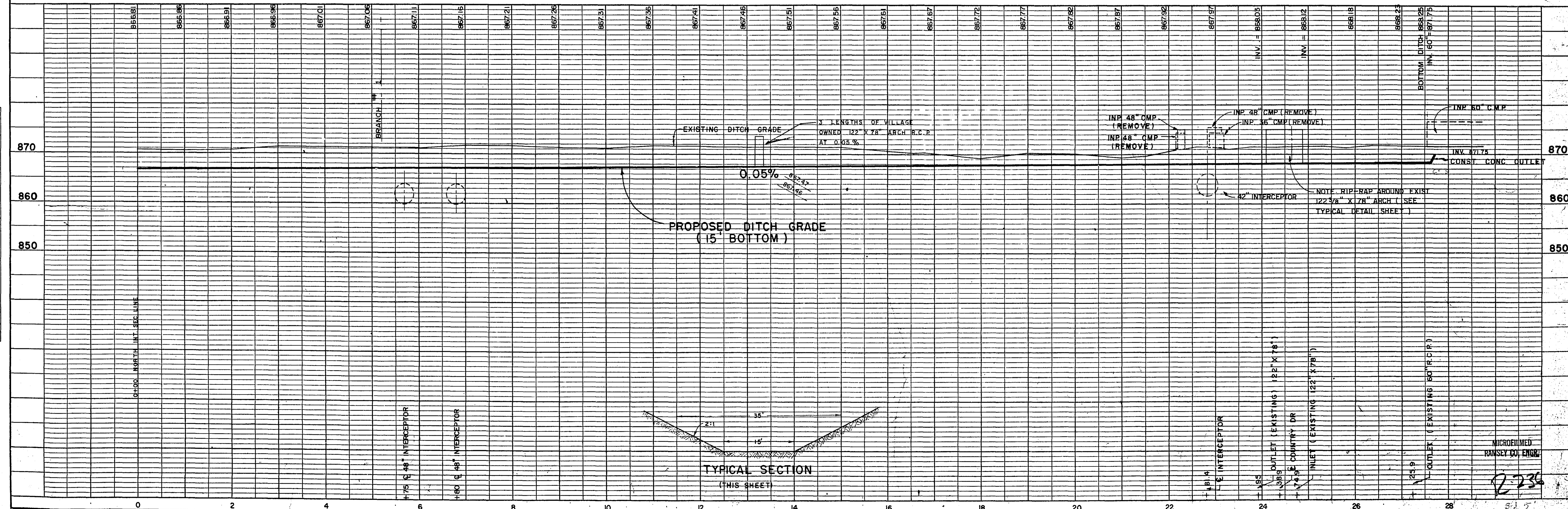
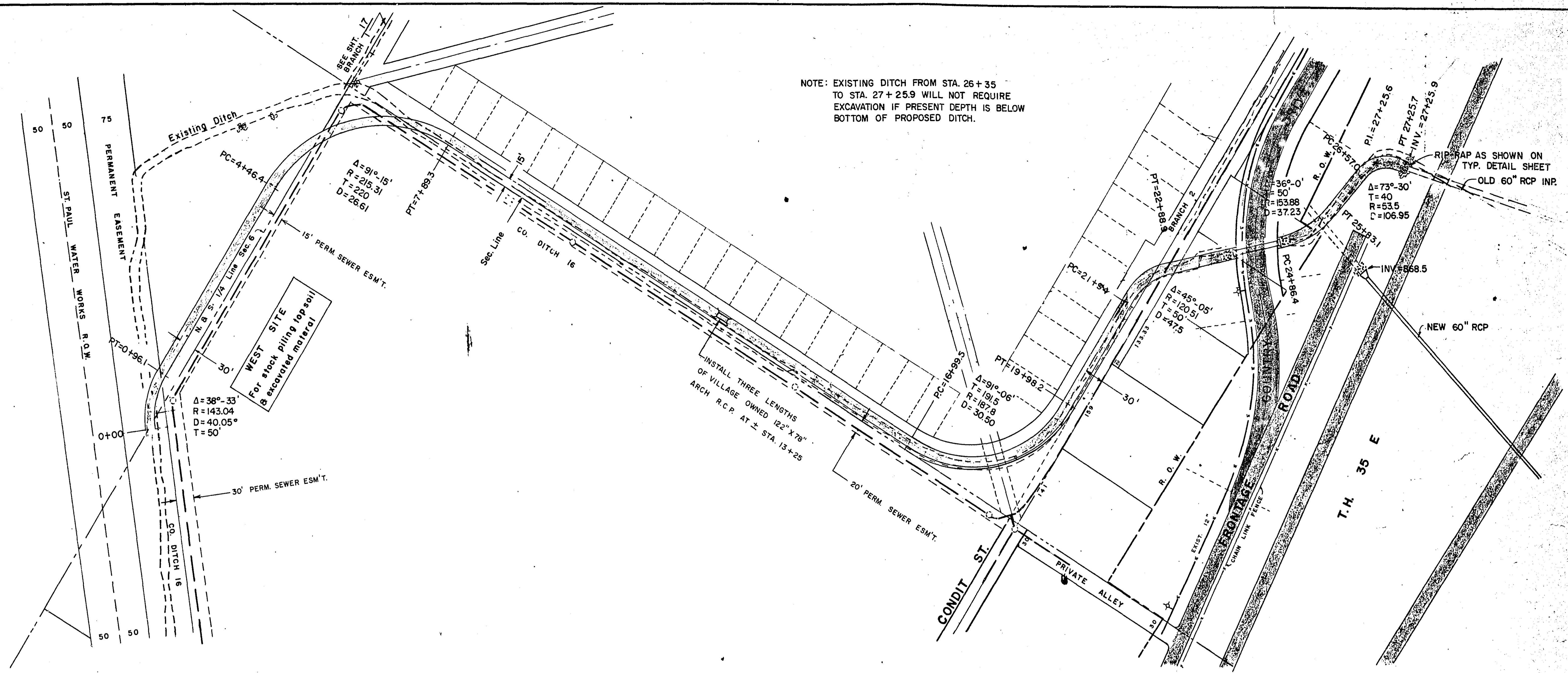
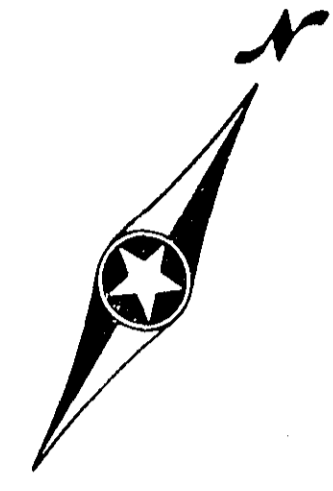


PLATE 1, PLAN-PROFILE
 KEUFFEL & ESSER CO.

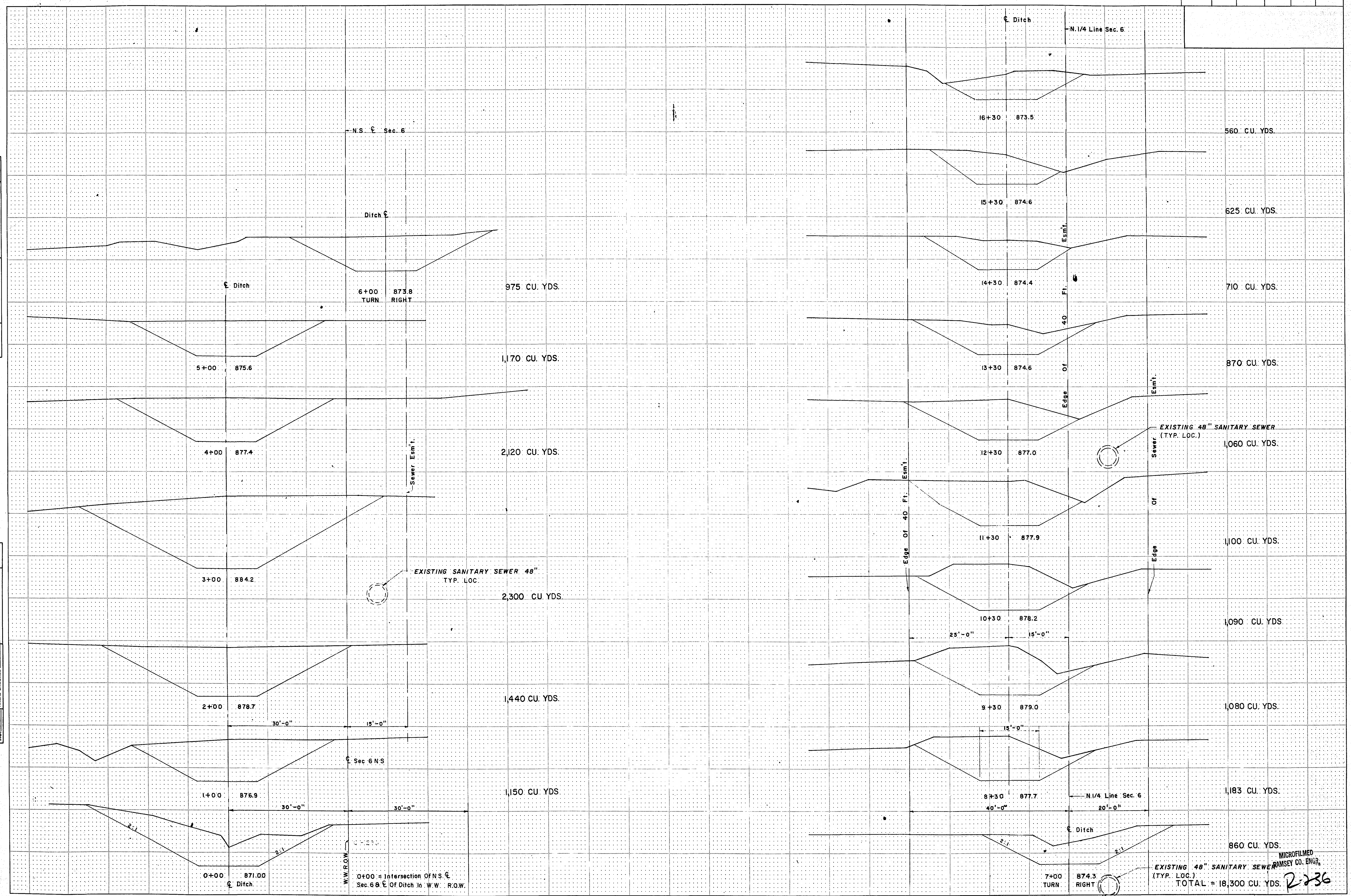
CO. DITCH No. 16
 SHEET 5 OF 20 SHEETS

MICROFILMED
 RAMSEY CO. ENGR.

