

| INDEX OF SHEETS | |
|-----------------|---|
| No. | DESCRIPTION |
| A Sheets | Title Sheets |
| A.1 | Title Sheet |
| A.2 | Location Map Sheet |
| B Sheets | Typical Cross Sections and Details |
| B.1 | Typical Cross Sections and Details |
| C Sheets | Quantities and General Information |
| C.1 | Estimated Project Quantities |
| C.1 | Estimate Reference Information |
| C.2 | Project Description |
| C.2 | Index of Tabulations |
| C.2 | General Notes |
| C.2 - 3 | Tabulations |
| D Sheets | Mainline Plan and Profile Sheets |
| D.1 - 11 | As-Built Plan and Profile Sheets |
| J Sheets | Traffic Control and Staging Sheets |
| J.1 | Traffic Control Plan |
| J.2 | Allowable Closure Map |



PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
HAMILTON COUNTY
Pavement Planing/Grooving
1 mi N of IA 175 to 1 mi N of Co Rd D41 (NB)

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



REVISIONS

| | |
|-------------------------------|--|
| TOTAL | |
| 19 | |
| PROJECT IDENTIFICATION NUMBER | |
| 25-40-035-010 | |
| PROJECT NUMBER | |
| IMX-035-5(139)134--02-40 | |
| R.O.W. PROJECT NUMBER | |
| (--) | |
| | |
| | |

| INDEX OF SEALS | | | |
|----------------|-------------------|-------------------------|---------------------|
| SHEET NO. | NAME | TYPE | BID QUANTITY SHEETS |
| A.1 | Jeremey Vortherms | Primary Signature Block | C.1 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

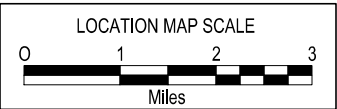
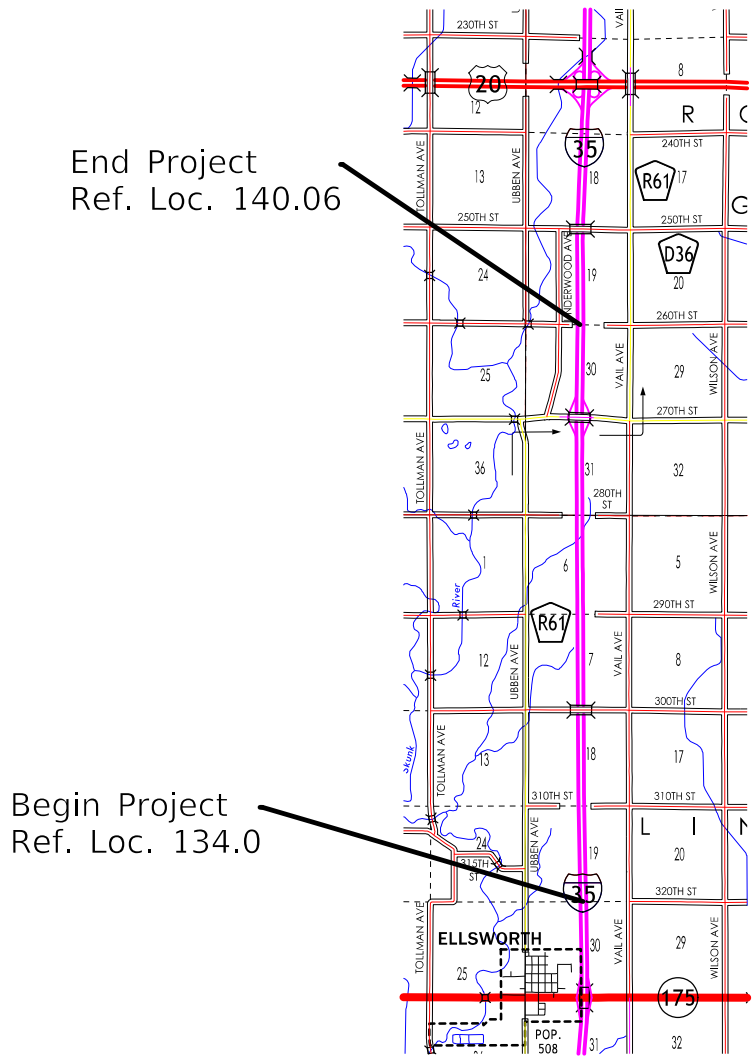
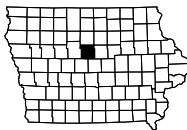
Signature
Jeremey J. Vortherms

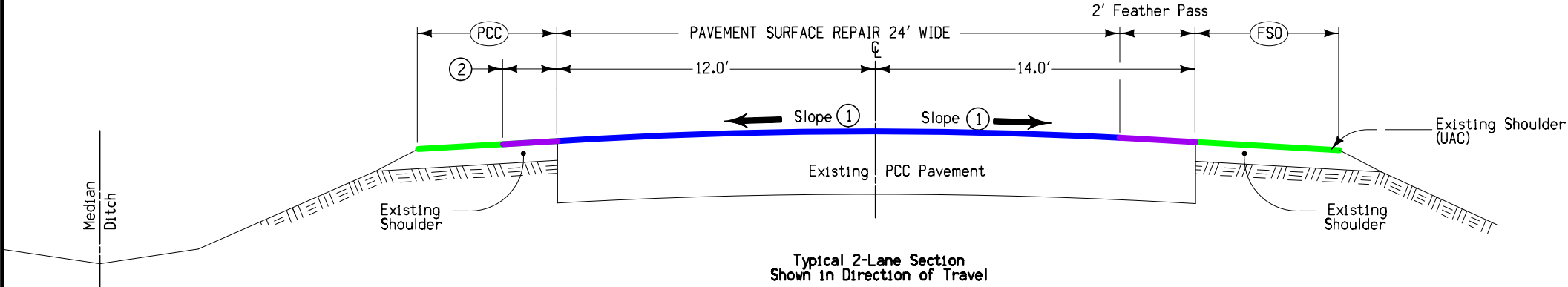
Date
3-31-2026

Printed or Typed Name

My license renewal date is December 31, 20 26

Pages or sheets covered by this seal: _____
A.1-2, B.1, C.1-3, D.1-11, J.1-2





- Notes:
- ① Finished slope shall be maximum 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as directed by the Engineer through areas of special shaping.
 - ② 2.0' Feather Pass as necessary to provide drainage.

| TABLE OF DESIGN QUANTITIES | | | | | | * Bid Items | | | |
|----------------------------|-----------------------|-----------------------|-----------------|------------|-------------------|-----------------------------------|----------|--------|--|
| LOCATION | | Bridge Deduction Feet | Net Length Feet | Width Feet | Shoulder Fog Seal | PAV'T REPAIR LIMESTONE Sq. Yds. * | FOG SEAL | | |
| ROAD IDENTIFICATION | MILEPOST TO MILEPOST | | | | (FSO) Feet | | Sq. Yds. | Gal. * | |
| I-35 (Northbound Lanes) | MP 134.0 MP 140.06 | 0 | 31,997 | 24 | 8 | 85,325 | 28,442 | 3697 | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | TOTALS | 85,325 | | 3,697 | |

TYPICAL CROSS SECTION
DIAMOND GRINDING
AND SHOULDER FOG SEAL

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Roadway Items : Roadway Items

| Item no. | Item Code | Item | Unit | Quantities | Estimate Reference Notes |
|----------|--------------|--|------|---------------|--|
| | | | | Estimated | |
| | | | | Roadway Items | |
| 1 | 2308-1000000 | ASPHALT EMULSION FOR FOG SEAL (SHOULDERS) | GAL | 3,697 | Refer to typical 2602 in B sheets. |
| 2 | 2527-9263209 | PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED | STA | 733.84 | Refer to tab 108-22 in the C sheets. |
| 3 | 2527-9263216 | PAINTED PAVEMENT MARKINGS, MULTI-COMPONENT LIQUID | STA | 813.83 | |
| 4 | 2527-9270112 | GROOVES CUT FOR PAVEMENT MARKINGS | STA | 825.3 | |
| 5 | 2528-8445110 | TRAFFIC CONTROL | LS | 1 | Refer to traffic control plan in J sheets. |
| 6 | 2532-5200001 | PAVEMENT SURFACE REPAIR (GRINDING LIMESTONE) | SY | 85,325 | Refer to typical 2602 in B sheets. The contractor shall not discharge slurry around existing cable guardrail footings. On interstate and primary road projects this item requires adding bid item 2557-0000100 LONGITUDINAL GROOVING IN CONCRETE, PAVEMENT to the project to groove all areas that are diamond ground. |
| 7 | 2533-4980005 | MOBILIZATION | LS | 1 | -- |
| 8 | 2542-1006001 | CRACK AND JOINT CLEANING AND FILLING (PCC PAVEMENT) | MILE | 6.06 | Within grinding limits. |
| 9 | 2542-1007000 | SEALER MATERIAL (PCC PAVEMENT) | LB | 1,796.9 | Project sealer quantity for work locations is estimated for 4608 LF for transverse and 5730 LF of longitudinal plus 25% additional 12922.5 LF = 117178.5 LF total joints and cracks assuming typical dimensions of 1/2(3/4 x 3/4) or 3.375 cu.in./LF = 43613.4 cu.in. and using 233 cu.in./gal @ 9.6 pounds/gal.=1796.9 pounds. |
| 10 | 2557-0000100 | LONGITUDINAL GROOVING IN CONCRETE, PAVEMENT | SY | 85,325 | Refer to Tab 100-28 in C sheets. |
| | | | | | |

