

# PLANS SYMBOLS

STATE LINE  
COUNTY LINE  
TOWNSHIP OR RANGE LINE  
SECTION LINE  
QUARTER LINE  
SIXTEENTH LINE  
RIGHT OF WAY LINE  
PRESENT RIGHT OF WAY LINE  
CONTROL OF ACCESS LINE  
PROPERTY LINE (Except Land Lines)  
VACATED PLATTED PROPERTY  
CORPORATE OR CITY LIMITS  
TRUNK HIGHWAY CENTER LINE  
RETAINING WALL  
RAILROAD  
RAILROAD RIGHT OF WAY LINE  
RIVER OR CREEK  
DRY RUN  
DRAINAGE DITCH  
DRAIN TILE  
CULVERT  
DROP INLET  
GUARD RAIL  
BARBED WIRE FENCE  
WOVEN WIRE FENCE  
CHAIN LINK FENCE  
RAILROAD SHOW FENCE  
STONE WALL OR FENCE  
HEDGE  
RAILROAD CROSSING SIGN  
RAILROAD CROSSING SIGN  
ELECTRIC WARNING SIGN  
CROSSING GATE  
MEANDER CORNER

SPRINGS  
MARSH  
TIMBER  
ORCHARD  
BRUSH  
NURSERY  
CATCH BASIN  
FIRE HYDRANT  
CATTLE GUARD  
OVERPASS (Highway Over)  
UNDERPASS (Highway Under)  
BRIDGE  
BUILDING (One Story Frame)  
P FRAME C CONCRETE  
S STONE T TILE  
B BRICK ST STUCCO  
IRON PIPE OR ROD  
MONUMENT (STONE, CONCRETE, OR METAL)  
WOODEN HUB  
GRAVEL PIT  
SAND PIT  
BORROW PIT  
ROCK QUARRY

# UTILITIES SYMBOLS

POWER POLE LINE  
TELEPHONE OR TELEGRAPH  
POLE LINE  
JOINT TELEPHONE AND POWER  
ON TELEPHONE POLES  
ANCHOR  
STEEL TOWER  
STREET LIGHT  
PEDESTAL TELEPHONE CABLE  
TERMINAL  
GAS MAIN  
WATER MAIN

CONDUIT  
TELEPHONE CABLE IN CONDUIT  
ELECTRIC CABLE IN CONDUIT  
TELEPHONE MANHOLE  
ELECTRIC MANHOLE  
BURIED TELEPHONE CABLE  
BURIED ELECTRIC CABLE  
AERIAL TELEPHONE CABLE  
SEWER (SANITARY OR STORM)  
SEWER MANHOLE

END PROJECT  
STA. 82+02

BEGIN PROJECT  
STA. 0+00

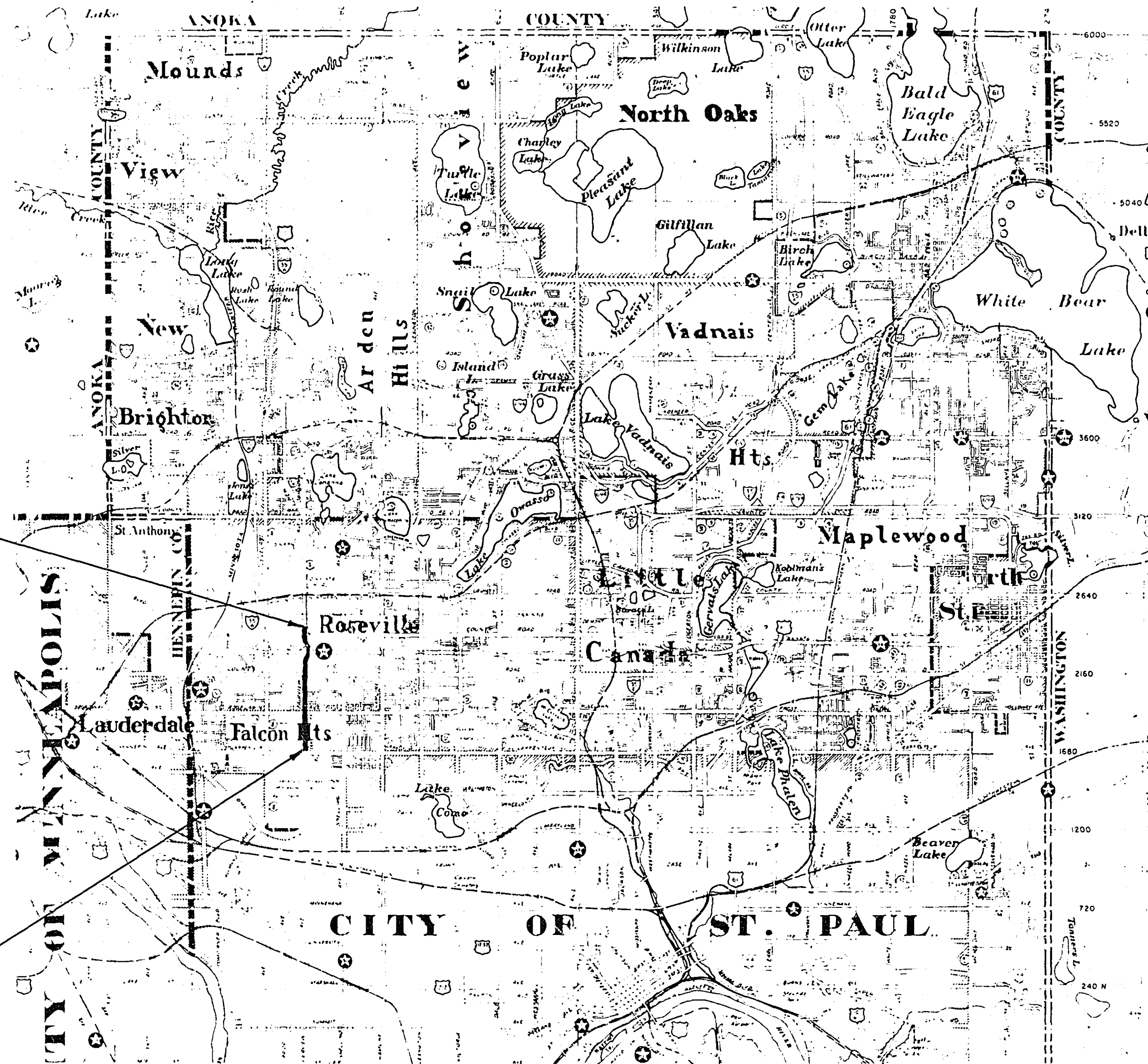
# PIT DATA

PIT NO. Located in  
Dead Haul  
PIT NO. Located in  
Dead Haul

THE 1978 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION  
"STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" SHALL GOVERN.

FAIRVIEW AVE. GROSS LENGTH 8,202 FEET = 1.5534 MILES  
BRIDGES-LENGTH FEET = MILES  
EXCEPTIONS-LENGTH FEET = MILES  
NET LENGTH 8,202 FEET = 1.5534 MILES

PLAN  
CROSS SECTIONS  
LAYOUT



# OFFICE OF COUNTY ENGINEER RAMSEY COUNTY FAIRVIEW AVENUE BIKEWAY

CONSTRUCTION PLAN FOR: BITUMINOUS BIKEWAY  
BETWEEN: LARPEUR AVE. AND COUNTY RD. B<sup>2</sup>  
COUNTY PROJECT NO. 78-048-02  
S.A.P. NO. 62-648-08

# TRAFFIC VOLUMES

Larpeur to Roselawn 3850 ADT 1977  
Roselawn to County Rd. B 5225 ADT 1977  
County Rd. B to T.H. 36 8725 ADT 1977  
T.H. 36 to County Rd. B<sup>2</sup> 19500 ADT 1977

# INDEX

| SHEET NO. | DESCRIPTION                             |
|-----------|-----------------------------------------|
| 1         | TITLE SHEET                             |
| 2         | ESTIMATED QUANTITIES & TYPICAL SECTIONS |
| 3-7       | PLAN SHEETS                             |
| 8         | CROSS SECTION NO. "B <sup>2</sup> "     |