2-235

FINAL SURVEY PLOTTED DATE: _____
 NOTE BOOK NO. _____
 AREAS CHECKED: _____

ORIGINAL SURVEY PLOTTED DATE: _____
 NOTE BOOK NO. _____
 AREAS CHECKED: _____



FUNCTIONAL CROSS SECTION - OPEN DOTTED
 ROGERS CO. MINNEAPOLIS - ST. PAUL

State Proj. No. _____ Sheet No. 6 of 20 Sheets

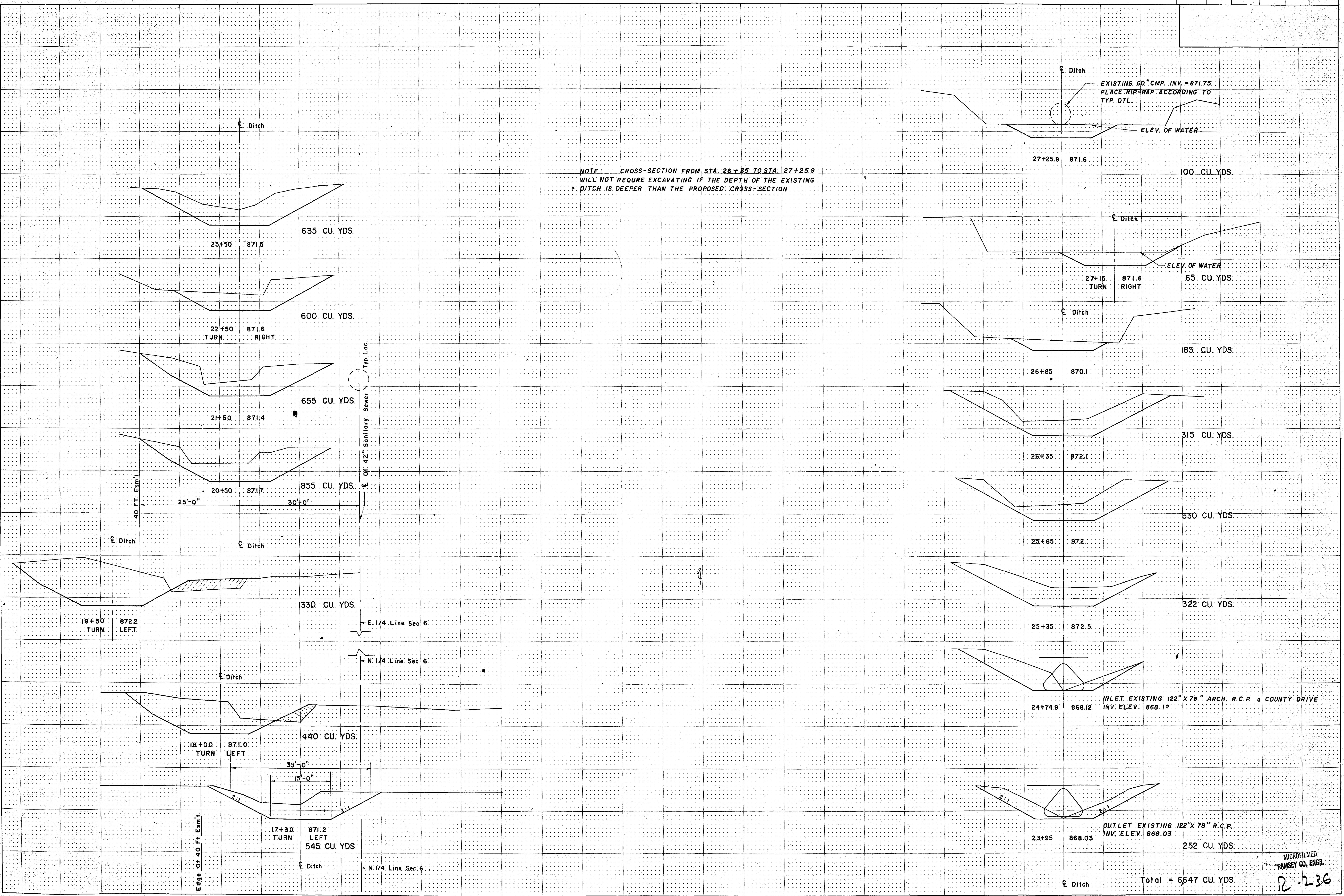
EXISTING 48" SANITARY SEWER (TYP. LOC.)
 TOTAL = 18,300 CU. YDS. **2-236**

MICROFILMED
 RAMSEY CO. ENGR.

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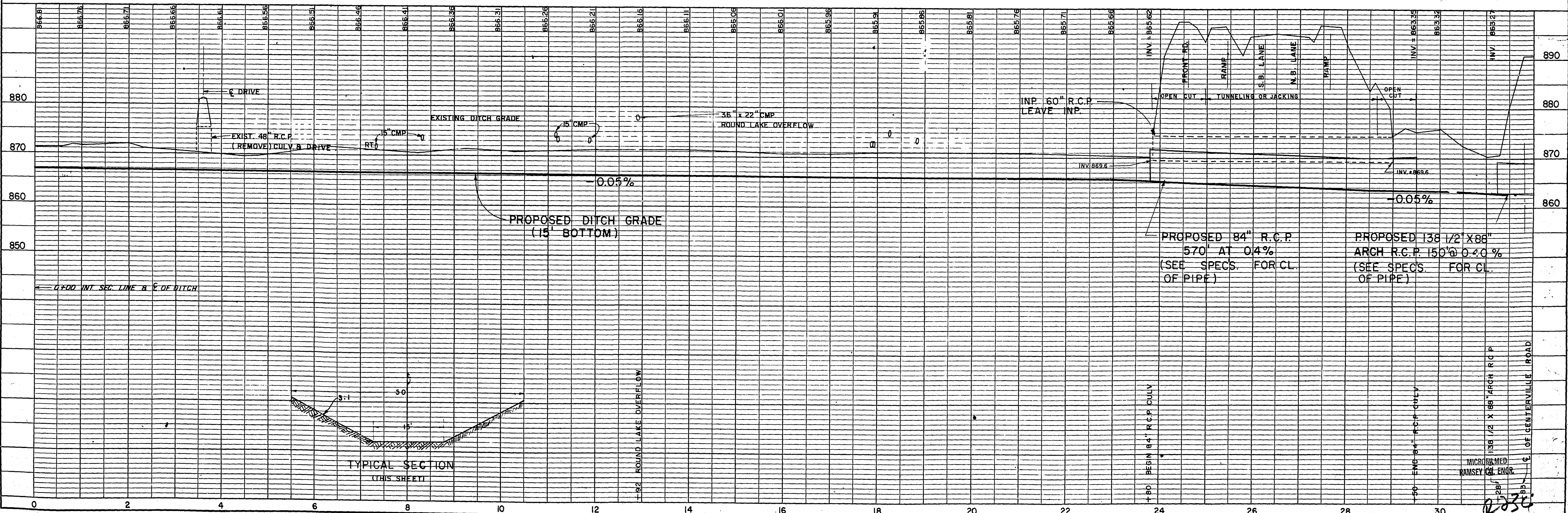
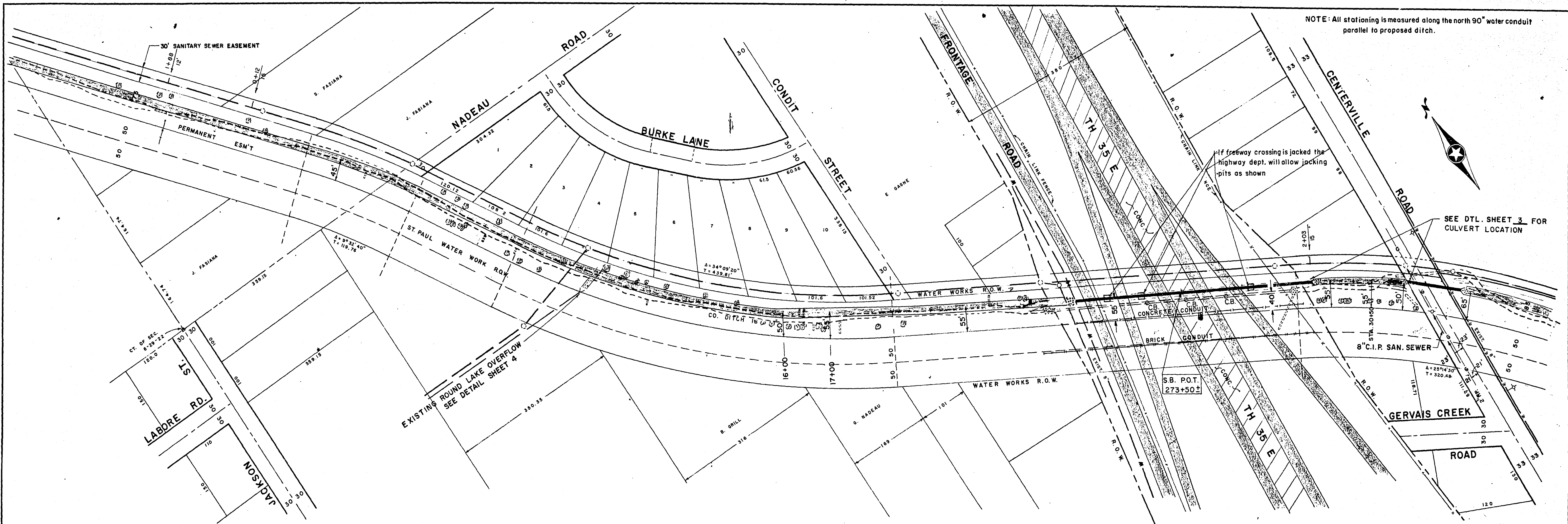
NOTE: CROSS-SECTION FROM STA. 26+35 TO STA. 27+25.9 WILL NOT REQUIRE EXCAVATING IF THE DEPTH OF THE EXISTING DITCH IS DEEPER THAN THE PROPOSED CROSS-SECTION