PAVEMENT MARKING LINE TYPES

See PM-110

* Place on the same side of the roadway to match existing markings near the project - [BCY6,BCY4] *** Factor of 1.00 as value includes number of 6-inch passes to cover median nose area - [MNY6]
** For estimating purposes only. No Passing Zone Lines will be located in the field - [NPY6, NPY4]

| CHW10: Channelizing Line (White) @ 1.67 | | | BLW6: Broken Lane Line (White) @ 0.25 | | | | | | | | | | | | | | | | | | | 0 | |
|---|--------|--------|---|----------------------------|------|---|---|---------------------|-------------------|--------------|-------------|-------------|-------------|-------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|----------------|
| DLW6: Dotted Line (White) @ 0.33 | | | ELW6: Edge Line Right (White) @ 1.00 | | | | | | | | | | | | | | | | | | | 0 | |
| ELY6: Edge Line Left (Yellow) @ 1.00 | | | BLC6: Broken Line Contrast (White/Black) @ 0.50 | | | | | | | | | | | | | | | | | | | 0 | |
| Location | | | Dir. of Travel | Marking Type | Side | | | Groove Needed? 0 | Groove Qty STA | CHW10 STA | DLW6 STA | ELY6 STA | BLW6 STA | ELW6 STA | BLC6 STA | STA | STA | STA | STA | STA | STA | STA | Remarks |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | L | C | R | | | | | | | | | | | | | | | | |
| I 35 | 134.00 | 140.06 | NB | Paint - Waterborne/Solvent | X | | | 0.00 | | | | 319.97 | | | | | | | | | | | After Grinding |
| I 35 | 134.00 | 140.06 | NB | Paint - Waterborne/Solvent | | X | | 0.00 | | | | | 319.97 | | | | | | | | | | Stage 1 |
| I 35 | 134.00 | 138.86 | NB | Paint - Waterborne/Solvent | | | X | 0.00 | | | | | | 256.61 | | | | | | | | | |
| I 35 | 138.75 | 138.80 | NB | Paint - Waterborne/Solvent | | | X | 0.00 | | | 2.64 | | | | | | | | | | | | |
| I 35 | 138.80 | 138.86 | NB | Paint - Waterborne/Solvent | X | | | 0.00 | | 3.17 | | | | | | | | | | | | | |
| I 35 | 138.80 | 138.86 | NB | Paint - Waterborne/Solvent | | | X | 0.00 | | 3.17 | | | | | | | | | | | | | |
| I 35 | 138.80 | 139.28 | NB | Paint - Waterborne/Solvent | | | X | 0.00 | | | | | | 25.34 | | | | | | | | | |
| I 35 | 139.28 | 139.35 | NB | Paint - Waterborne/Solvent | | | X | 0.00 | | 3.70 | | | | | | | | | | | | | |
| I 35 | 139.28 | 139.35 | NB | Paint - Waterborne/Solvent | X | | | 0.00 | | 3.70 | | | | | | | | | | | | | |
| I 35 | 139.35 | 139.47 | NB | Paint - Waterborne/Solvent | | | X | 0.00 | | | 6.34 | | | | | | | | | | | | |
| I 35 | 139.35 | 140.06 | NB | Paint - Waterborne/Solvent | | | X | 0.00 | | | | | | 37.49 | | | | | | | | | |
| | | | | | | | | 0.00 | | 11.47 | 2.96 | 319.97 | 79.99 | 319.44 | | | | | | | | | |
| I 35 | 134.00 | 140.06 | NB | Paint - Multi-Component | X | | | Yes | 319.97 | | | 319.97 | | | | | | | | | | | Final |
| I 35 | 134.00 | 140.06 | NB | Paint - Multi-Component | | X | | Yes | 159.99 | | | | | | 319.97 | | | | | | | | |
| I 35 | 134.00 | 138.86 | NB | Paint - Multi-Component | | | X | Yes | 256.61 | | | | | 256.61 | | | | | | | | | |
| I 35 | 138.75 | 138.80 | NB | Paint - Multi-Component | | | X | Yes | 0.87 | | 2.64 | | | | | | | | | | | | |
| I 35 | 138.80 | 138.86 | NB | Paint - Multi-Component | X | | | Yes | 5.29 | 3.17 | | | | | | | | | | | | | |
| I 35 | 138.80 | 138.86 | NB | Paint - Multi-Component | | | X | Yes | 5.29 | 3.17 | | | | | | | | | | | | | |
| I 35 | 138.80 | 139.28 | NB | Paint - Multi-Component | | | X | Yes | 25.34 | | | | | 25.34 | | | | | | | | | |
| I 35 | 139.28 | 139.35 | NB | Paint - Multi-Component | X | | | Yes | 6.18 | 3.70 | | | | | | | | | | | | | |
| I 35 | 139.28 | 139.35 | NB | Paint - Multi-Component | | | X | Yes | 6.18 | 3.70 | | | | | | | | | | | | | |
| I 35 | 139.35 | 139.47 | NB | Paint - Multi-Component | | | X | Yes | 2.09 | | 6.34 | | | | | | | | | | | | |
| I 35 | 139.35 | 140.06 | NB | Paint - Multi-Component | | | X | Yes | 37.49 | | | | | 37.49 | | | | | | | | | |
| | | | | | | | | | | 11.47 | 2.96 | 319.97 | | 319.44 | 159.99 | | | | | | | | |
| | | | | | | | | | | | | | | 733.84 | Waterborne/Solvent Total | | | | | | | | |
| | | | | | | | | | | | | | | 813.83 | Multi-Component Total | | | | | | | | |
| | | | | | | | | | | | | | | 825.30 | Grooves | | | | | | | | |

| LONGITUDINAL GROOVING | | | 100-28 MODIFIED |
|-----------------------|---------|--------------------|--------------------|
| Route | Total | Remarks | |
| | SY | | |
| I-35 (NB) | 85325.3 | MP 134.0-MP 140.06 | |
| | | | |
| | | | |

Property Owners
AB-Dorothy G & W Marshman
AC-Sam Oatesbee
AD-Mary Buckels
AE-Louis & Doris Danielson

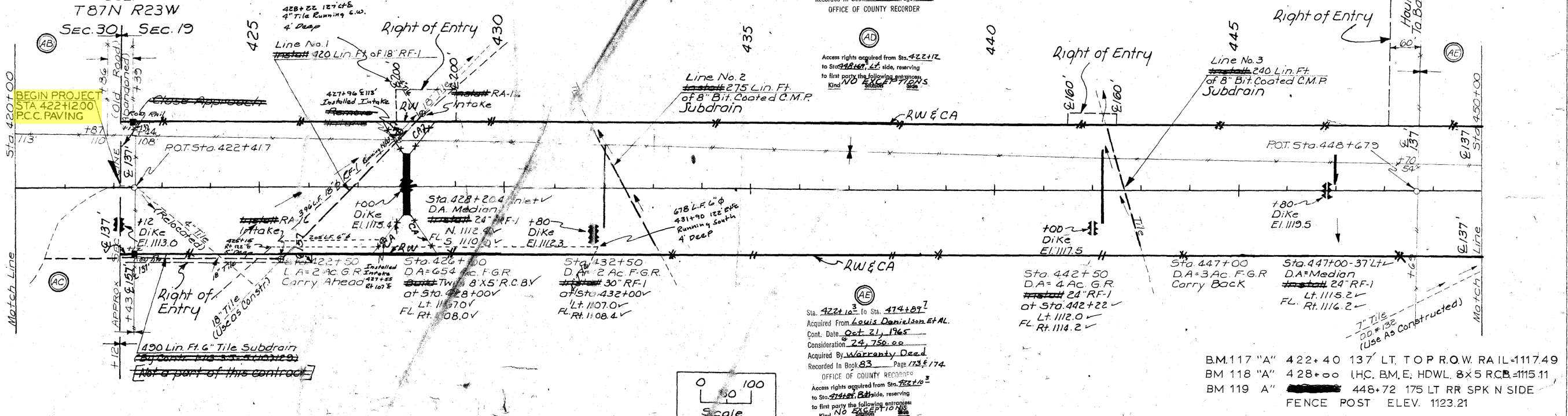
LINCOLN TWP
T87N R23W
SEC. 30 SEC. 19

Sta. 422+12 To Sta. 448+67
Acquired From Mary Buckels Et Al.
Cont. Date Condemnation
Consideration 6,500.00
Acquired By Condemnation
Recorded In Book Page
OFFICE OF COUNTY RECORDER