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.  
Date 4-5-78 Reg. No. 12703

RECOMMENDED FOR APPROVAL DATE  
ENVIRONMENTAL ENGINEER  
RECOMMENDED FOR APPROVAL DATE 4/5/78  
MAINTENANCE ENGINEER  
RECOMMENDED FOR APPROVAL DATE  
CONSTRUCTION ENGINEER  
RECOMMENDED FOR APPROVAL DATE  
P.O.M. ENGINEER  
RECOMMENDED FOR APPROVAL DATE  
TRAFFIC ENGINEER  
APPROVED DATE 4-5-78

RECOMMENDED FOR APPROVAL DATE 5-17-78  
COUNTY ENGINEER  
APPROVED DATE 3-24-80  
CHAIRMAN OF THE RAMSEY COUNTY BOARD  
APPROVED DATE  
APPROVED DATE

MINNESOTA DEPARTMENT OF TRANSPORTATION  
RECOMMENDED FOR APPROVAL DATE 3-6-79  
DISTRICT STATE AID ENGINEER  
RECOMMENDED FOR APPROVAL DATE 8/3/79  
APPROVAL DATE 8/7/79  
DIRECTOR, OFFICE OF STATE AID

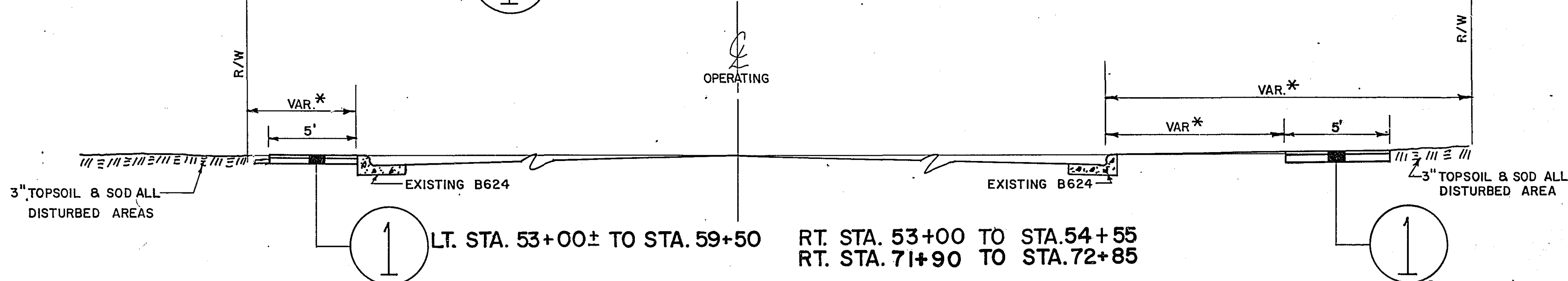
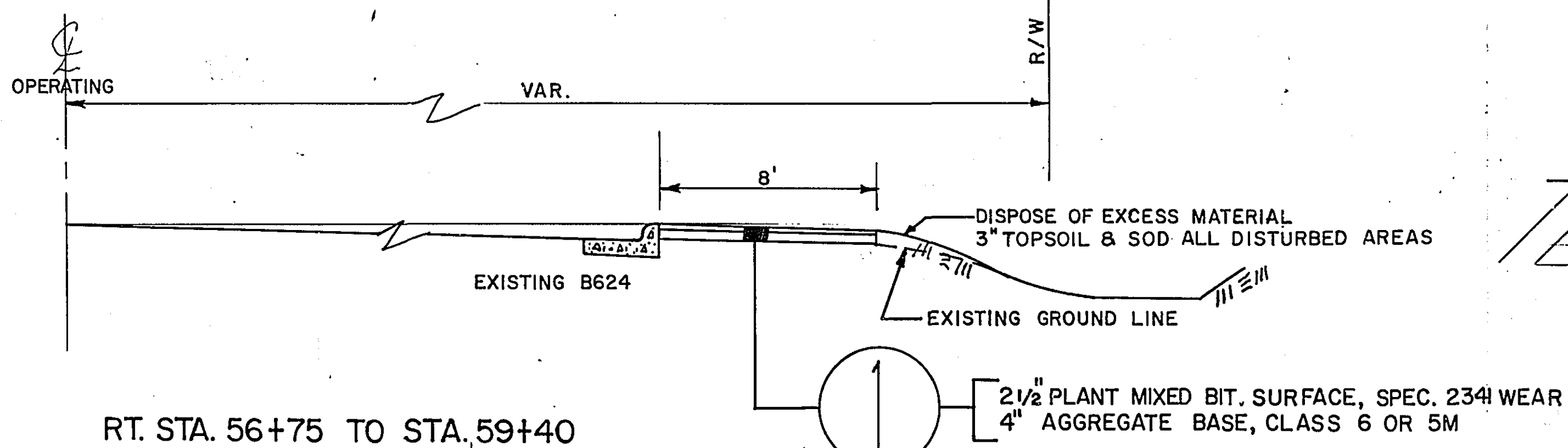
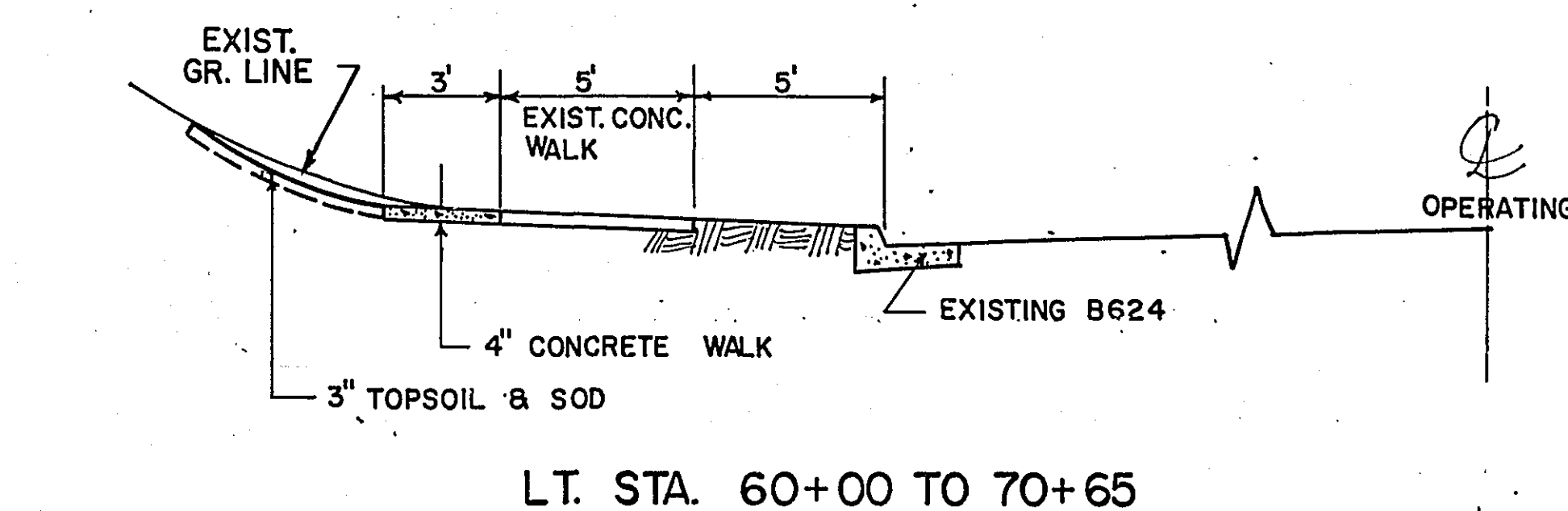
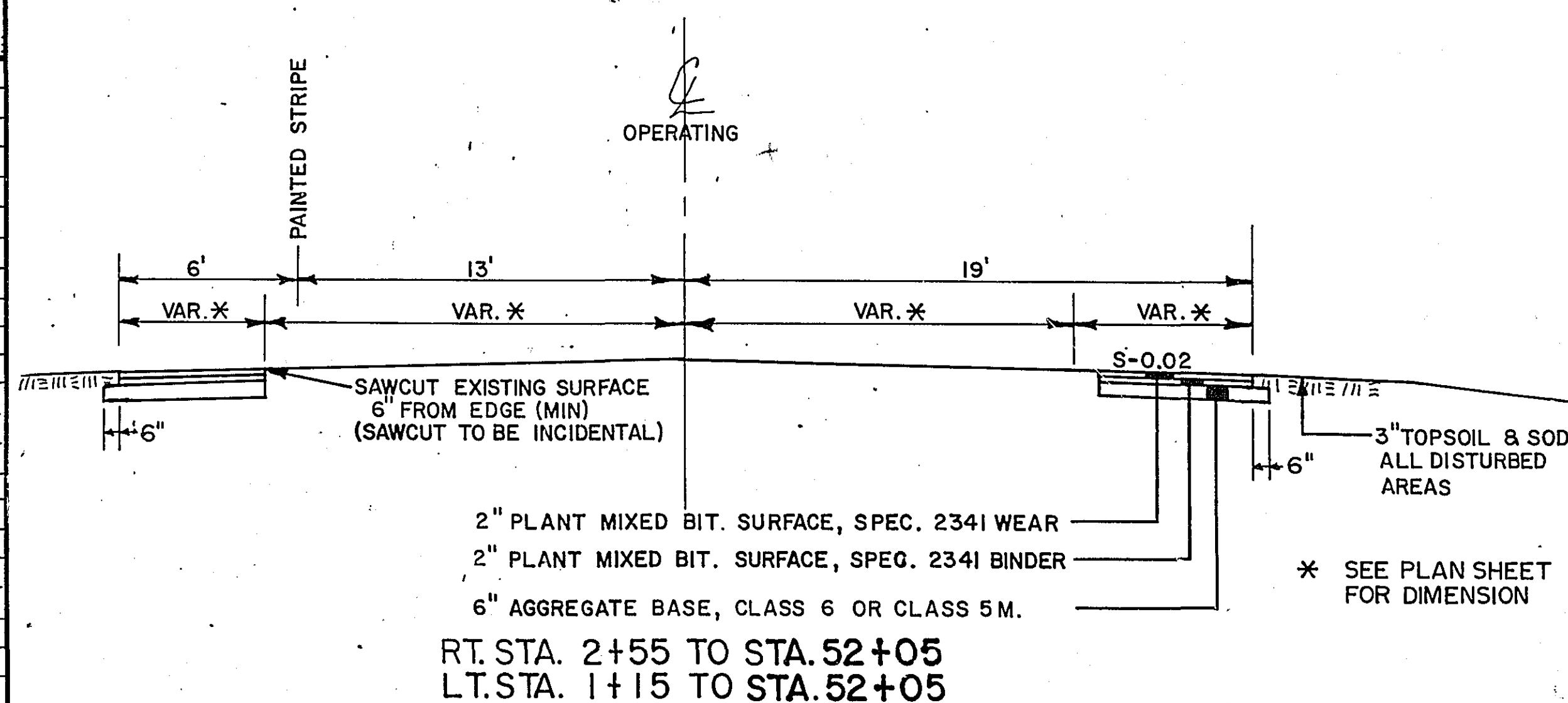
# ASBUILT PLAN CONFORMING TO CONST. RECORDS