MICROFILMED
RAMSEY CO. ENGR.
P-236

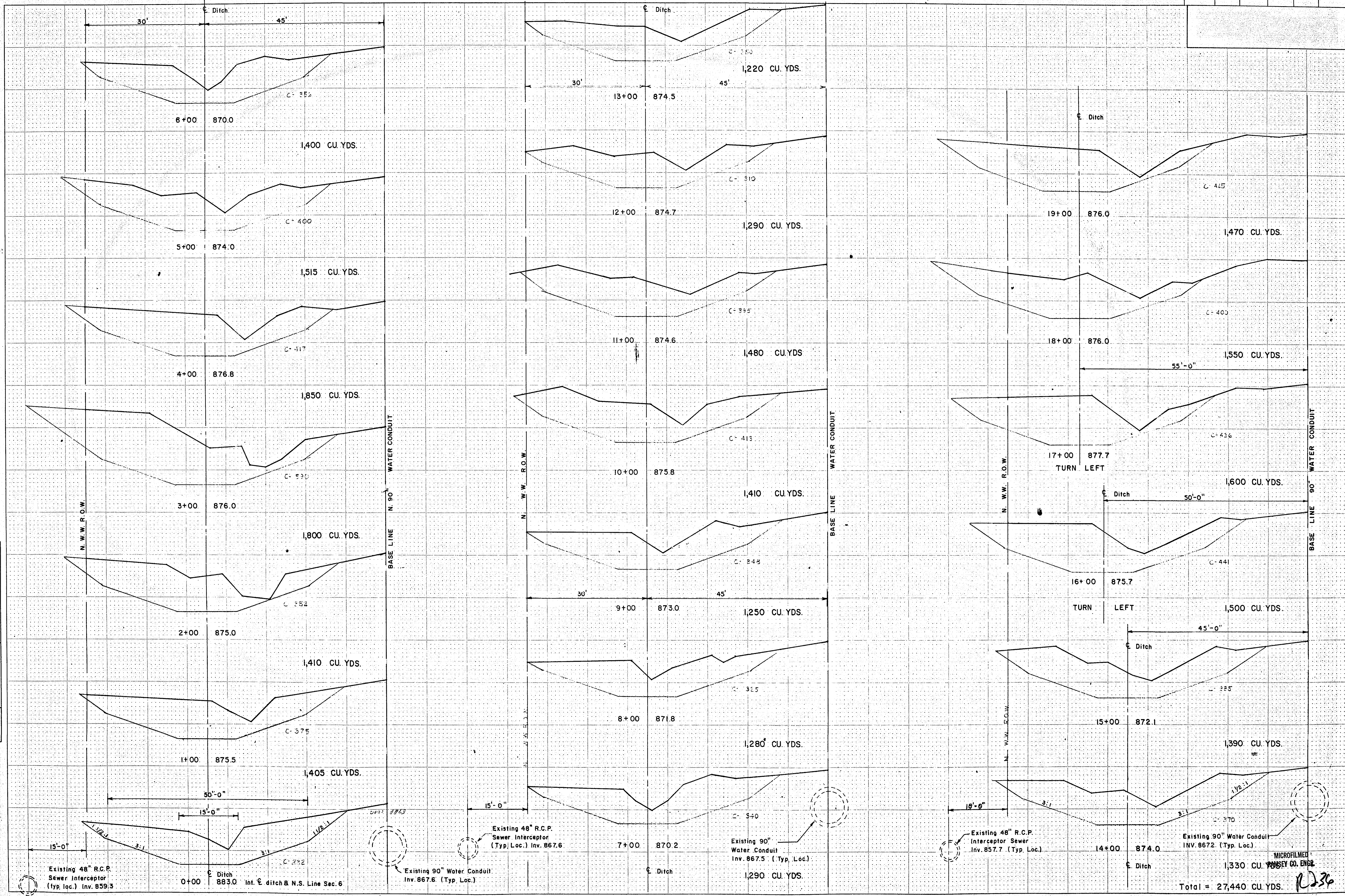
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 PLOTTED BY
 NOTE BOOK NO. OF WAY CHECKED
 NO. OF WAY CHECKED

PROFILE SURVEYED BY DATE
 GRADES CHECKED
 NOTE BOOK NO. OF WAY CHECKED
 NO. OF WAY CHECKED



FINAL SURVEY NO. 372
 SURVEYED BY DATE
 CHECKED BY DATE
 REVISIONS

ORIGINAL SURVEY NO. 372
 SURVEYED BY DATE
 CHECKED BY DATE
 REVISIONS



FUNCTIONAL CROSS SECTION - OPEN DOTTED
 ROGERS CO. - MINNEAPOLIS - ST. PAUL

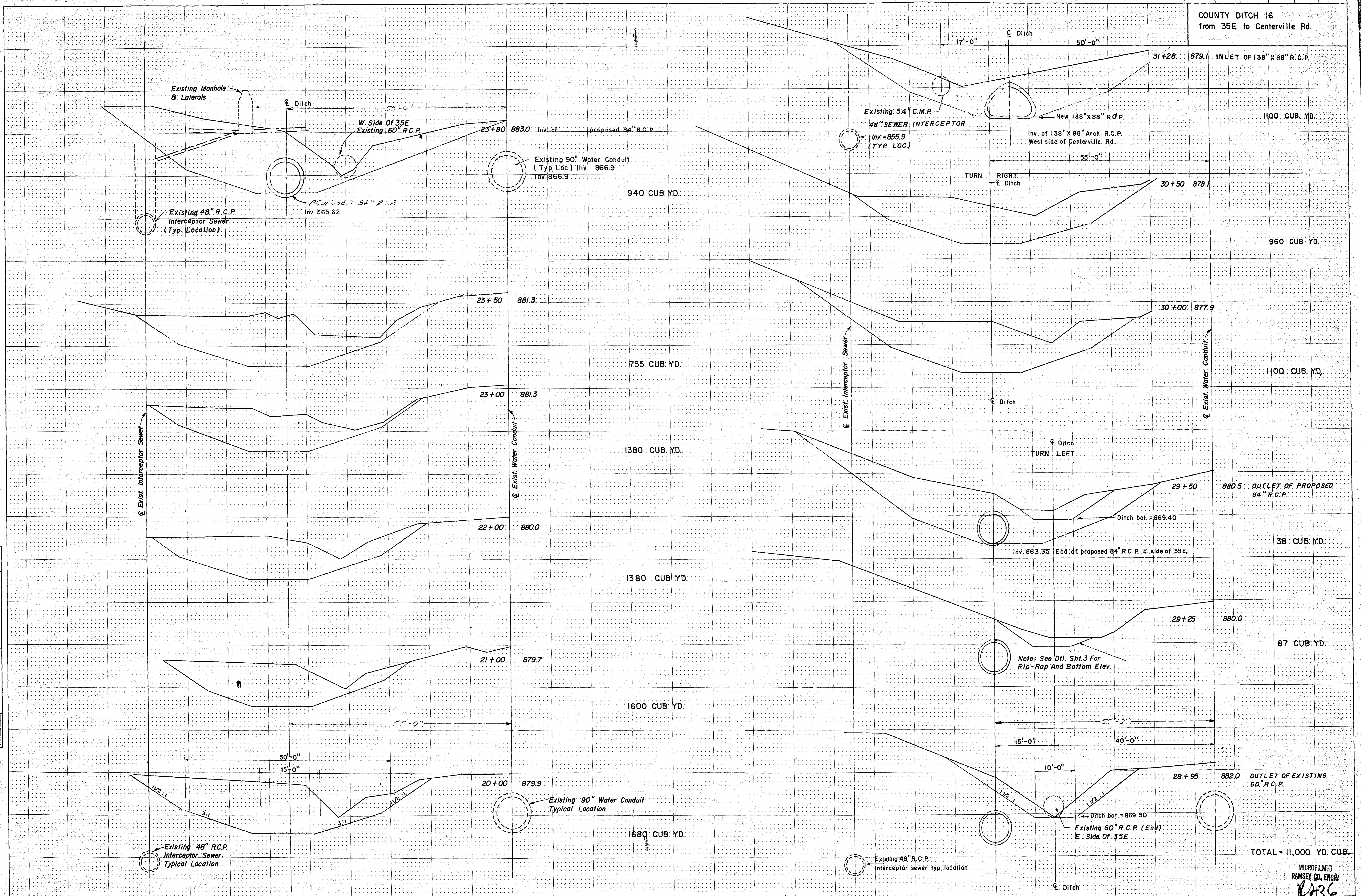
MICROFILMED
 ROYSE CO. ENG.

Total = 27,440 CU. YDS.

COUNTY DITCH 16
from 35E to Centerville Rd.