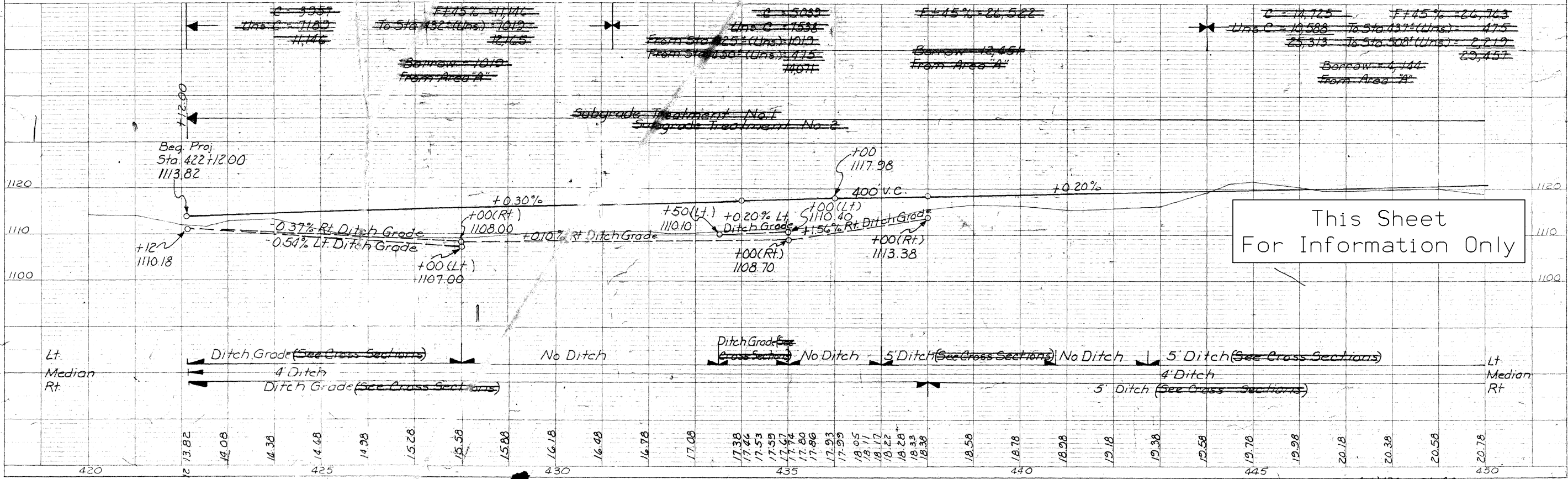
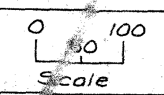
| | | | | | |
|---------------------|-------|----------------|-------------|-----------|--------------|
| FED. ROAD DIST. NO. | STATE | FED. PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| 104 | IA | 3 | 69 | 6 | 270 |

| | | |
|-------------------|------|----|
| PLAN | DATE | BY |
| TURKEY | | |
| PLOTTED | | |
| ALIGNMENT CHECKED | | |
| ALL DIMENSIONS | | |
| NO. | | |

| | | |
|---------------------|------|----|
| PROFILE | DATE | BY |
| TURKEY | | |
| PLOTTED | | |
| GRADES CHECKED | | |
| STRUCTURE NOTATIONS | | |
| NO. | | |



BM.117 "A" 422+40 137' LT. TOP R.O.W. RAIL-1117.49
BM 118 "A" 428+00 LHC. BM. E. HDWL. 8x5 R.C.B. =1115.11
BM 119 "A" 448+72 175' LT. RR SPK N SIDE
FENCE POST ELEV. 1123.21



SINGLE PLAN AND PROFILE - DOTTED
H. A. ROBERTS CO. - MINNEAPOLIS - ST. PAUL - DULUTH

Hamilton Co.

State Proj. No. 1-35-5(16)134--01-40
Sheet No. 6 of 6

Property Owners:
A-E Louis & Daniel Danielson
A- Genevieve M. Olsen
B- Hoegen K & Harleim M. Severson

BM.NO.120 464+00 180' Lt. Top Row Rail Elev. 1121.66

Sta. 422+10 To Sta. 474+87
Acquired From Louis Danielson et al.
Cont. Date Oct 21, 1965
Consideration \$24,750.00
Acquired By Vortherms
Recorded in Book 83 Page 173 E 174
OFFICE OF COUNTY RECORDER

Sta. 474+87 To Sta. 476+00
Acquired From
Cont. Date
Consideration
Acquired By
Recorded in Book
OFFICE OF COUNTY RECORDER

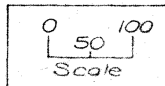
Access rights acquired from Sta. 422+10
to Sta. 474+87, 1/2 mile, reserving
to first party the following easements:
1/2 mile easement

LINCOLN TWP
T87N R23W

Note: Local Road remain open
until construction was
completed on Grade Separation

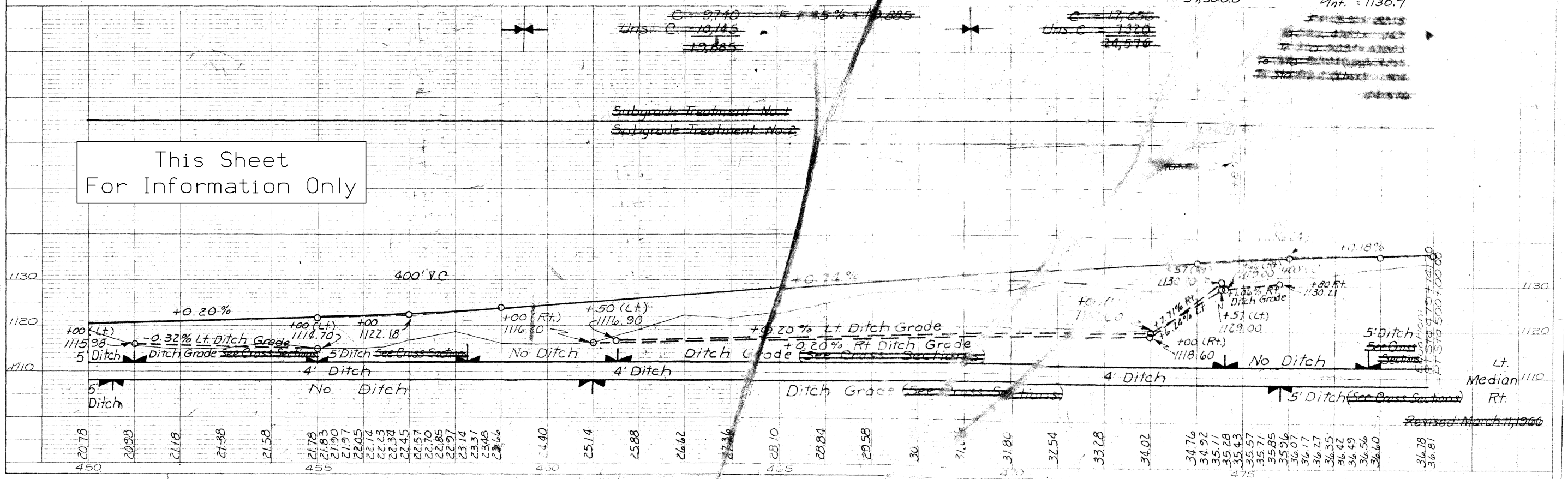
| PLAN | DATE | BY |
|-------------------|------|----|
| DESIGNED | | |
| PLOTTED | | |
| ALIGNMENT CHECKED | | |
| AT OF WAY CHECKED | | |
| NOTE BOOK | | |
| NO. | | |