DONE BY  
DATE: 1/25/82

| REVISED | DATE    | DESIGNED BY | DRAWN BY | CHECKED BY |
|---------|---------|-------------|----------|------------|
|         | 7-10-78 |             |          |            |
|         |         |             |          |            |
|         |         |             |          |            |
|         |         |             |          |            |

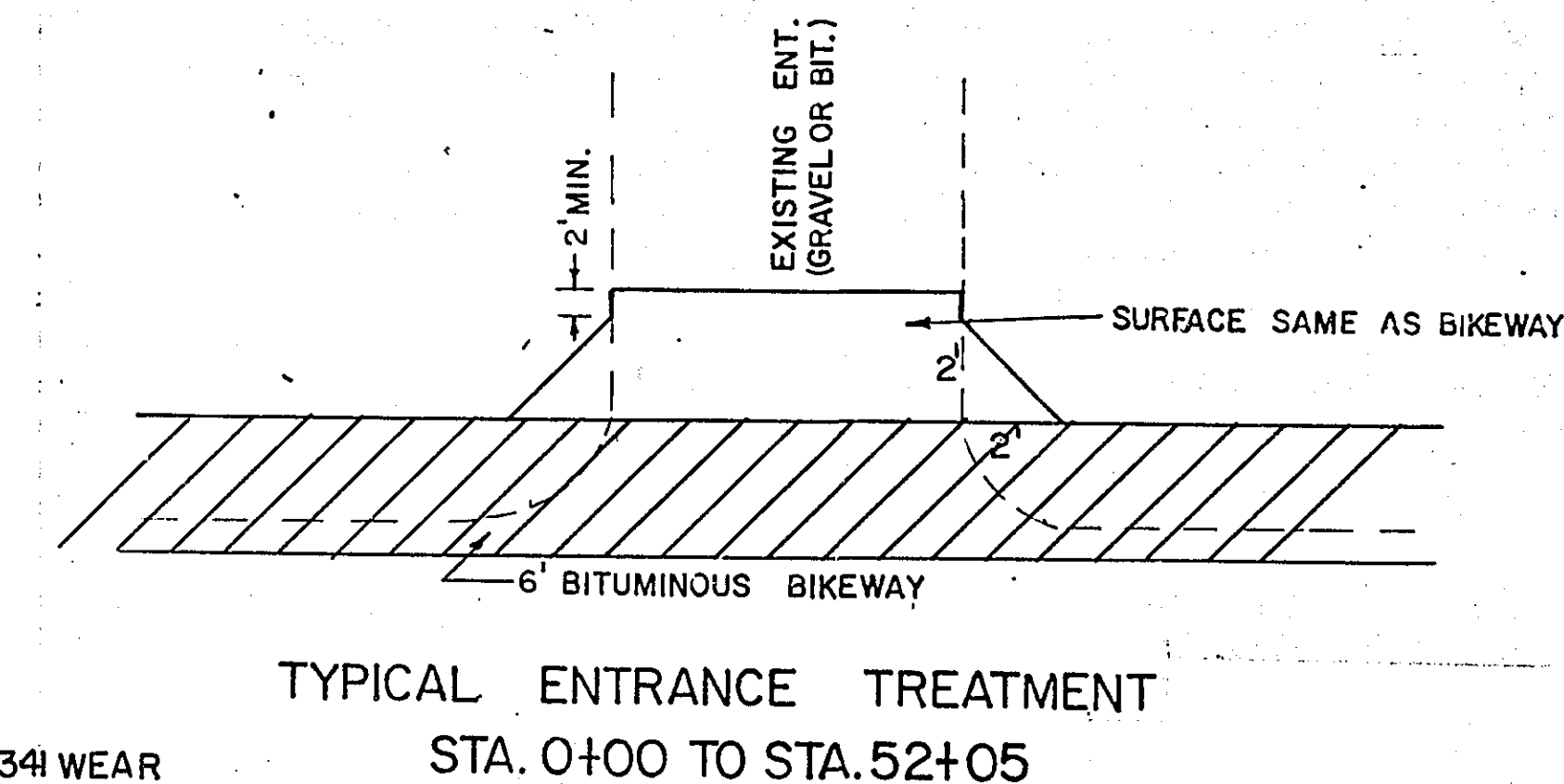
| STATEMENT OF ESTIMATED QUANTITIES |                                          |      |                      |                            |
|-----------------------------------|------------------------------------------|------|----------------------|----------------------------|
| ITEM NO.                          | ITEM                                     | UNIT | ESTIMATED QUANTITIES | FINAL ESTIMATED QUANTITIES |
| 2101.502                          | CLEARING                                 | TREE | 7                    |                            |
| 2101.507                          | GRUBBING                                 | TREE | 2                    |                            |
| 2104.501                          | REMOVE CONCRETE CURB & GUTTER            | L.F. | 320                  |                            |
| 2104.503                          | REMOVE CONCRETE WALK                     | S.F. | 1,000                |                            |
| 2105.501                          | COMMON EXCAVATION                        | C.Y. | 2,607                |                            |
| 2105.525                          | TOPSOIL BORROW (L.V.)                    | C.Y. | 445                  |                            |
| 2211.501                          | AGGREGATE BASE, CLASS 6 OR 5M            | TON  | 2,568                |                            |
| 2341.504                          | BITUMINOUS MATERIAL FOR MIXTURE          | TON  | 78                   |                            |
| 2341.508                          | WEARING COURSE MIXTURE FOR BIKEWAY       | TON  | 825                  |                            |
| 2341.510                          | BINDER COURSE MIXTURE FOR BIKEWAY        | TON  | 720                  |                            |
| 2357.502                          | BITUMINOUS MATERIAL FOR TACK COAT        | GAL. | 312                  |                            |
| 2358.501                          | BITUMINOUS MATERIAL FOR PRIME COAT       | GAL. | 2,262                |                            |
| 2521.501                          | 4" CONCRETE WALK                         | S.F. | 4,225                |                            |
| 2531.501                          | CONCRETE CURB AND GUTTER, DESIGN B624    | L.F. | 320                  |                            |
| 2575.505                          | SODDING                                  | S.Y. | 6,010                |                            |
| 2575.531                          | COMMERCIAL FERTILIZER, ANALYSIS 12-12-12 | TON  | 0.4                  |                            |
| 563.640                           | FURNISH AND INSTALL TRAFFIC SIGN (D11-1) | SIGN | 23                   |                            |
| 569.602                           | 4" WIDE WHITE EDGE LINE                  | L.F. | 9,600                |                            |
| 569.614                           | PAVEMENT MESSAGE (BICYCLE SYMBOLS)       | EACH | 18                   |                            |