FINAL SURVEY TEMPLATE NO. 380

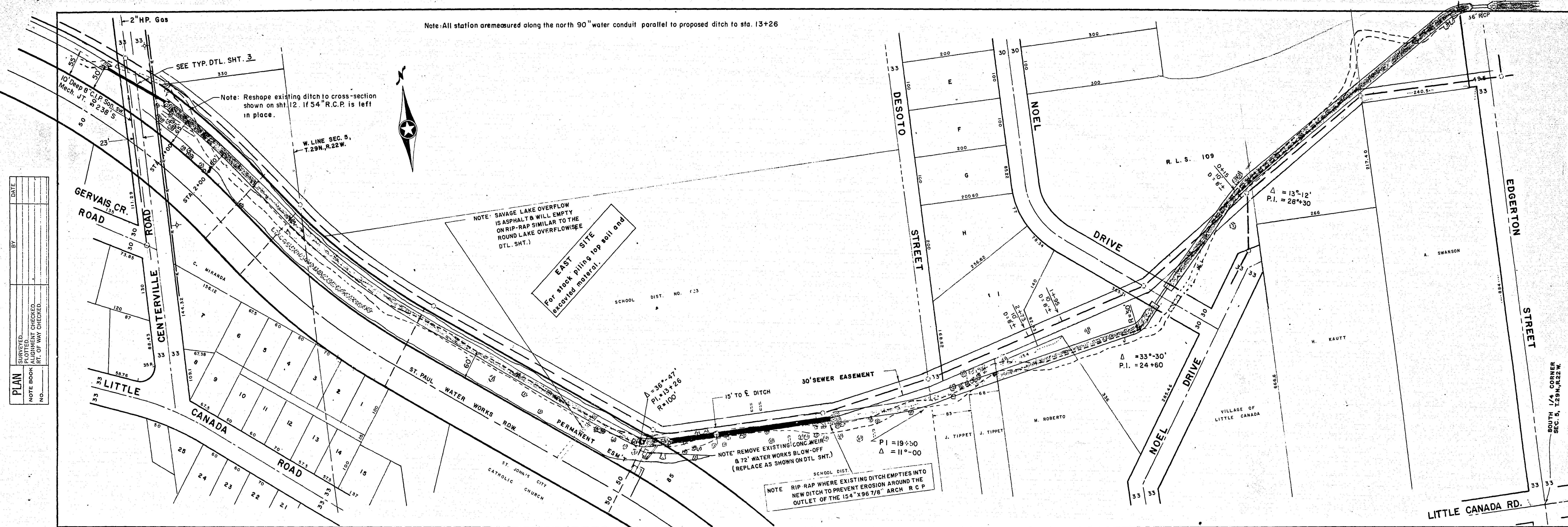
ORIGINAL SURVEY TEMPLATE NO. 380



TOTAL = 11,000 YD. CUB.

MICROFILMED
RAMSEY CO. ENGR.
1236

Note: All station are measured along the north 90' water conduit parallel to proposed ditch to sta. 13+26

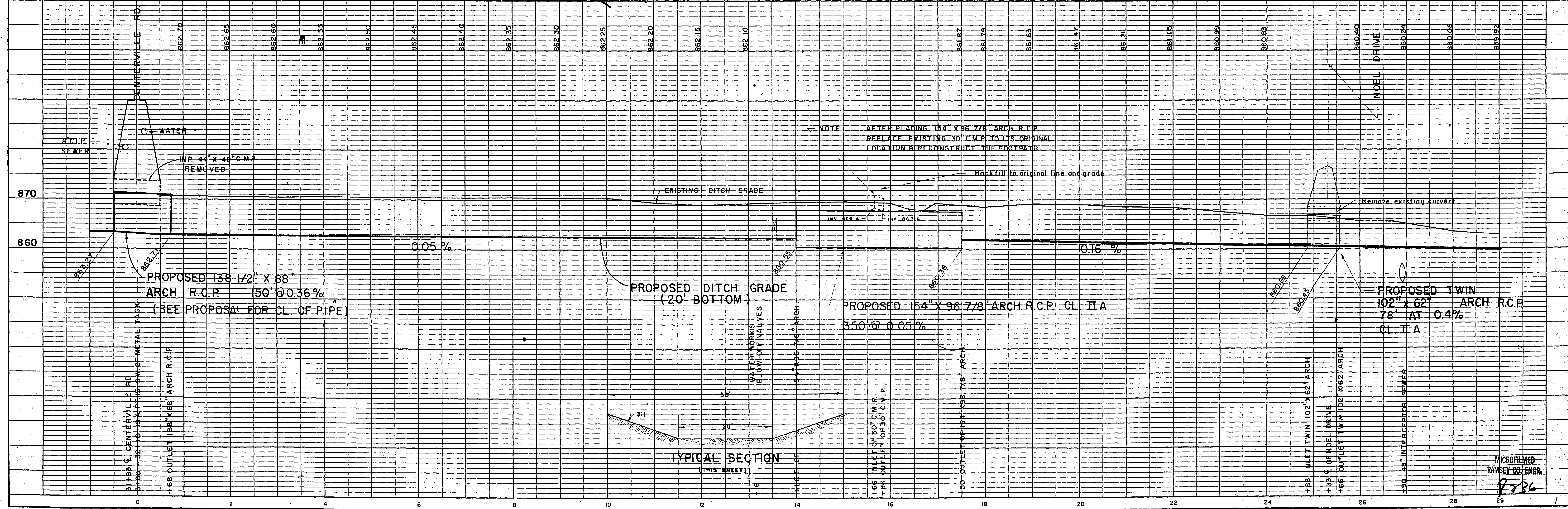


PLAN

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| DATE | |
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| SURVEYED | |
| PLOTTED | |
| ALIGNED CHECKED | |
| RT. OF WAY CHECKED | |
| NO. | |

PROFILE

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| DATE | |
| BY | |
| SURVEYED | |
| PLOTTED | |
| GRADES CHECKED | |
| STRUCTURE NOTATIONS CHECKED | |
| NO. | |



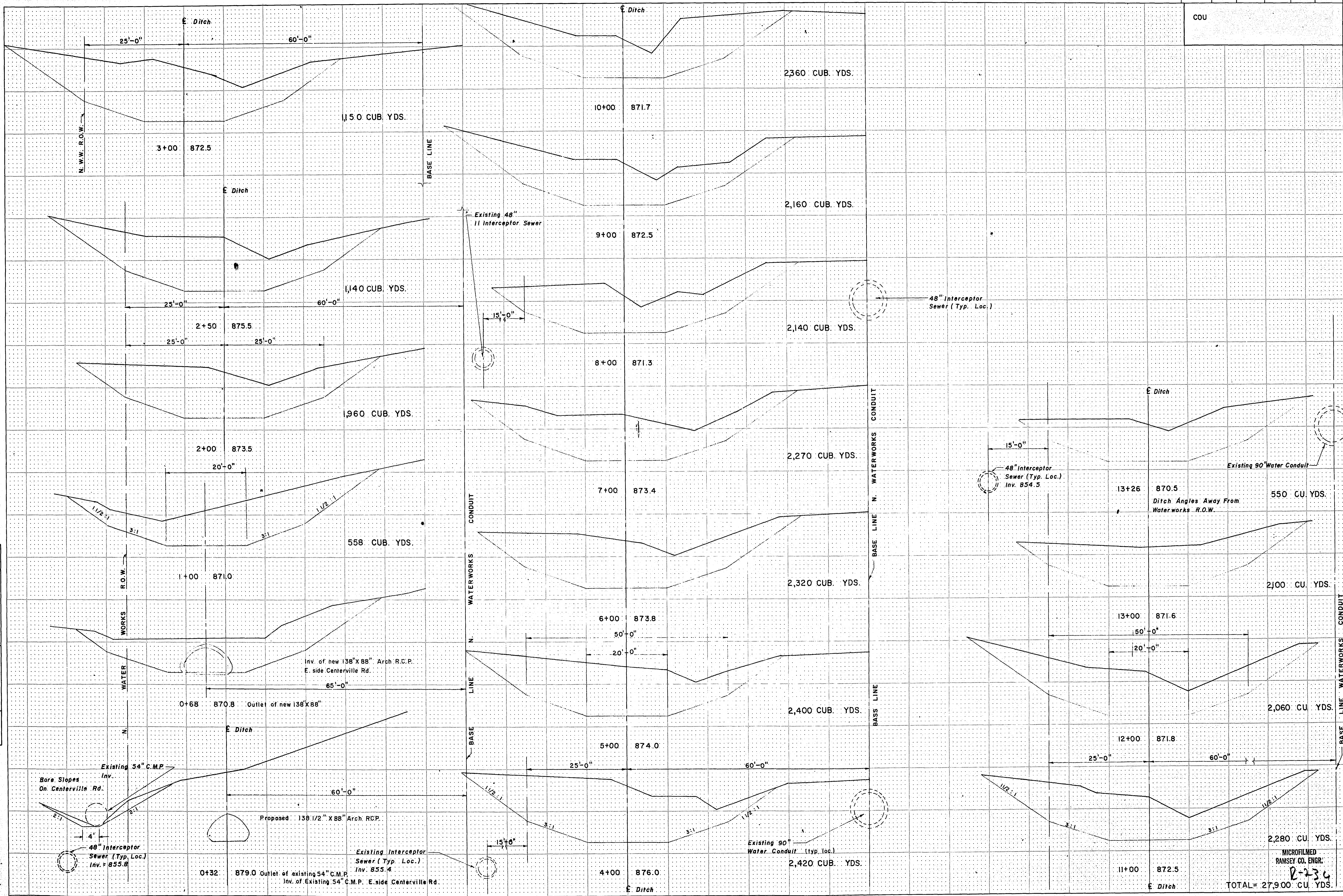
TYPICAL SECTION (THIS SHEET)

PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.