LEGEND:
• Ellsworth Mutual Tel Assn.
• Hardin Co. R.E. Coop



This Sheet
For Information Only

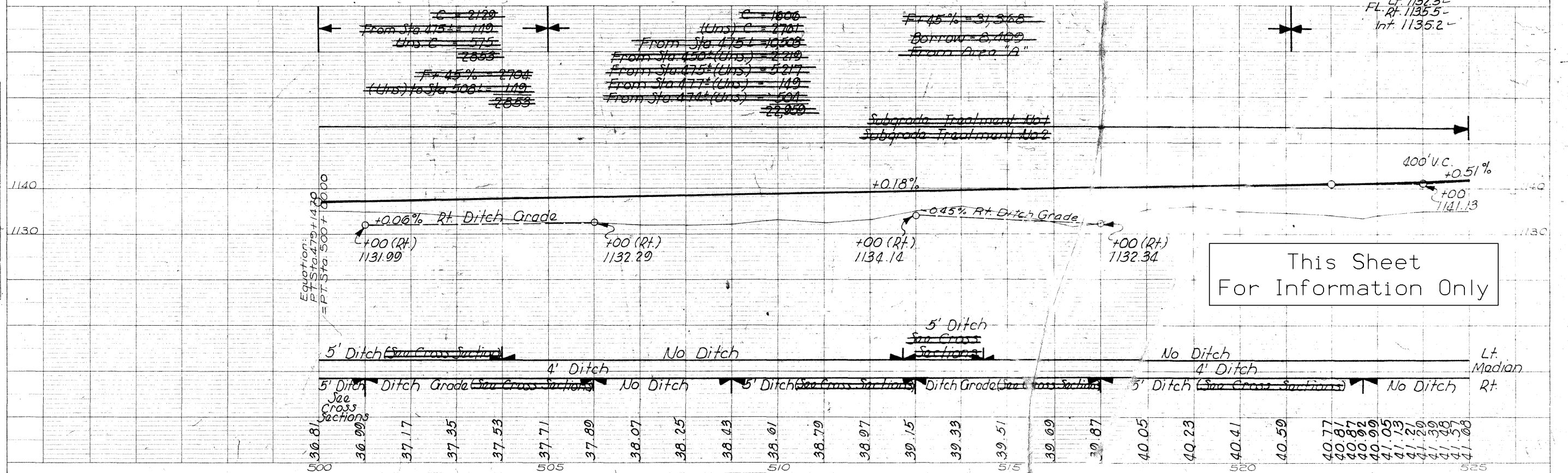
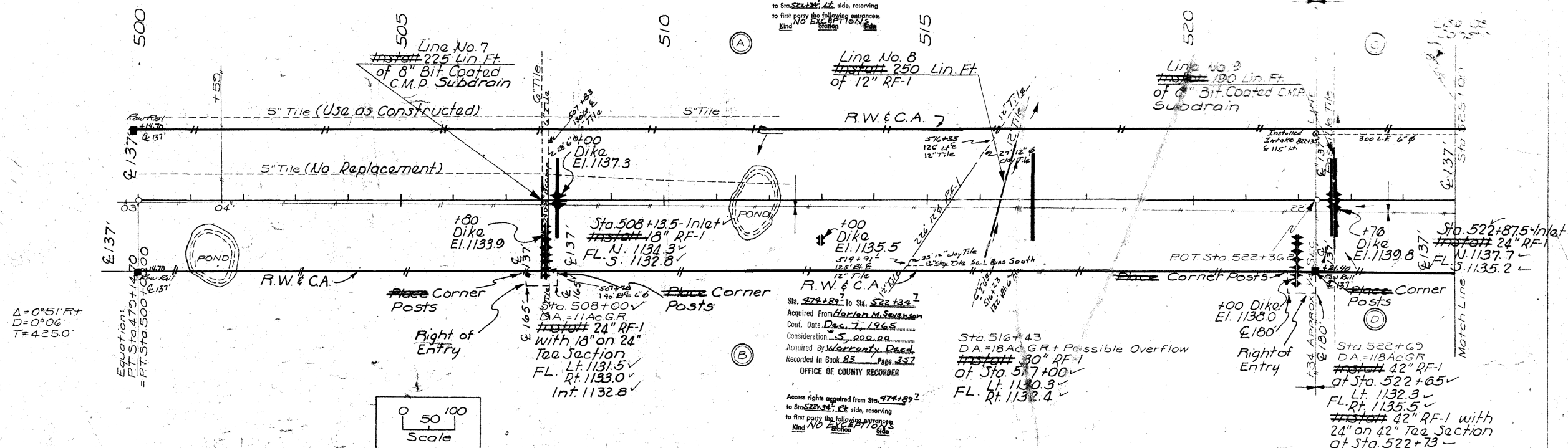
| PROFILE | DATE | BY |
|--------------------------|------|----|
| DESIGNED | | |
| PLOTTED | | |
| GRADES CHECKED | | |
| STRUCTURE NOTATIONS CHNG | | |
| NOTE BOOK | | |
| NO. | | |



State Proj. No. 35-5(116)134--01-40
Sheet No. 7 of 7

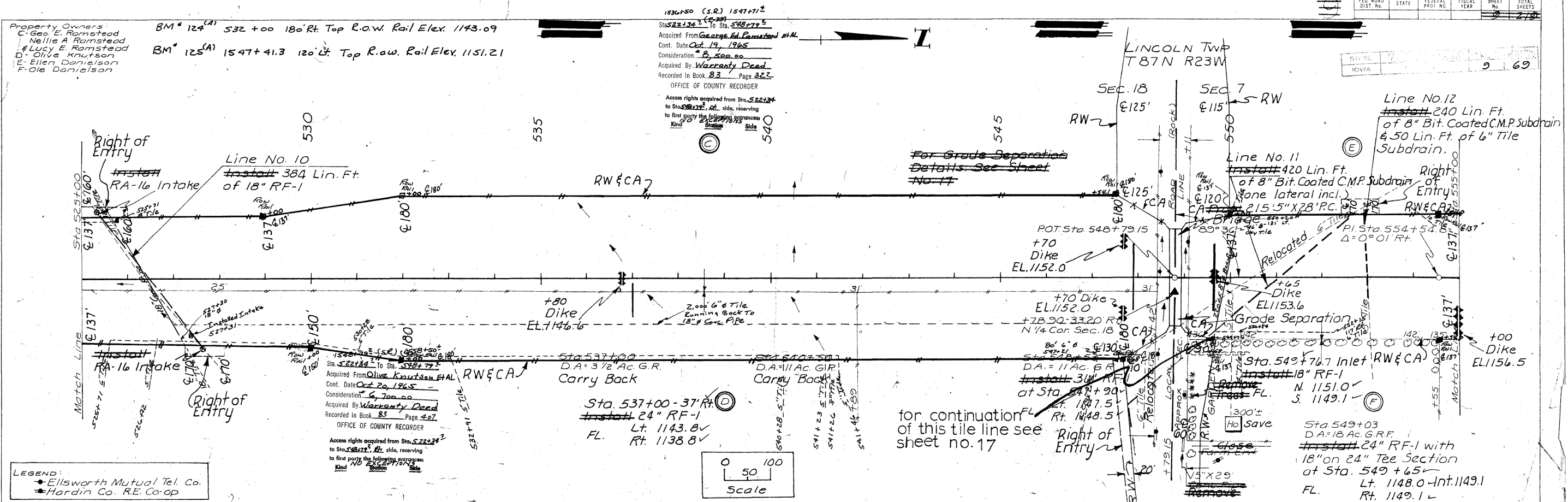
Sta. 474+89⁷ To Sta. 523+39⁷
 Acquired From Gabeiva M. Olsen
 Cont. Date Dec. 23, 1965
 Consideration \$ 6,900.00
 Acquired By Warranty Deed
 Recorded In Book 83 Page 316
 OFFICE OF COUNTY RECORDER

Access rights acquired from Sta. 474+89
to Sta. 522+34, 4+ side, reserving
to first party the following entrances:
Kind Station Side
NO EXCEPTIONS