# TYPICAL SECTIONS

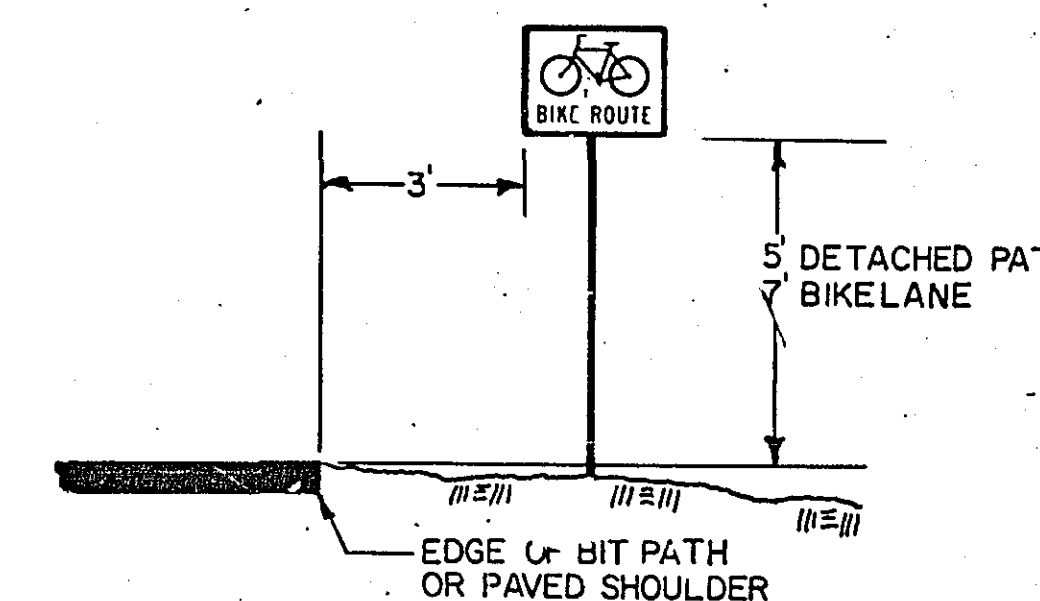
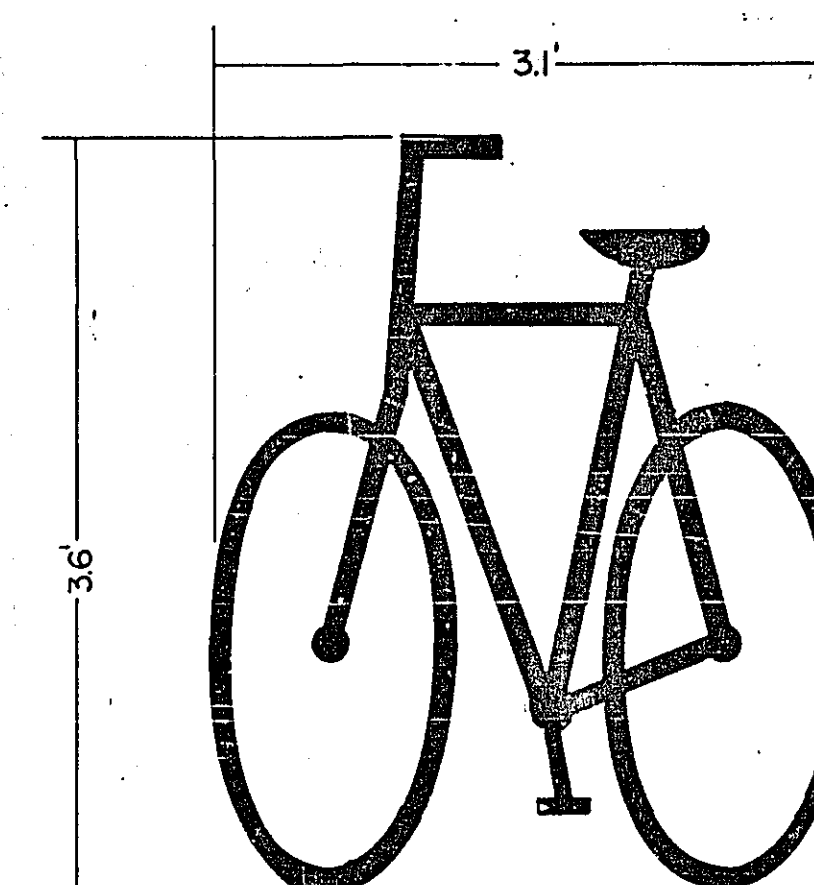


# STANDARD DETAIL PLATES

| ITEM NO. | SPECIFICATION REFERENCE TO STANDARD PLATE |
|----------|-------------------------------------------|
| 0002A    | CONCRETE WALK                             |
| 7035J    | PEDESTRIAN CURB RAMPS                     |
| 7036B    | CONCRETE CURB & GUTTERS                   |
| 7100E    | STANDARD BARRICADES                       |
| 8000F    |                                           |