COU

FINAL SURVEY BY DATE
 SURVEYED BY DATE
 PLOTTED BY DATE
 TEMPLATE NO.
 NOTE BOOK NO.
 AREAS CHECKED

ORIGINAL SURVEY BY DATE
 SURVEYED BY DATE
 PLOTTED BY DATE
 TEMPLATE NO.
 NOTE BOOK NO.
 AREAS CHECKED



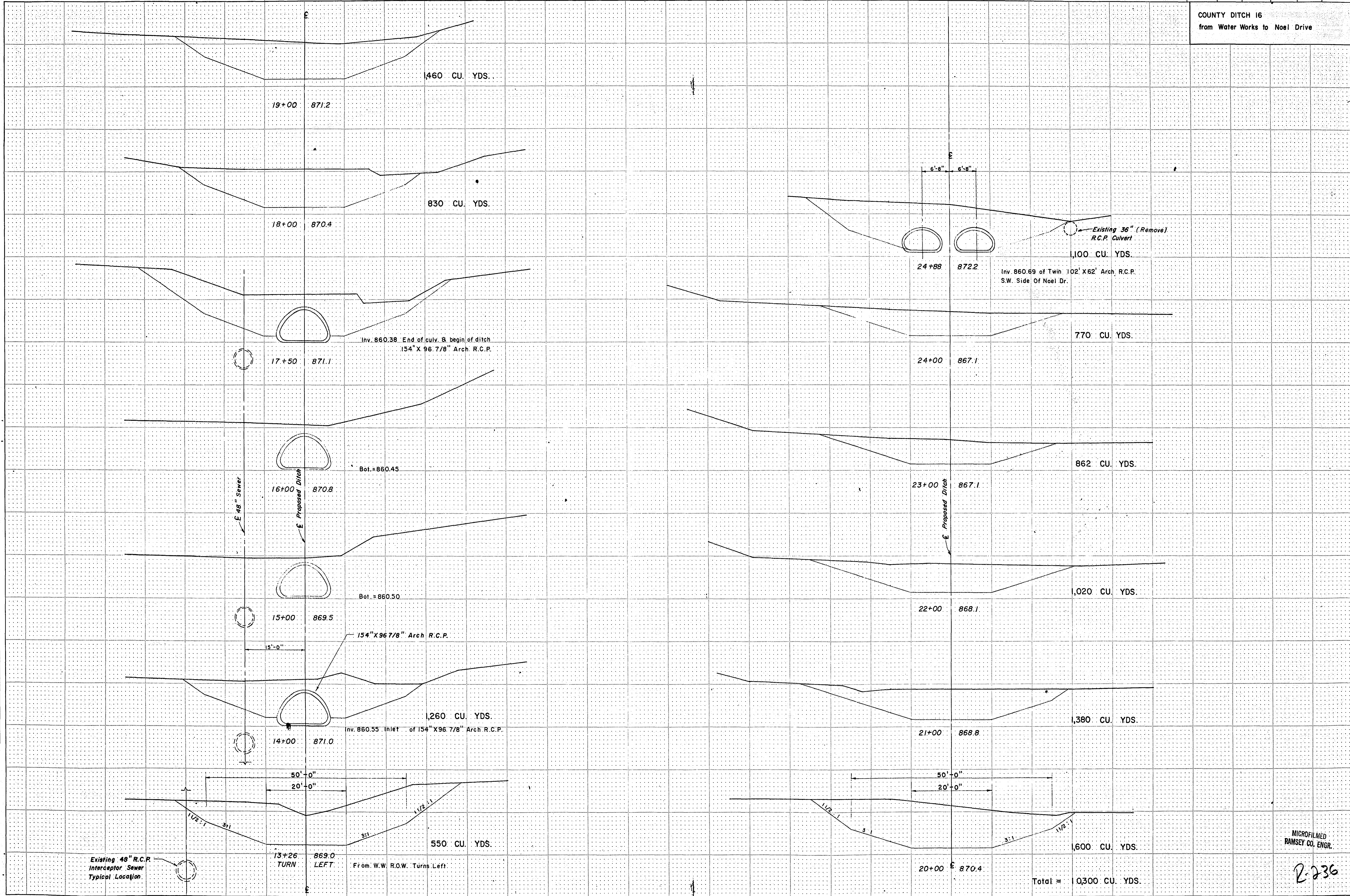
MICROFILMED
 RAMSEY CO. ENGR.
 R-234

TOTAL = 27,900 CU. YDS.

COUNTY DITCH 16
from Water Works to Noel Drive

| | |
|---------------|---------------|
| FINAL SURVEY | DATE |
| NO. _____ | BY _____ |
| NOTE BOOK | PLOTTED |
| NO. _____ | TEMPLATE |
| AREAS CHECKED | AREAS CHECKED |

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| ORIGINAL SURVEY | DATE |
| NO. _____ | BY _____ |
| NOTE BOOK | PLOTTED |
| NO. _____ | TEMPLATE |
| AREAS CHECKED | AREAS CHECKED |



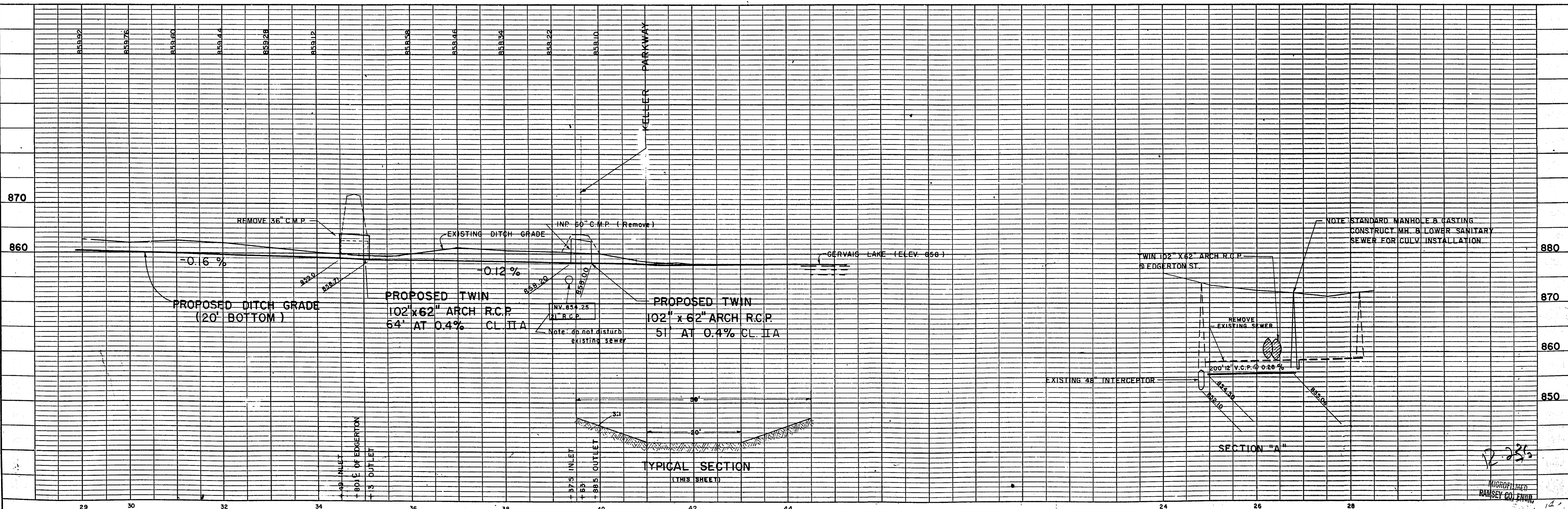
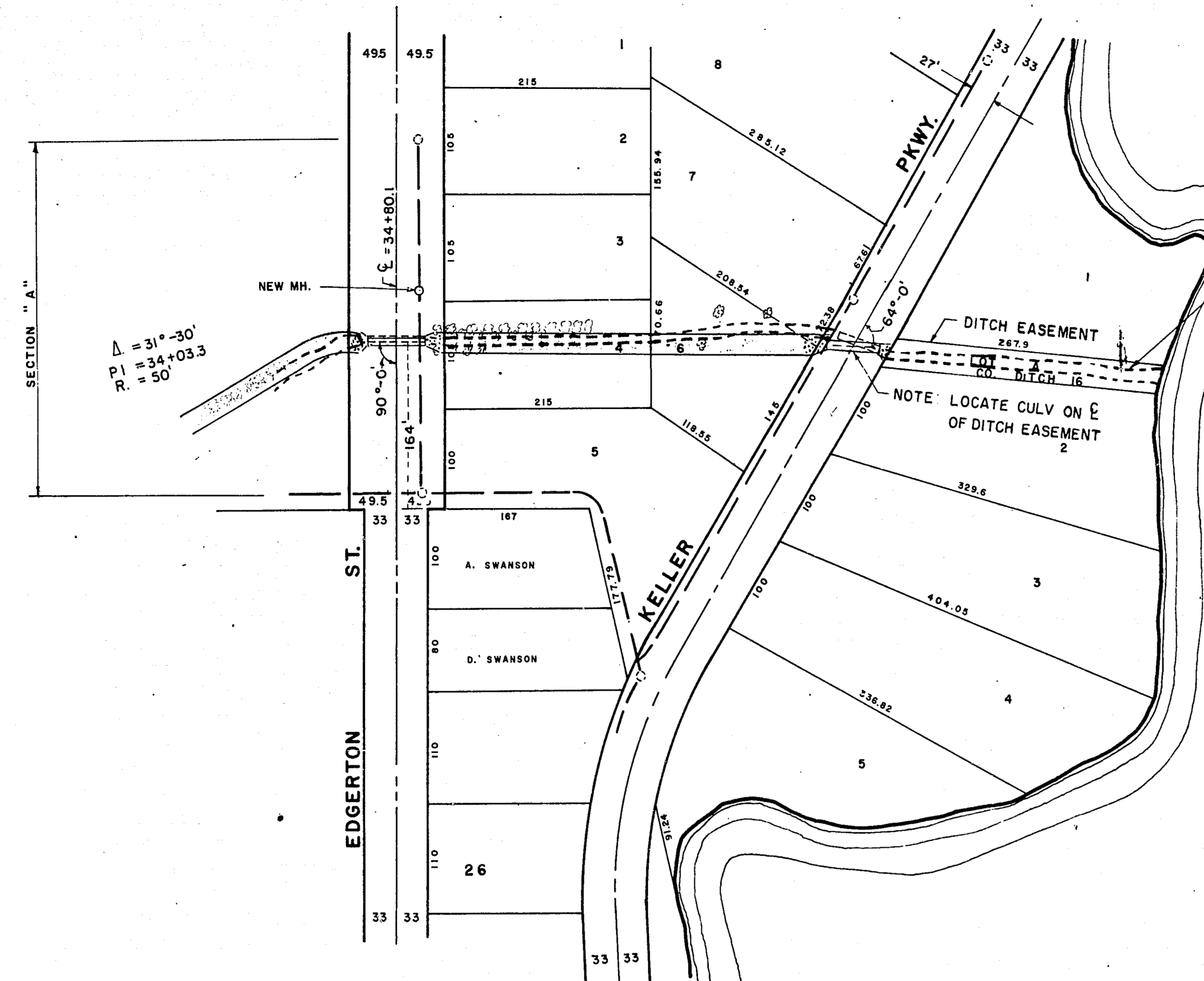
FUNCTIONAL CROSS SECTION - OPEN DOTTED
ROGERS CO. - MINNEAPOLIS - ST. PAUL