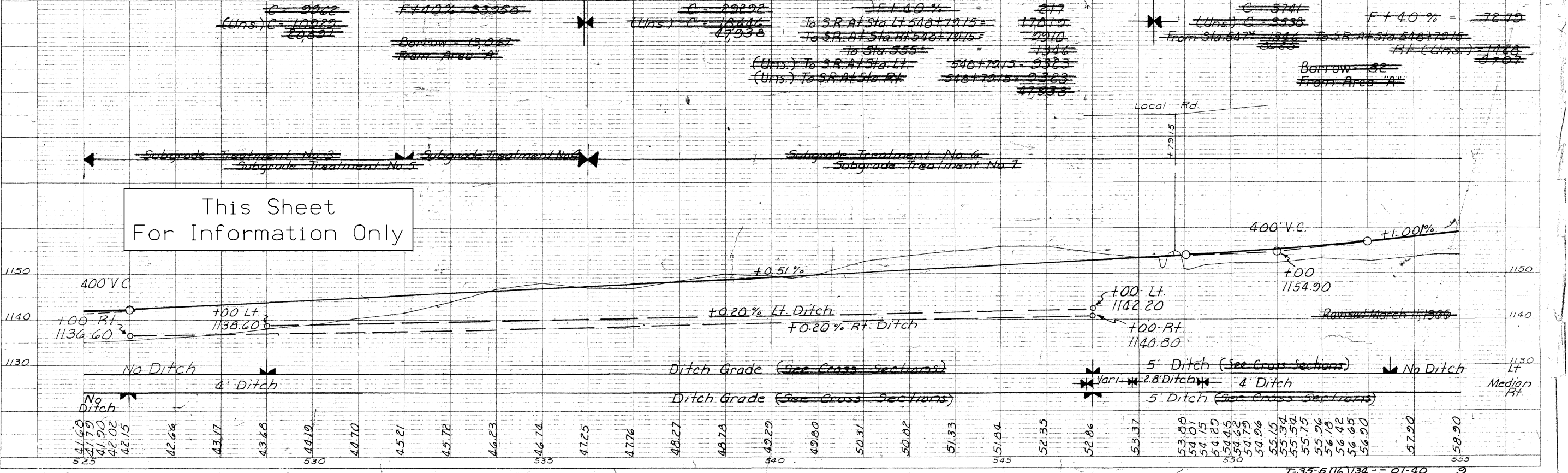
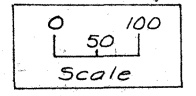


This Sheet
For Information Only

| FED. ROAD DIST. NO. | STATE | FEDERAL PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------------|-------------|-----------|--------------|
| | IA | | | 9 | 69 |



LEGEND:
• Ellsworth Mutual Tel. Co.
• Hardin Co. R.E. Co-op



This Sheet
For Information Only

| PLAN | DATE | BY | DATE | BY |
|------|------|----|------|----|
| | | | | |

| PROFILE | DATE | BY | DATE | BY |
|---------|------|----|------|----|
| | | | | |

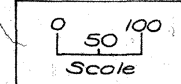
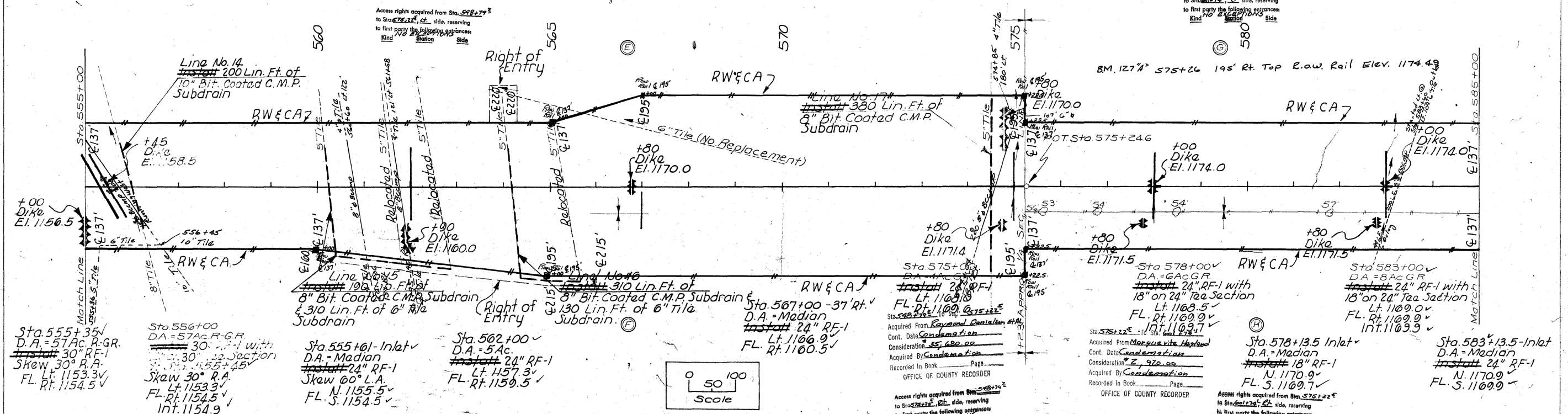
Property Owners
E. Ellen Danielson
F. Ole Danielson
G. Robert W. Mott
H. Lorena Mott
H. Marguerite Hegland

Sta. 548+29.2 To Sta. 575+22.5
Acquired From Raymond Danielson et al.
Cont. Date Condemnation
Consideration \$5,680.00
Acquired By Condemnation
Recorded In Book _____ Page _____
OFFICE OF COUNTY RECORDER

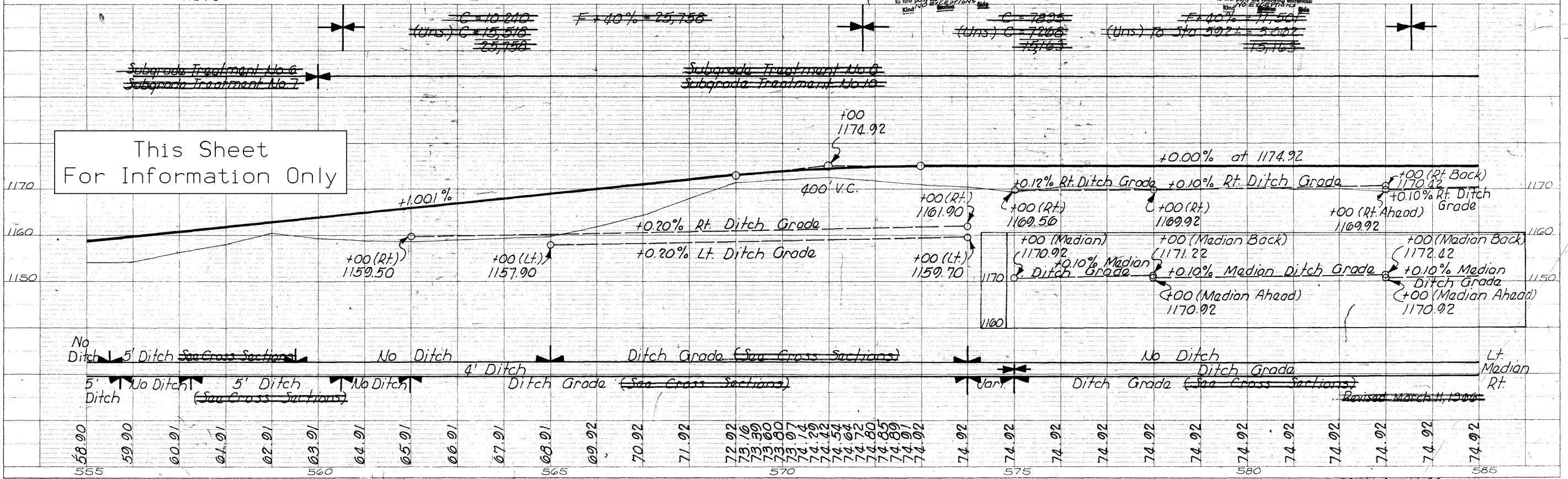
LINCOLN TWP
T87N R23W
SEC. 7

Sta. 575+22.5 To Sta. 583+13.5
Acquired From Robert W. Mott
Cont. Date Condemnation
Consideration \$6,400.00
Acquired By Condemnation
Recorded In Book _____ Page _____
OFFICE OF COUNTY RECORDER

| | | | | | |
|---------------------|-------|-------------------|-------------|-----------|--------------|
| FED. ROAD DIST. NO. | STATE | FEDERAL PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| | | | | 10 | 69 |



This Sheet
For Information Only



SINGLE PLAN AND PROFILE - DOTTED
H. A. ROGERS CO. - MINNEAPOLIS, ST. PAUL - DULUTH

Hamilton Co

State Proj. No. 135-5(139)134--02-40
Sheet No. 10 of 69

Property Owners:
G. Robert W. Mott
Lorena Mott
H. Marguerite Hagland
I. George W. & Cecile Abell
J. Scott E. Abell
K. Elvin H. Johnson