# TYPICAL SIGN & PAVEMENT MESSAGE PLACEMENT



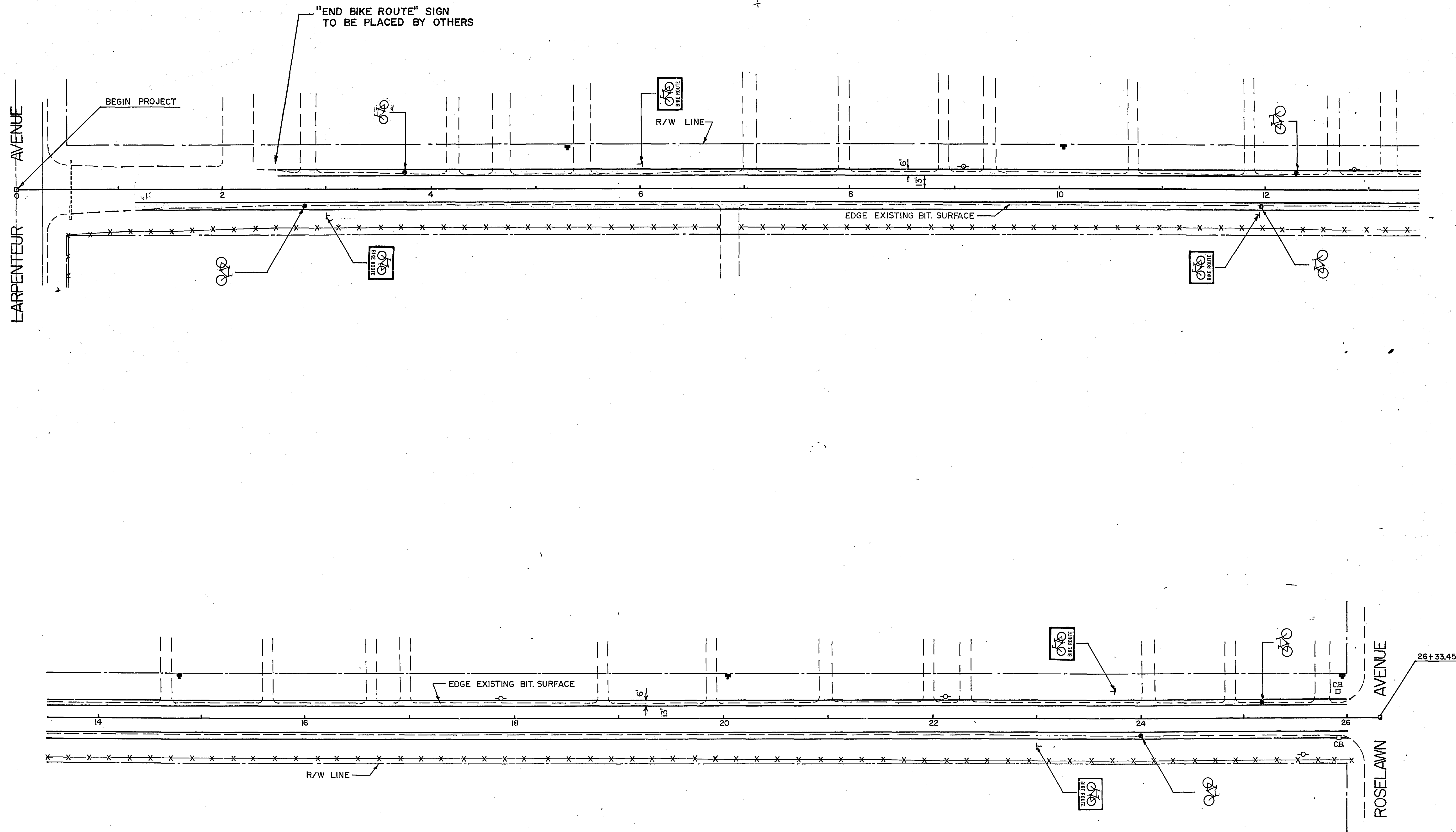
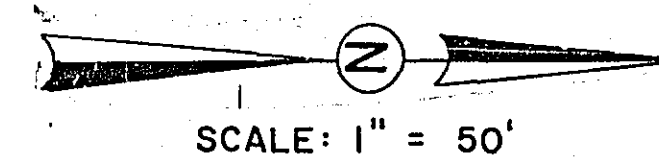
ASBUILT PLAN  
CONFORMING TO  
CONST. RECORDS

DONE BY: *GRB*  
DATE: 1/25/82

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.

Date: 4-5-78 Reg. No. 12702

| REVISED       | DATE    | DESIGNED BY |
|---------------|---------|-------------|
| RET. WALL     | 5-10-78 |             |
| TYP. SECTIONS | 7-7-78  |             |
| PLAN QTY'S    | 7-7-78  |             |
| TYP. QTY'S    | 6-14-79 |             |
| Wall Removal  |         |             |



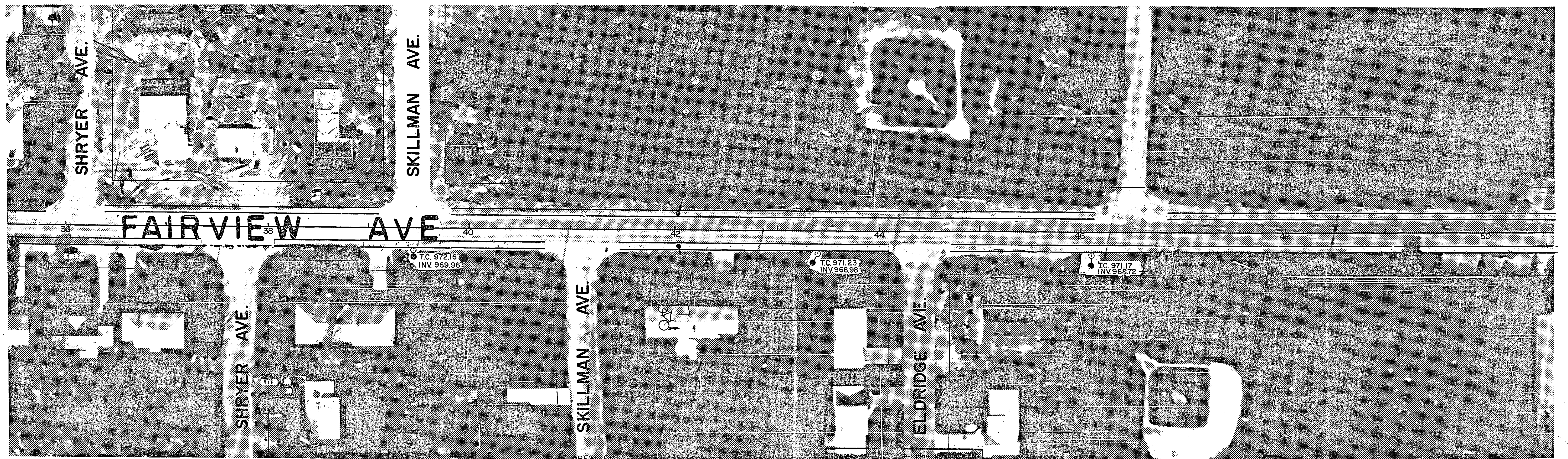
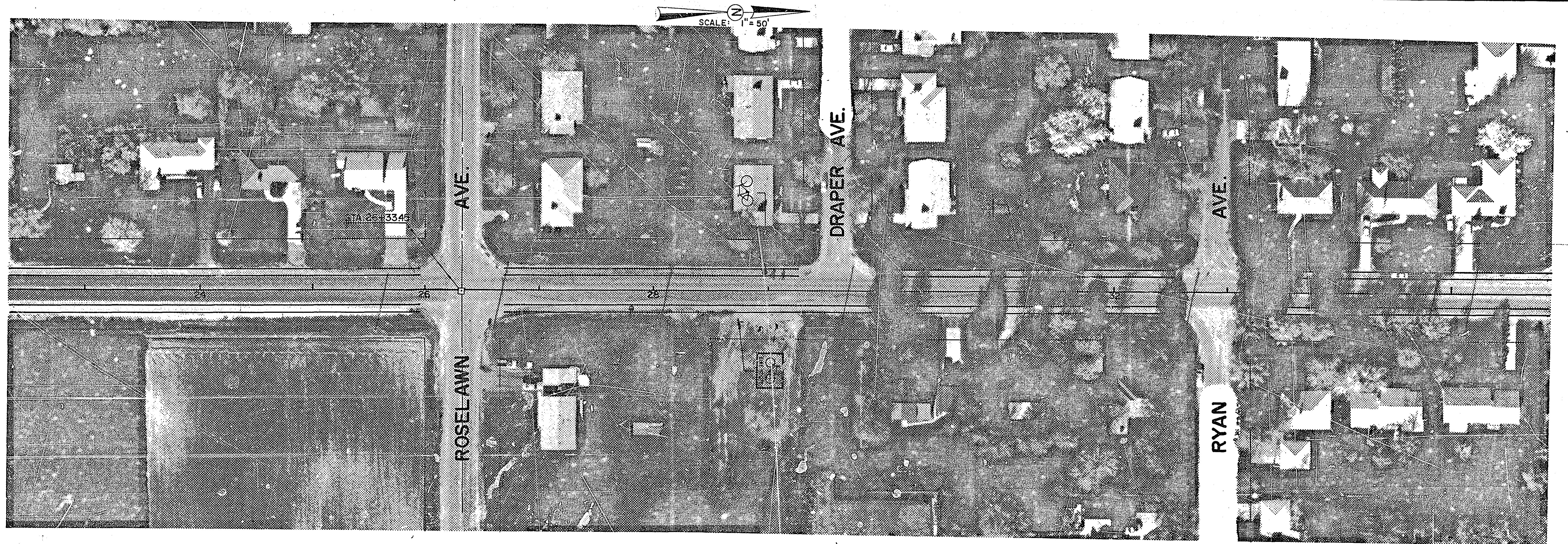
| REVISED | DATE   | DESIGNED BY |  |
|---------|--------|-------------|--|
| SIGNS   | 7-7-78 | DRAWN BY    |  |
|         |        | CHECKED BY  |  |
|         |        |             |  |
|         |        |             |  |