MICROFILMED
RAMSEY CO. ENGR.
2-236

PLAN
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 ALIGNMENT CHECKED
 RT. OF WAY CHECKED
 NO.

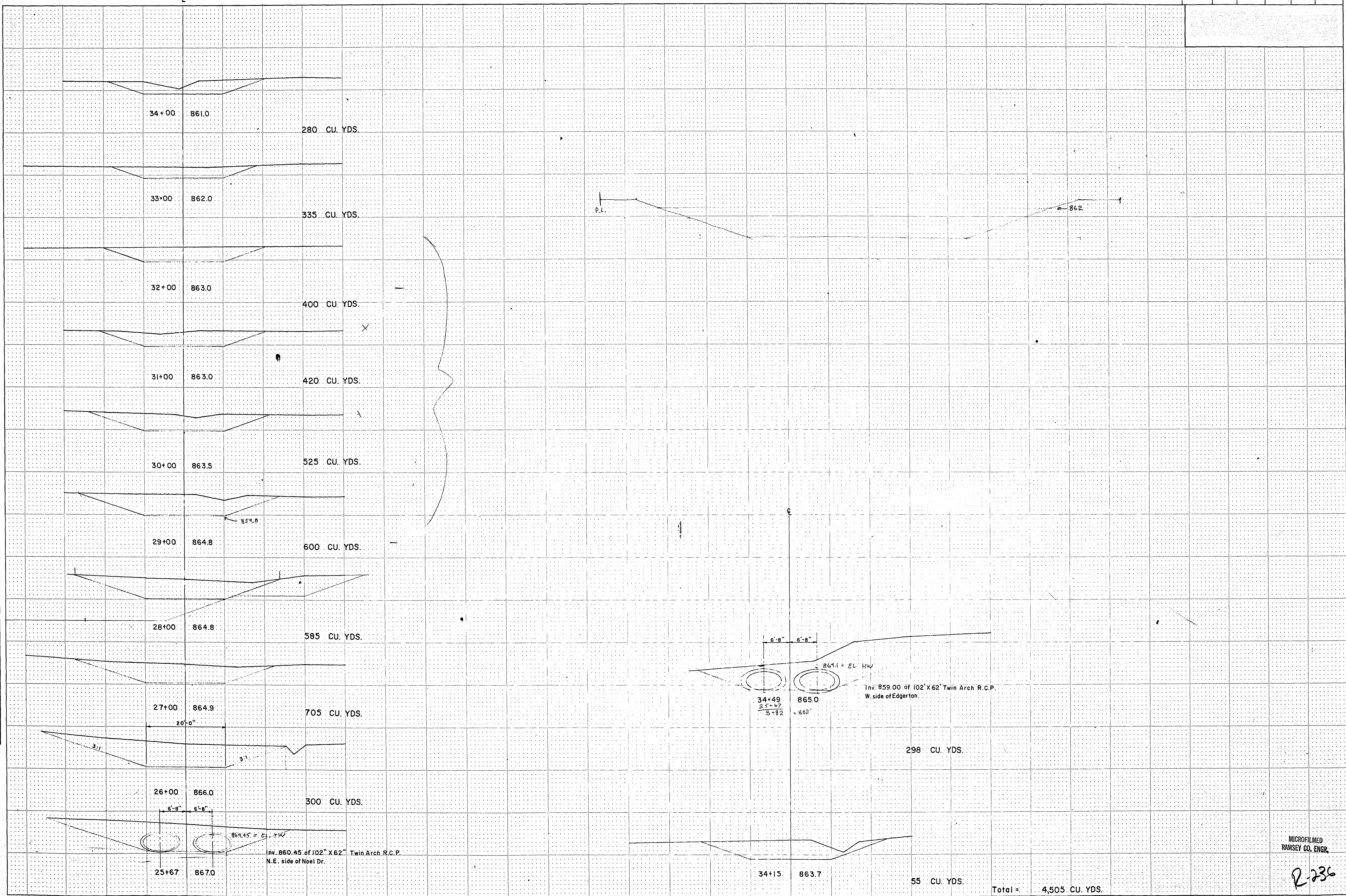
PROFILE
 SURVEYED
 PLOTTED
 GRADES CHECKED
 B. M. & NOTED
 NO. 321
 STRUCTURE NOTATIONS OK

NOTE: Locate \bar{C} of 102" x 62" culverts 6'-8" on either side of ditch \bar{C} .



BY: _____ DATE: _____
 D.G.P.
 SURVEY PLOTTED
 TEMPLATE AREAS CHECKED
 FINAL SURVEY NOTE BOOK NO. _____

BY: _____ DATE: _____
 ORIGINAL SURVEY NOTE BOOK NO. 380
 SURVEY PLOTTED
 TEMPLATE AREAS CHECKED

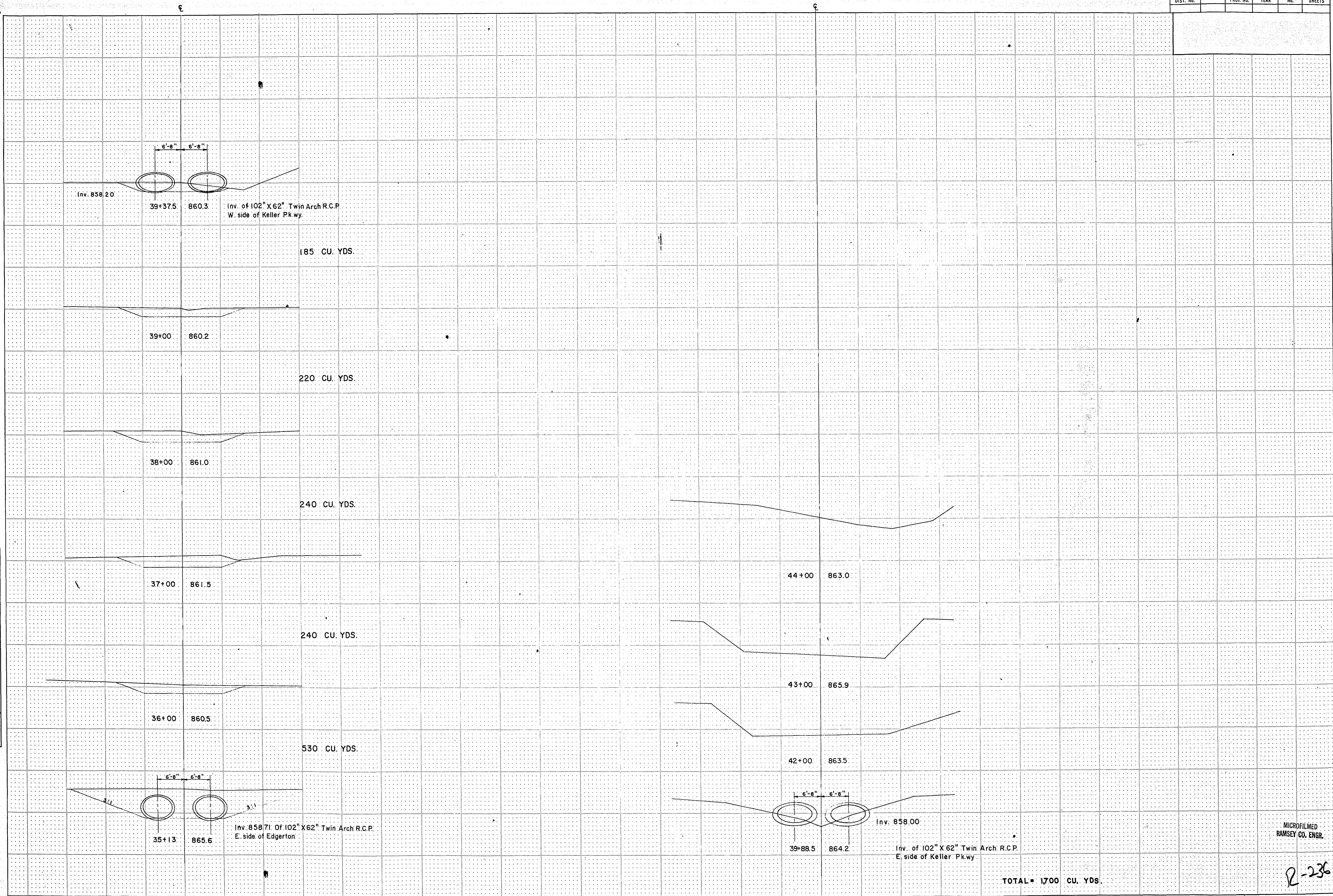


MICROFILMED
 RAMSEY CO. ENGR.