Sta. 525+22.5 To Sta. 601+74.1
Acquired From Robert W. Mott
Cont. Date Condemnation
Consideration \$ 400.00
Acquired By Condemnation
Recorded In Book _____ Page _____
OFFICE OF COUNTY RECORDER

Access rights acquired from Sta. 525+22.5
to Sta. 601+74.1, R.L. side, reserving
to first party the following easements:
Kind No Easements

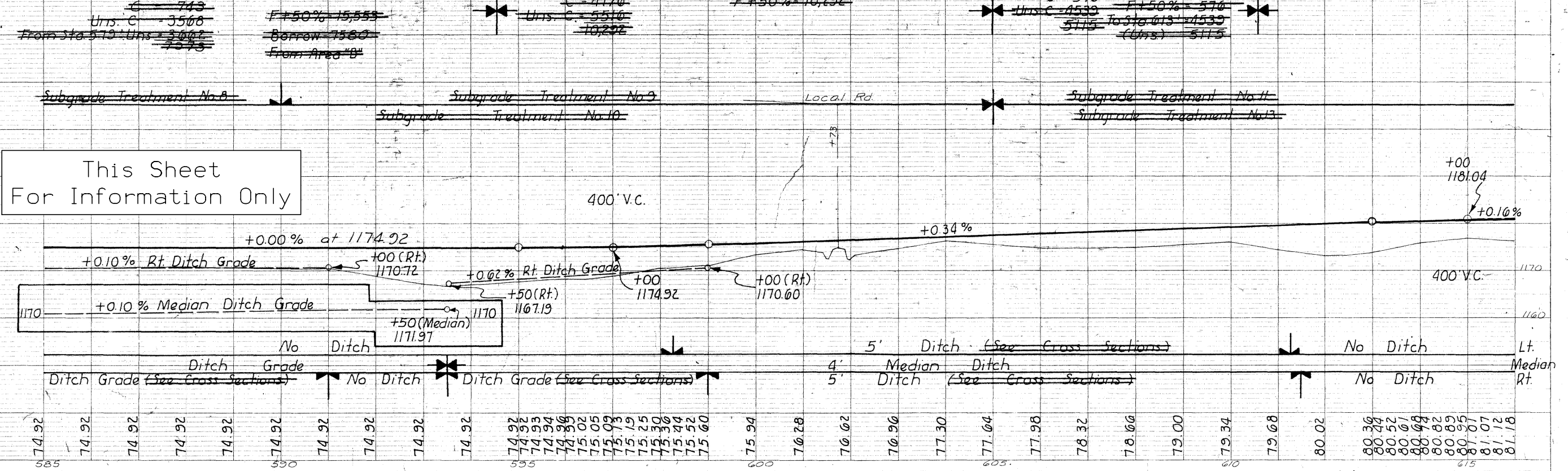
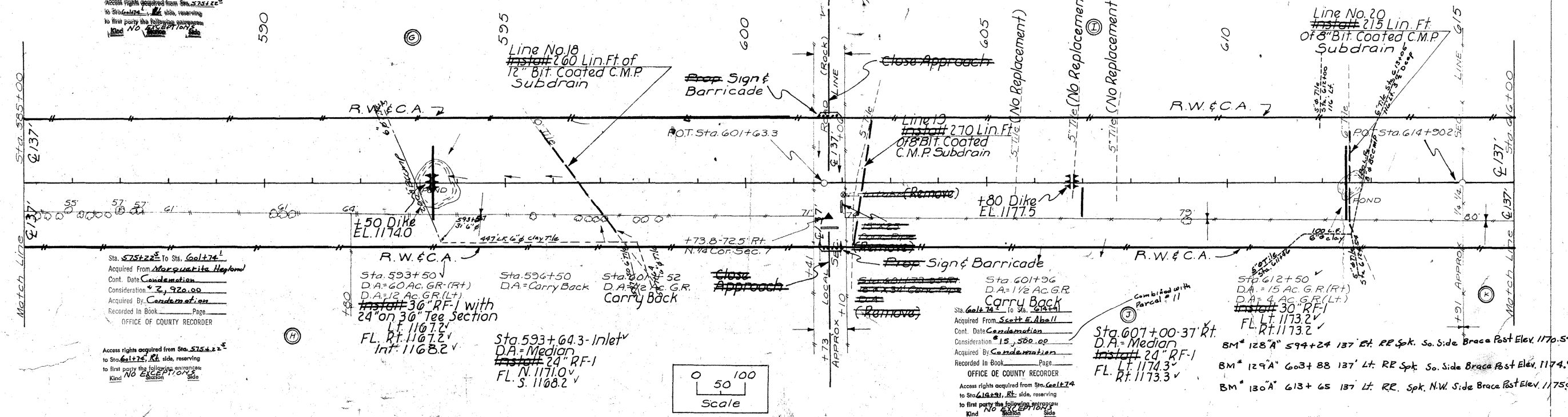
Sta. 525+22.5 To Sta. 601+74.1
Acquired From Marguerite Hagland
Cont. Date Condemnation
Consideration \$ 3,920.00
Acquired By Condemnation
Recorded In Book _____ Page _____
OFFICE OF COUNTY RECORDER

Access rights acquired from Sta. 525+22.5
to Sta. 601+74.1, R.L. side, reserving
to first party the following easements:
Kind No Easements

LINCOLN TWP
T87N R23W
SEC. 7 SEC. 6

Note: Local road to remain
open until construction
is completed on grade
separation and Backage Side Road

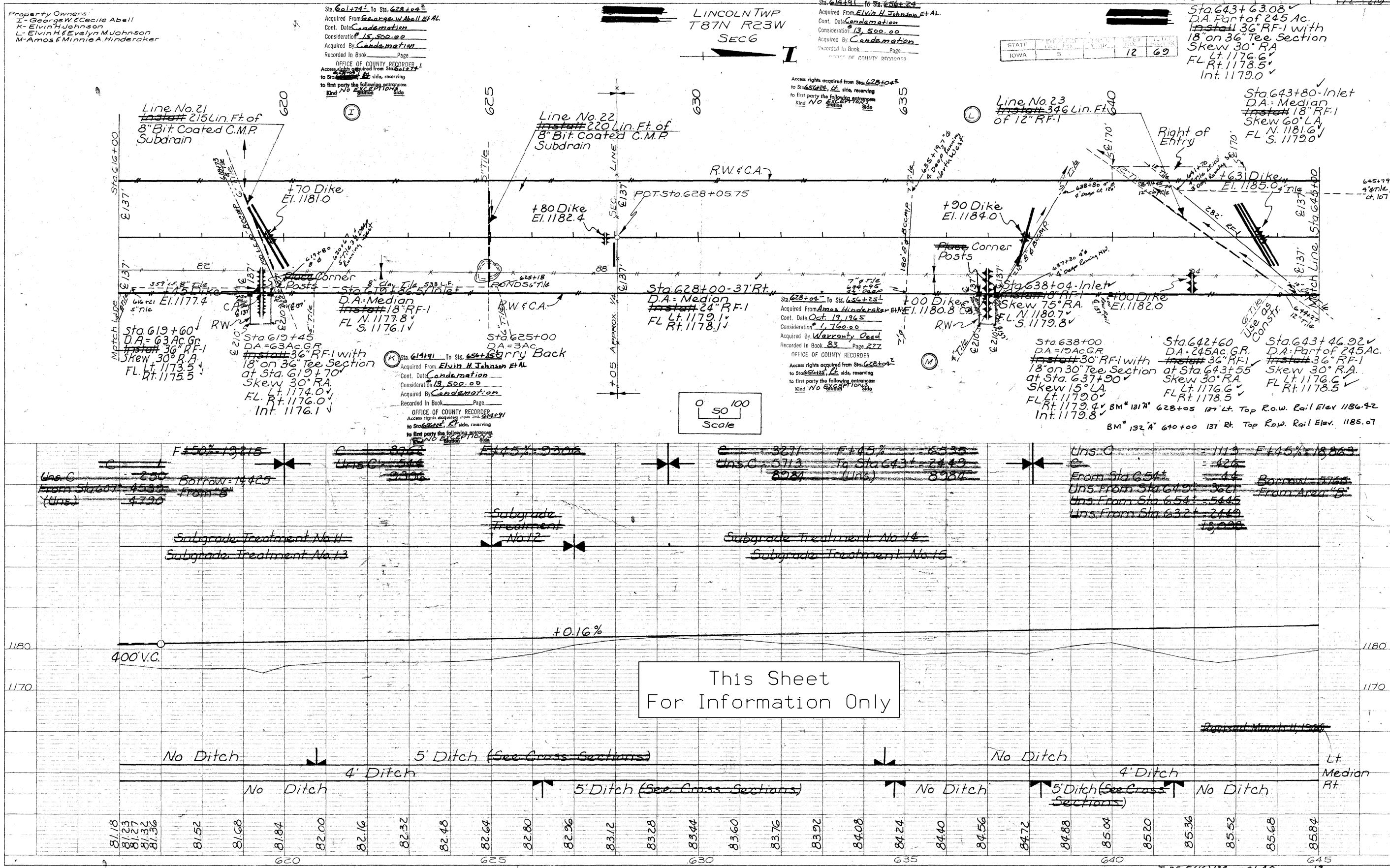
Line No. 20
Inst. 215 Lin. Ft.
of 8" Bit. Coated C.M.P.
Subdrain



SINGLE PLAN AND PROFILE - DOTTED
H. A. ROGERS CO. - MINNEAPOLIS - ST. PAUL - DULUTH

Hamilton Co.