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.

*Paul K. Kuhl*  
Date: 4-5-78 Reg. No. 12723

**ASBUILT PLAN**  
CONFORMING TO  
CONST. RECORDS

DONE BY: *SKC*  
DATE: 1/25/82



| SIGNS | 77-78 | DESIGNED BY |  |
|-------|-------|-------------|--|
|       |       | DRAWN BY    |  |
|       |       | CHECKED BY  |  |
|       |       |             |  |
|       |       |             |  |

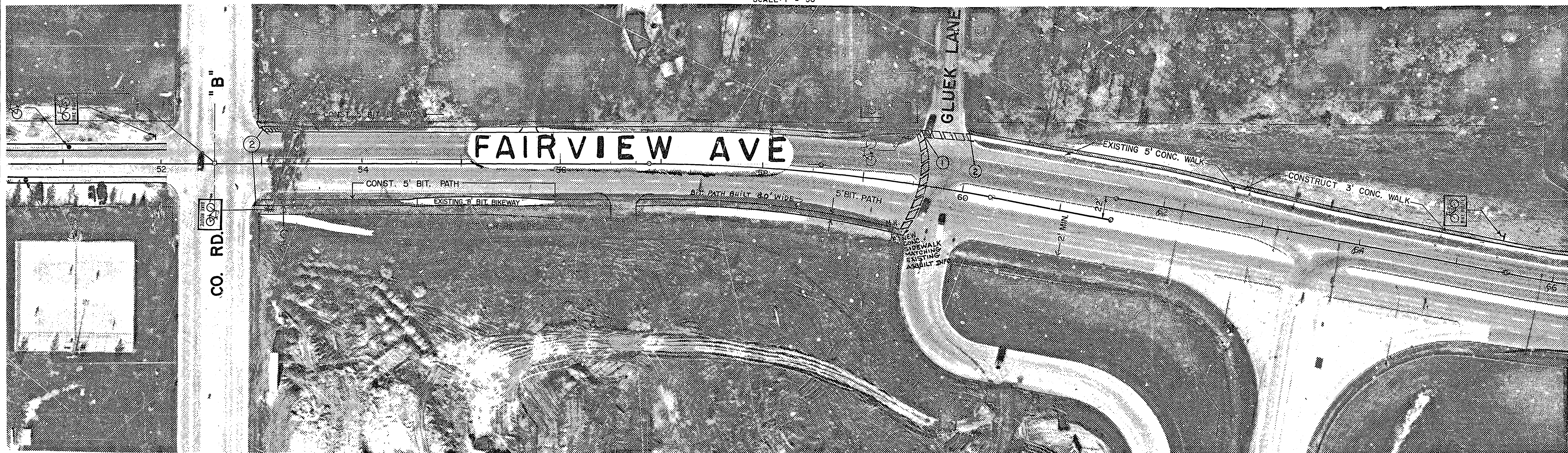
This report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

*Paul R. K...*

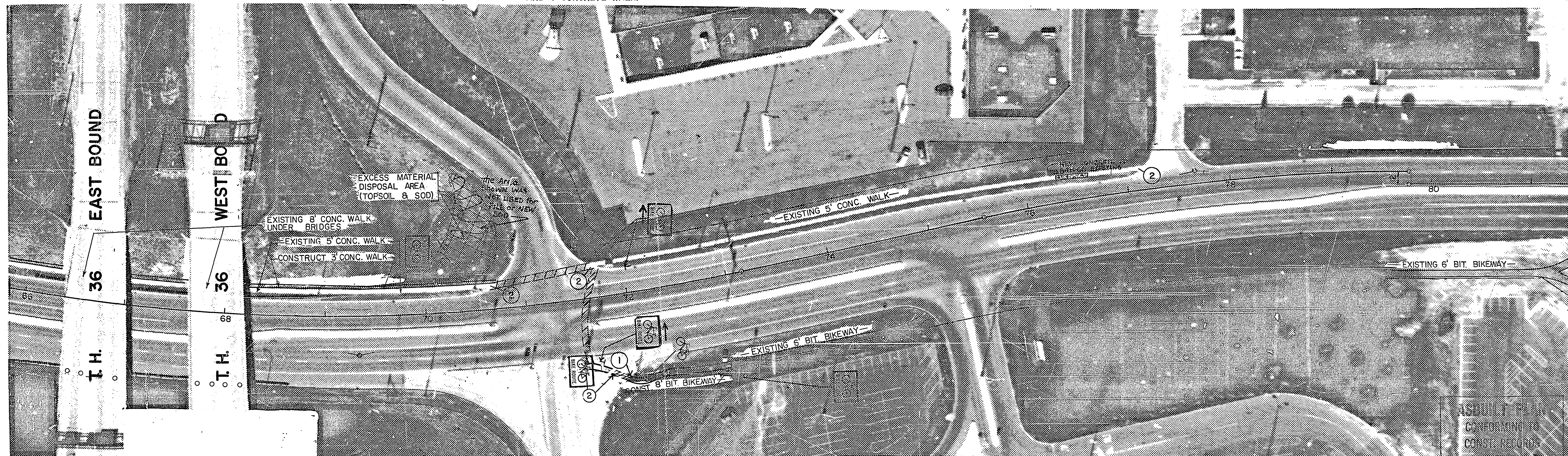
Date 4-5-78 Reg. No. 62303

NOTE: THE FOLLOWING SYMBOL—●— INDICATES NEW SURFACE DRAIN

DATE: 1/25/82



- ① REMOVE INPLACE CONCRETE CURB & GUTTER. CONSTRUCT CONCRETE CURB & GUTTER WITH PEDESTRIAN CURB RAMP, (STD. PLATE NO. 7036B)
- ② REMOVE INPLACE CONCRETE CURB & GUTTER AND CONCRETE WALK AS DIRECTED BY THE ENGINEER. CONSTRUCT CONCRETE CURB & GUTTER WITH PEDESTRIAN CURB RAMP (STD. PL. 7036B) AND 4" CONCRETE WALK.



| REVISED   | DATE    | DESIGNED BY |
|-----------|---------|-------------|
| RET. WALL | 5-10-78 |             |
| SIGNS     | 7-7-78  | DRAWN BY    |
| Path      | 6-14-79 | CHECKED BY  |
|           |         |             |
|           |         |             |