2236

FINAL SURVEYED PLOTTED DATE
 SURVEY TEMPLATE NO. DATE
 NOTE BOOK NO. AREAS CHECKED

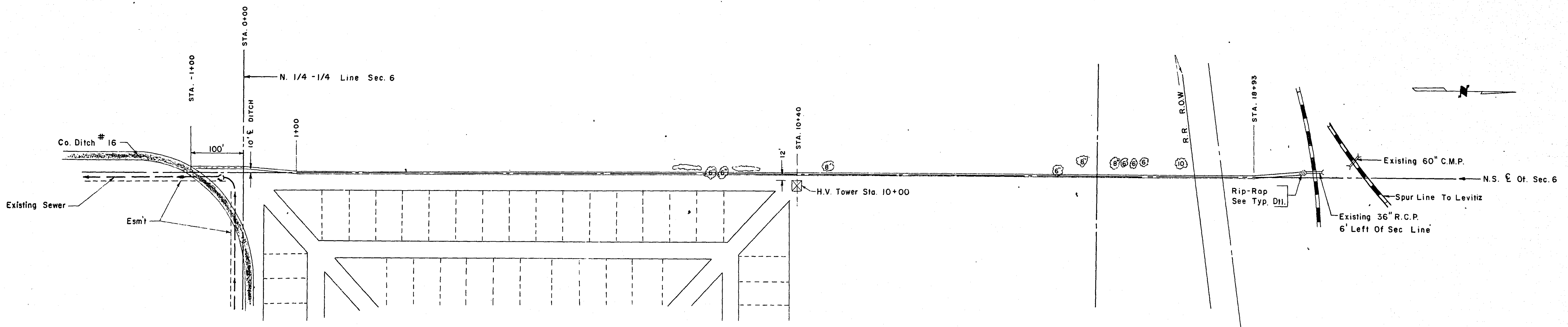
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 SURVEY TEMPLATE NO. DATE
 NOTE BOOK NO. AREAS CHECKED



MICROFILMED
 RAMSEY CO. ENGR.

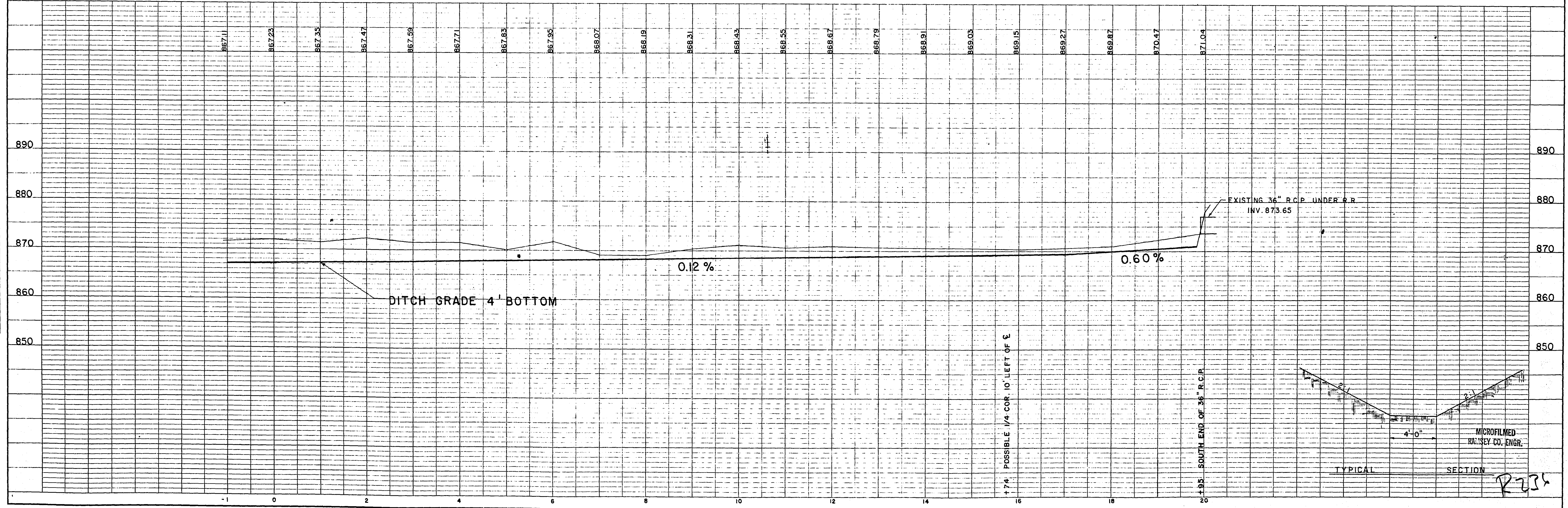
2-236

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| DATE | |
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| SURVEYED | |
| ALIGNED | |
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| PLAN | |
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| NO. | |



CO. DITCH # 16 [BRANCH "1"]

| | |
|----------------|--|
| DATE | |
| BY | |
| D.G.P. | |
| PROFILES | |
| GRADES CHECKED | |
| NO. 452 | |
| PROFILE | |
| NOTE BOOK | |
| GRADES CHECKED | |
| NO. 452 | |