State Proj. No. 35-5(16)134--01-40
Sheet No. 11 of 11



This Sheet
For Information Only

| PLAN | DATE | BY |
|--------------------|------|----|
| SURVEYED | | |
| NOTE BOOK | | |
| ALIGNED CHECKED | | |
| HT. OF WAY CHECKED | | |

| PROFILE | DATE | BY |
|-------------------------|------|----|
| SURVEYED | | |
| NOTE BOOK | | |
| GRADES CHECKED | | |
| STRUCTURE NOTATION CHKD | | |

Property Owners:
L-Elin H. & Evelyn M. Johnson
M-Amos & Minnie A. Hinderaker
N-Henry & Alice Johnson
O-John J. Baker
P-Rivern Hill

BM # 133^(A) 655+76 137' Lt Top Row. Rail Elev. 1186.16
BM # 134^(A) 670+17 137' Rt Top Row. Rail Elev. 1195.52

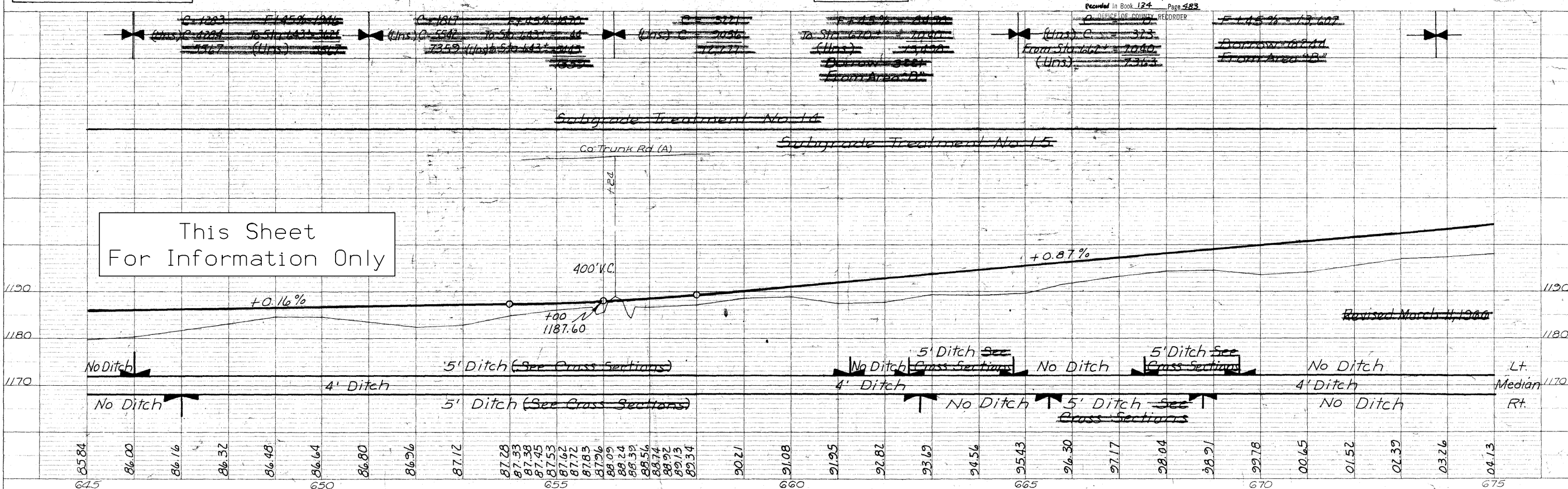
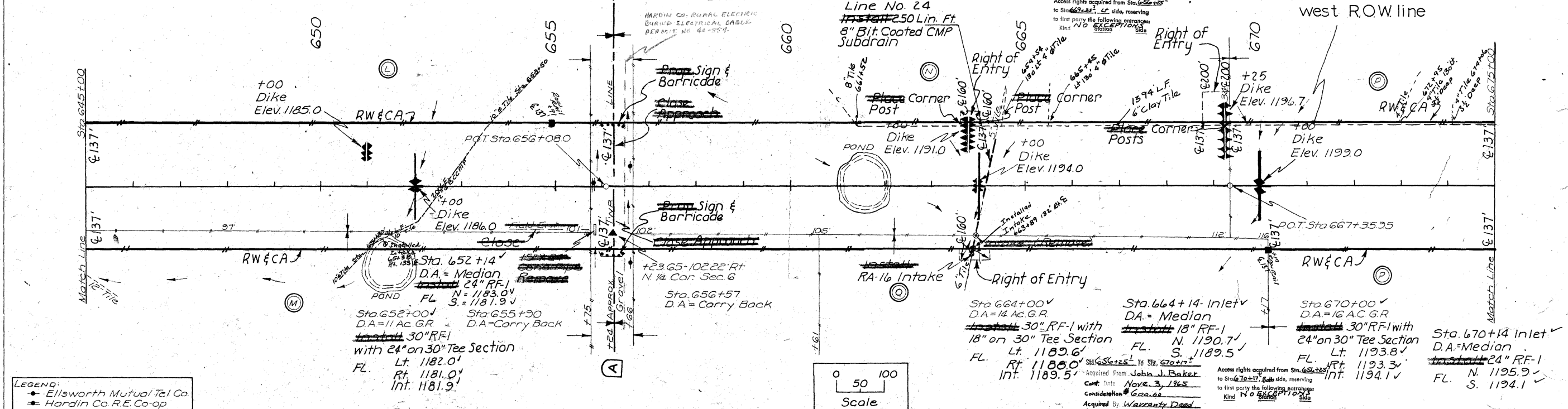
LINCOLN TWP
T87N R23W
Sec. 6

ROSE GROVE TWP
T88N R23W
Sec. 31

Sta. 656+25' to Sta. 672+35'
Acquired From Henry Johnson et al.
Cont. Date Dec. 23, 1965
Consideration \$ 4,650.00
Acquired By Warranty Deed
Recorded In Book 82 Page 319
OFFICE OF COUNTY RECORDER

note: all 4" tile drain east into
new 6" tile running along
west R.O.W. line

| FED. ROAD DIST. NO. | STATE | FEDERAL PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------------|-------------|-----------|--------------|
| | IA | | | 13 | 69 |



SINGLE PLAN AND PROFILE - DOTTED
H. A. ROGERS CO. - MINNEAPOLIS - ST. PAUL - DULUTH

Sta. 70945 To Sta. 735405
 Acquired From Wilka Haeran et al.
 Cont. Date Condemnation
 Consideration 14,887.50
 Acquired By Condemnation
 Recorded In Book _____ Page _____
 OFFICE OF COUNTY RECORDER

Access rights acquired from Sta. 709+95
to Sta. 735+05, LT side, reserving
to first party the following entrances:
Kind NO EXCEPTIONS Station Side

Line No. 3
676 Lin. ft. of 6" Corr.
Perf. metal Subdrain.
20 Lin. ft. of 6" Corr. metal
Subdrain and 1- BF??