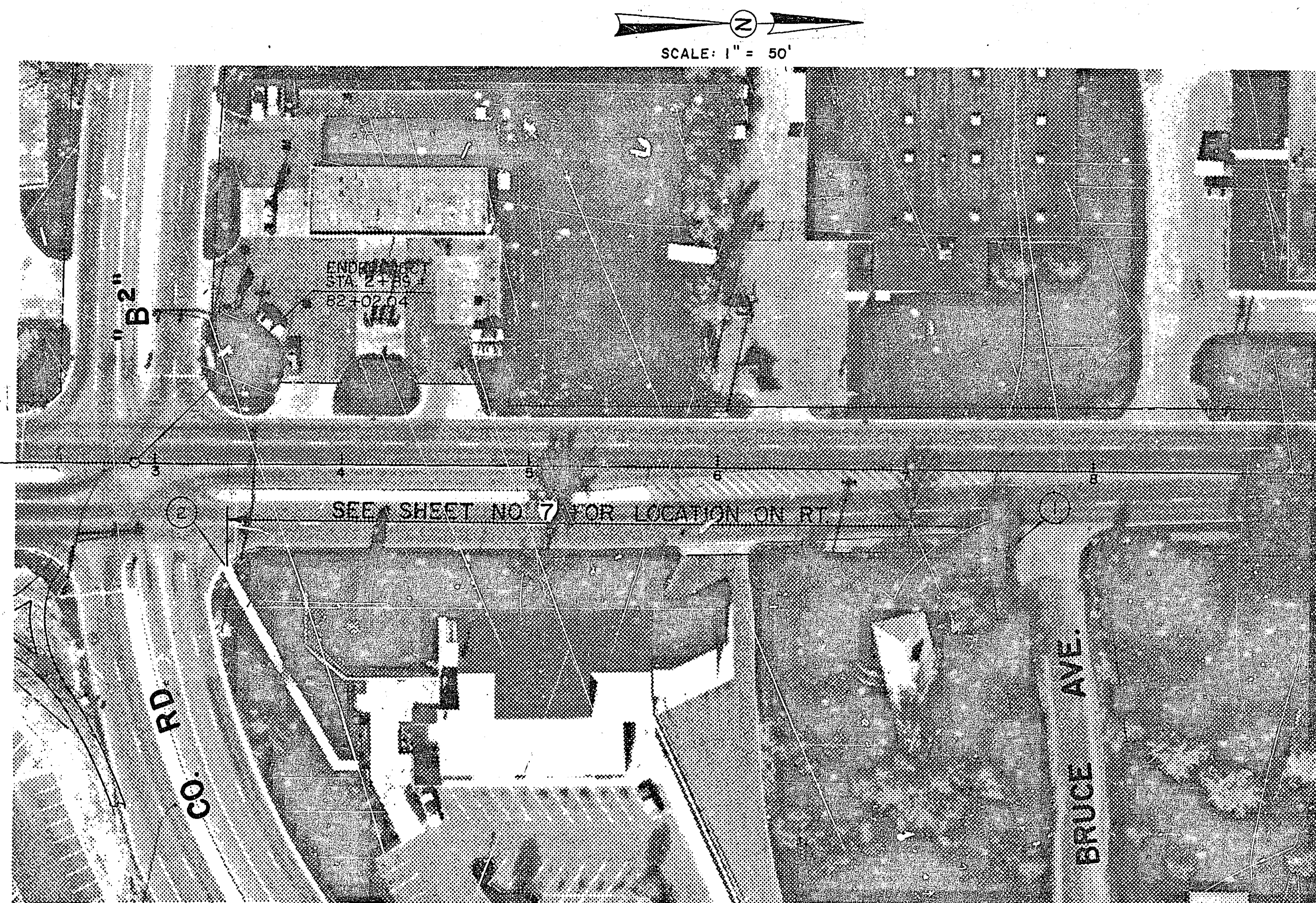
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

*John H. H. H.*

Date 4-5-78 Reg. No. 12723

DONE BY: *CRB*

DATE: 1/25/82



STA. 2+89 TO 7+80  
FUTURE CONSTRUCTION  
NOT PART OF THIS PROJECT

**ASBUILT PLAN**  
CONFORMING TO  
CONST. RECORDS  
*Future Const.*  
DONE BY: *CR*  
DATE: 1/25/82

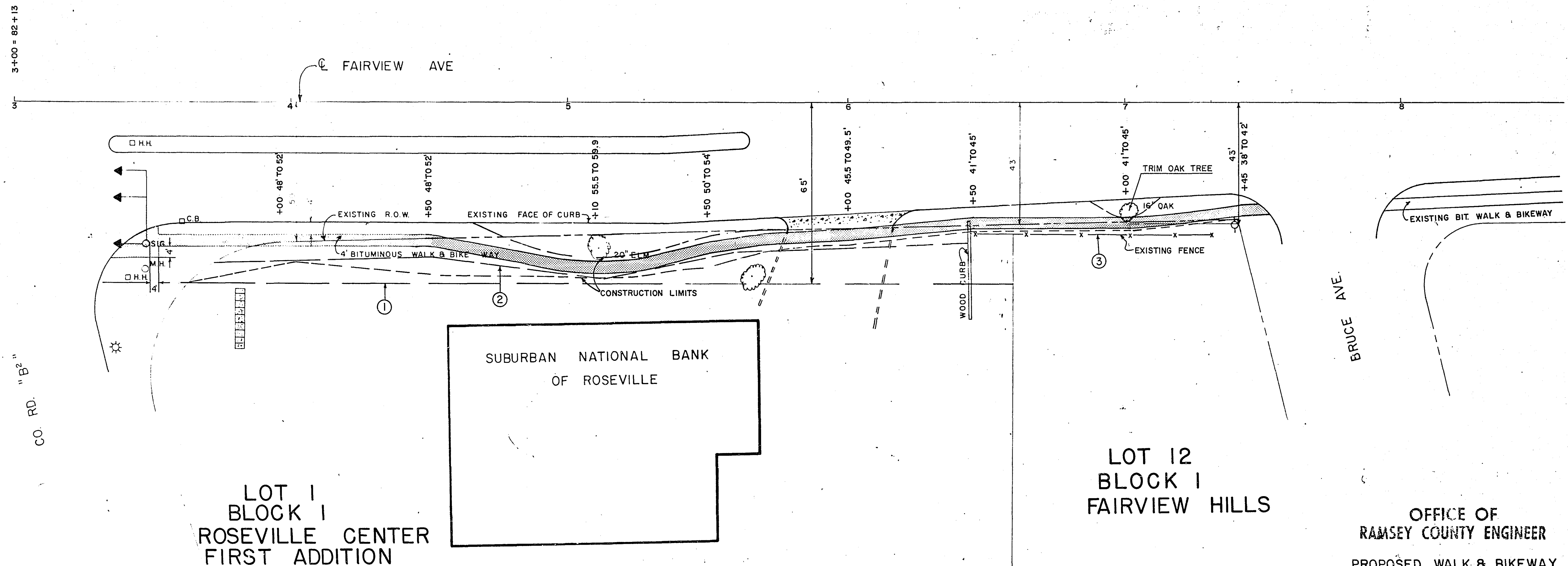
| REVISED | DATE    | DESIGNED BY |  |
|---------|---------|-------------|--|
|         | 7-10-78 | DRAWN BY    |  |
|         |         | CHECKED BY  |  |
|         |         |             |  |
|         |         |             |  |

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.  
*Paul H. Lind*  
Date 4-5-78 Reg. No. 12703

# FUTURE CONSTRUCTION for information only NOT PART OF THIS PROJECT

SCALE: 1" = 20'

- ① TEMPORARY SLOPE EASEMENT & CONSTRUCTION PERMIT OVER PROPERTY WITHIN 65' OF C. OF FAIRVIEW AVE.
- ② PERMANENT EASEMENT FOR WALKWAY PURPOSES OVER THE WESTERLY 7 FEET OF THE TANGENT PORTION AND TANGENT LINE EXTENDED SOUTHERLY OF LOT 1, BLOCK 1, ROSEVILLE CENTER FIRST ADDITION AND THE FOLLOWING DESCRIBED PART OF SAID LOT 1; BEGINNING AT A POINT 7 FEET EAST OF THE WEST LINE AND 100 FEET SOUTH OF THE NORTH LINE OF SAID LOT 1, BLOCK 1, ROSEVILLE CENTER FIRST ADDITION; THENCE SOUTHERLY TO A POINT 16 FEET EAST OF THE WEST LINE AND 150 FEET SOUTH OF THE NORTH LINE OF SAID LOT 1; THENCE SOUTHERLY TO A POINT 7 FEET EAST OF THE WEST LINE AND 210 FEET SOUTH OF THE NORTH LINE OF SAID LOT 1; THENCE NORTHERLY PARALLEL TO THE WEST LINE OF SAID LOT 1, BLOCK 1, ROSEVILLE CENTER FIRST ADDITION TO THE POINT OF BEGINNING.
- ③ PERMANENT EASEMENT FOR WALKWAY PURPOSES OVER WEST 4.5 FEET OF LOT 12, BLOCK 1, FAIRVIEW HILLS.