MICROFILMED
RAI SEY CO. ENGR.
TYPICAL SECTION
R232

FINAL SURVEY NOTE BOOK NO. _____

DATE _____

BY _____

SURVEYED _____

PLOTTED _____

REPLATE _____

AREAS CHECKED _____

ORIGINAL SURVEY NOTE BOOK NO. _____

DATE _____

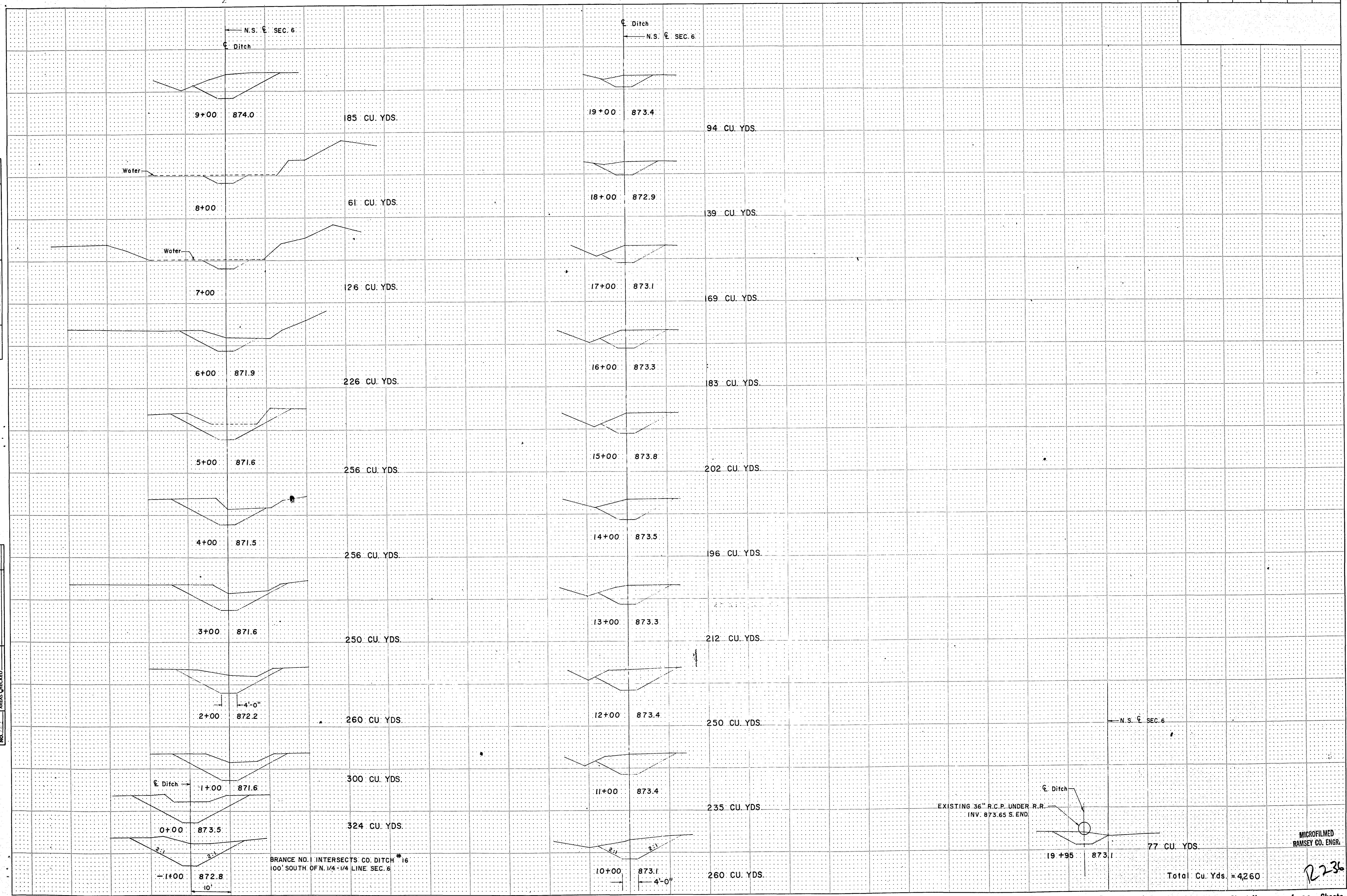
BY _____

SURVEYED _____

PLOTTED _____

REPLATE _____

AREAS CHECKED _____



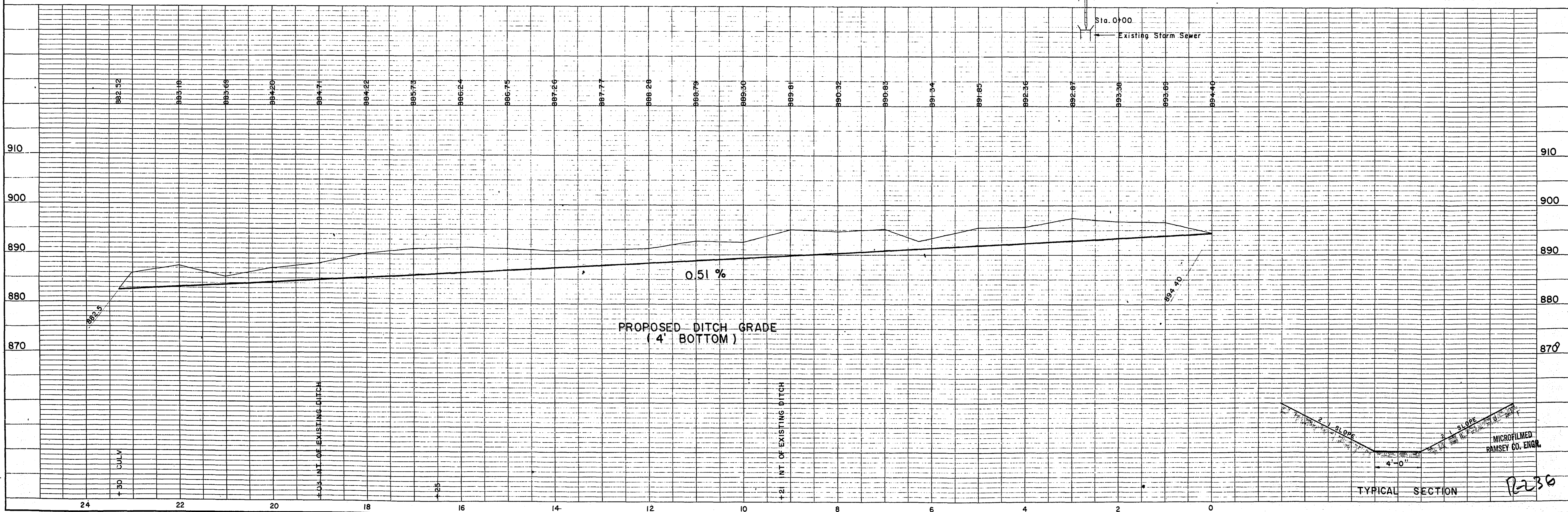
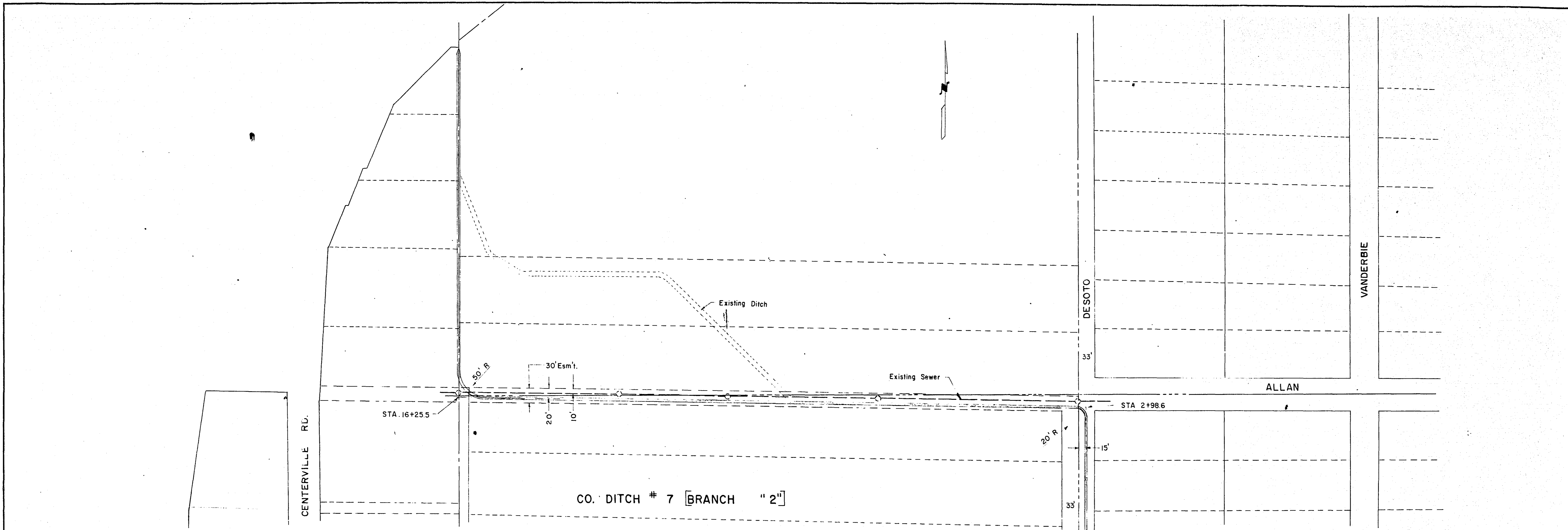
Total Cu. Yds. = 4260

MICROFILMED
RAMSEY CO. ENGR.

2236

PLAN SURVEYED BY DATE
 PLOTTED BY
 NOTE BOOK NO. ALIGNMENT CHECKED. RT. OF WAY CHECKED.

PROFILE SURVEYED BY DATE
 PLOTTED BY
 NOTE BOOK NO. GRADES CHECKED. STRUCTURE NOTATIONS CH'ND



FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

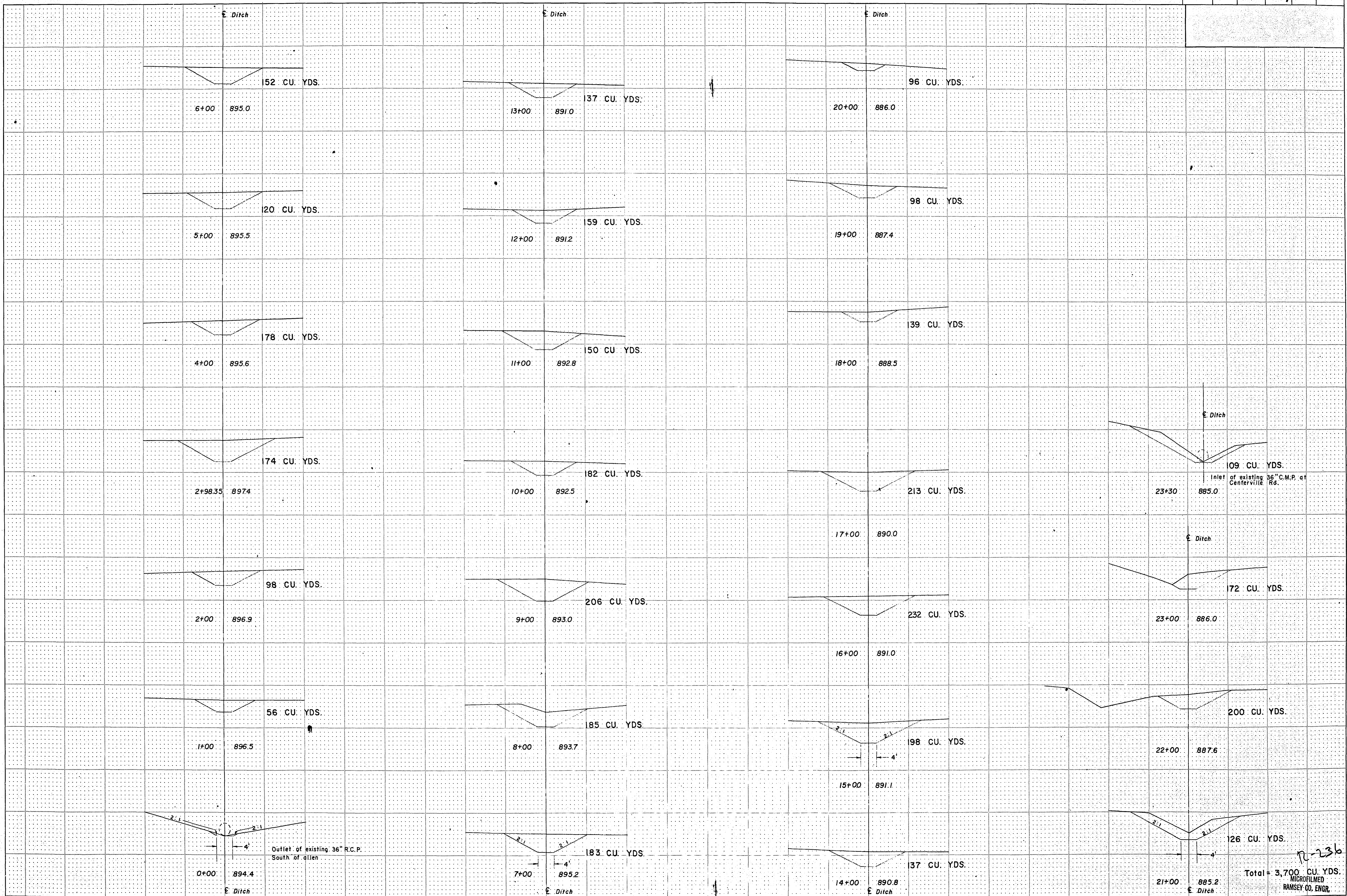
BY _____ DATE _____

NO. _____

ORIGINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

BY _____ DATE _____

NO. _____



Total = 3,700 CU. YDS.
MICROFILMED
RAMSEY CO. ENGR.

n-23b