RW & CA 7

P.O.T.Sta. 735+07.3

+30 Maintenance
Crossover Use as

Sta. 735+00 - 37' Rt. ✓
D.A. = Med.
~~Install 24" RFI~~
FL Lt. 1204.8 ✓
Rt. 1203.8 ✓

Sta. 734+50
D.A. = 2 Ac. G.R.
Carry Ahead

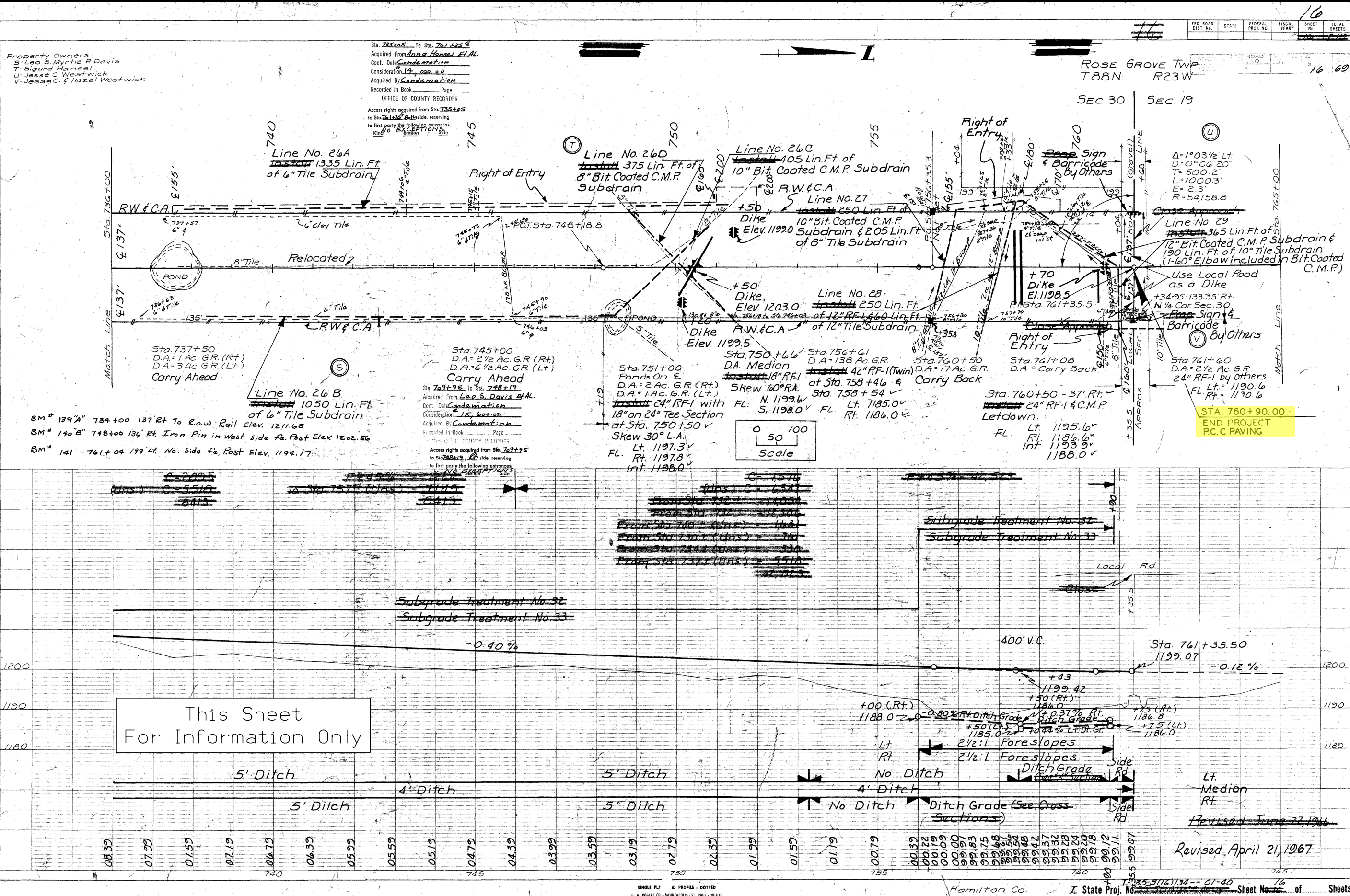
BM# 137 "A" 6709+50 R.O.W. Rail 60' Rt. E.S. Elev. 1216.50
BM# 137 "B" 709+50 Cut "X" ON Top of Rt. End Rdwy Pipe Elev. 1210.80
BM# 137 "C" 710+37 I.H.C. BM So. West Wing Bridge Elev. 1234.08
BM# 138 "A" 725+00 140' Rt. R.O.W. Rail Elev. 1216.04

This Sheet
For Information Only

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Hamilton Co

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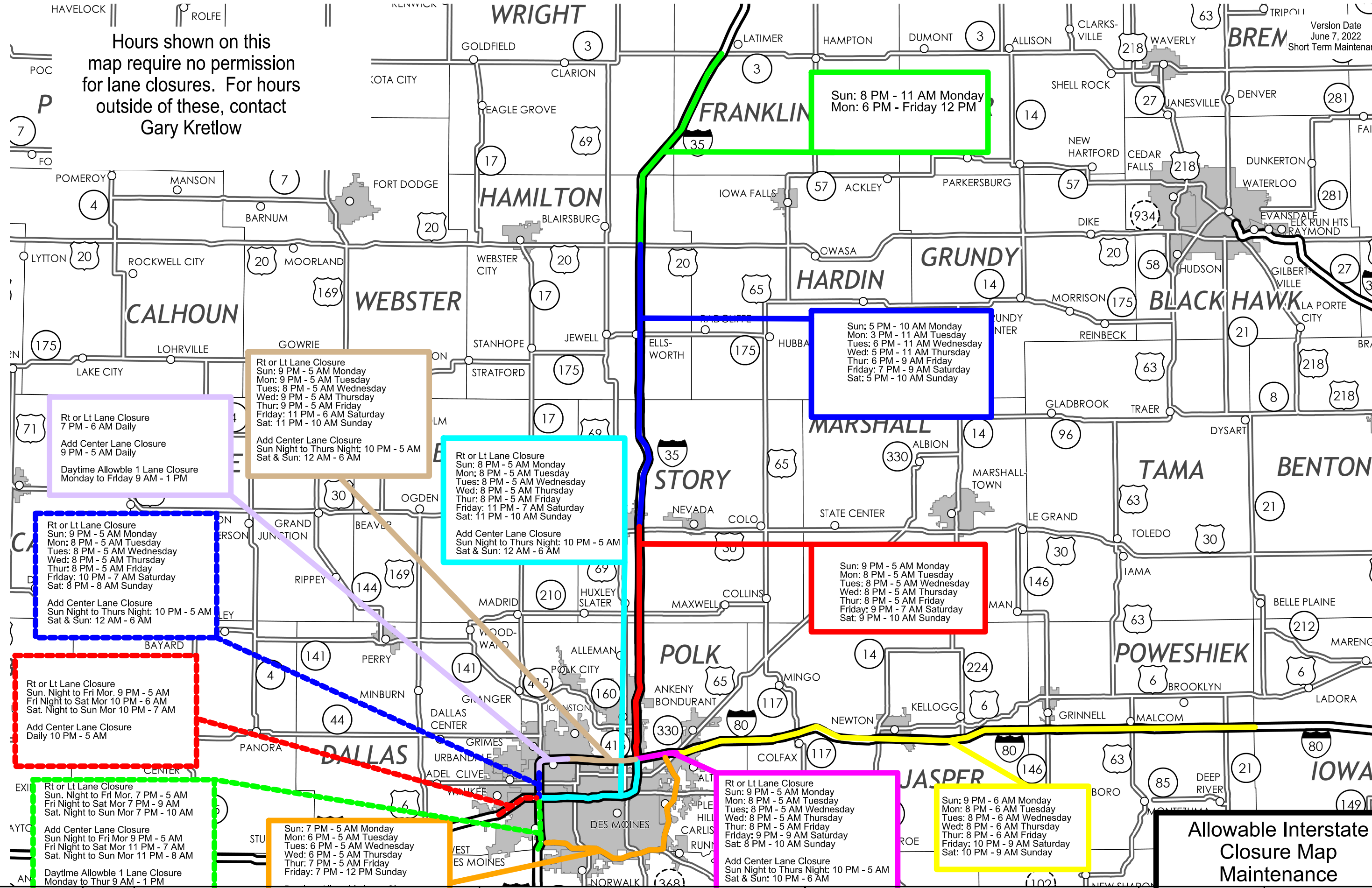
108-23A
08-01-08

Traffic shall be maintained on I-35 at all times per TC-418. See sheet J.2 for allowable lane closure times.

108-25
10-21-14

[illegible]

Hours shown on this
map require no permission
for lane closures. For hours
outside of these, contact
Gary Kretlow



Allowable Interstate
Closure Map
Maintenance