LOT 1  
BLOCK 1  
ROSEVILLE CENTER  
FIRST ADDITION

SUBURBAN NATIONAL BANK  
OF ROSEVILLE

LOT 12  
BLOCK 1  
FAIRVIEW HILLS

OFFICE OF  
RAMSEY COUNTY ENGINEER

PROPOSED WALK & BIKEWAY  
FAIRVIEW AVENUE

3-7-74

REV. 8-9-74  
REV. 3-14-78

| REVISED | DATE    | DESIGNED BY | DRAWN BY | CHECKED BY |
|---------|---------|-------------|----------|------------|
|         | 1-10-78 |             |          |            |
|         |         |             |          |            |
|         |         |             |          |            |
|         |         |             |          |            |

ASBUILT PLAN  
CONFORMING TO  
CONST. RECORDS

DONE BY: *Future Const.*  
DATE: 1/25/82

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.

Date: 4-5-78 Reg. No. 12783

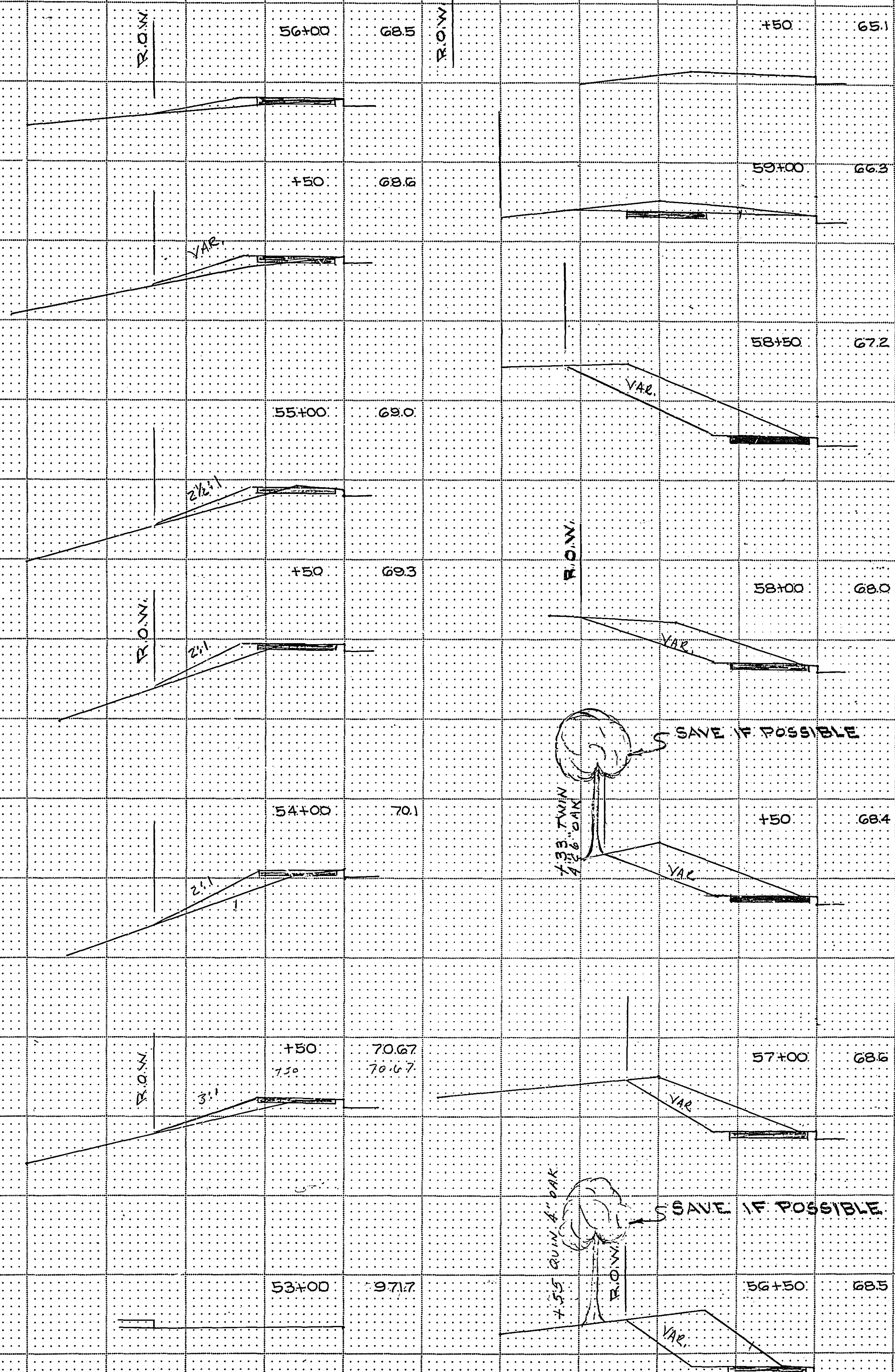
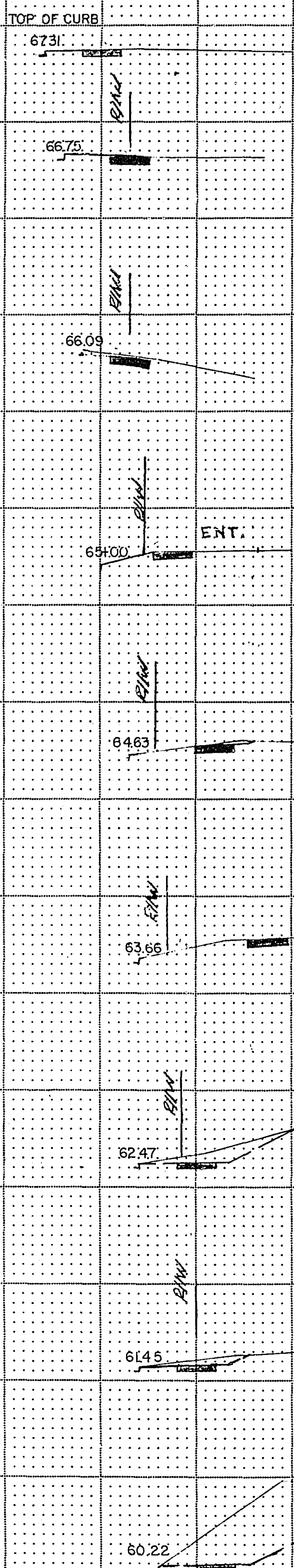
CO. PROJ. NO. 78-048-02

S.A.P. 62-648-08

SHEET 7 OF 8 SHEETS

25-119

FOR INFORMATION ONLY NOT PART  
OF THIS PROJECT



| REVISED    | DATE    | DESIGNED BY |
|------------|---------|-------------|
| RET. WALL  | 5-10-78 |             |
| X Sections | 7-10-78 |             |
|            |         | DRAWN BY    |
|            |         | CHECKED BY  |

ASCUIT PLAN  
CONFORMING TO  
CONST. RECORDS

DONE BY: *CRB*  
DATE: 1/25/82

I hereby certify that this plan, specification,  
or report was prepared by me or under my  
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Registered Professional Engineer under  
the laws of the State of Minnesota.  
*Paul K. Schell*  
Date 4-5-78 Reg. No. 12703